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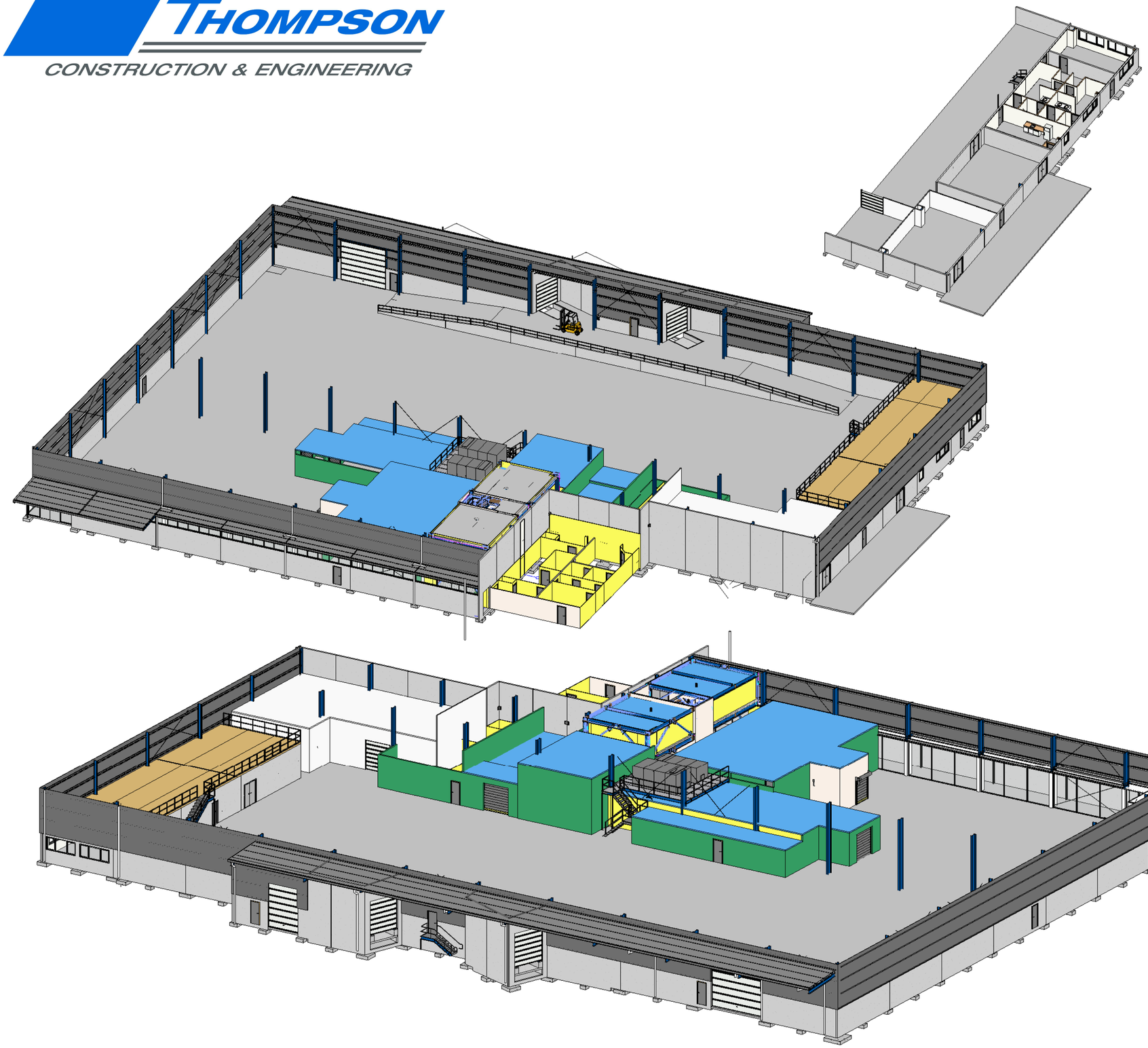

Architectural Sheet List

Sheet Number	Sheet Name	Current Revision	Current Revision Date
A0100	Site Plan	11	15/06/16
A0101	Site Plan Office		
A0200	Ground Floor	12	28/07/16
A0202	Ground floor callouts	15	19/04/17
A0300	Cross Sections	5	18/02/16
A0301	Cross Sections	12	28/07/16
A0303	Refrig Fitout Plan and Sections	12	28/07/16
A0304	Refrig Fitout Sections	3	09/02/16
A0305	Refrig Fitout Sections	12	28/07/16
A0400	Elevations A and C	9	02/05/16
A0401	Elevations B and D	9	02/05/16
A0500	Plumbing Ground Floor		
A0600	D W Ground Floor Plan	12	28/07/16
A0601	D W External		
A0602	D W Internal		
A0603	Balustrades		
A0800	Stairs and Decks		
A1300	Roof Plan	9	02/05/16
A1301	Flashing Details	4	16/02/16
A1302	Flashing Details 2	9	02/05/16
A1400	H1 Compliance		

NZ Dairy Collaborative Group
Infant Formula Blending Plant

9 Ashford Ave., Ashburton

JOB #	12412
DATE:	23/01/16

SITE PLAN

PROJECT NAME: NZ Dairy Collabrative Group
PROJECT DESCRIPTION: Infant Formula Blending Plant
PROJECT ADDRESS: 9 Ashford Ave, Ashburton
APPELLATION: Lot 17 DP 427688

AREA OF PROPOSED NEW BUILDINGS:
Blending Plant = 4442m²
Office = 1005m² (Separate Building Consent)

LANDSCAPING: 3m wide landscaping strip

KEY

- T — Data (Telephone)
- P — Power
- W — Water

Please refer to Civil and Services plan by TM Consultants for further information.

Read this plan in conjunction with the FPE Sprinkler design 2209 for Fire System, Fire water tank and pump house set out.

11

Lot 15
DP 427688

N

26.65

Lot 16
DP 427688

Hose Tap

SECURITY FENCING

A

1

B

ø150 DP (314m²)

ø150 DP (314m²)

ø150 DP (314m²)

105.88

D

8 PARKS

GRAVEL GROUND COVER

17.9m truck turning 20.00 radius

105.36

Lot 14
DP 427688

SECURITY FENCING

SECURITY GATE

G

Lot 17
DP 427688
SITE AREA
11130m² GRAVEL GROUND COVER

ø150 DP (314m²)

ø150 DP (314m²)

Hose Tap

ø150 DP (314m²)

K

9 Ø150 DP

GARDEN

Ø75 DP (85m²)

PROPOSED BLENDING PLANT
4442m²

200thk Slab

ø150 DP (314m²)

ø150 DP (350m²)

EXIT

12000

ø150 DP

9

ø150 DP

9

Proposed new tower 131m²

12

ø150 DP (350m²)

Lot 304
DP 427688

Common services trench with ø25 data conduit(data), power and sprinkler pipes (refer to FPE Design 2209 FP8)

7

Hose Tap

SECURITY FENCING

GARDEN

9 ø150 DP

20 PARKS

5.68

105.39

3.87

5000

150 thk Slab

OFFICE
1005m²

GRAVEL GROUND COVER

17.9m truck turning 20.00 radius

GLUYAS WAY

ASHFORD AVENUE

80300

Hose Tap

Ramp up

+0.0

Ramp up

Ramp up

(252m²)

105.88

Power trench for sign spot light (to future proof)

Cut down curb in front of accessible parks

GARDEN

(325m²)

SECURITY GATE

Fire Brigade link and panel

ø100 water connection with BFP for fire water

BIKE STAND

ENTRY

GARDEN

13990

Lot 18
DP 427688

Lot 33
DP 427688

Power duct from transformer road crossing ø110 Duct & Data in same trench by Get Wired Electrical

7

Site Plan New
1 : 500

Firewater Tank, ø9.75m, foundation PS1 design TBC (refer to FPE Sprinkler Design 2209 FP8)

Containerised Sprinkler Pump House, (Refer to FPE Sprinkler Design 2209 FP8)

11

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

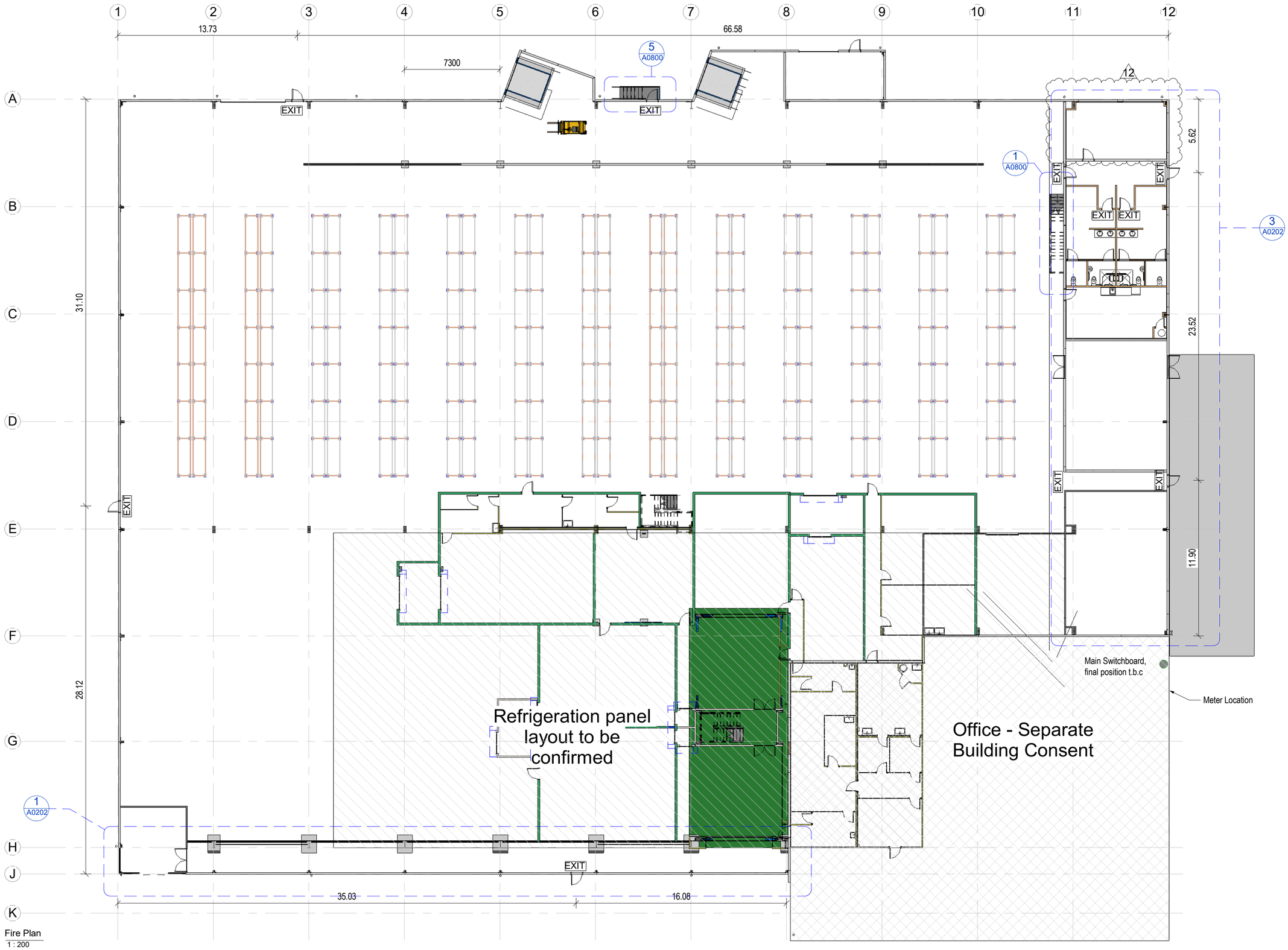
Arch

Rev#	Amendments	Date
1	PIM Parking	18/12/15
7	Changes for sprinkler and electrical services	21/03/16
9	Changes to DP's	02/05/16
11	Prelim Tank and Pump House layout	15/06/16

SCALE	As indicated@ A2	JOB #	12412
DRAWN BY	B.Holloway	DATE	23/01/16
APPROVED BY	A. Cloake	REV	11
Site Plan			A0100
Please note: All dimensions to be verified on site		Paper size	A2

ELEVATION KEY

A
D B
C



Fire Plan
1 : 200

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NZ Dairy Collaborative Group

Infant Formula Blending Plant

9 Ashford Ave., Ashburton

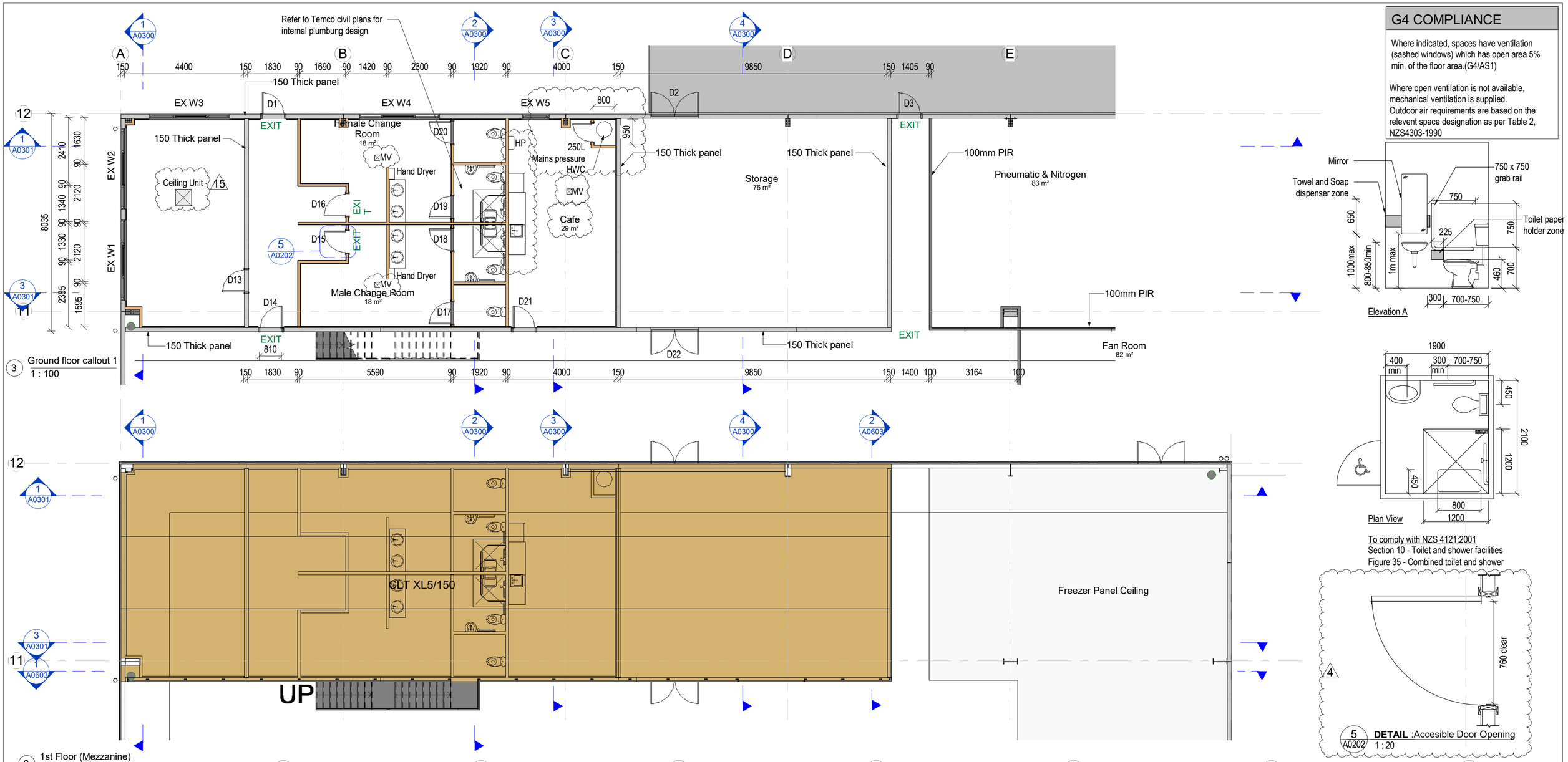
Rev#	Amendments	Date
12	Mods to operational fitout	28/07/16

SCALE	As indicated@ A2	JOB #	12412
DRAWN BY	C. White	DATE	23/01/16
APPROVED BY	A. Cloake	REV	12
Ground Floor			A0200
Please note: All dimensions to be verified on site		Paper size	A2

G4 COMPLIANCE

Where indicated, spaces have ventilation (sashed windows) which has open area 5% min. of the floor area.(G4/AS1)

Where open ventilation is not available, mechanical ventilation is supplied. Outdoor air requirements are based on the relevent space designation as per Table 2, NZS4303-1990



To comply with NZS 4121:2001
Section 10 - Toilet and shower facilities
Figure 35 - Combined toilet and shower

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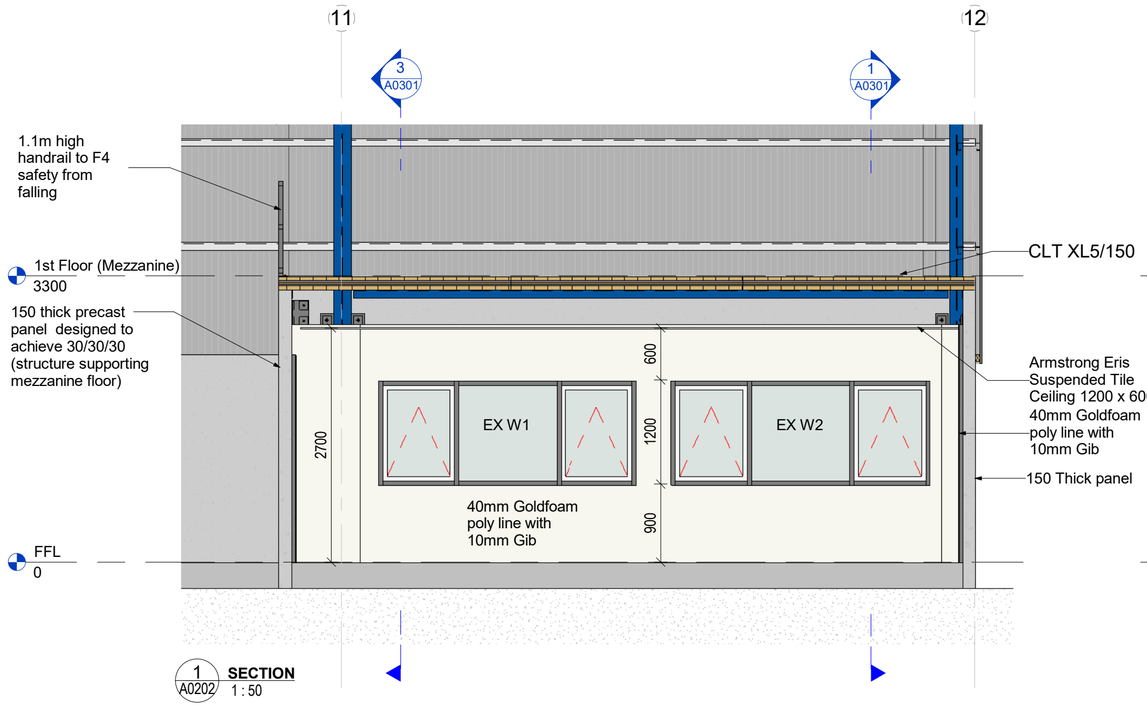
NZ Dairy Collaborative Group
Infant Formula Blending Plant

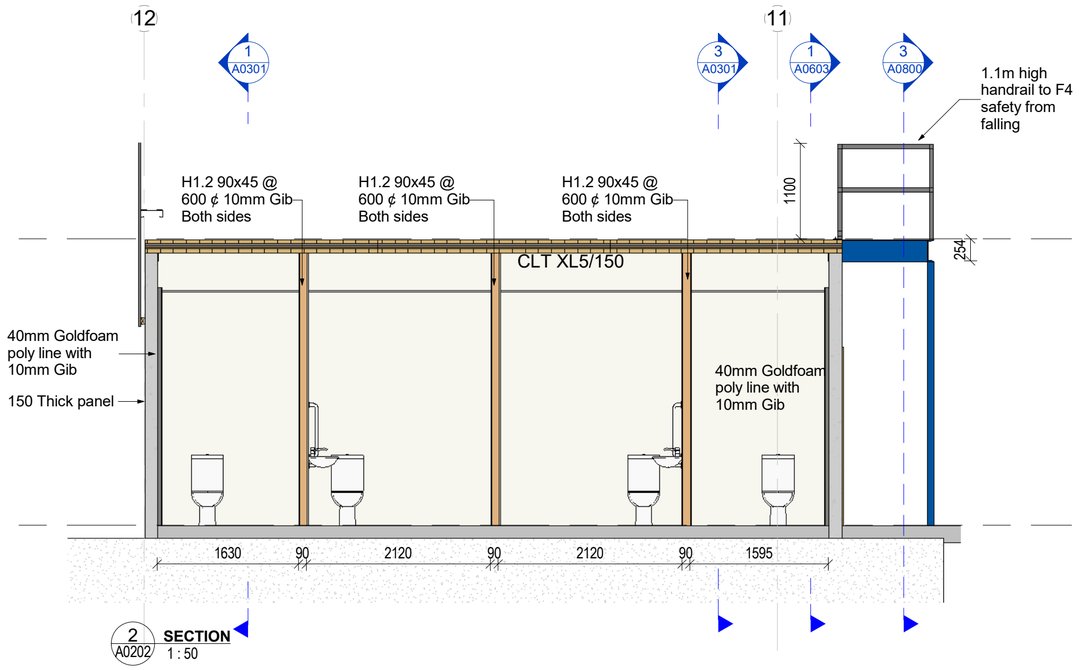
9 Ashford Ave., Ashburton

Rev#	Amendments	Date
4	Council RFI	16/02/16
15	Contract notes	19/04/17

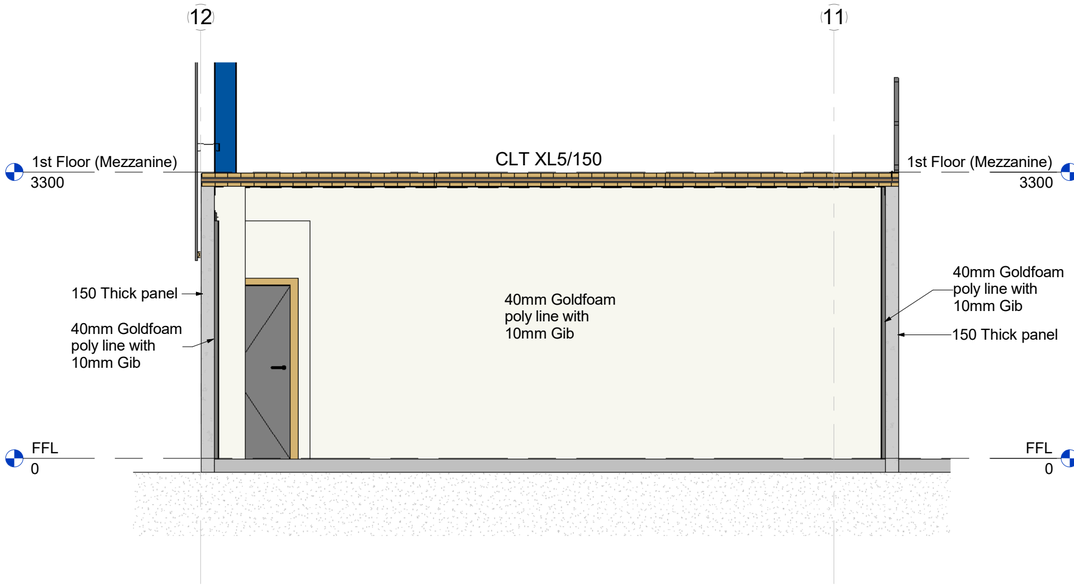
SCALE	As indicated@ A2	JOB #	12412
DRAWN BY	C. White	DATE	23/01/16
APPROVED BY	A. Cloake	REV	15
Ground floor callouts			A0202
Please note: All dimensions to be verified on site		Paper size	A2



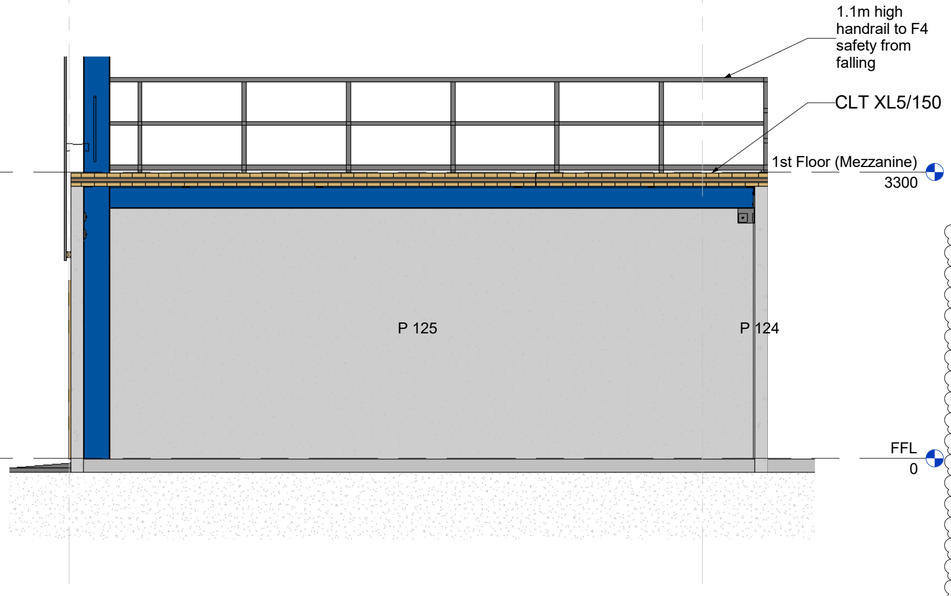
1 A0202 **SECTION** 1 : 50



2 A0202 **SECTION** 1 : 50

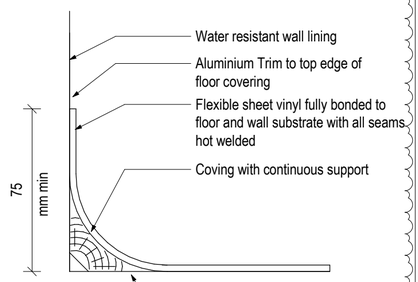


3 A0202 **SECTION** 1 : 50



4 A0202 **SECTION** 1 : 50

Wall Linings to Bathroom areas:
Standard 10mm GIB
GIB Aqualine to wall behind wet areas
Shower to be lined with Water Resistant wall lining as noted below.



Floor Coverings at Wall Junctions
Figure 1 E3 / AS1

5 Wall to floor detail
1 : 2

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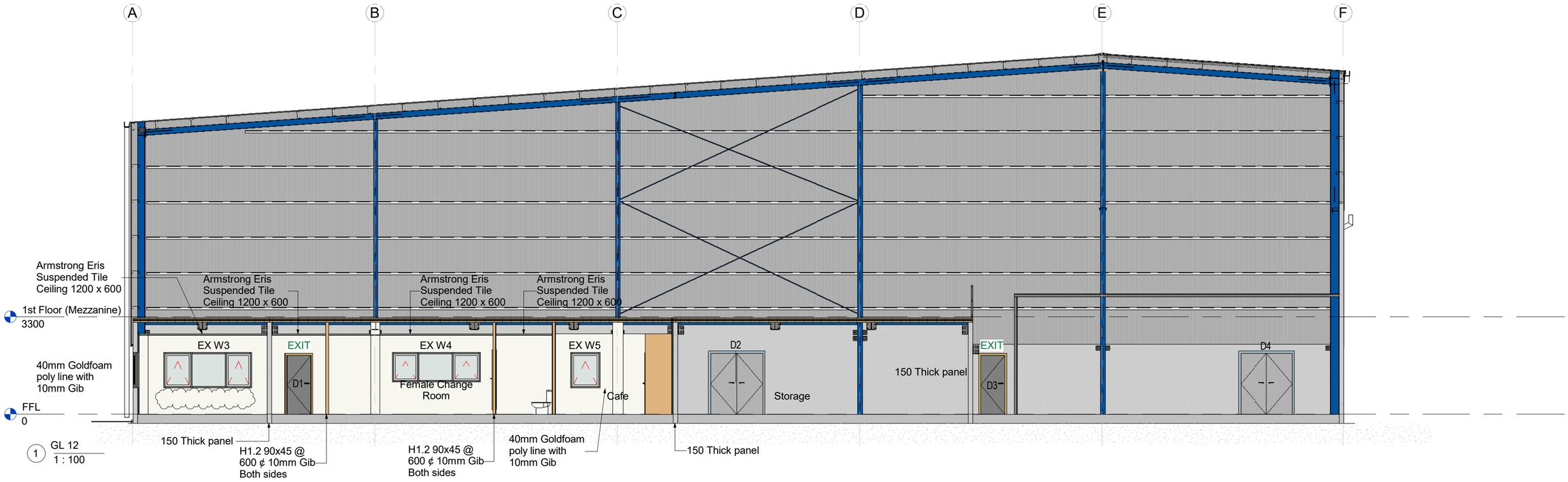
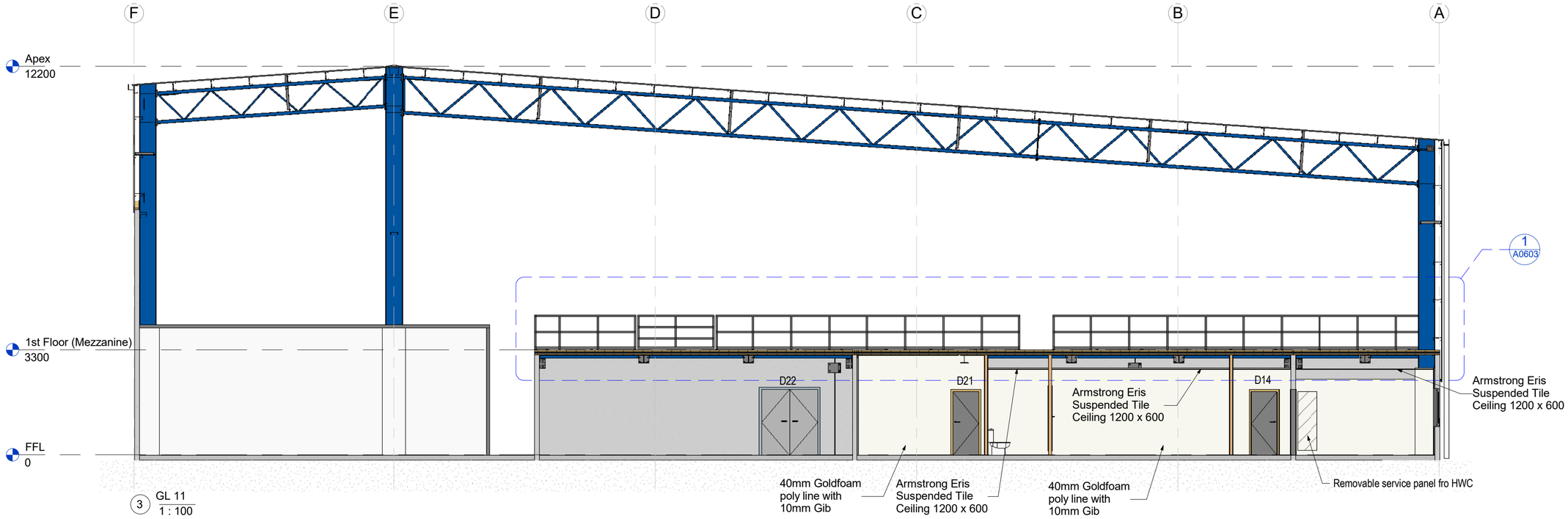
NZ Dairy Collaborative Group
Infant Formula Blending Plant

9 Ashford Ave., Ashburton

Rev#	Amendments	Date
5	Council RFI 2	18/02/16

SCALE	As indicated@ A2	JOB #	12412
DRAWN BY	C. White	DATE	23/01/16
APPROVED BY	A. Cloake	REV	5
Cross Sections			**A0300**
Please note: All dimensions to be verified on site		Paper size	**A2**





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

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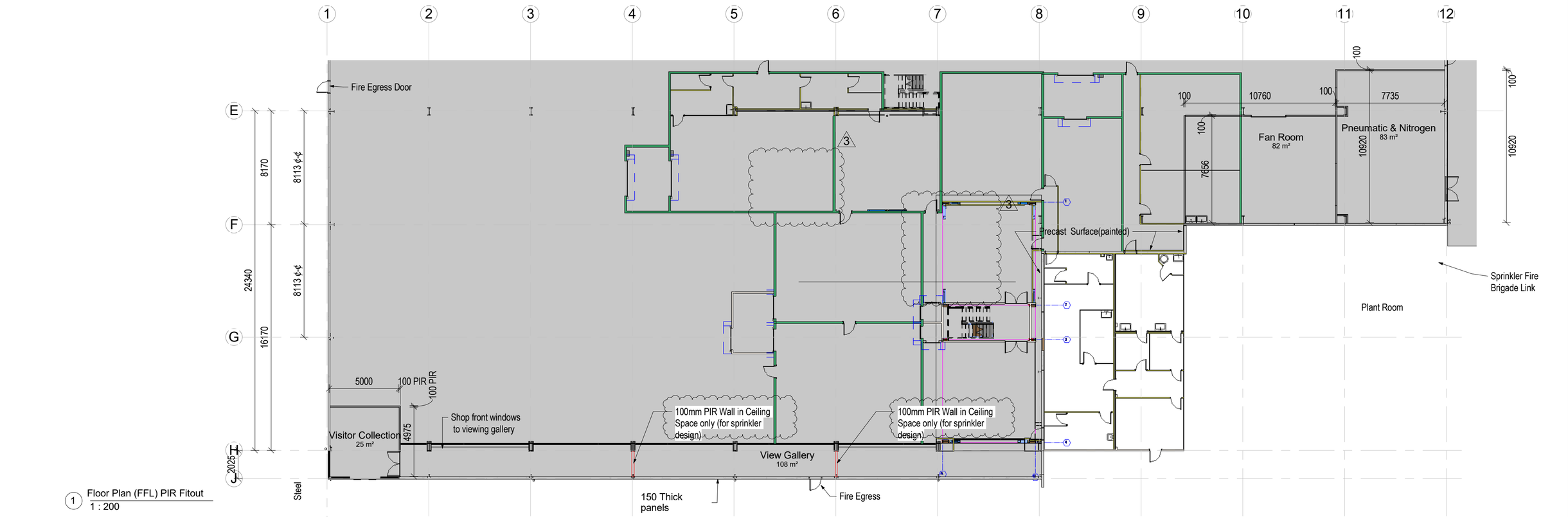
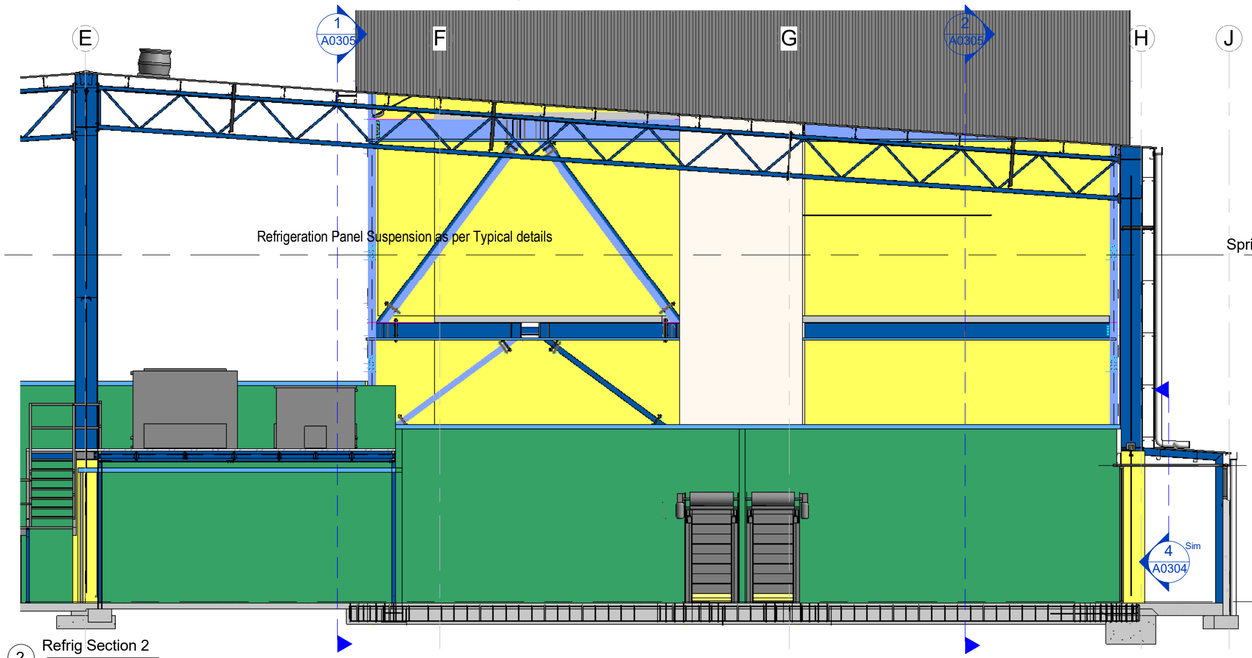
Rev#	Amendments	Date
12	Mods to operational fitout	28/07/16

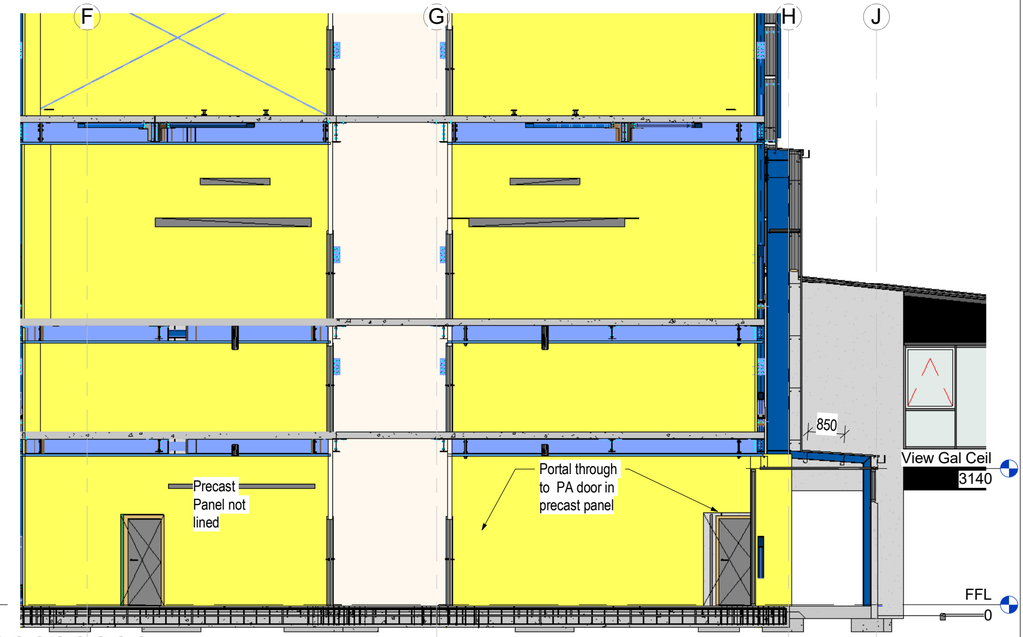
SCALE	1 : 100 @ A2	JOB #	12412
DRAWN BY	C. White	DATE	23/01/16
APPROVED BY	A. Cloake	REV	12
Cross Sections			**A0301**
Please note: All dimensions to be verified on site		Paper size	A2



1 Floor Plan (FFL) PIR Fitout
1 : 200



2 Refrig Section 2
1 : 100



3 Refrig Section 1
1 : 100

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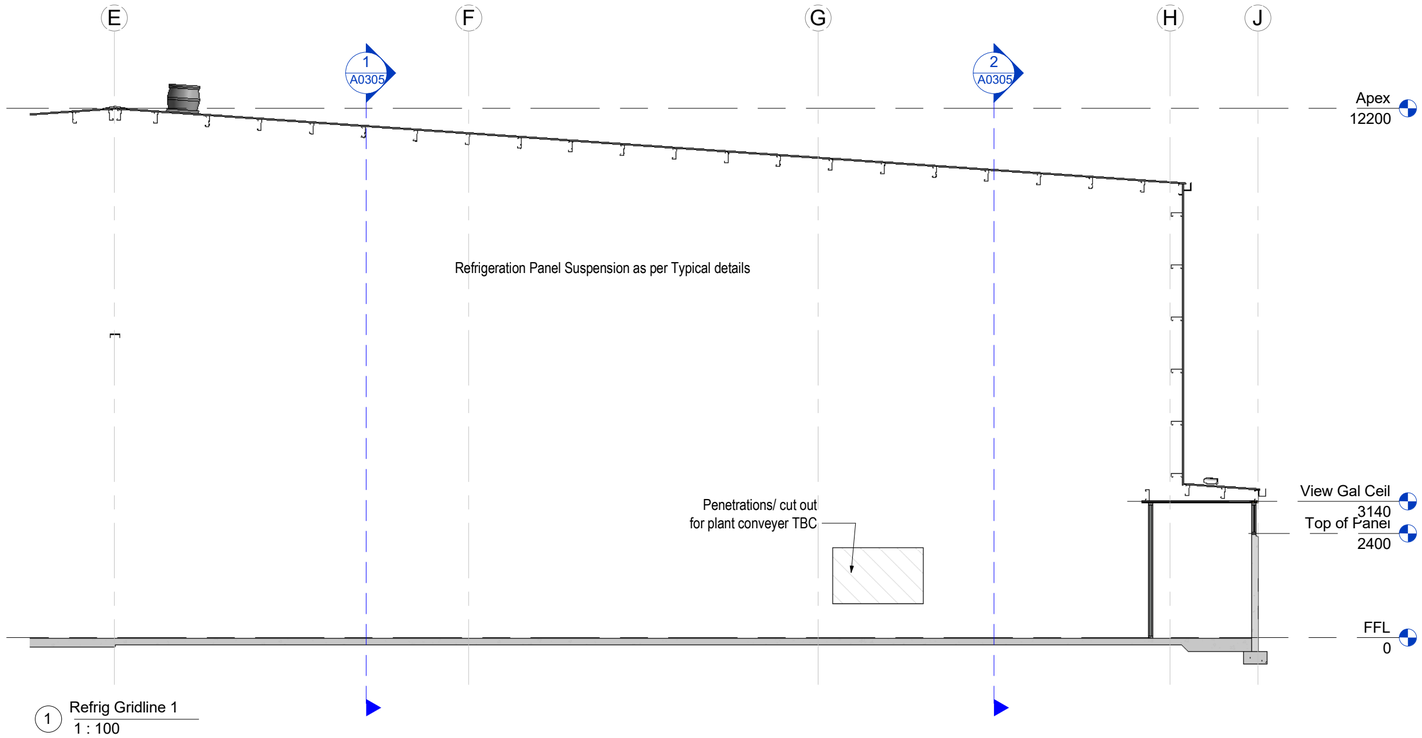
NZ Dairy Collaborative Group

Infant Formula Blending Plant

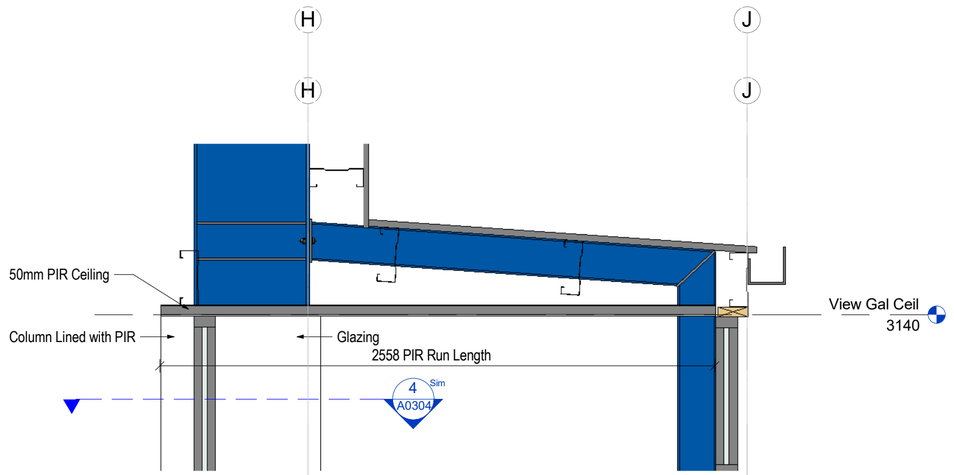
9 Ashford Ave., Ashburton

Rev#	Amendments	Date
3	Mods to Operational Fitout	09/02/16
12	Mods to operational fitout	28/07/16

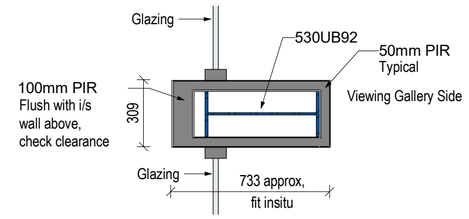
SCALE	As indicated@ A2	JOB #	12412
DRAWN BY	B.Holloway	DATE	23/01/16
APPROVED BY		REV	12
Refrig Fitout Plan and Sections			A0303
Please note: All d… verified on site		Paper size	A2



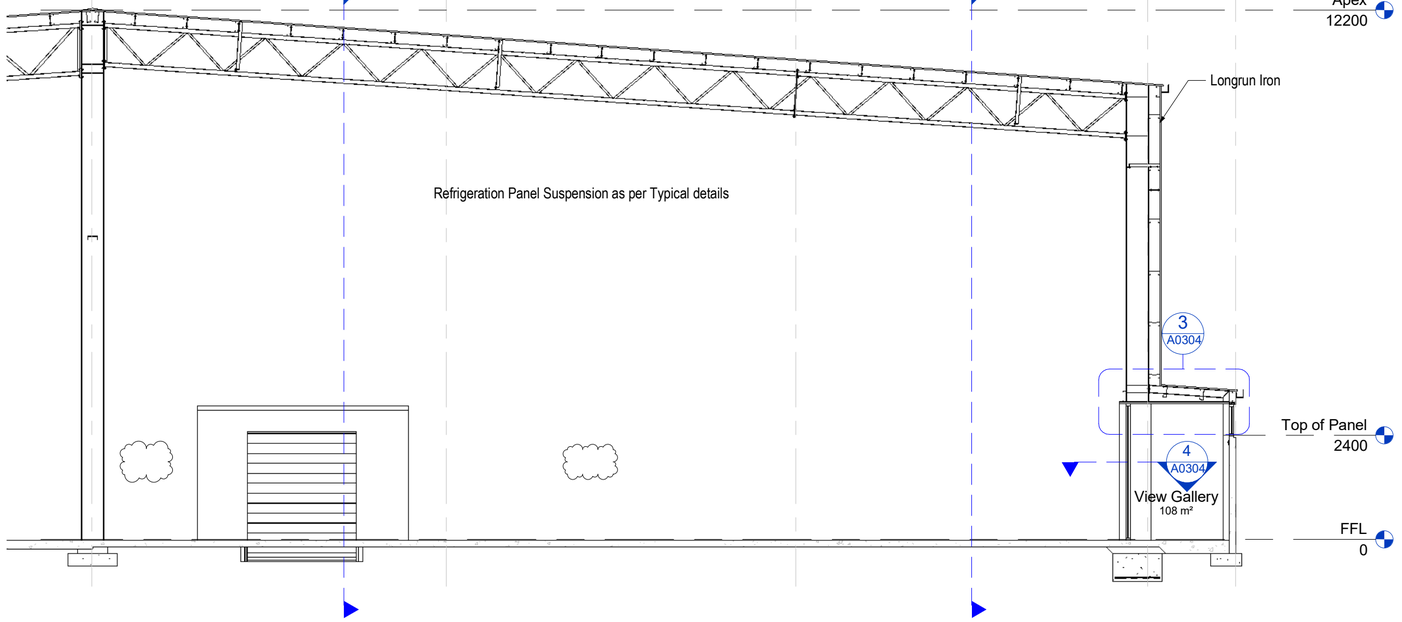
1 Refrig Gridline 1
1 : 100



3 Viewing Gallery Ceiling
1 : 20



4 530UB92 Lining
1 : 20



2 Refrig Gridline 4
1 : 100

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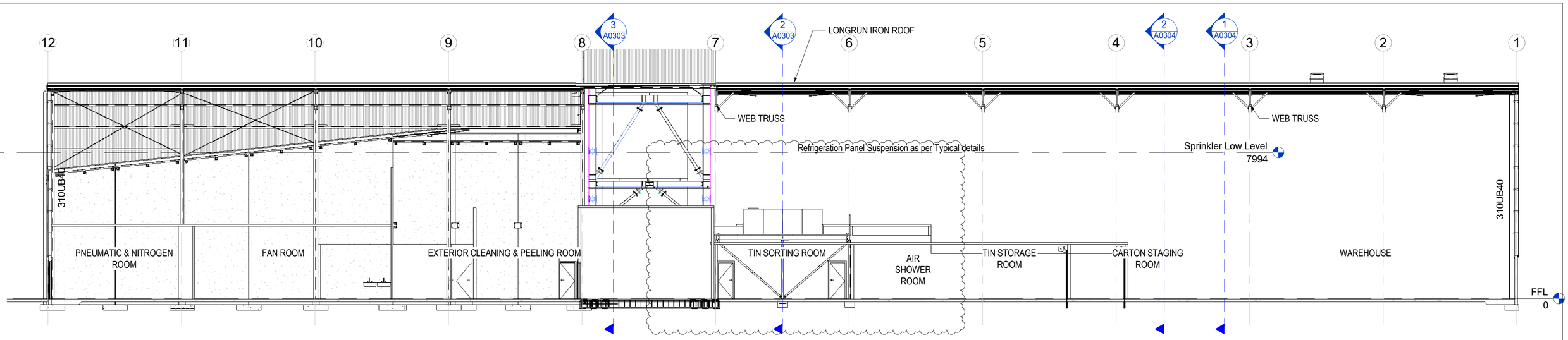
Infant Formula Blending Plant

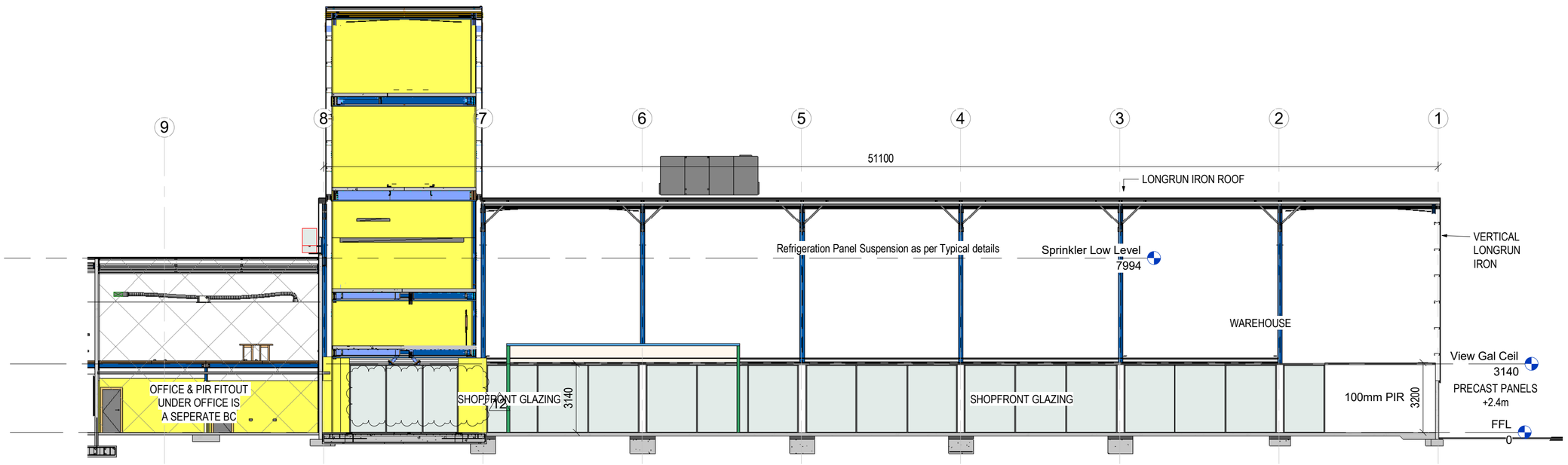
9 Ashford Ave., Ashburton

Rev#	Amendments	Date
3	Mods to Operational Fitout	09/02/16

SCALE	As indicated@ A2	JOB #	12412
DRAWN BY	B.Holloway	DATE	23/01/16
APPROVED BY		REV	3
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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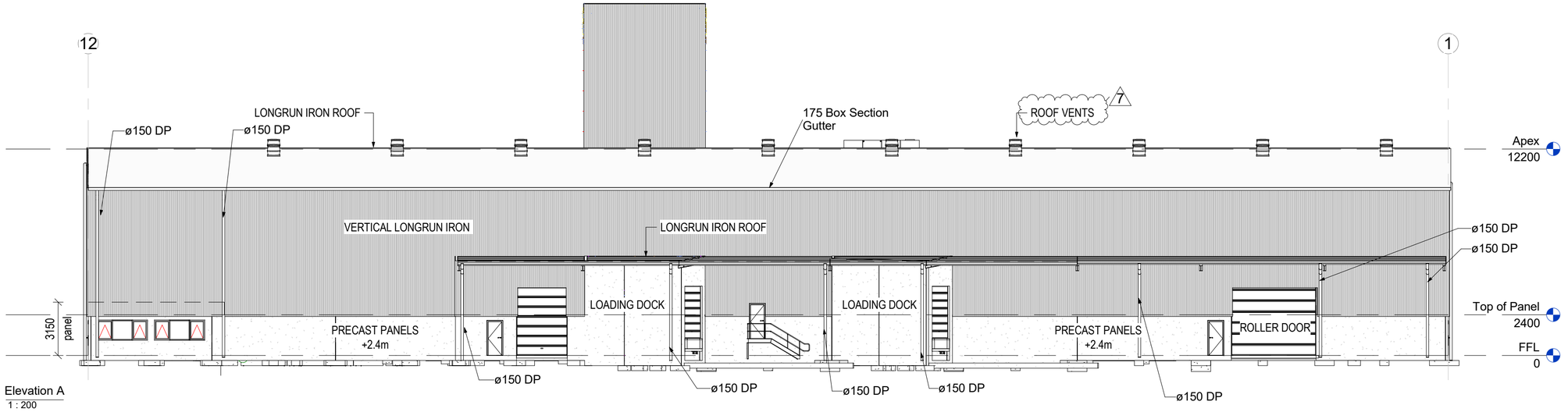
PROJECT

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

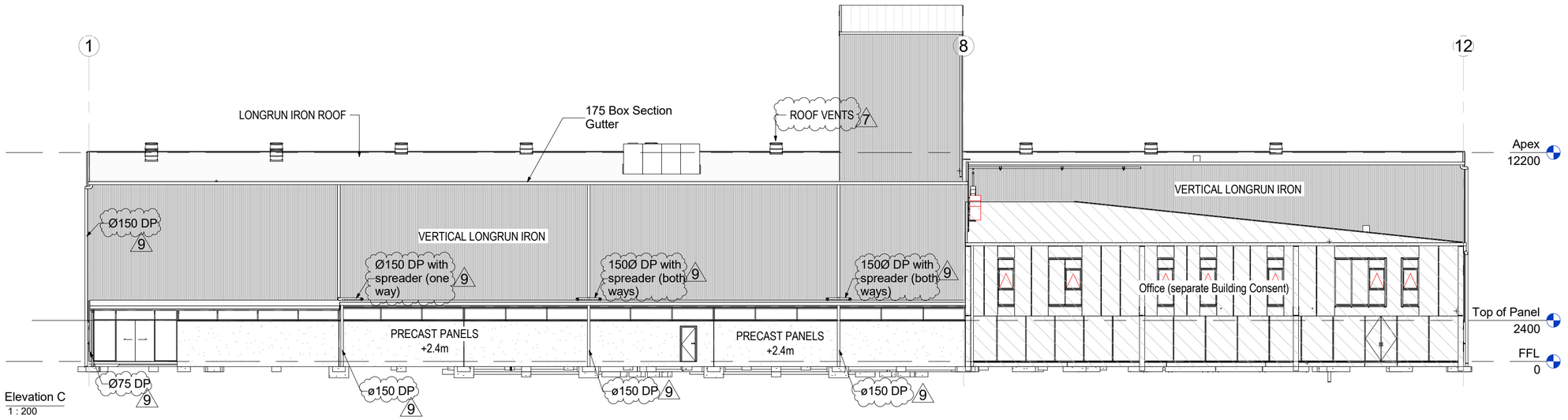
Arch

Rev#	Amendments	Date
3	Mods to Operational Fitout	09/02/16
12	Mods to operational fitout	28/07/16

SCALE	1 : 150 @ A2	JOB #	12412
DRAWN BY	B.Holloway	DATE	23/01/16
APPROVED BY		REV	12
Refrig Fitout Sections			A0305
Please note: All dimensions to be verified on site		Paper size	A2



Elevation A
1 : 200



Elevation C
1 : 200

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PROJECT

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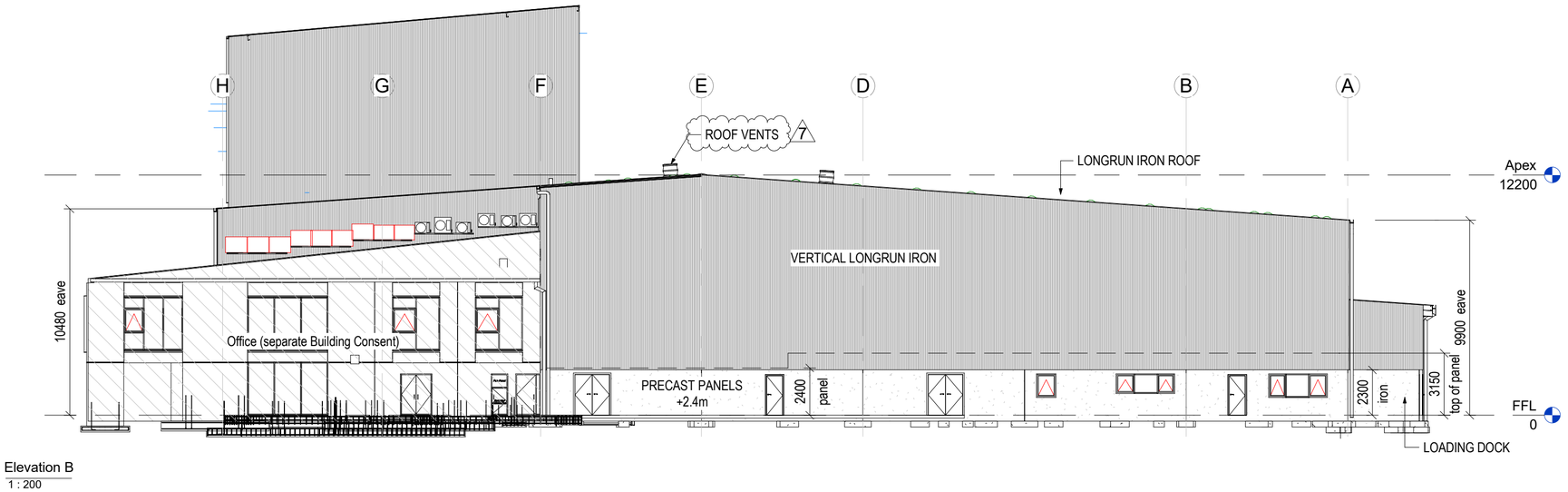
NZ Dairy Collaborative Group

Infant Formula Blending Plant

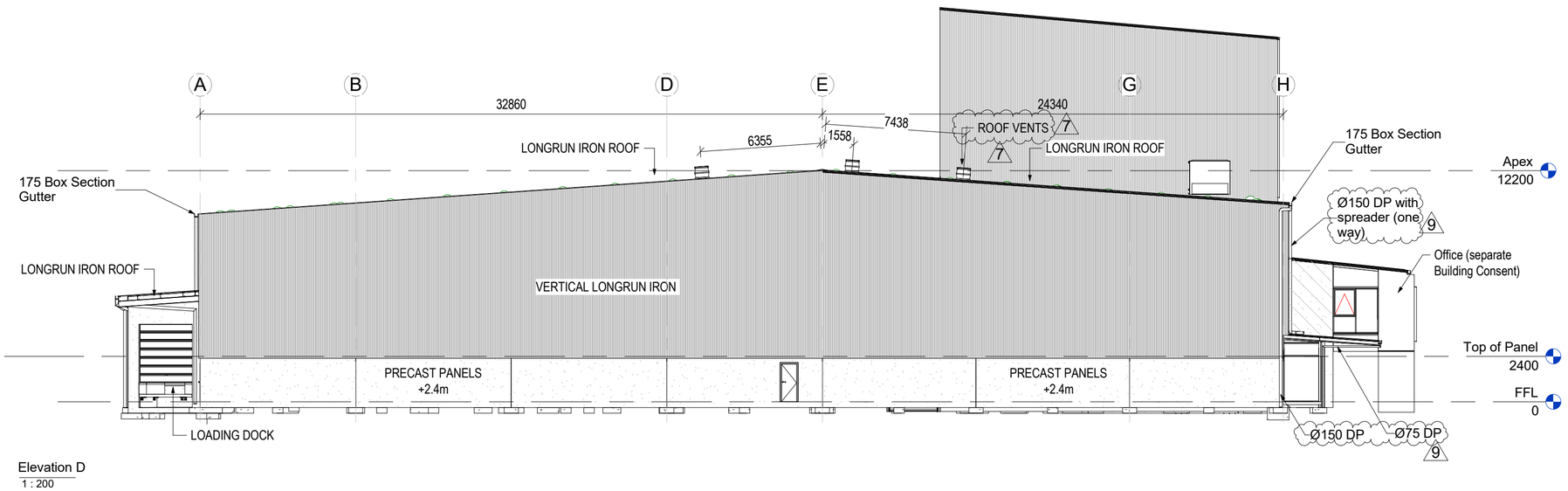
9 Ashford Ave., Ashburton

Rev#	Amendments	Date
7	Changes for sprinkler and electrical services	21/03/16
9	Changes to DP's	02/05/16

SCALE	1 : 200 @ A2	JOB #	12412
DRAWN BY	M Valentine	DATE	23/01/16
APPROVED BY	A. Cloake	REV	9
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

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PROJECT

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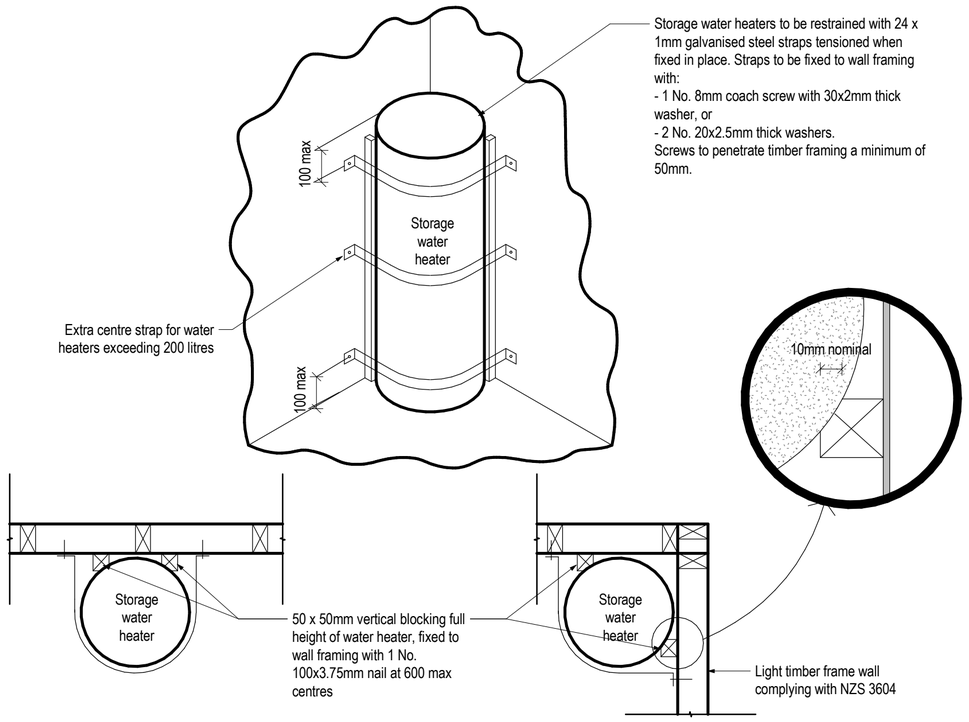
NZ Dairy Collaborative Group

Infant Formula Blending Plant

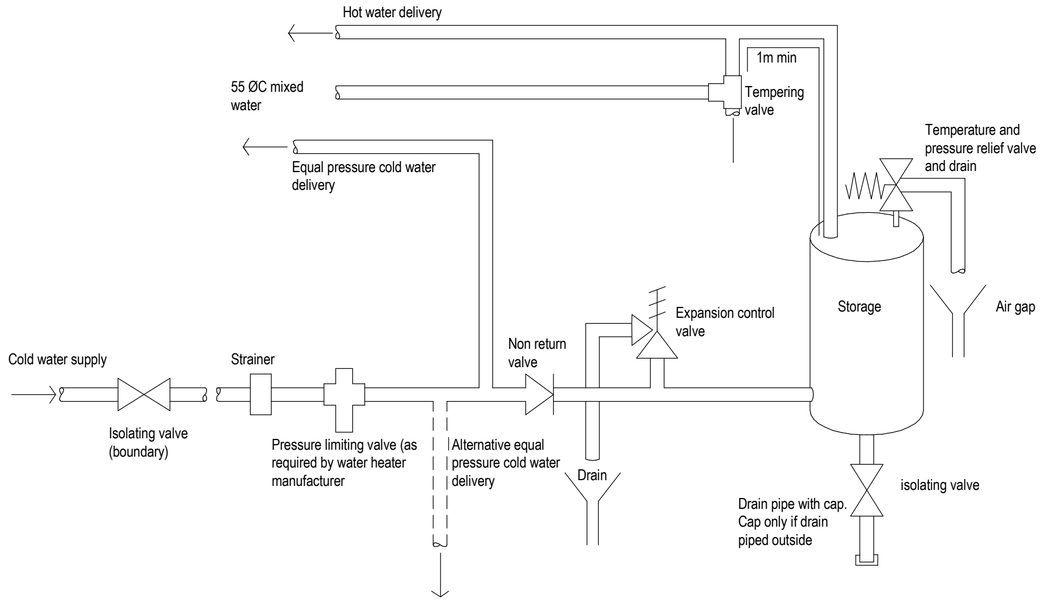
9 Ashford Ave., Ashburton

Rev#	Amendments	Date
7	Changes for sprinkler and electrical services	21/03/16
9	Changes to DP's	02/05/16

SCALE	1 : 200 @ A2	JOB #	12412
DRAWN BY	M Valentine	DATE	23/01/16
APPROVED BY	A. Cloake	REV	9
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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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:
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	945 x 2100	945	2100
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
D26	3.1m h x 3m w Roller Door(3p)	3000	3100
D27	3.1m h x 3m w Roller Door(3p)	3000	3100
D28	4m h x 3m w Roller Door(3p)	3000	4000
D29	4.5m h x 5m w Roller Door(3p)	5000	4500

Refrig Fitout Door Schedule

Mark	Type	Width	Rough Height
FO 16	2.7m h x 2.5m w Roller Door(3p)	2500	2700

10

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PROJECT

Arch

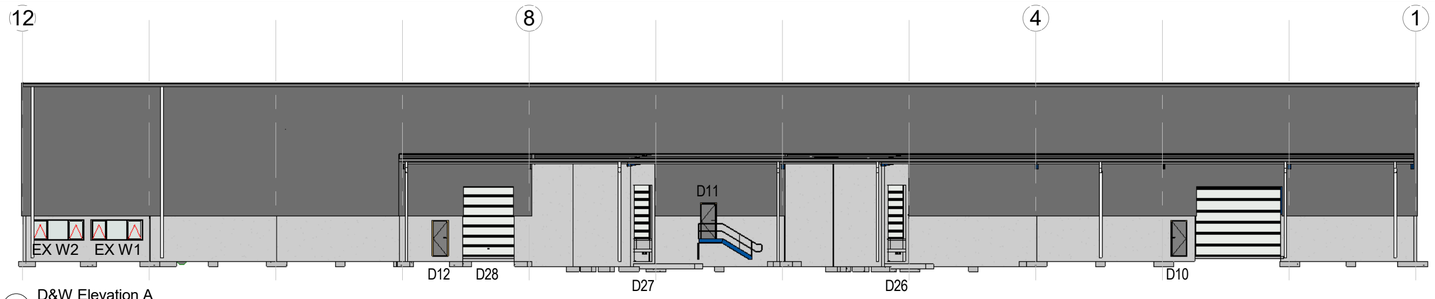
NZ Dairy Collaborative Group

Infant Formula Blending Plant

9 Ashford Ave., Ashburton

Rev#	Amendments	Date
10	Electrical Details	12/05/16
12	Mods to operational fitout	28/07/16

SCALE	1 : 200 @ A2	JOB #	12412
DRAWN BY	C. White	DATE	23/01/16
APPROVED BY	A. Cloake	REV	12
D W Ground Floor Plan			A0600
Please note: All dimensions to be verified on site		Paper size	A2



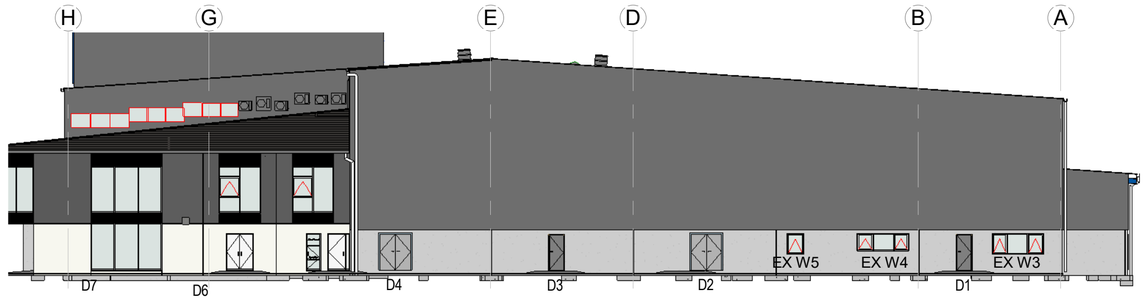
7 D&W Elevation A
1 : 250

D & W Schedule NOTE:

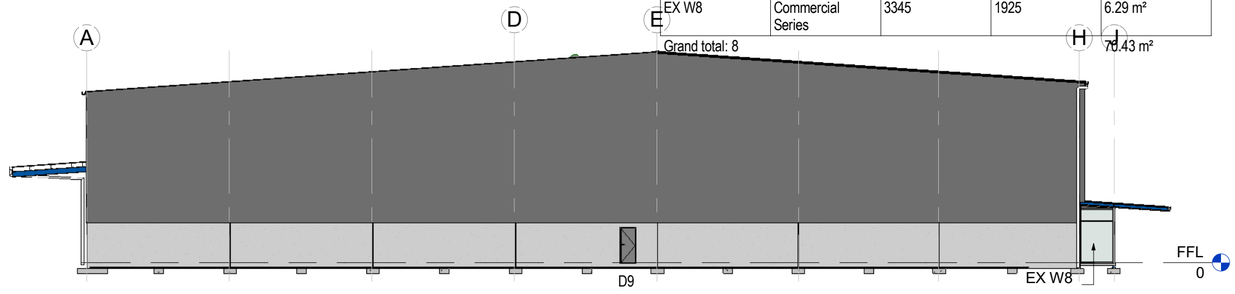
The main contractor is to ensure all door and window opening dimensions are checked prior to the manufacturer of any doors or windows,
refer to the floor plans and elevations for positions.
Glazing within 1500mm above the FFL is to be grade A safety glass in accordance with table 3.1, glazing greater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

External Window Schedule

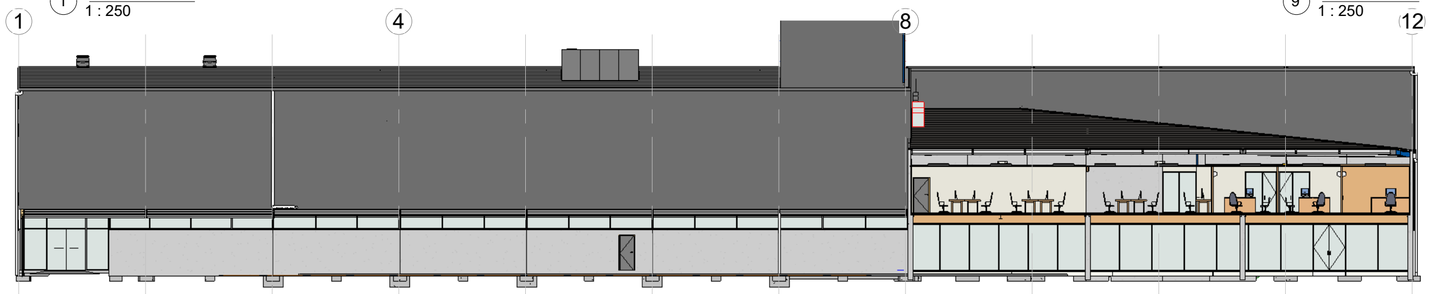
Mark	Type	Unconnected Height	Length	Area
EX W1	Soverign Series Double Glazed	1200	2980	3.58 m²
EX W2	Soverign Series Double Glazed	1200	2980	3.58 m²
EX W3	Soverign Series Double Glazed	1200	2982	3.58 m²
EX W4	Soverign Series Double Glazed	1000	2982	2.98 m²
EX W5	Soverign Series Double Glazed	1200	1000	1.2 m²
EX W6	Commercial Series	736	46080	33.86 m²
EX W7	Commercial Series	3136	4950	15.37 m²
EX W8	Commercial Series	3345	1925	6.29 m²
Grand total: 8				70.43 m²



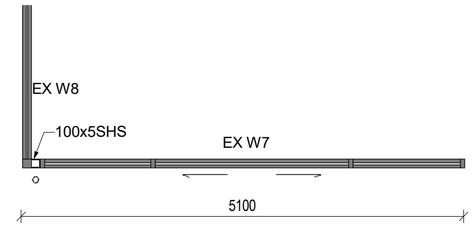
1 D&W Elevation B
1 : 250



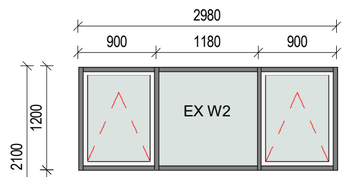
9 D&W Elevation D
1 : 250



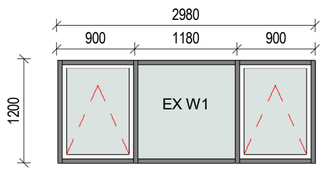
8 D&W Elevation C
1 : 250



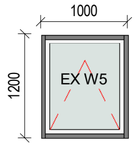
13 EX W7 & 8 Plan
1 : 50



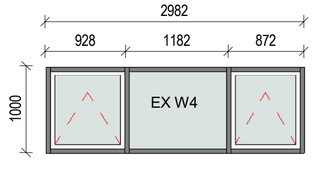
Soverign Series
Double Glazed



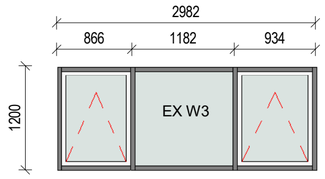
Soverign Series
Double Glazed



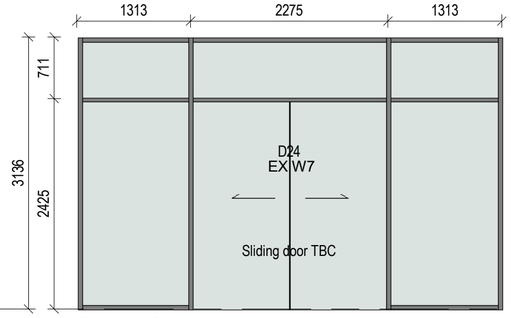
Soverign Series
Double Glazed



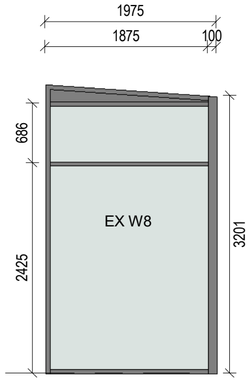
Soverign Series
Double Glazed
Obscure Glass (Toilets)



Soverign Series
Double Glazed

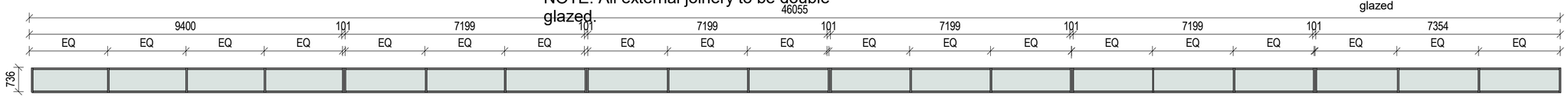


Commercial
Series double
glazed



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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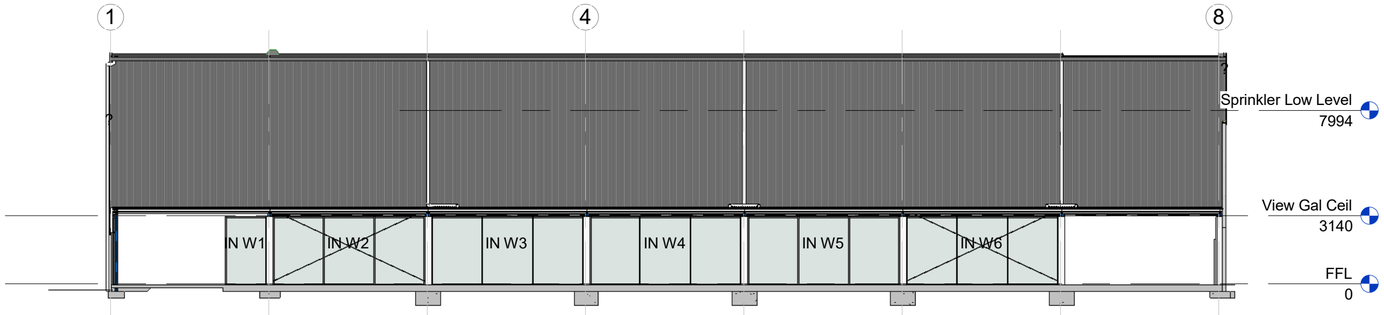
PROJECT

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 External		A0601	
Please note: All dimensions to be verified on site		Paper size A2	



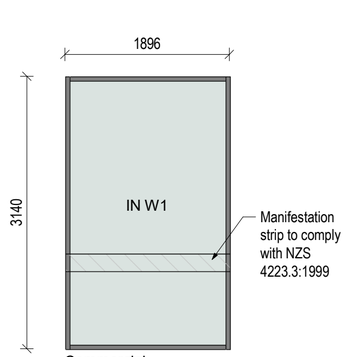
1 Internal window elevations
1 : 200

D & W Schedule NOTE:

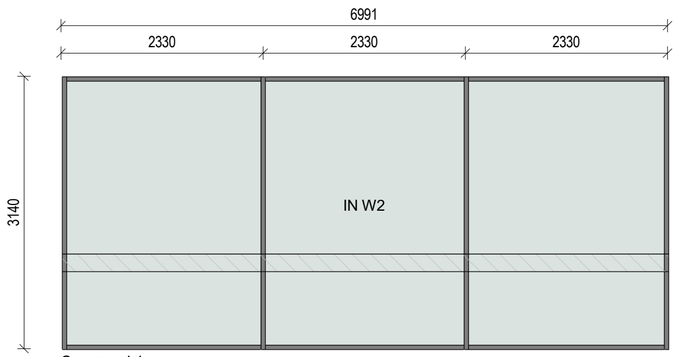
The main contractor is to ensure all door and window opening dimensions are checked prior to the manufacturer of any doors or windows,
refer to the floor plans and elevations for positions.
Glazing within 1500mm above the FFL is to be grade A safety glass in accordance with table 3.1, glazing greater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

Internal Window Schedule

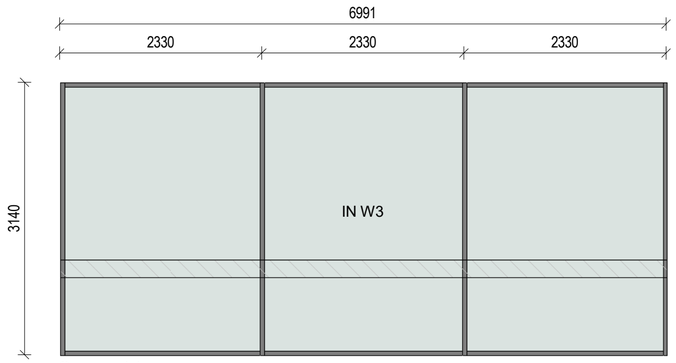
Mark	Type	Unconnected Height	Length	Area
IN W1	Commercial Series single glazed	3140	1971	5.95 m²
IN W2	Commercial Series single glazed	3140	7041	21.95 m²
IN W3	Commercial Series single glazed	3140	7041	21.95 m²
IN W4	Commercial Series single glazed	3140	7041	21.95 m²
IN W5	Commercial Series single glazed	3140	7041	21.95 m²
IN W6	Commercial Series single glazed	3140	7041	21.95 m²
Grand total: 6				115.71 m²



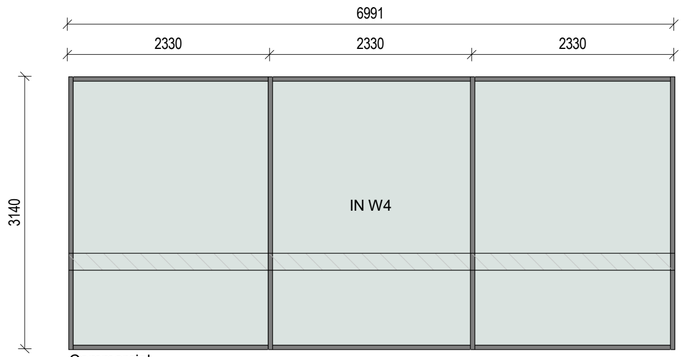
Commercial Series, single or double glazed (TBC)



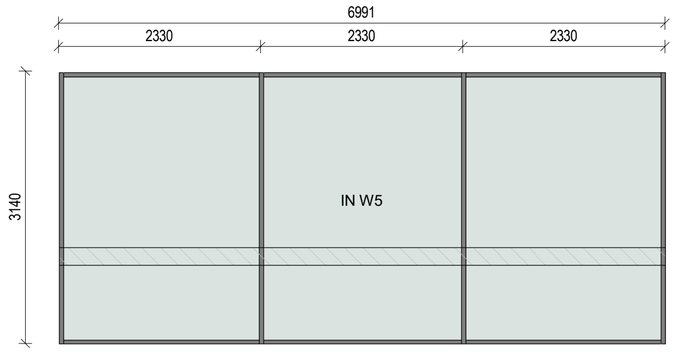
Commercial Series, single or double glazed (TBC)



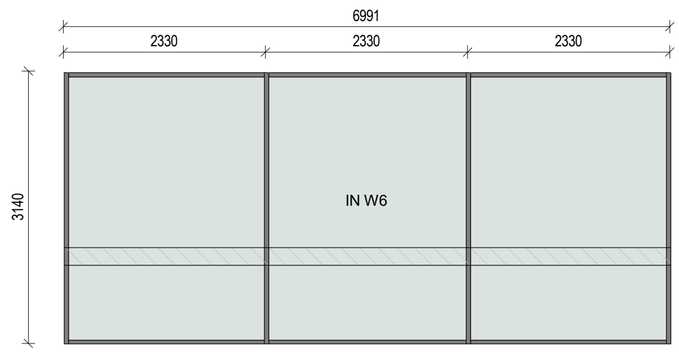
Commercial Series, single or double glazed (TBC)



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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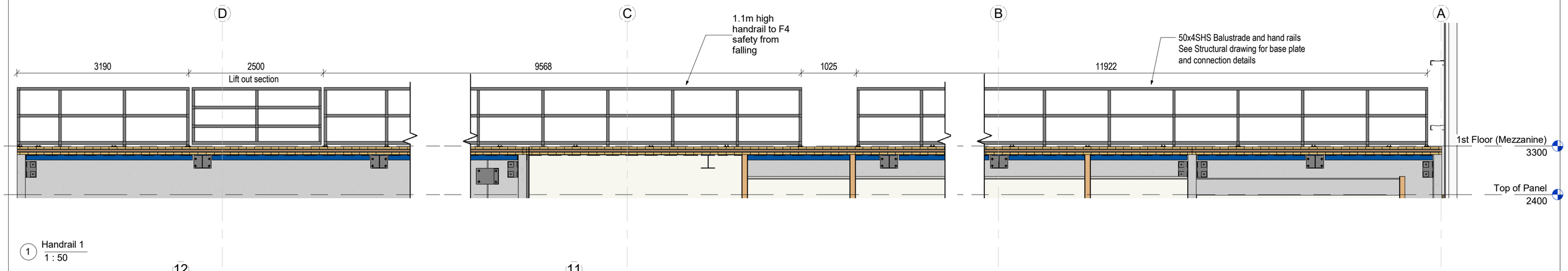
PROJECT

Arch

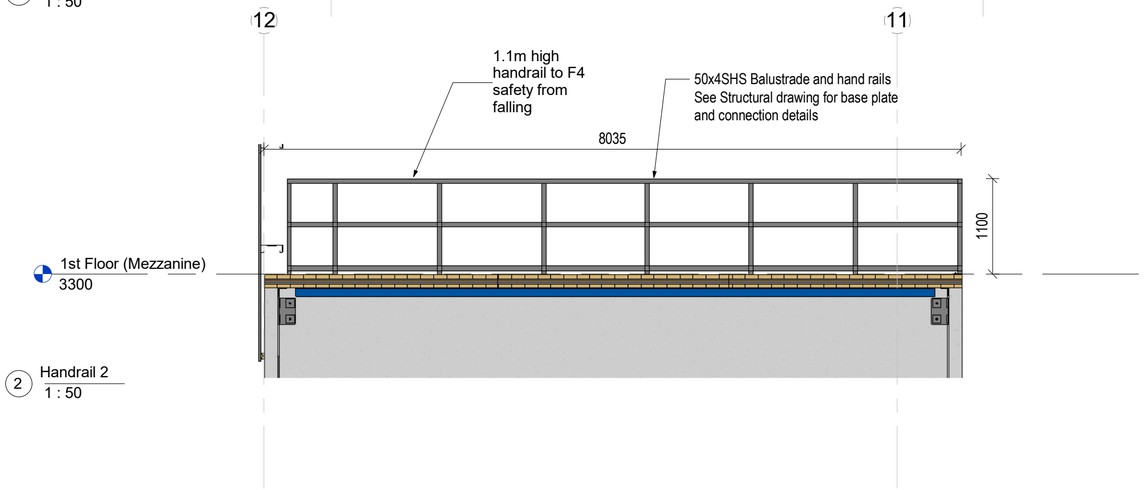
NZ Dairy Collaborative Group
Infant Formula Blending Plant
9 Ashford Ave., Ashburton

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



1 Handrail 1
1 : 50



2 Handrail 2
1 : 50

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PROJECT

Arch

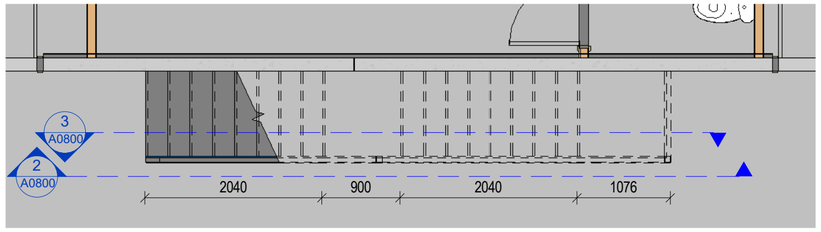
NZ Dairy Collaborative Group

Infant Formula Blending Plant

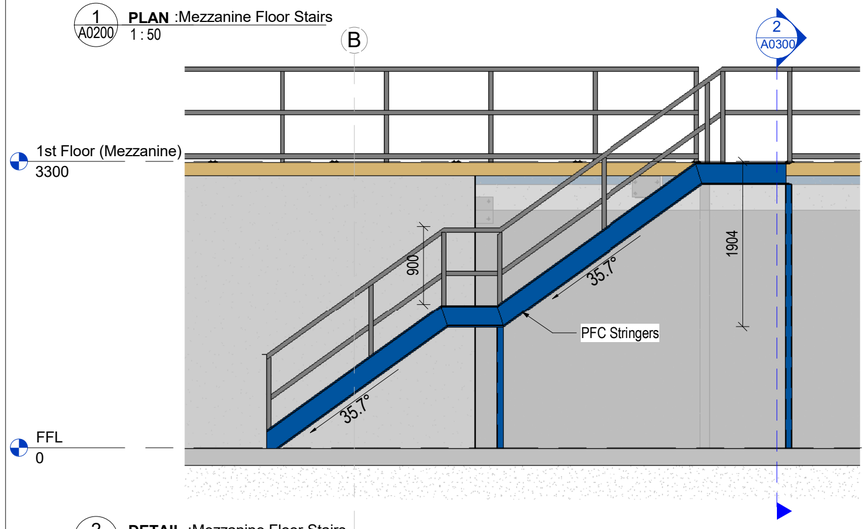
9 Ashford Ave., Ashburton

Rev#	Amendments	Date

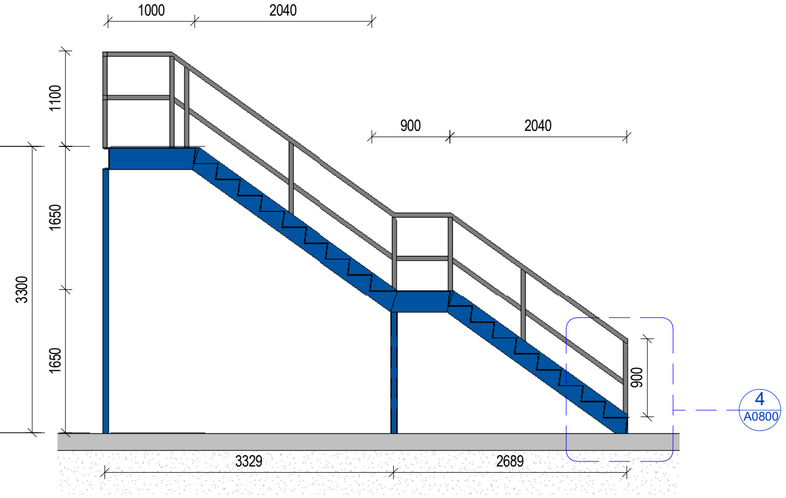
SCALE 1 : 50 @ A2		JOB # 12412	
DRAWN BY C. White		DATE 23/01/16	
APPROVED BY A. Cloake		REV	
Balustrades		**A0603**	
Please note: All dimensions to be verified on site		Paper size **A2**	



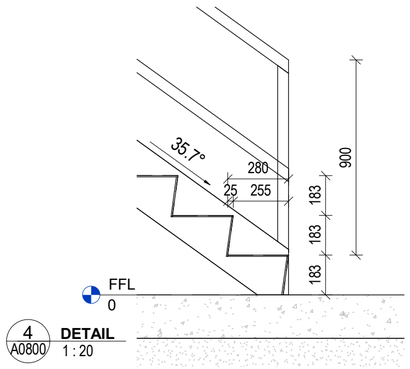
1 A0200 **PLAN** :Mezzanine Floor Stairs
1 : 50



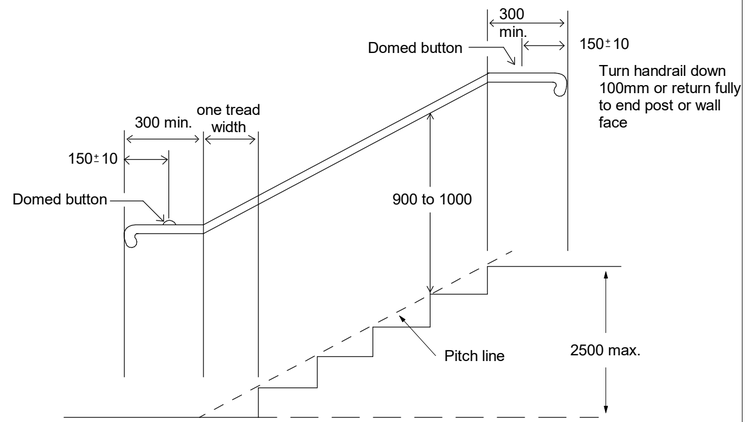
2 A0800 **DETAIL** :Mezzanine Floor Stairs
1 : 50



3 A0300 **SECTION**
1 : 50



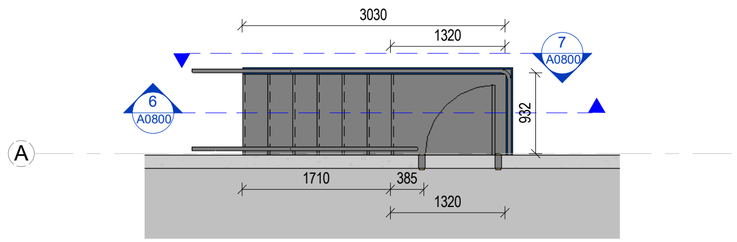
4 A0800 **DETAIL**
1 : 20



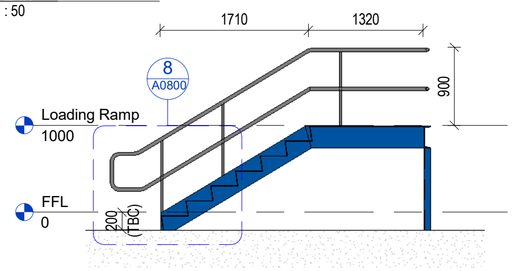
NOTE:
(1) The dimensions indicating the heights of handrails are taken from the nosing of the tread to the top of the handrail.

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

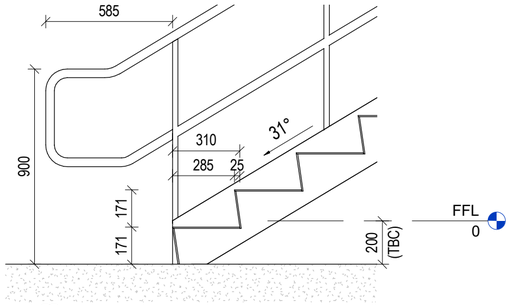
NZS 4121-2001 Figre 23 pitchline and extension of handrails
1 : 50



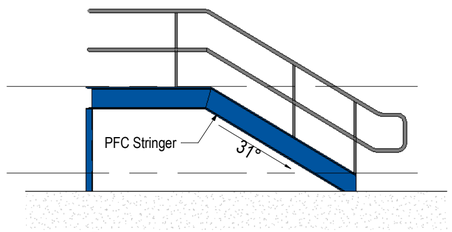
5 A0200 **PLAN** :Dock level Stairs
1 : 50



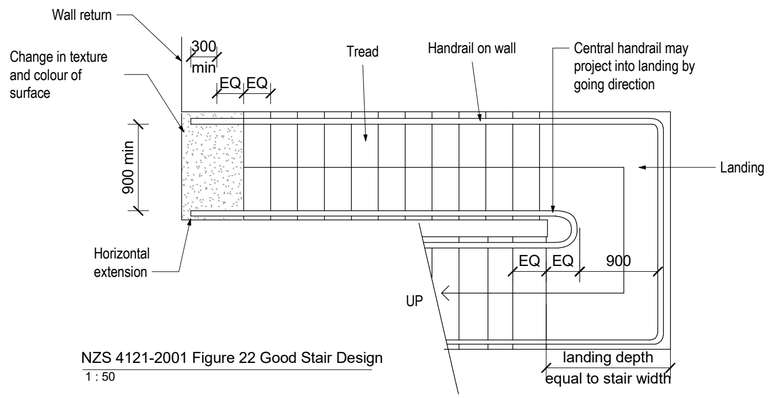
6 A0800 **SECTION** :Dock Stair
1 : 50



8 A0800 **DETAIL**
1 : 20



7 A0800 **SECTION**
1 : 50



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

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PROJECT

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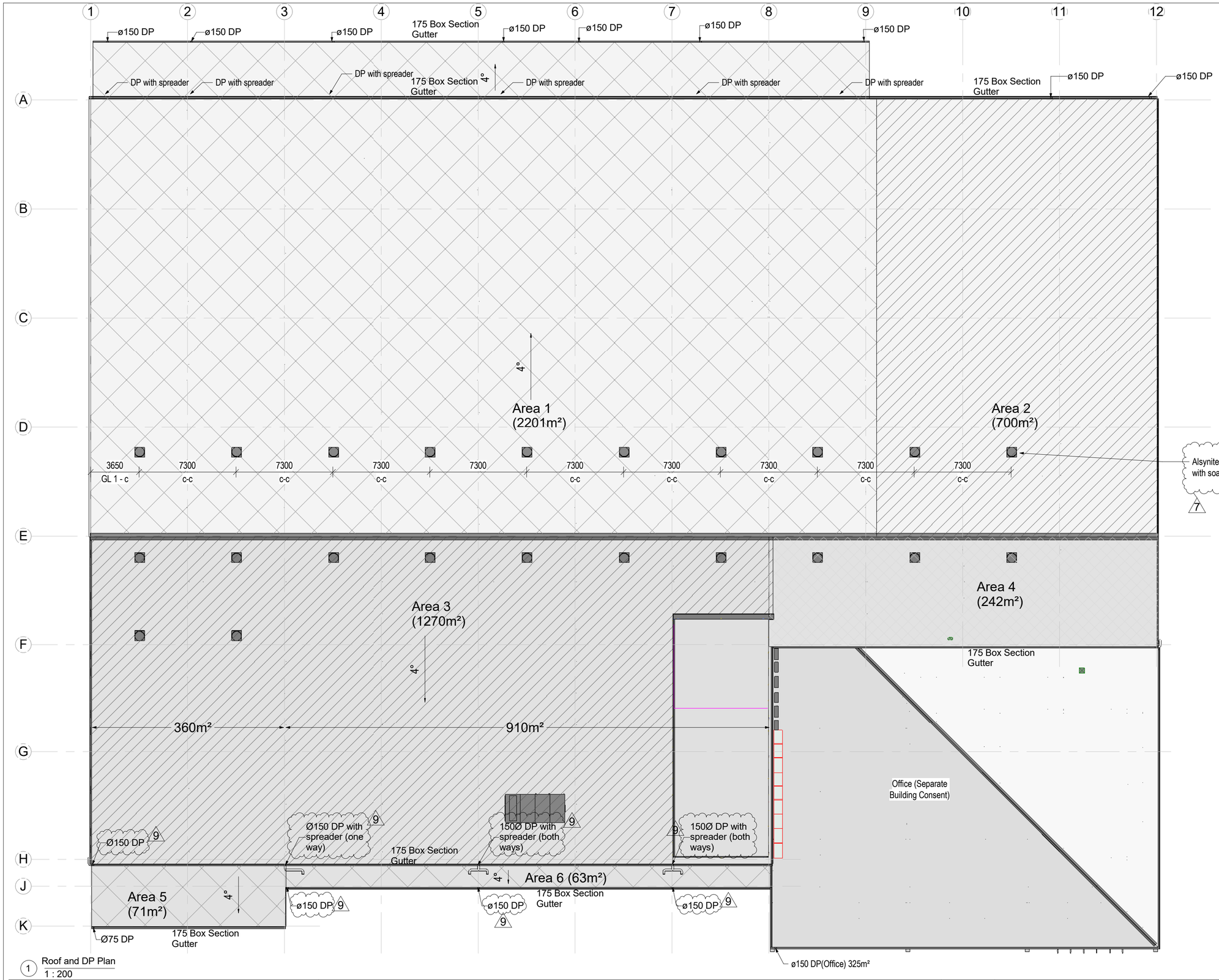
NZ Dairy Collaborative Group
Infant Formula Blending Plant
9 Ashford Ave., Ashburton

Rev#	Amendments	Date

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

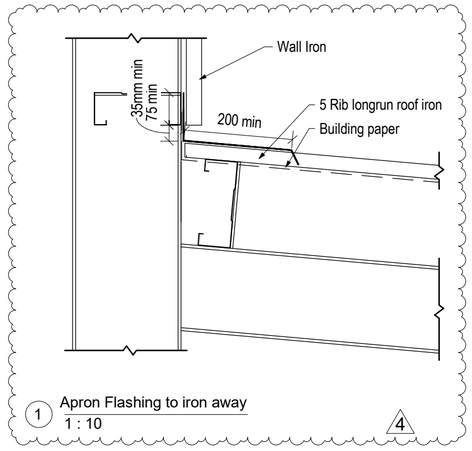
Arch

NZ Dairy Collaborative Group
Infant Formula Blending Plant

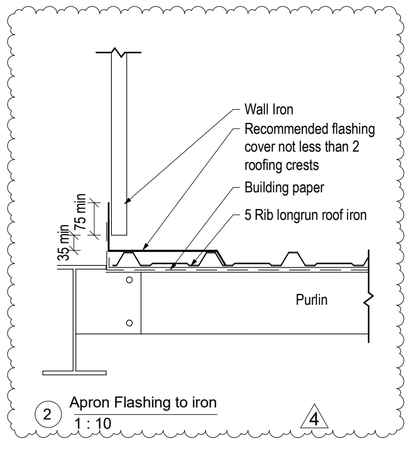
9 Ashford Ave., Ashburton

Rev#	Amendments	Date
7	Changes for sprinkler and electrical services	21/03/16
9	Changes to DP's	02/05/16

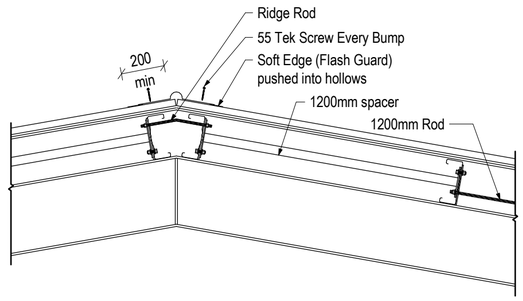
SCALE	As indicated@ A2	JOB #	12412
DRAWN BY	B Holloway	DATE	23/01/16
APPROVED BY	A. Cloake	REV	9
Roof Plan		A1300	
Please note: All dimensions to be verified on site		Paper size:	A2



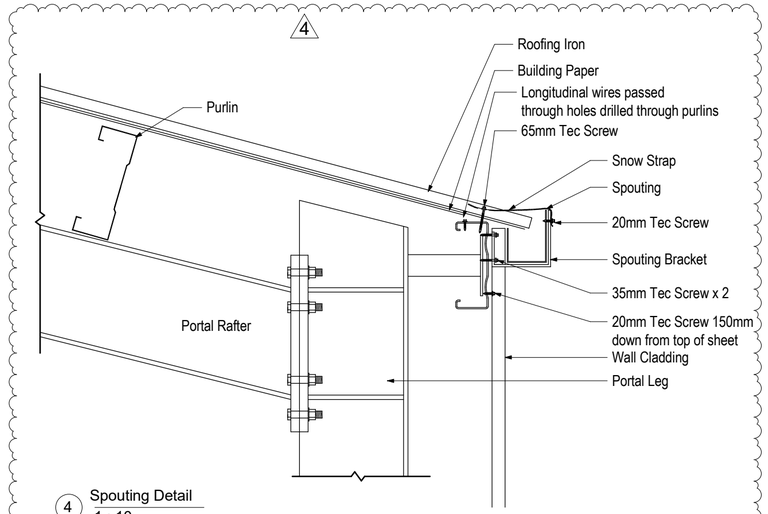
1 Apron Flashing to iron away
1 : 10



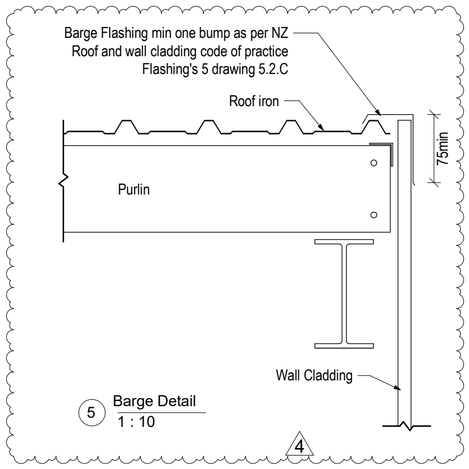
2 Apron Flashing to iron
1 : 10



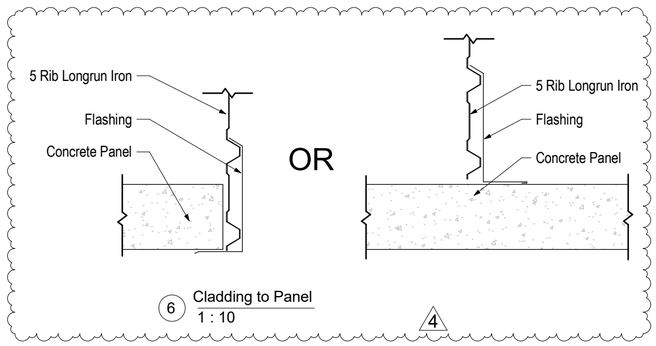
3 Ridge Flashing Detail
1 : 20



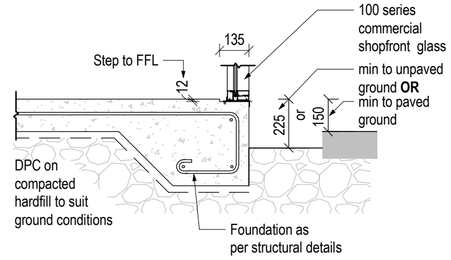
4 Spouting Detail
1 : 10



5 Barge Detail
1 : 10

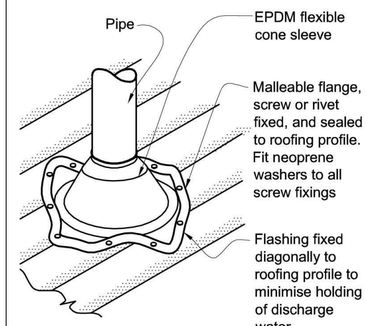


6 Cladding to Panel
1 : 10

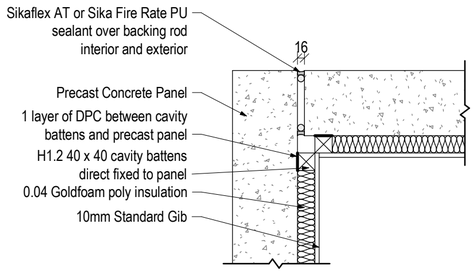


7 Clearances to ground (std detail)
1 : 20

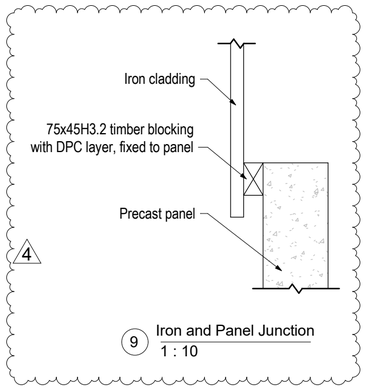
Figure 53: Flashing for small pipes
Paragraphs 8.3.10, 8.4.17, 9.6.8.5 and 9.6.9.6



NOTE:
(1) Max. roof pitch for this flashing 45°, minimum pitch 10° if base of flange covers one or more complete troughs.
(2) For pipes up to 85 mm diameter.



8 External Corner Precast Detail
1 : 10



9 Iron and Panel Junction
1 : 10

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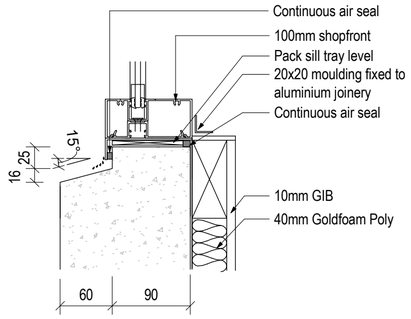
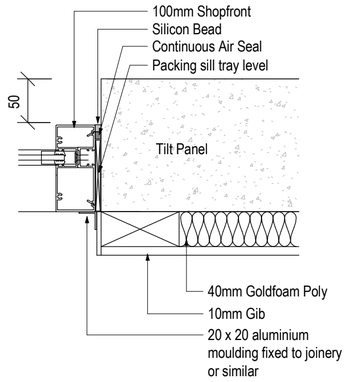
NZ Dairy Collaborative Group
Infant Formula Blending Plant
9 Ashford Ave., Ashburton

Rev#	Amendments	Date
4	Council RFI	16/02/16

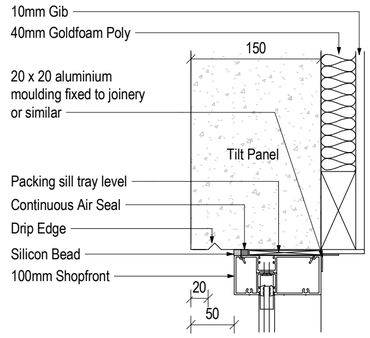
SCALE: As indicated@ A2
JOB #: 12412
DRAWN BY: C. White
DATE: 23/01/16
APPROVED BY: A. Cloake
REV: 4
Flashing Details
A1301
Please note: All dimensions to be verified on site
Paper size **A2**



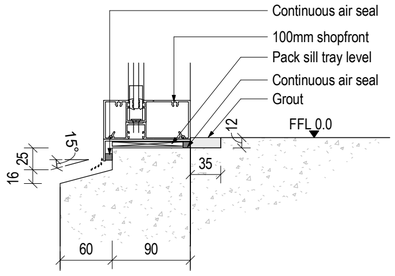
COMMERCIAL SILL DETAIL ABOVE FFL



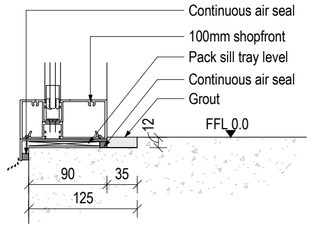
COMMERCIAL JAMB DETAIL



COMMERCIAL HEAD DETAIL

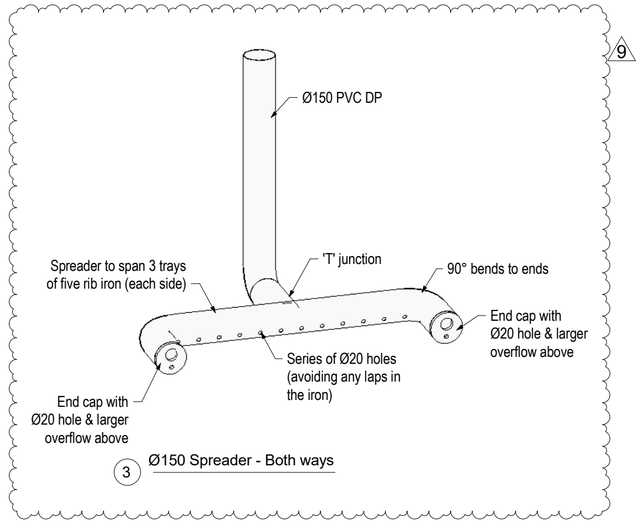


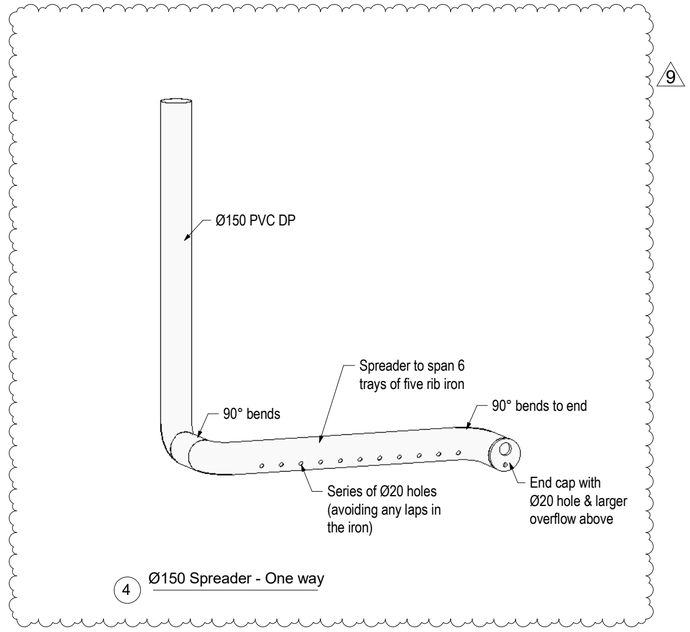
COMMERCIAL SILL DETAIL AT FFL IN PRECAST PANEL

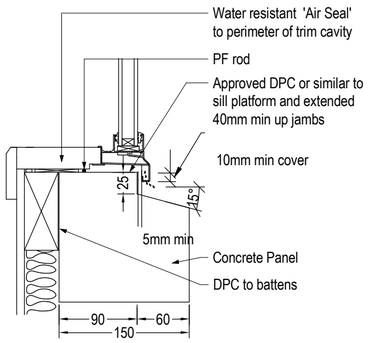


COMMERCIAL SILL DETAIL AT FFL STANDARD FOUNDATION EDGE

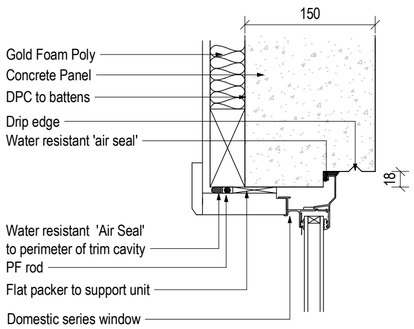
Commercial window details
1 : 5



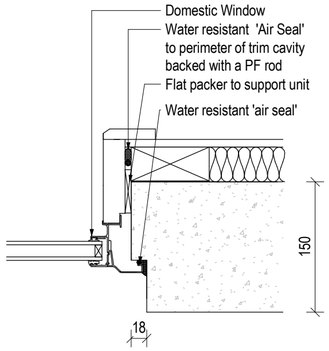




WINDOW SILL DETAIL



DOMESTIC HEAD DETAIL



DOMESTIC JAMB DETAIL

Domestic window details
1 : 5

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

Rev#	Amendments	Date
9	Changes to DP's	02/05/16

SCALE 1 : 5 @ A2 | JOB # 12412
DRAWN BY A. Cloake | DATE 23/01/16
APPROVED BY | REV 9
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 1000m²	Total Glazing Area 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

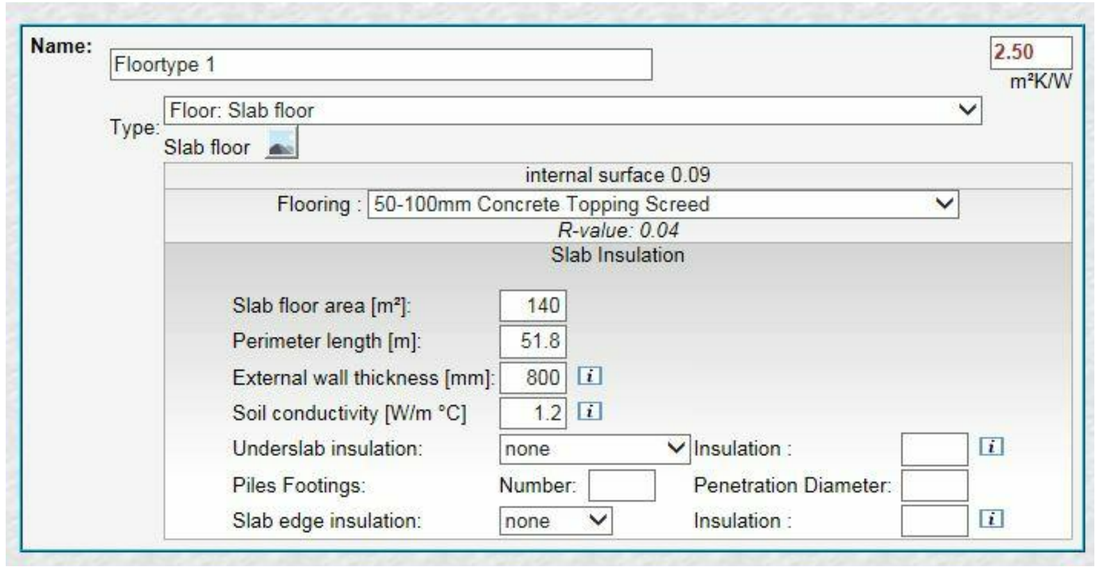
Table 2(b) - Solid Construction (excluding solid timber) - Alternative minimum R-values for schedule method

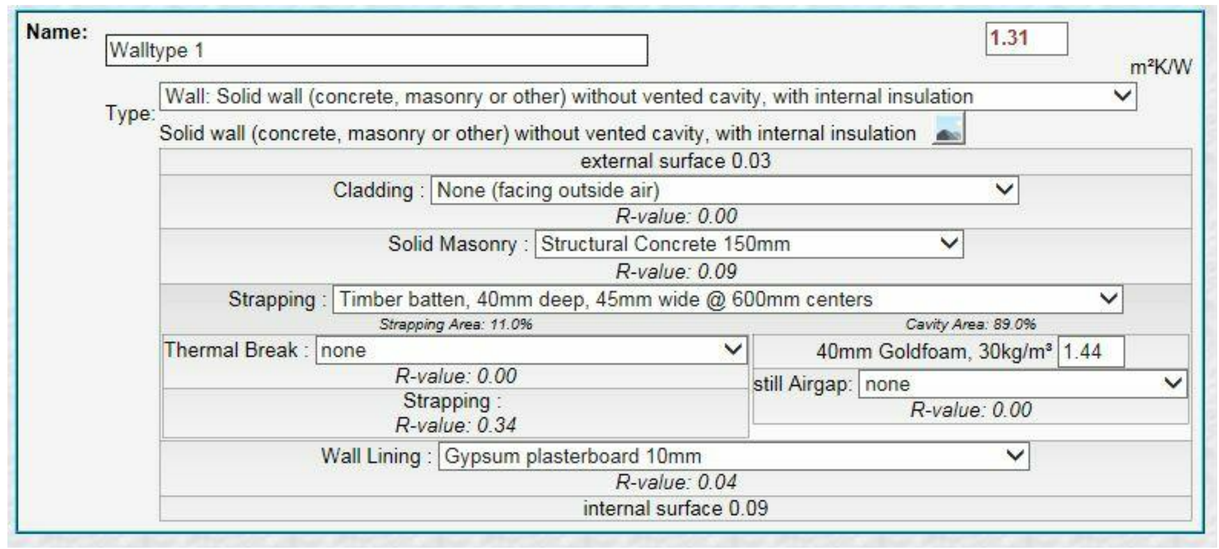
Building Thermal Envelope Component	Minimum R-values climate zone 3 (option1)	Minimum R-values provided	
Roof	R 3.5	R 3.59	Complies
Wall	R 1.2	R 1.31	Complies
Floor	R 1.5	R 2.5	Complies
Glazing	R 0.26	R0.26	Complies

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





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

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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

INTERNAL NOTE: Please refer to the site plan saved under the Warehouse

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Infant Formula Blending Plant Offices

9 Ashford Ave., Ashburton

Rev#	Amendments	Date
	Construction Issue	

SCALE	@ A2	JOB #	12413
DRAWN BY	Author	DATE	13/05/16
APPROVED BY	Checker	REV	
Site Plan Office			A0101
Please note: All dimensions to be verified on site		Paper size	A2

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Architectural Drawings

Sheet Number	Sheet Name	Current Revision	Current Revision Description	Current Revision Date
A0000	Cover	6	Council RFI's	16/6/16
A0101	Site Plan Office			
A0200	Arch Ground Floor Plan	9	Contract Issue	19/04/17
A0201	Arch First Floor Plan	9	Contract Issue	19/04/17
A0300	Cross Sections			
A0301	Cross Sections	5	Client Changes	24/05/16
A0302	Cross Sections			
A0400	Elevations			
A0500	Plumbing Ground Floor			
A0501	Plumbing First Floor			
A0600	D W Ground Floor Plan	6	Council RFI's	16/6/16
A0601	D W First Floor Plan			
A0602	D W External	6	Council RFI's	16/6/16
A0603	D W Internal	3	Fire Rated Mid Floor Steel	20/05/16
A0604	Balustrades	5	Client Changes	24/05/16
A0700	Fire Rating Plan GF	3	Fire Rated Mid Floor Steel	20/05/16
A0701	Fire Rating Plan FF	3	Fire Rated Mid Floor Steel	20/05/16
A0702	Fire Rating Sections	3	Fire Rated Mid Floor Steel	20/05/16
A0703	Fire Rating sections	3	Fire Rated Mid Floor Steel	20/05/16
A0800	Safe path CLT Stairs	6	Council RFI's	16/6/16
A0801	Safe path CLT Stair sections and details			
A0802	Foyer CLT Stairs	6	Council RFI's	16/6/16
A0803	Foyer Stair and Balustrade detail	5	Client Changes	24/05/16
A0900	Reflected Ceiling Ground Floor	6	Council RFI's	16/6/16
A0901	Reflected Ceiling First Floor			
A1000	Electrical Data Ground Floor			
A1001	Electrical Data Level 1			
A1100	Mechanical Ground Floor	4	Updated HVAC design	23/05/16
A1101	Mechanical Level 1	4	Updated HVAC design	23/05/16
A1102	Mechanical Roof Plan	6	Council RFI's	16/6/16
A1103	HVAC Sections	4	Updated HVAC design	23/05/16
A1200	Floor Coverings Ground Floor			
A1201	Floor Coverings First Floor	5	Client Changes	24/05/16
A1300	Roof Plan			
A1301	Roof Flashing Details			
A1303	Flashing Details			
A1400	H1 Compliance			

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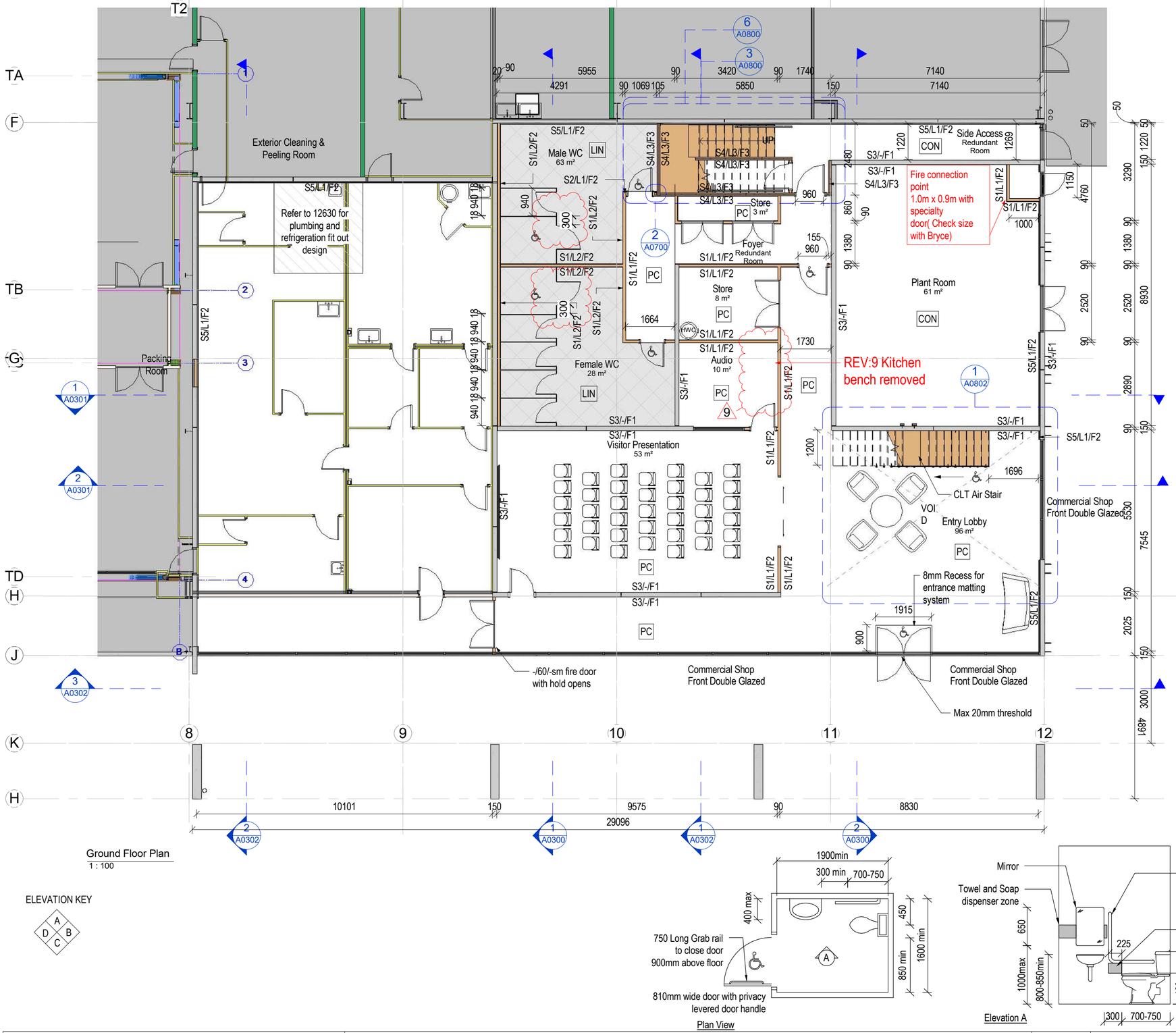
Infant Formula Blending Plant Offices

9 Ashford Ave., Ashburton

Construction Issue

JOB #	12413
DATE:	13/05/16



Ground Floor Plan
1 : 100

ELEVATION KEY

A
D B
C

Plan View

Elevation A

NOTES

Wheelchair front entrance access
Wheelchair Ramp no steeper than 1:12 gradient. To comply with NZS 4121:2001 Section 6 - Footpaths, Ramps and Landings.
Where ramp is over 1:20 fall a handrail at 1m high shall be installed. OR Stepped threshold, no greater than 20mm in compliance with Section 7 Entrances, Corridors and Doors.
Front Counter
As there is no exchanging of goods - there is not front counter therfore not required to be WC accessible
Door Handles & Hardware
The door handles and hardware shall comply with: NZS 4121:2001 Section 7
7.3.4 Door Handles and Hardware
Door handles and related hardware and accessories shall comply with the following requirements:
a) Handles shall be between 900mm and 1200mm (optimum 1000mm) above the finished floor level.
b) Handles operating locks and latches shall have a lever action and the end of the handle shall be returned towards the door.
c) The door opening pressure shall be the minimum required to suit specific use and conditions

Timber Treatment

Internal Timber Frames 90x45 H1.2 bottom plate to concrete slab with 1 layer of DPC

Timber top plate on top of panels exposed to weather
H3.2 with 1 layer of DPC

Note

Please refer to the fire plan for the position of EXIT signs

Wall Key:

Wall Type:
S1: 90x45 Timber frame
S2: 140x45 Timber frame
S3: PC Panel
S4: CLT
S5: 40mm goldfoam poly with 10mm Gib
Lining Type:
L1: 10mm GIB plaster board
L2: Plasterboard wet area
L3: CLT
Finish Type:
F1: Clear Finish
F2: Paint Finish
F3: Fireshield fire rated coating system

Floor Finish Key:

EM	Entrance Matting System
LIN	Linoleum
CPT	Selected Carpet
PC	Polished Concrete
CON	Concrete Floor

NZS 4121:2001
Section 7
7.1.4 Thresholds
Accessible entrances to a building or premises or to rooms within the premises shall have a level threshold. If a stepped threshold is necessary it shall be designed as follows
7.1.4.1 Steeped thresholds
When a stepped threshold is required and change in level is 20mm or less, no ramp is required. A strong visually contrasted strip shall be incorporated that is effective when approaching from either direction.
7.1.4.2 Ramped threshold
If the change in level is greater than 20 mm a ramp is required which shall have a gradient no steeper than 1 in 8 and a going of not more than 450mm

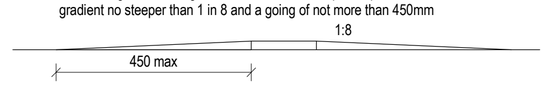
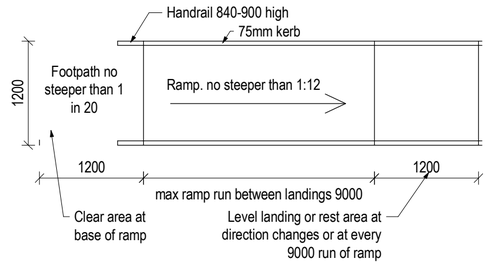


Figure 17 - Threshold ramp



Wheelchair accessible Ramp as per section 6 NZS 4212:2001

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NZ Dairy Collaborative Group

Infant Formula Blending Plant Offices

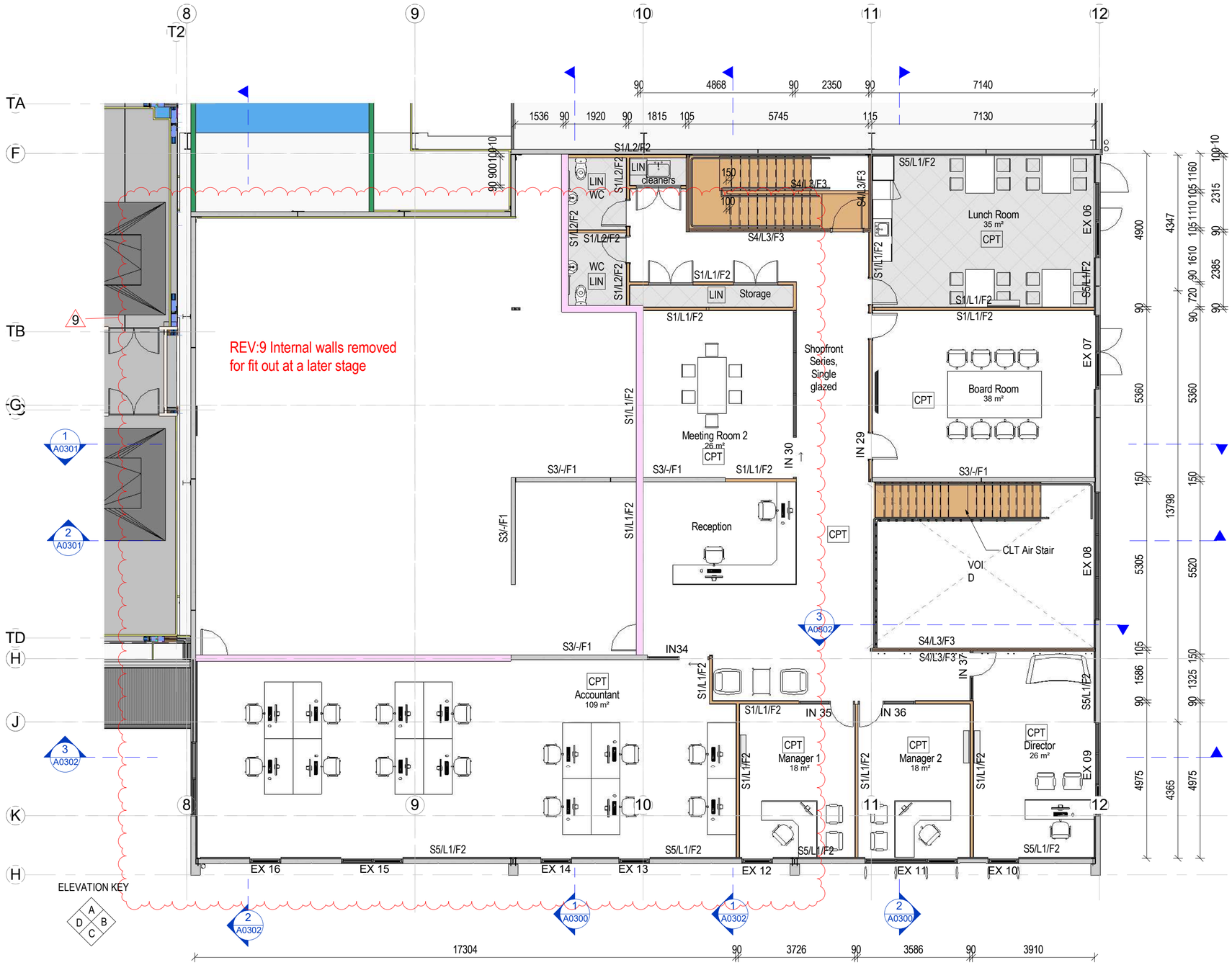
9 Ashford Ave., Ashburton

Arch

Rev#	Amendments	Date
6	Council RFI's	16/6/16
9	Contract Issue	19/04/17

Construction Issue

SCALE	As indicated@ A2	JOB #	12413
DRAWN BY	C. White	DATE	13/05/16
APPROVED BY	A.Cloake	REV	9
Arch Ground Floor Plan			A0200
Please note: All dimensions to be verified on site		Paper size	A2



First Floor Plan
1 : 100

Timber Treatment

Internal Timber Frames 90x45 H1.2 bottom plate to concrete slab with 1 layer of DPC

Timber top plate on top of panels exposed to weather

H3.2 with 1 layer of DPC

Note

Please refer to the fire plan for the position of EXIT signs

Wall Key:

Wall Type:
S1: 90x45 Timber frame
S2: 140x45 Timber frame
S3: PC Panel
S4: CLT
S5: 40mm goldfoam poly with 10mm Gib

Lining Type:
L1: 10mm GIB plaster board
L2: Plasterboard wet area
L3: CLT

Finish Type:
F1: Clear Finish
F2: Paint Finish
F3: Fireshield fire rated coating system

Floor Finish Key:

EM	Entrance Matting System
LIN	Linoleum
CPT	Selected Carpet
PC	Polished Concrete
CON	Concrete Floor

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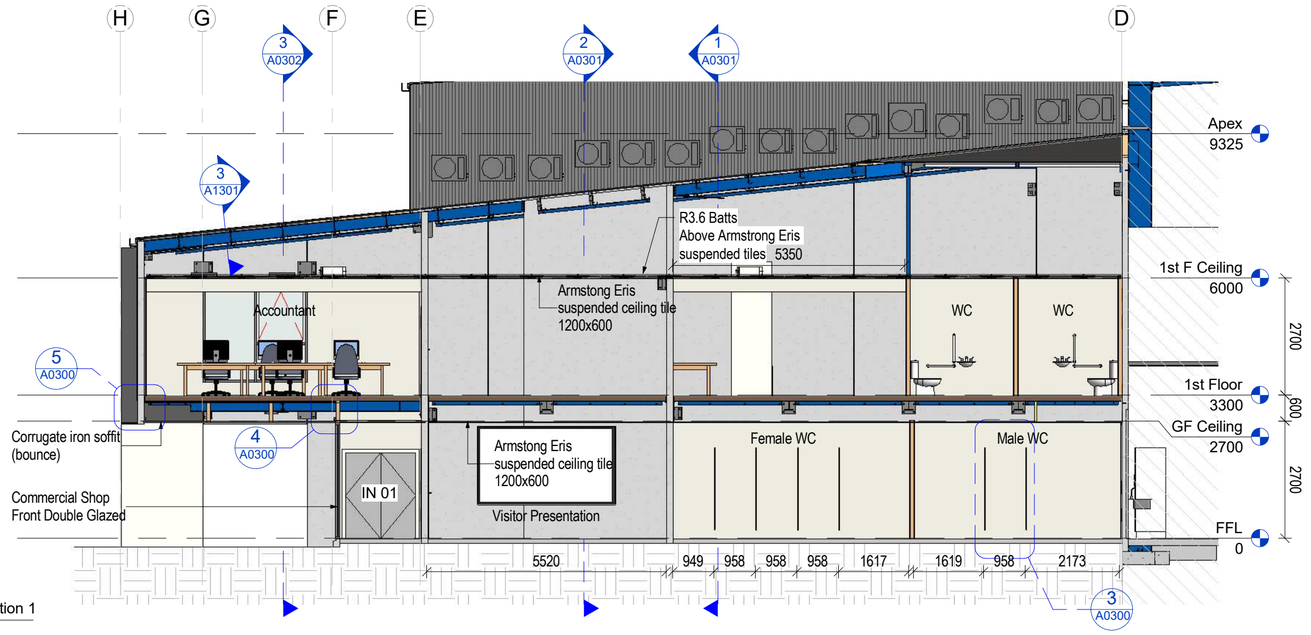
Infant Formula Blending Plant Offices

9 Ashford Ave., Ashburton

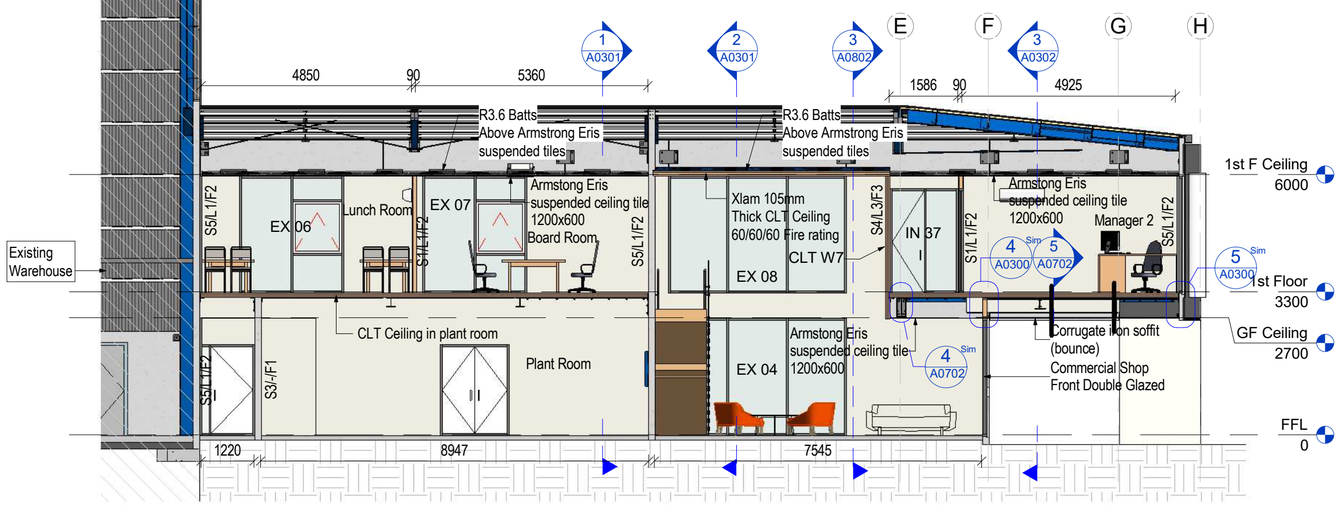
Rev#	Amendments	Date
9	Contract Issue	19/04/17

Construction Issue

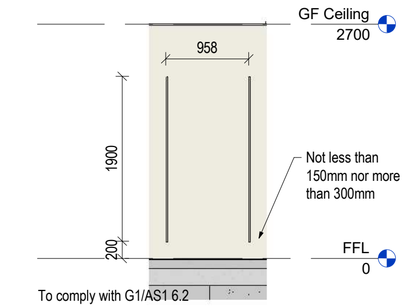
SCALE	As indicated@ A2	JOB #	12413
DRAWN BY	C. White	DATE	13/05/16
APPROVED BY	A.Cloake	REV	9
Arch First Floor Plan			A0201
Please note: All dimensions to be verified on site		Paper size	A2



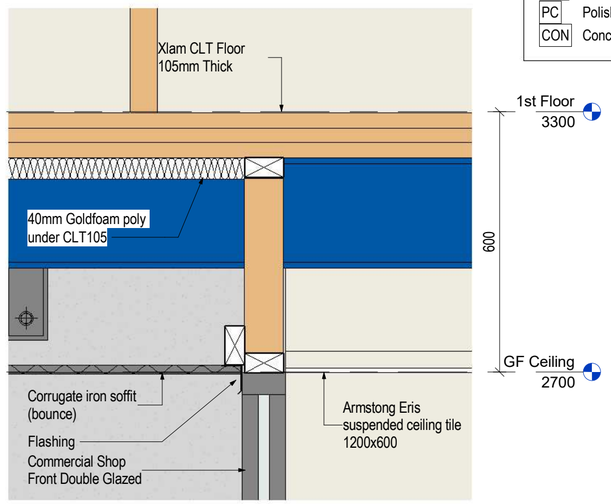
1 Building Section 1
1 : 100



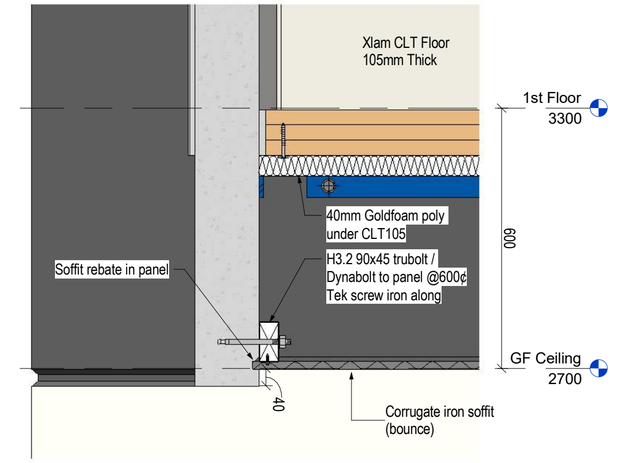
2 Building Section 2
1 : 100



3 Cubicle Screening
1 : 50



4 Soffit lining to window head
1 : 10



5 Soffit lining to precast
1 : 10

Wall Key:

Wall Type:
S1: 90x45 Timber frame
S2: 140x45 Timber frame
S3: PC Panel
S4: CLT
S5: 40mm goldfoam poly with 10mm Gib

Lining Type:
L1: 10mm GIB plaster board
L2: Plasterboard wet area
L3: CLT

Finish Type:
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F2: Paint Finish
F3: Fireshield fire rated coating system

Floor Finish Key:

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CPT	Selected Carpet
PC	Polished Concrete
CON	Concrete Floor

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Infant Formula Blending Plant Offices

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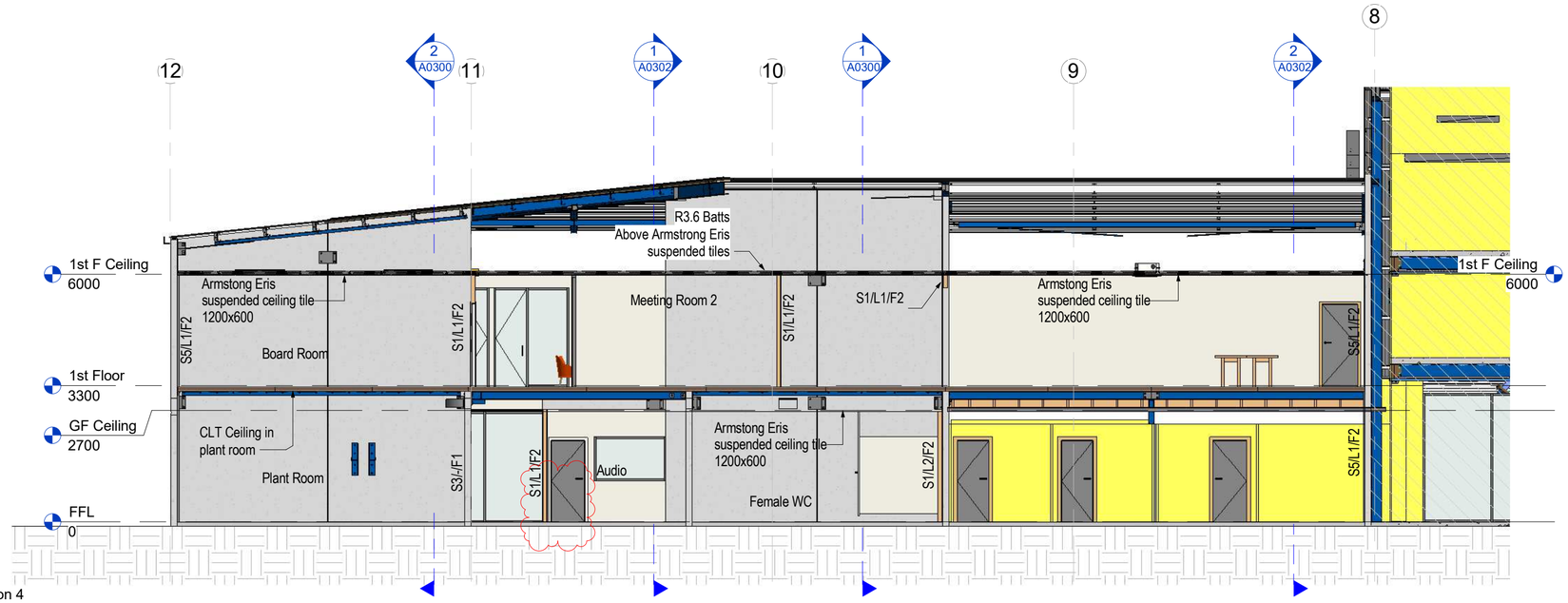
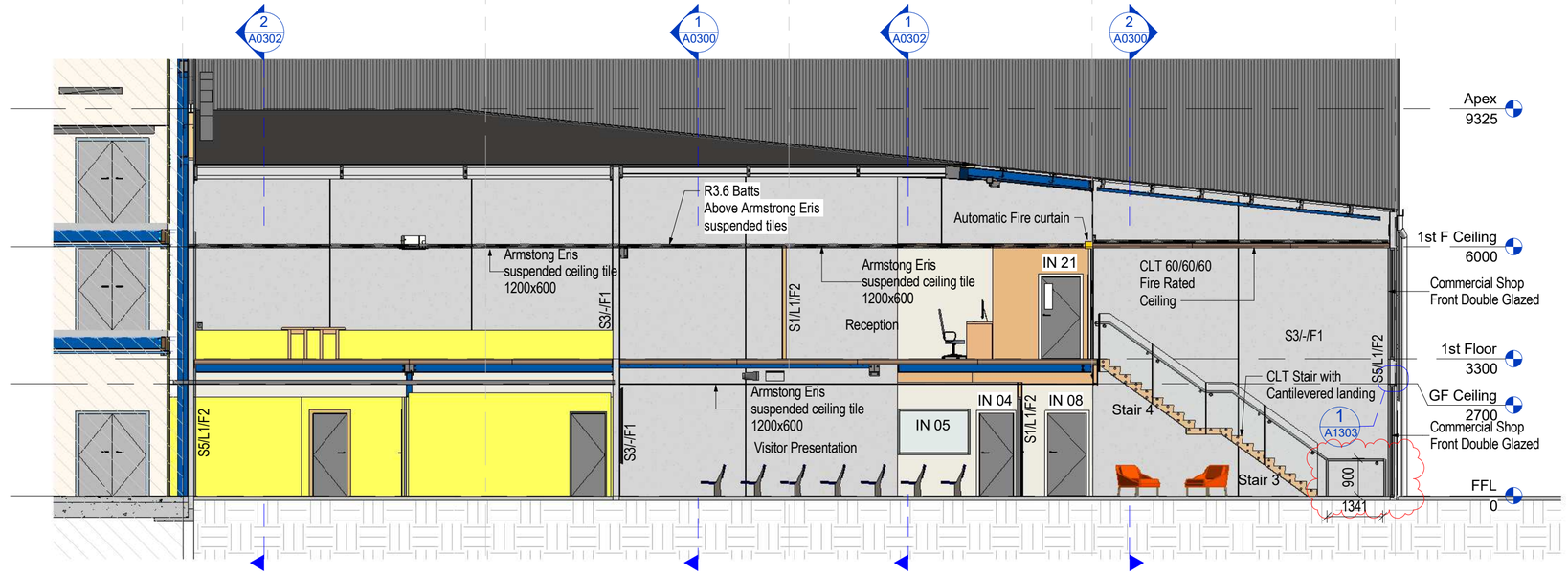
Rev#	Amendments	Date
	Construction Issue	

SCALE	As indicated@ A2	JOB #	12413
DRAWN BY	C. White	DATE	13/05/16
APPROVED BY	A.Cloake	REV	
Cross Sections			A0300
Please note: All dimensions to be verified on site		Paper size	A2



1 Building Section 4
1 : 100



2 Building Section 3
1 : 100

Wall Key:

Wall Type:
S1: 90x45 Timber frame
S2: 140x45 Timber frame
S3: PC Panel
S4: CLT
S5: 40mm goldfoam poly with 10mm Gib

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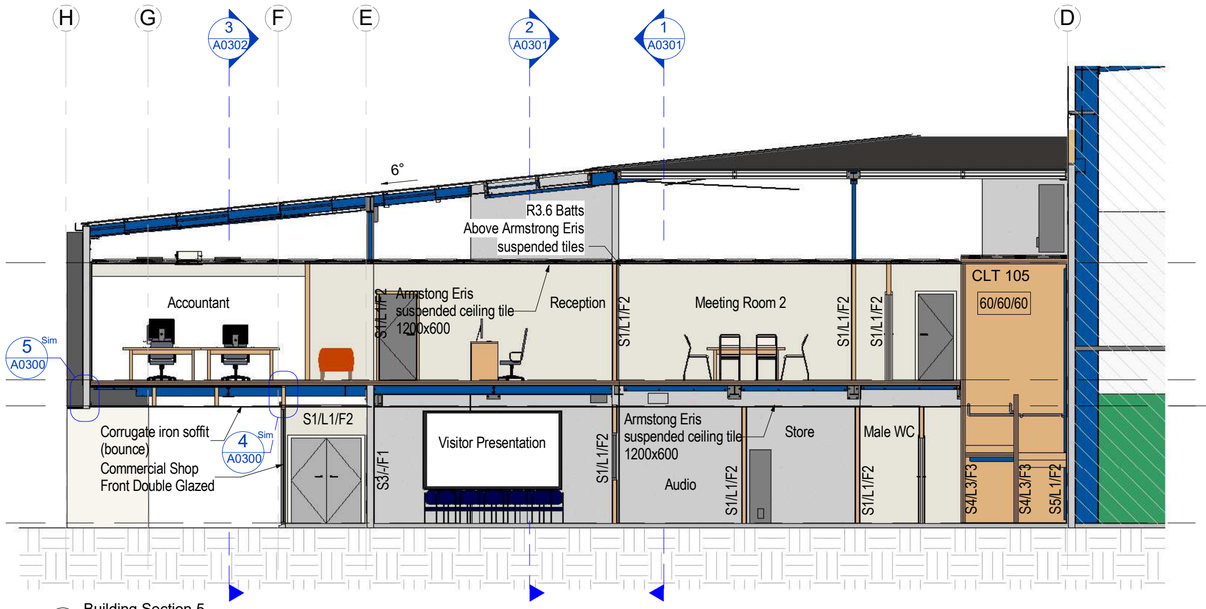
Infant Formula Blending Plant Offices

9 Ashford Ave., Ashburton

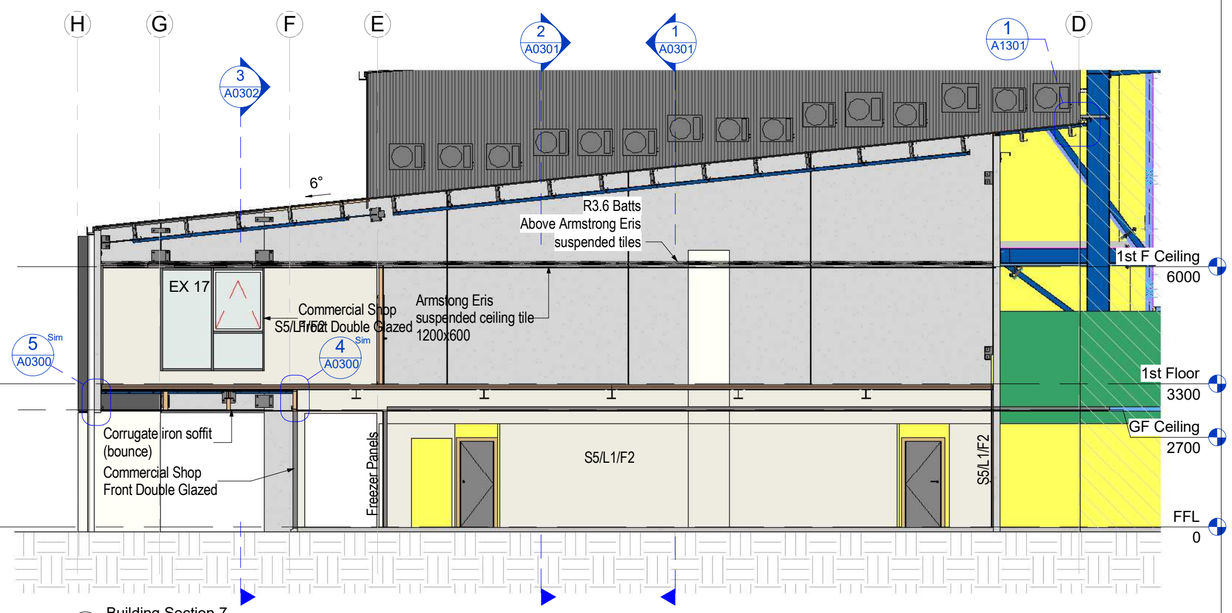
Rev#	Amendments	Date
5	Client Changes	24/05/16

Construction Issue

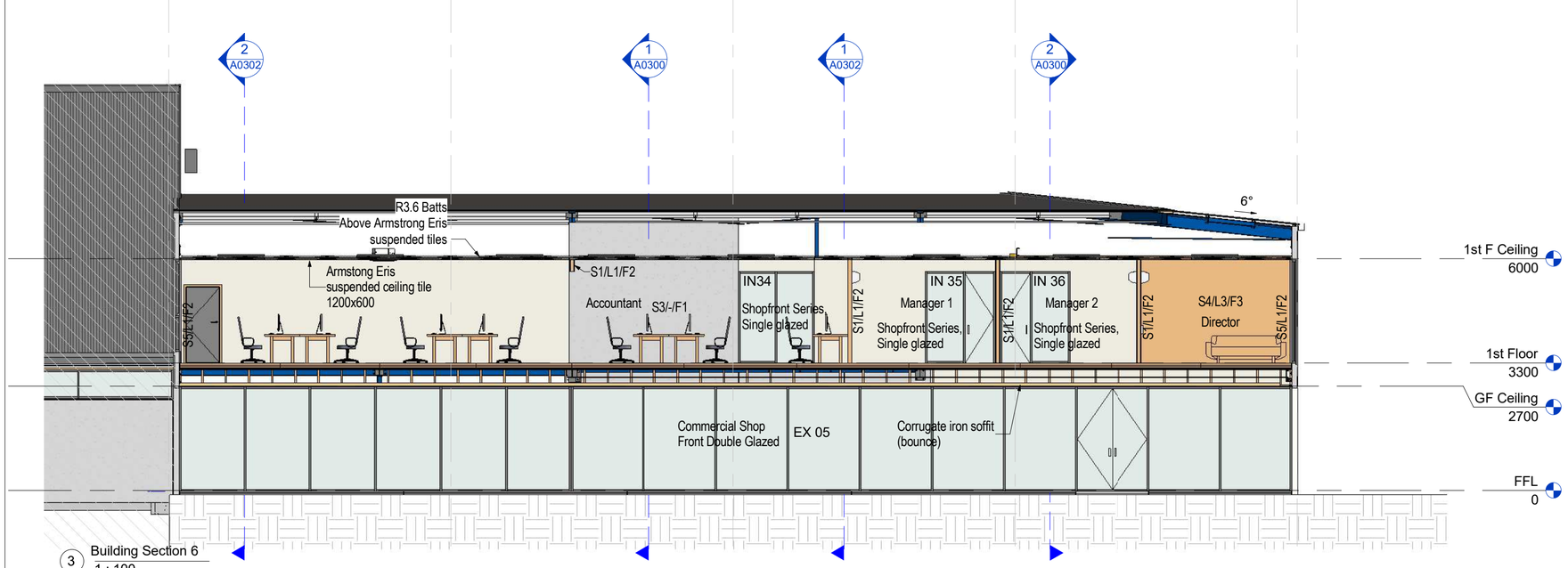
SCALE	As indicated@ A2	JOB #	12413
DRAWN BY	C. White	DATE	13/05/16
APPROVED BY	A.Cloake	REV	5
Cross Sections			A0301
Please note: All dimensions to be verified on site		Paper size	A2



1 Building Section 5
1 : 100



2 Building Section 7
1 : 100



3 Building Section 6
1 : 100

Wall Key:

Wall Type:
S1: 90x45 Timber frame
S2: 140x45 Timber frame
S3: PC Panel
S4: CLT
S5: 40mm goldfoam poly with 10mm Gib

Lining Type:
L1: 10mm GIB plaster board
L2: Plasterboard wet area
L3: CLT

Finish Type:
F1: Clear Finish
F2: Paint Finish
F3: Fireshield fire rated coating system

Floor Finish Key:

EM	Entrance Matting System
LIN	Linoleum
CPT	Selected Carpet
PC	Polished Concrete
CON	Concrete Floor

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NZ Dairy Collaborative Group

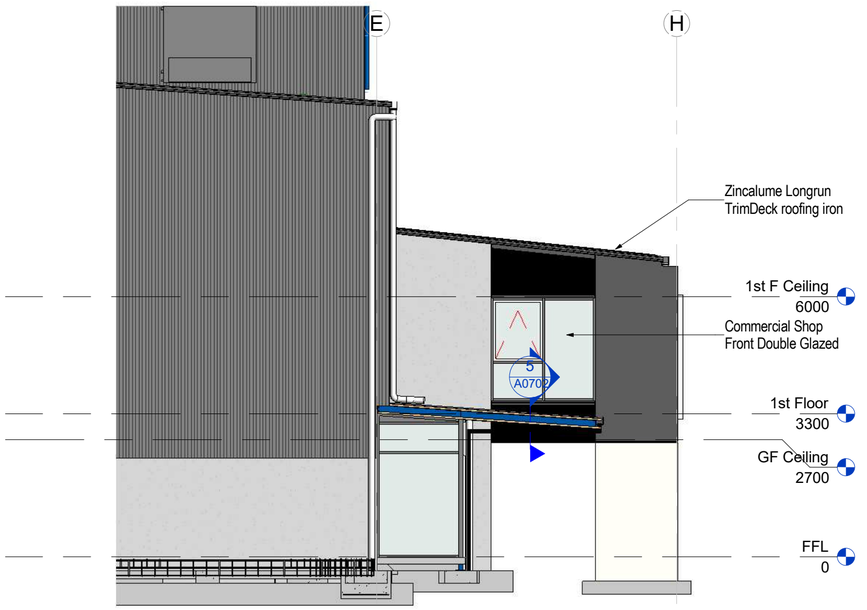
Infant Formula Blending Plant Offices

9 Ashford Ave., Ashburton

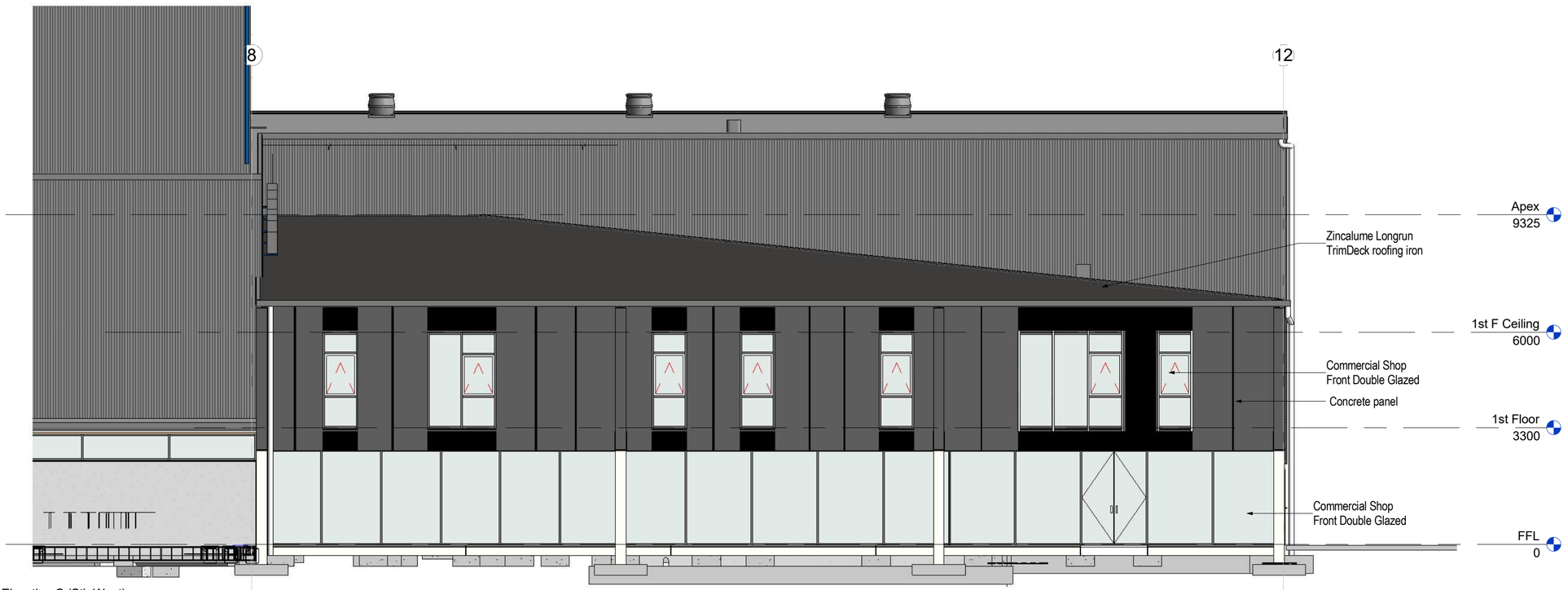
Rev#	Amendments	Date
	Construction Issue	

SCALE	As indicated@ A2	JOB #	12413
DRAWN BY	C. White	DATE	13/05/16
APPROVED BY	A.Cloake	REV	
Cross Sections			A0302
Please note: All dimensions to be verified on site		Paper size	A2

Elevation B (Sth East)
1 : 100



Elevation D (Nth West)
1 : 100



Elevation C (Sth West)
1 : 100

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Infant Formula Blending Plant Offices

9 Ashford Ave., Ashburton

Rev#	Amendments	Date
	Construction Issue	

SCALE	1 : 100 @ A2	JOB #	12413
DRAWN BY	C. White	DATE	13/05/16
APPROVED BY	A.Cloake	REV	
Elevations			A0400
Please note: All dimensions to be verified on site		Paper size	A2

Refer to TM Consultants Civil plans

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

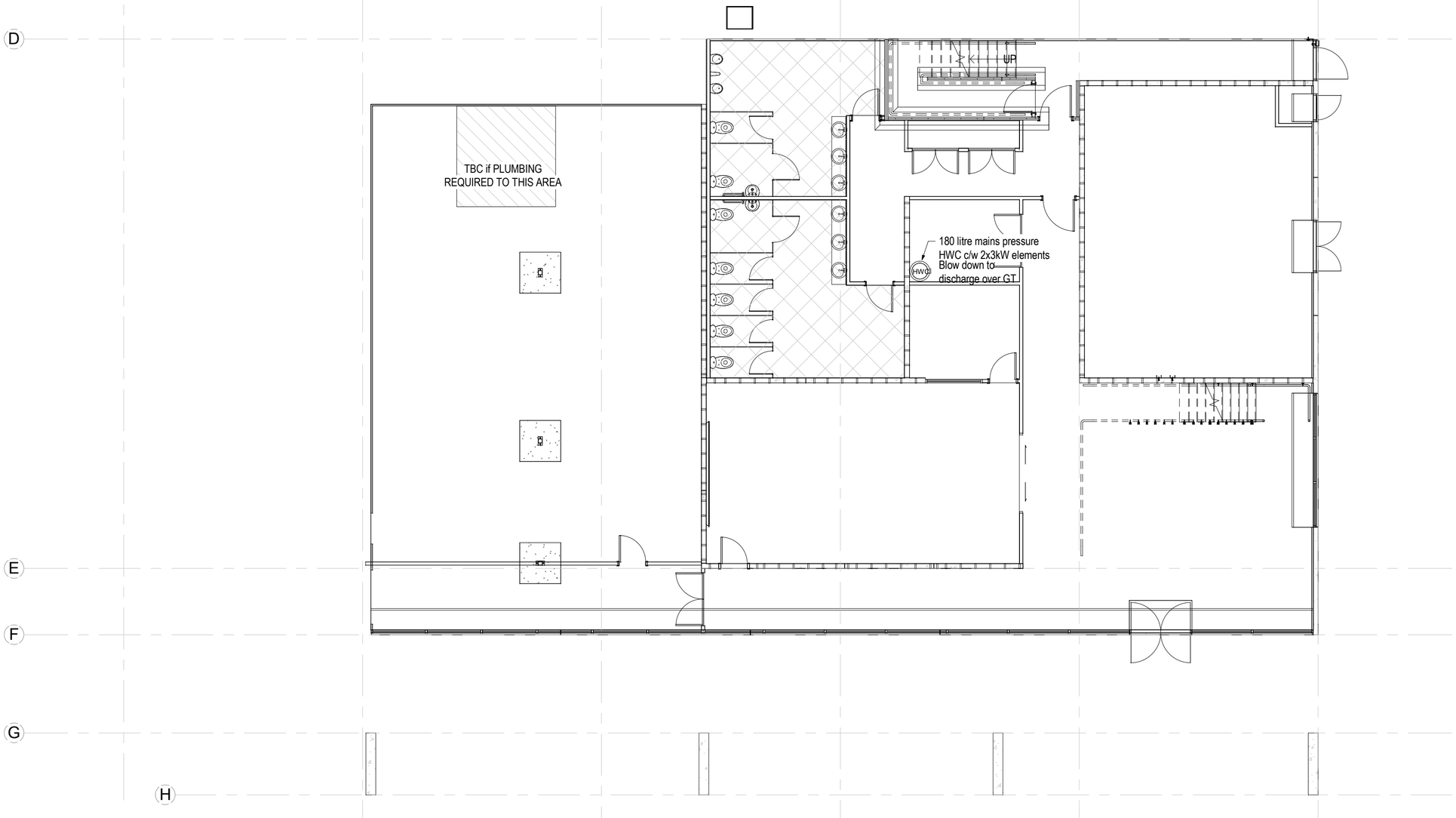
sewer

water

stormwater

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

Internal plumbing to ASNZ 3500.2.2003



1 Plumbing Ground Floor
1 : 100

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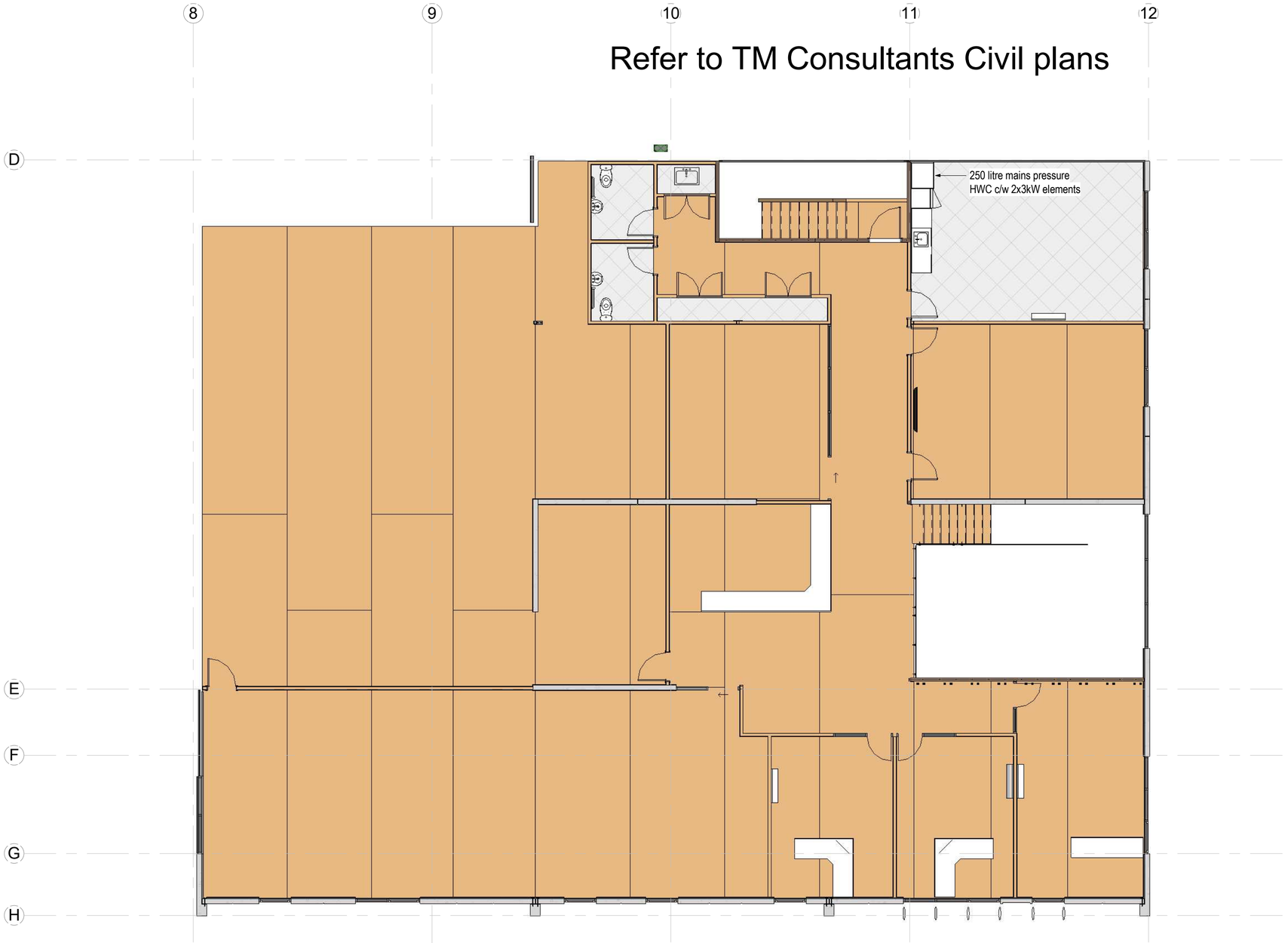
Infant Formula Blending Plant Offices

9 Ashford Ave., Ashburton

Rev#	Amendments	Date
	Construction Issue	

SCALE	1 : 100 @ A2	JOB #	12413
DRAWN BY	C. White	DATE	13/05/16
APPROVED BY	A.Cloake	REV	
Plumbing Ground Floor		A0500	
Please note: All dimensions to be verified on site		Paper size: A2	

Refer to TM Consultants Civil plans



1 Plumbing First Floor
1 : 100

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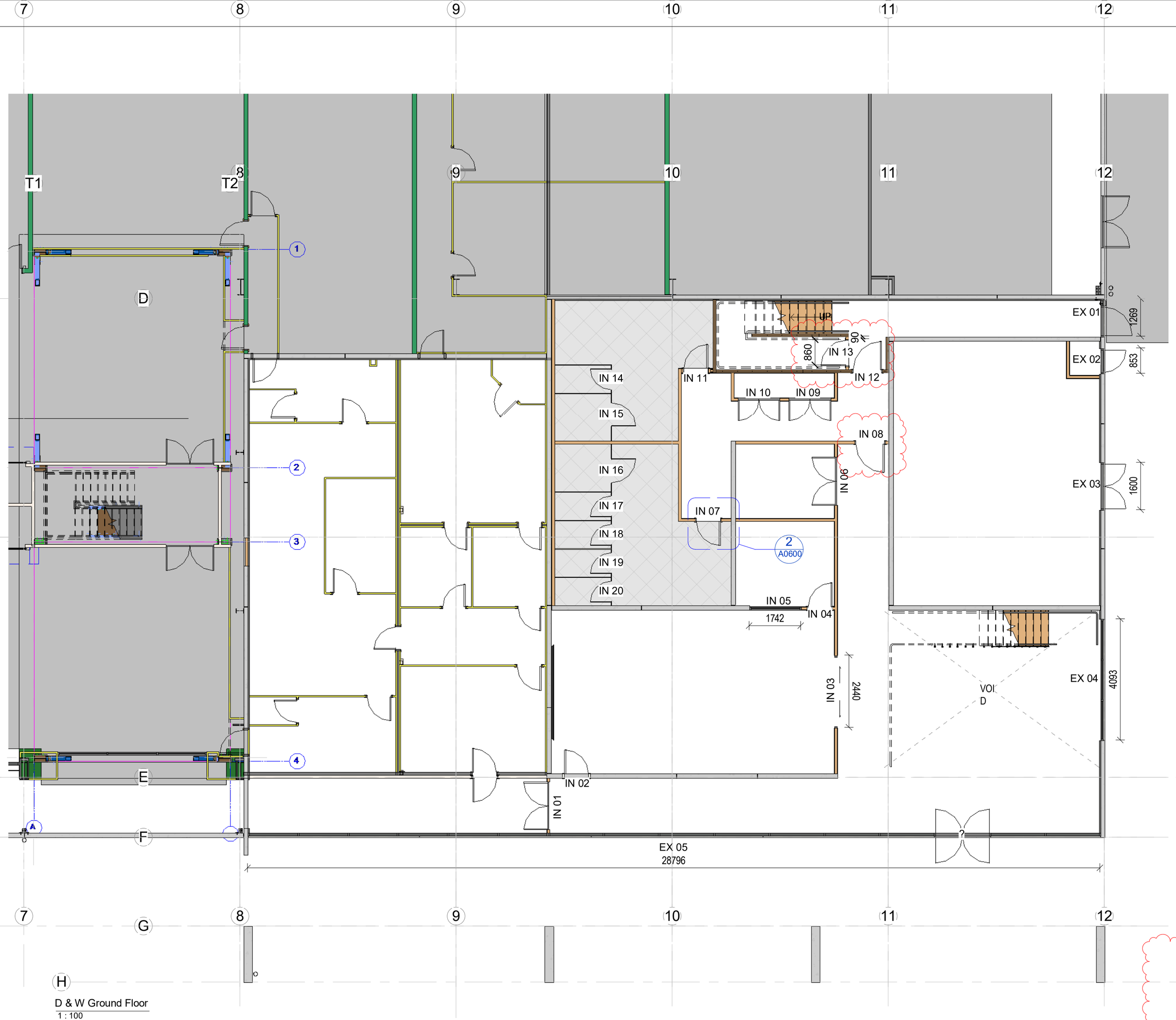
Infant Formula Blending Plant Offices

9 Ashford Ave., Ashburton

Rev#	Amendments	Date
	Construction Issue	

SCALE	1 : 100 @ A2	JOB #	12413
DRAWN BY	C. White	DATE	13/05/16
APPROVED BY	A.Cloake	REV	
Plumbing First Floor			A0501
Please note: All dimensions to be verified on site		Paper size	A2

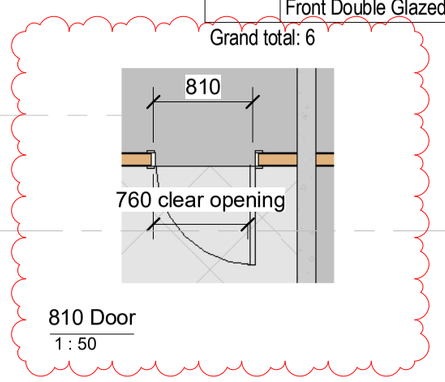


D & W Ground Floor
1 : 100

Door Schedule Ground Floor					
Mark	Type Mark	Width	Height	Fire Rating	Thickness
IN 01	Solid Core	1620	1980	-/60/-sm	40
IN 02	Solid core	810	1980		40
IN 04	Solid Core	810	1980		40
IN 06	Solid Core	1620	1980		38
IN 07	Solid Core	810	1980		40
IN 08	Solid core	960	1980	-/-/-sm	40
IN 09	Solid Core	1420	1980	-/-/-sm	40
IN 10	Solid Core	1420	1980	-/-/-sm	40
IN 11	Solid Core	810	1980		40
IN 12	Solid Core	960	1980	-/30/-sm	40
IN 13	168	860	1980	-/30/-sm	40
IN 14	Partition Toilet Door	710	1830		18
IN 15	Partition Toilet Door Accessible	810	1830		18
IN 16	Partition Toilet Door Accessible	810	1830		18
IN 17	Partition Toilet Door	710	1830		18
IN 18	Partition Toilet Door	710	1830		18
IN 19	Partition Toilet Door	710	1830		18
IN 20	Partition Toilet Door	710	1830		18

Internal Aluminium Door and Window Schedule Ground floor					
Mark	Keynote	Length	Unconnected Height	Area	Base Constraint
IN 03	Commercial Shop Front Double Glazed Automatic Doors	2440	2400	6 m²	FFL
IN 05	Shopfront Series, Single glazed	1742	1100	2 m²	FFL

External Aluminium Door and Window Schedule Ground...					
Mark	Keynote	Length	Unconnected Height	Area	Base Constraint
EX 01	Aluminium Solid Panel	1269	2100	3 m²	FFL
EX 02	Fire control Door	853	2100	2 m²	FFL
EX 03	Aluminium Solid Panel	1600	2100	3 m²	FFL
EX 04	Commercial Shop Front Double Glazed	4093	2700	11 m²	FFL
EX 05	Commercial Shop Front Double Glazed	28796	2712	78 m²	FFL
EX 08	Commercial Shop Front Double Glazed	4093	2700	11 m²	FFL
Grand total: 6				108 m²	



810 Door
1 : 50

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Infant Formula Blending Plant Offices

9 Ashford Ave., Ashburton

Rev#	Amendments	Date
3	Fire Rated Mid Floor Steel	20/05/16
6	Council RFI's	16/6/16

Construction Issue

SCALE	As indicated@ A2	JOB #	12413
DRAWN BY	C. White	DATE	13/05/16
APPROVED BY	A.Cloake	REV	6
D W Ground Floor Plan			A0600
Please note: All dimensions to be verified on site		Paper size	A2

D & W First Floor
1 : 100

Door Schedule 1st Floor

Mark	Type Mark	Width	Height	Fire Rating	Thickness
IN 21	Solid Core	960	1980	-/30/-sm	40
IN 22	Hollow Core	1420	1980		40
IN 23	Solid Core	810	1980		40
IN 24	Solid Core	810	1980		40
IN 25	Hollow Core	1420	1980		40
IN 26	Hollow Core	1420	1980		40
IN 27	Solid Core	810	1980		40
IN 28	Solid Core	810	1980		40
IN 29	Solid Core	810	1980		40
IN 31	168	860	1980	-/30/-sm	40
IN 32	168	860	1980	-/30/-sm	40

Internal Aluminium Door and Window Schedule 1st floor

Mark	Keynote	Length	Unconnected Height	Area	Base Constraint
IN 30	Shopfront Series, Single glazed	5445	2700	15 m²	1st Floor
IN 35	Shopfront Series, Single glazed	1868	2400	4 m²	1st Floor
IN 36	Shopfront Series, Single glazed	1868	2400	4 m²	1st Floor
IN 37	Shopfront Series, Single glazed	1628	2400	4 m²	1st Floor

External Aluminium Door and Window Schedule 1st Floor

Mark	Keynote	Length	Unconnected Height	Area	Base Constraint
EX 06	Commercial Shop Front Double Glazed	2400	2700	6 m²	1st Floor
EX 07	Commercial Shop Front Double Glazed	2400	2700	6 m²	1st Floor
EX 09	Commercial Shop Front Double Glazed	3000	2700	8 m²	1st Floor
EX 10	Commercial Shop Front Double Glazed	984	2700	3 m²	1st Floor
EX 11	Commercial Shop Front Double Glazed	2973	2700	8 m²	1st Floor
EX 12	Commercial Shop Front Double Glazed	984	2700	3 m²	1st Floor
EX 13	Commercial Shop Front Double Glazed	984	2700	3 m²	1st Floor
EX 14	Commercial Shop Front Double Glazed	984	2700	3 m²	1st Floor
EX 15	Commercial Shop Front Double Glazed	1969	2700	5 m²	1st Floor
EX 16	Commercial Shop Front Double Glazed	984	2700	3 m²	1st Floor
EX 17	Commercial Shop Front Double Glazed	2400	2381	6 m²	1st Floor
Grand total: 11				53 m²	

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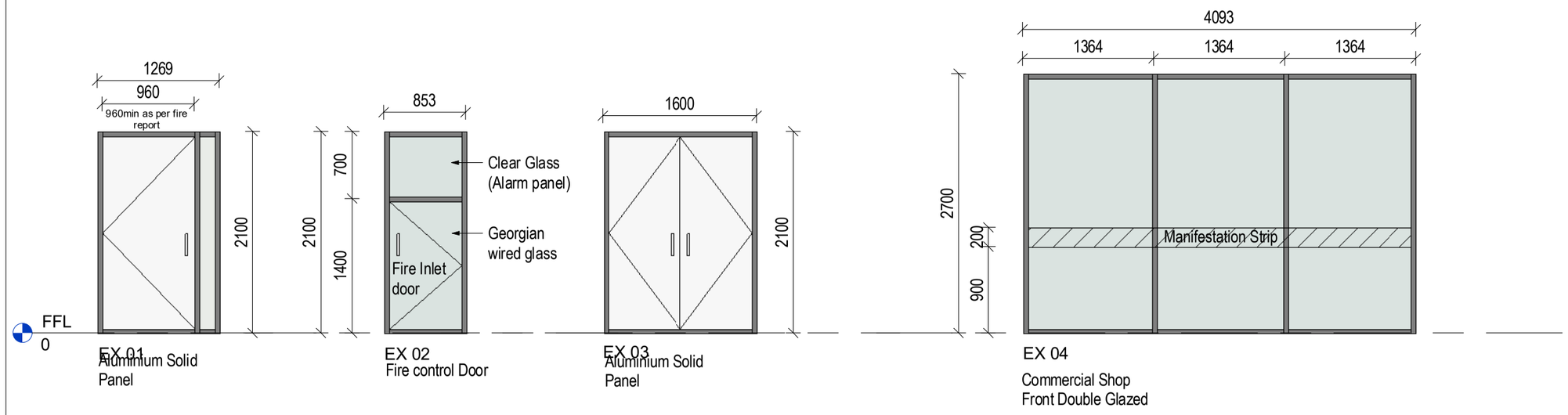
Infant Formula Blending Plant Offices

9 Ashford Ave., Ashburton

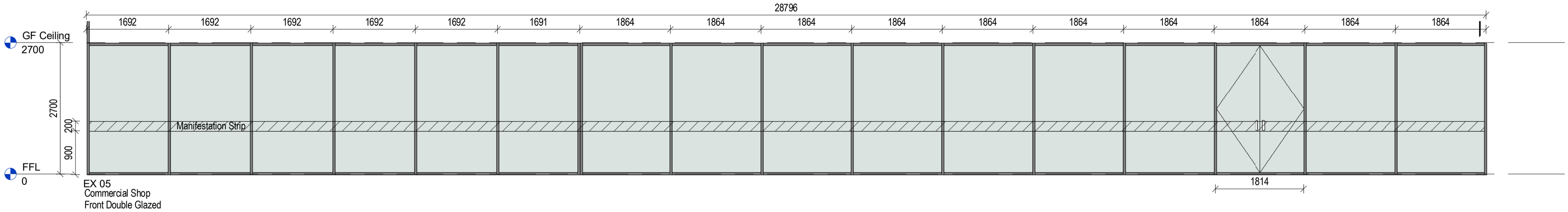
Rev#	Amendments	Date
	Construction Issue	

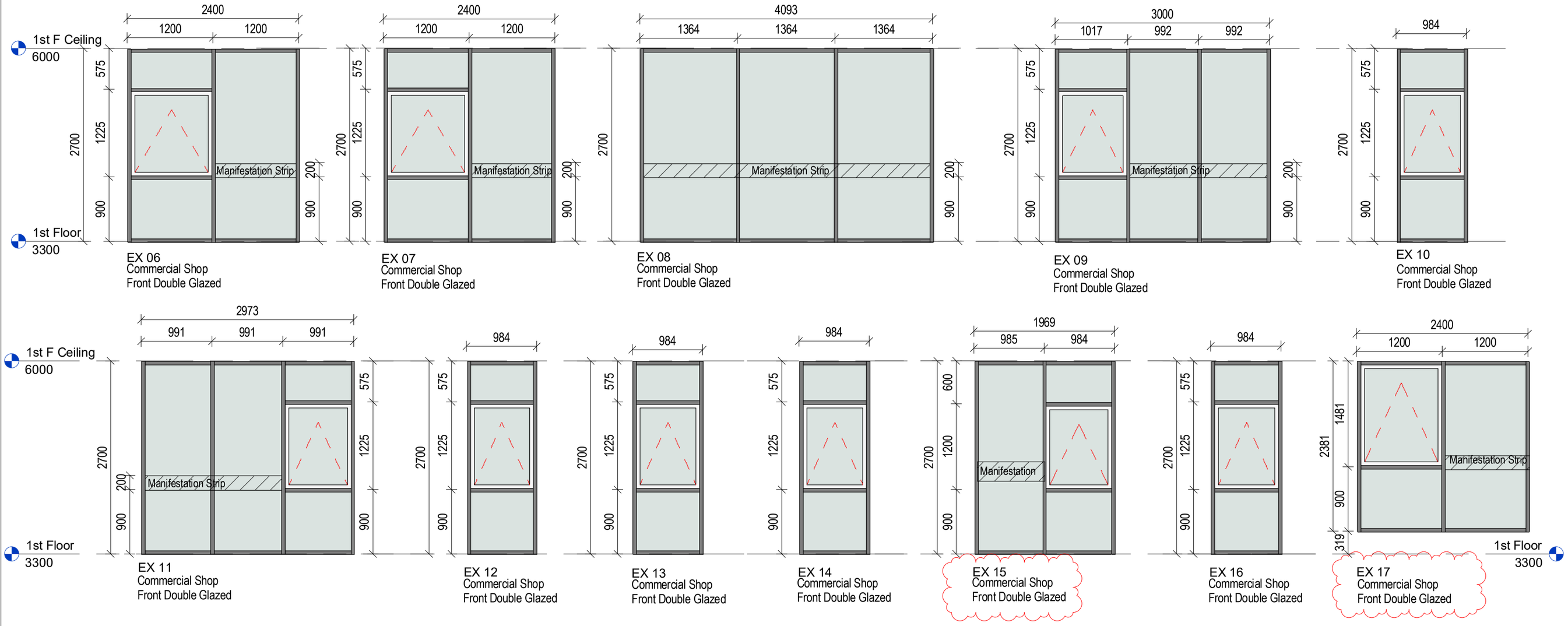
SCALE 1 : 100 @ A2		JOB #	12413
DRAWN BY C. White		DATE	13/05/16
APPROVED BY A.Cloake		REV	
D W First Floor Plan			A0601
Please note: All dimensions to be verified on site		Paper size:	A2



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 Aluminium Door and Window Schedule

Mark	Keynote	Length	Unconnected Height	Area	Base Constraint
EX 01	Aluminium Solid Panel	1269	2100	3 m²	FFL
EX 02	Fire control Door	853	2100	2 m²	FFL
EX 03	Aluminium Solid Panel	1600	2100	3 m²	FFL
EX 04	Commercial Shop Front Double Glazed	4093	2700	11 m²	FFL
EX 05	Commercial Shop Front Double Glazed	28796	2712	78 m²	FFL
EX 06	Commercial Shop Front Double Glazed	2400	2700	6 m²	1st Floor
EX 07	Commercial Shop Front Double Glazed	2400	2700	6 m²	1st Floor
EX 08	Commercial Shop Front Double Glazed	4093	2700	11 m²	FFL
EX 09	Commercial Shop Front Double Glazed	3000	2700	8 m²	1st Floor
EX 10	Commercial Shop Front Double Glazed	984	2700	3 m²	1st Floor
EX 11	Commercial Shop Front Double Glazed	2973	2700	8 m²	1st Floor
EX 12	Commercial Shop Front Double Glazed	984	2700	3 m²	1st Floor
EX 13	Commercial Shop Front Double Glazed	984	2700	3 m²	1st Floor
EX 14	Commercial Shop Front Double Glazed	984	2700	3 m²	1st Floor
EX 15	Commercial Shop Front Double Glazed	1969	2700	5 m²	1st Floor
EX 16	Commercial Shop Front Double Glazed	984	2700	3 m²	1st Floor
EX 17	Commercial Shop Front Double Glazed	2400	2381	6 m²	1st Floor
Grand total: 17				161 m²	

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Infant Formula Blending Plant Offices

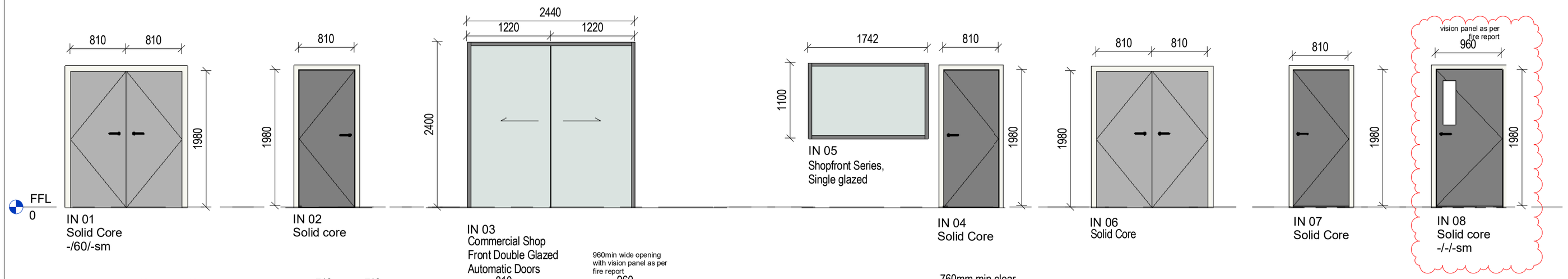
9 Ashford Ave., Ashburton

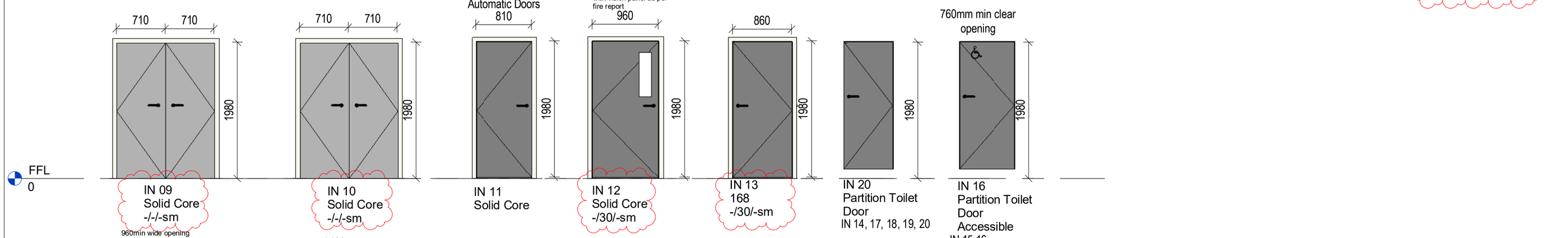
Arch

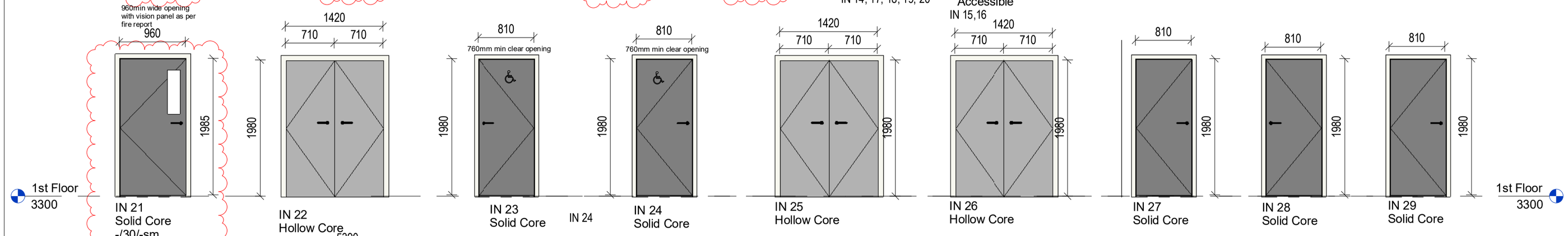
Rev#	Amendments	Date
6	Council RFI's	16/6/16

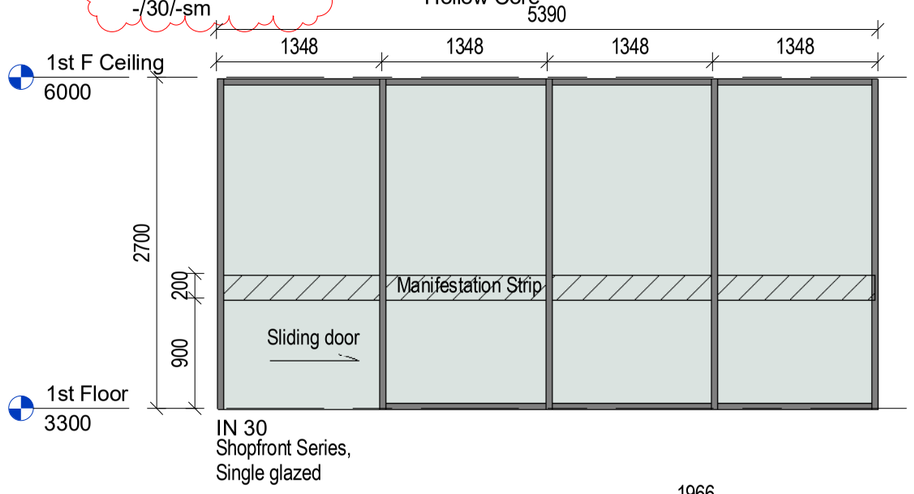
Construction Issue

SCALE	As indicated@ A2	JOB #	12413
DRAWN BY	C. White	DATE	13/05/16
APPROVED BY	A.Cloake	REV	6
D W External			A0602
Please note: All dimensions to be verified on site		Paper size:	A2





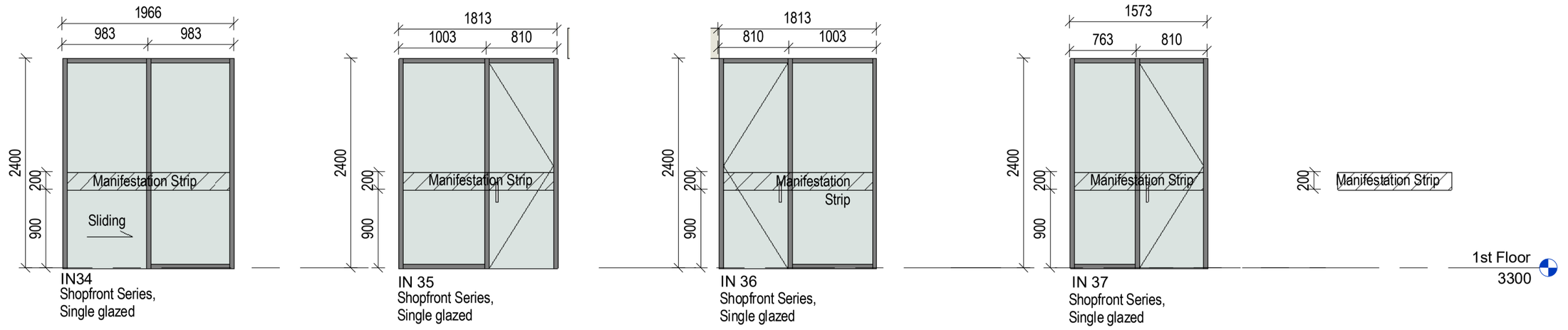




Window Removed

Window Removed

Window Removed



Door Schedule

Mark	Type Mark	Width	Height	Fire Rating	Thickness
IN 01	Solid Core	1620	1980	-/60/-sm	40
IN 02	Solid core	810	1980		40
IN 04	Solid Core	810	1980		40
IN 06	Solid Core	1620	1980		38
IN 07	Solid Core	810	1980		40
IN 08	Solid core	960	1980	-/-/-sm	40
IN 09	Solid Core	1420	1980	-/-/-sm	40
IN 10	Solid Core	1420	1980	-/-/-sm	40
IN 11	Solid Core	810	1980		40
IN 12	Solid Core	960	1980	-/30/-sm	40
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IN 16	Partition Toilet Door Accessible	810	1830		18
IN 17	Partition Toilet Door	710	1830		18
IN 18	Partition Toilet Door	710	1830		18
IN 19	Partition Toilet Door	710	1830		18
IN 20	Partition Toilet Door	710	1830		18
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IN 23	Solid Core	810	1980		40
IN 24	Solid Core	810	1980		40
IN 25	Hollow Core	1420	1980		40
IN 26	Hollow Core	1420	1980		40
IN 27	Solid Core	810	1980		40
IN 28	Solid Core	810	1980		40
IN 29	Solid Core	810	1980		40
IN 31	168	860	1980	-/30/-sm	40
IN 32	168	860	1980	-/30/-sm	40

Internal Aluminium Door and Window Schedule

Mark	Keynote	Length	Unconnected Height	Area	Base Constraint
IN 03	Commercial Shop Front Double Glazed Automatic Doors	2440	2400	6 m²	FFL
IN 05	Shopfront Series, Single glazed	1742	1100	2 m²	FFL
IN 30	Shopfront Series, Single glazed	5445	2700	15 m²	1st Floor
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IN 36	Shopfront Series, Single glazed	1868	2400	4 m²	1st Floor
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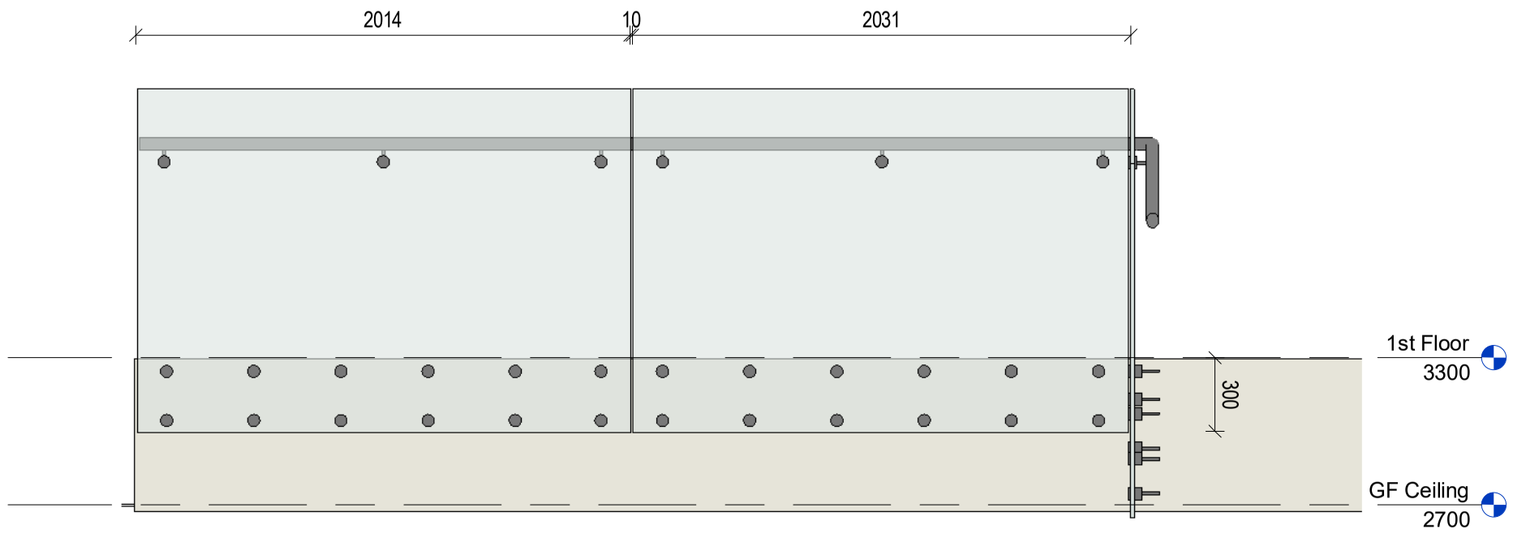
Infant Formula Blending Plant Offices

9 Ashford Ave., Ashburton

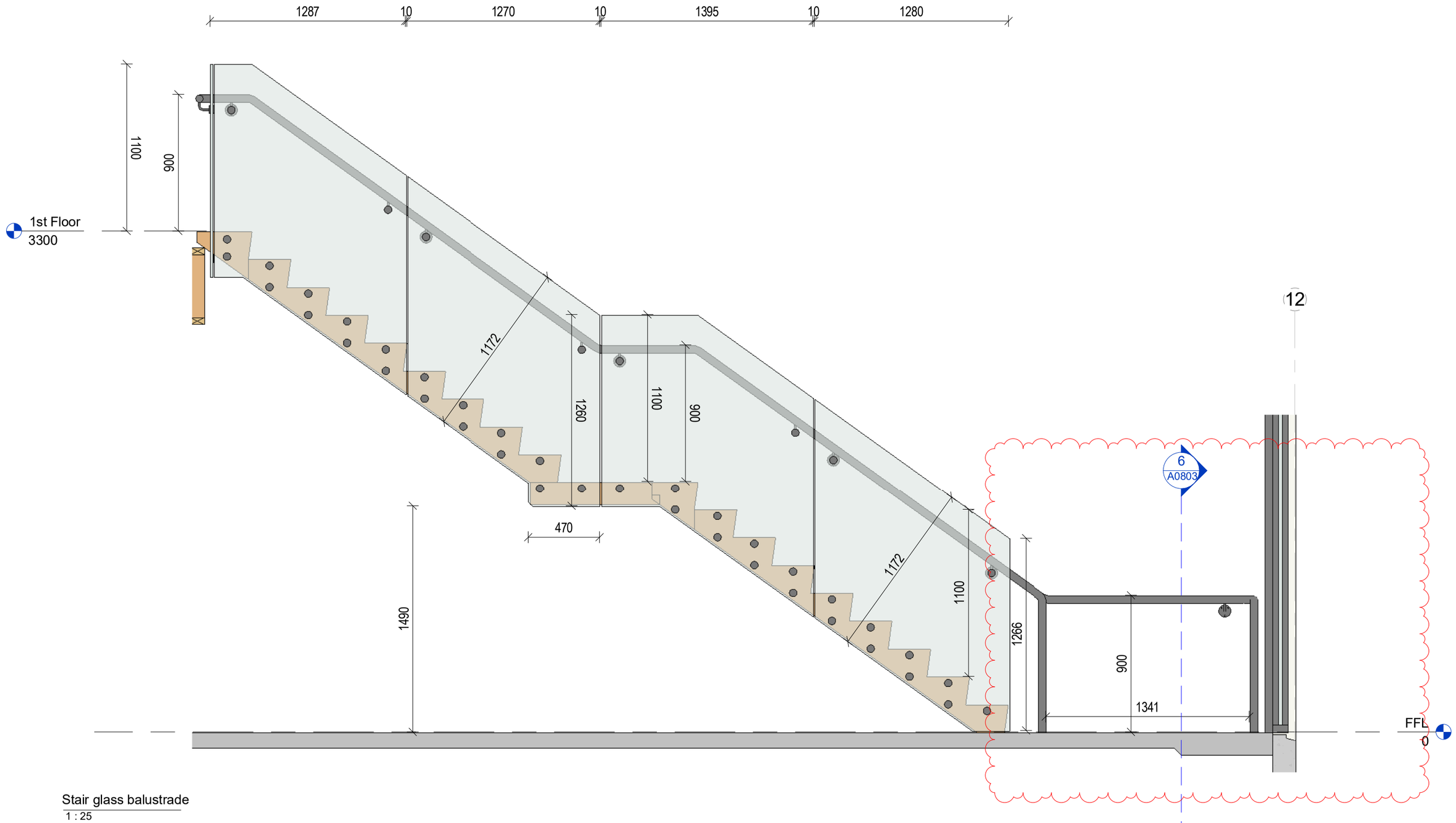
Rev#	Amendments	Date
3	Fire Rated Mid Floor Steel	20/05/16

Construction Issue

SCALE	1 : 50 @ A2	JOB #	12413
DRAWN BY	C. White	DATE	13/05/16
APPROVED BY	A.Cloake	REV	3
D W Internal			A0603
Please note: All dimensions to be verified on site		Paper size:	A2



Glass Balustrade upstairs
1 : 25



Stair glass balustrade
1 : 25

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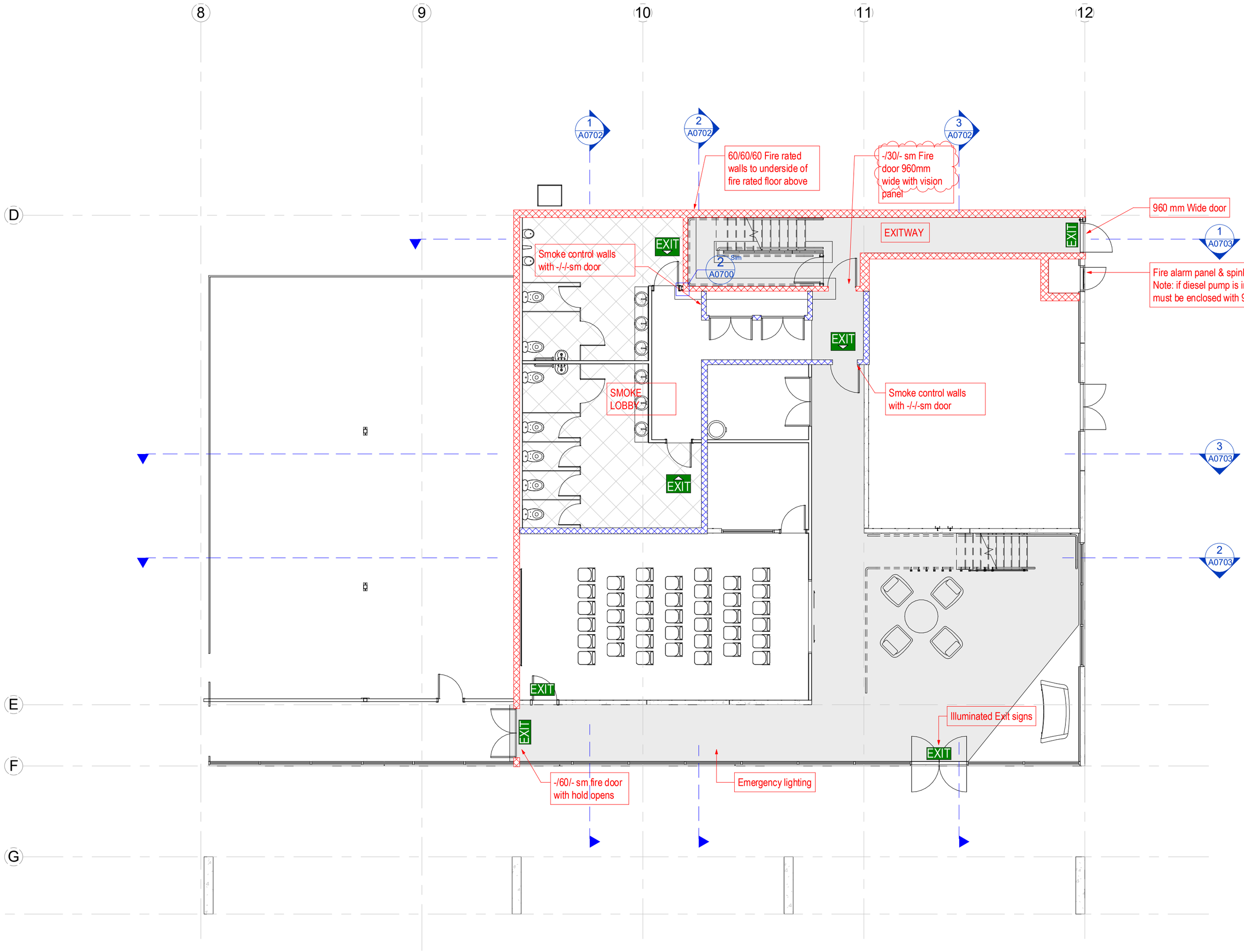
Infant Formula Blending Plant Offices

9 Ashford Ave., Ashburton

Rev#	Amendments	Date
5	Client Changes	24/05/16

Construction Issue

SCALE	1 : 25 @ A2	JOB #	12413
DRAWN BY	C. White	DATE	13/05/16
APPROVED BY	A.Cloake	REV	5
Balustrades			A0604
Please note: All dimensions to be verified on site		Paper size	A2

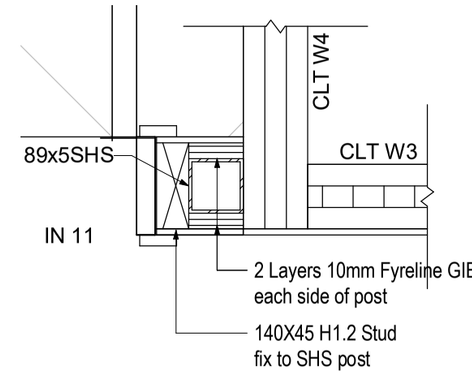


Fire Plan Ground Floor
1 : 100

FIRE RATING KEY:

60/60/60 Fire Rated Wall

-/-/- Smoke Control Wall



2 A0200 **DETAIL** :Fire lining around SHS post
1 : 10

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Infant Formula Blending Plant Offices
9 Ashford Ave., Ashburton

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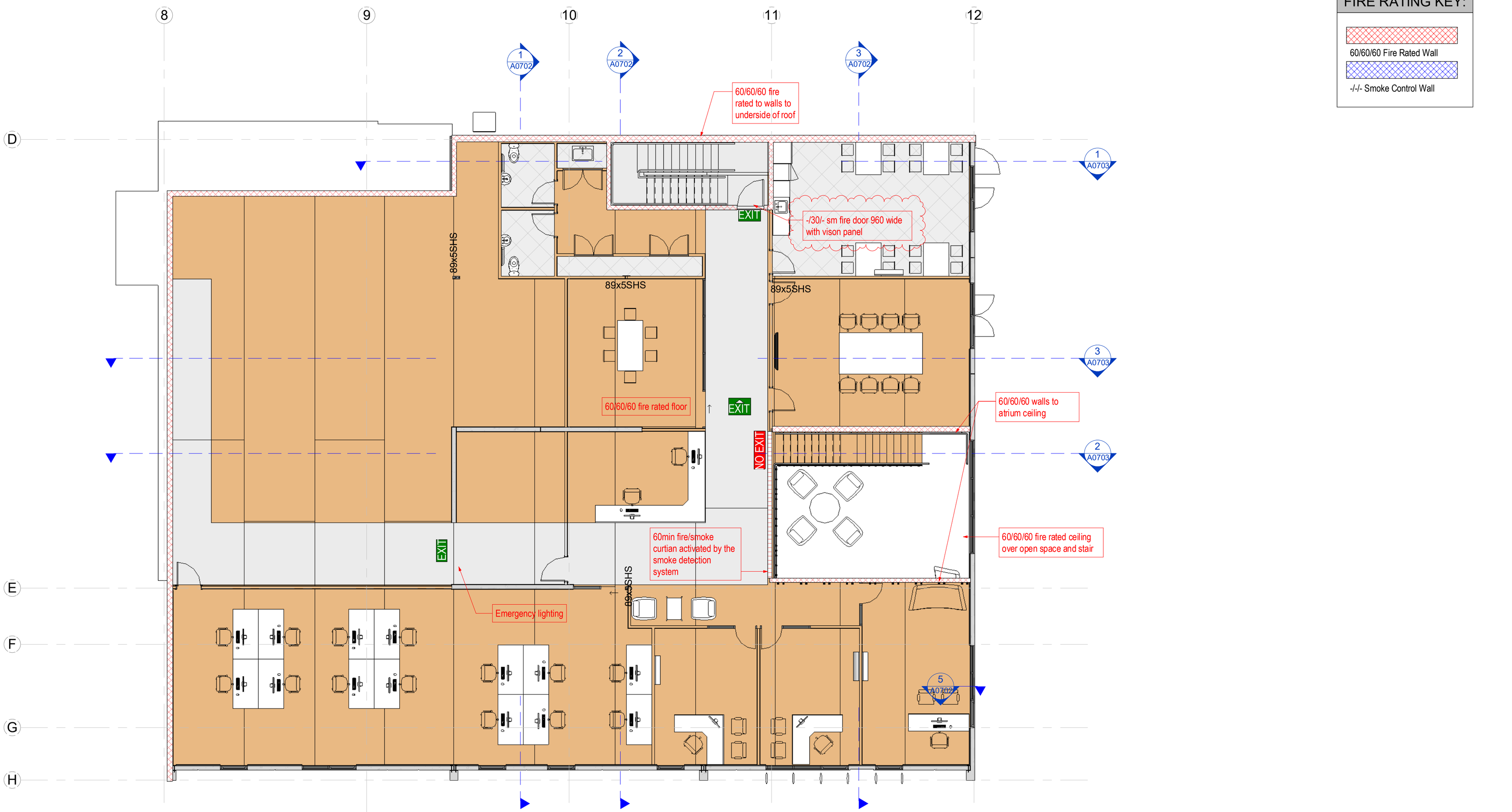
Rev#	Amendments	Date
3	Fire Rated Mid Floor Steel	20/05/16
	Construction Issue	

SCALE	As indicated@ A2	JOB #	12413
DRAWN BY	C. White	DATE	13/05/16
APPROVED BY	A.Cloake	REV	3
Fire Rating Plan GF			A0700
Please note: All dimensions to be verified on site		Paper size	A2



FIRE RATING KEY:

60/60/60 Fire Rated Wall

-/-/- Smoke Control Wall

1 Fire Plan First Floor
1 : 100

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NZ Dairy Collaborative Group

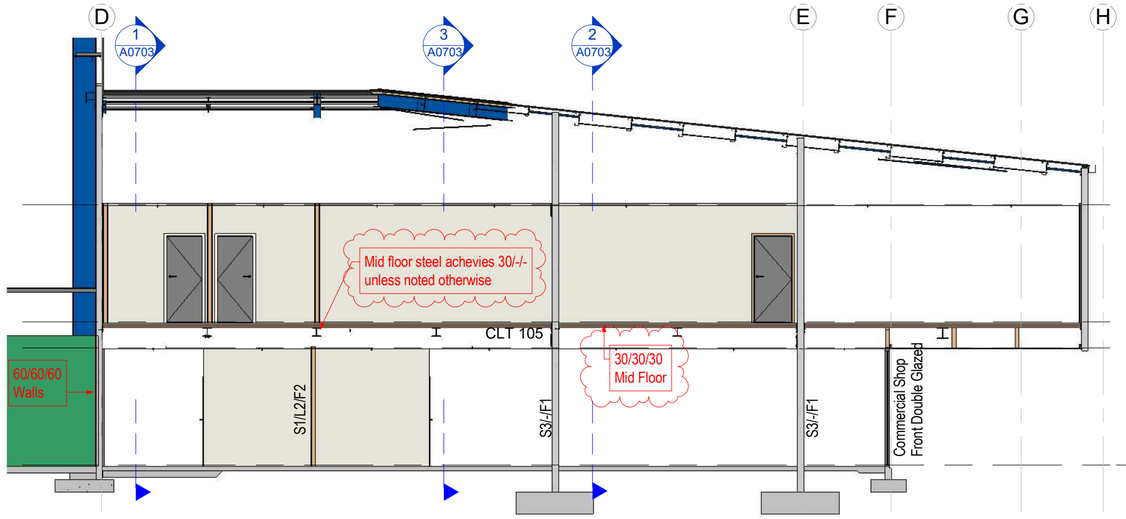
Infant Formula Blending Plant Offices

9 Ashford Ave., Ashburton

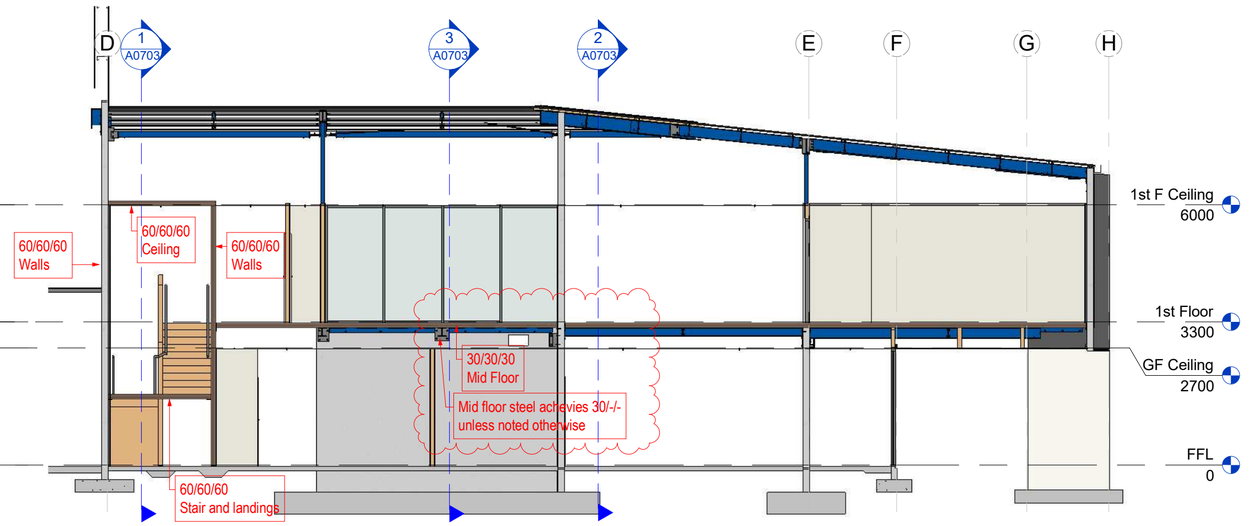
Rev#	Amendments	Date
3	Fire Rated Mid Floor Steel	20/05/16

Construction Issue

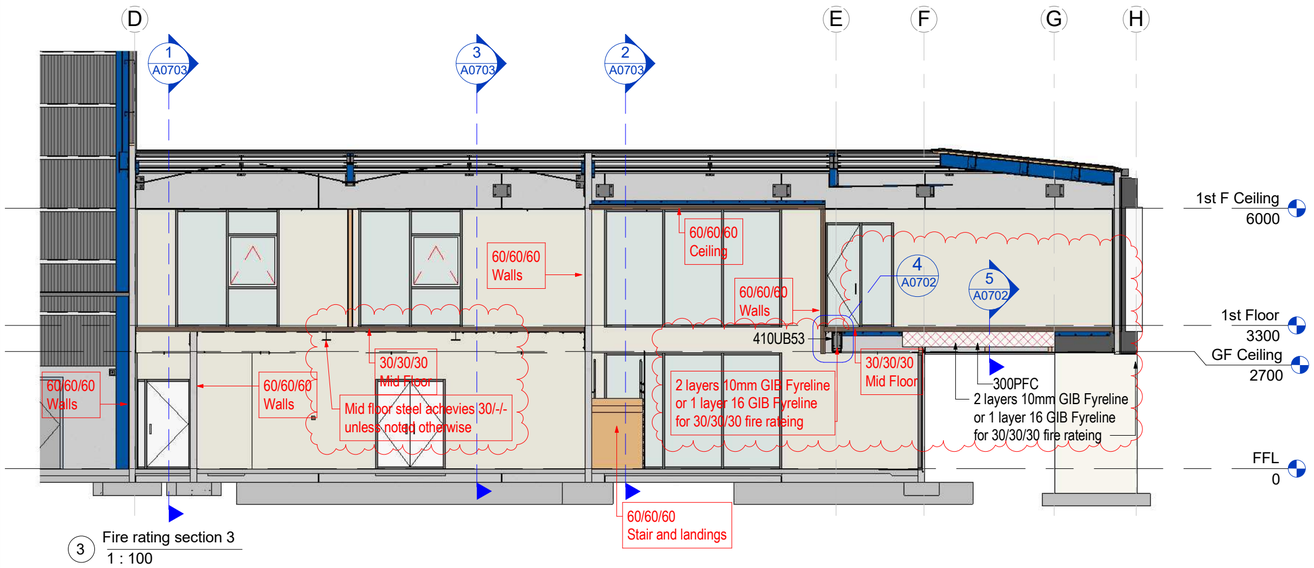
SCALE	As indicated@ A2	JOB #	12413
DRAWN BY	C. White	DATE	13/05/16
APPROVED BY	A.Cloake	REV	3
Fire Rating Plan FF			A0701
Please note: All dimensions to be verified on site		Paper size:	A2



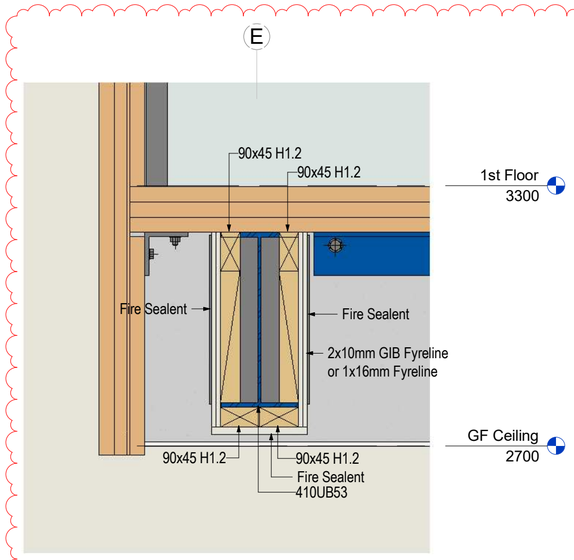
1 Fire rating section 1
1 : 100



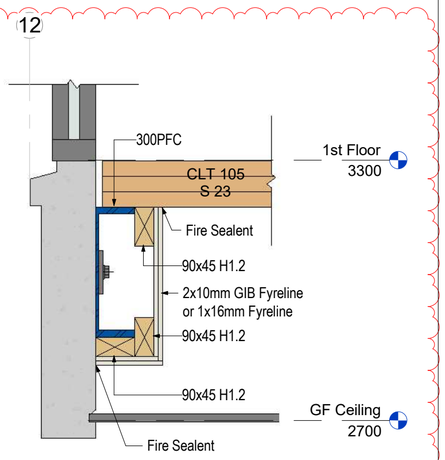
2 Fire rating section 2
1 : 100



3 Fire rating section 3
1 : 100



4 Fire rating around 410UB
1 : 10



5 Fire rating around 300PFC
1 : 10

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Infant Formula Blending Plant Offices

9 Ashford Ave., Ashburton

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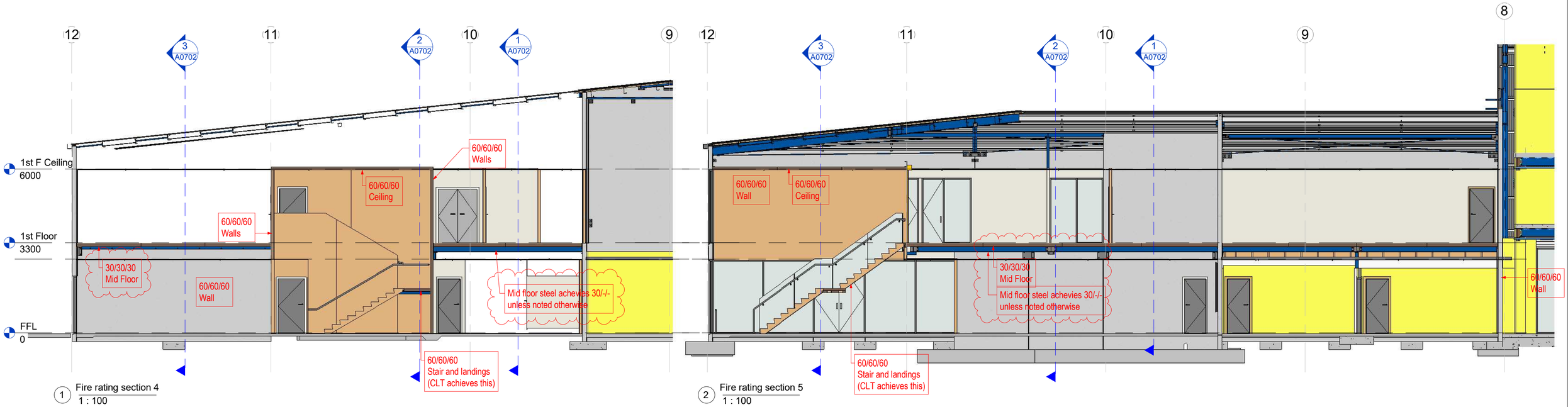
Rev#	Amendments	Date
3	Fire Rated Mid Floor Steel	20/05/16

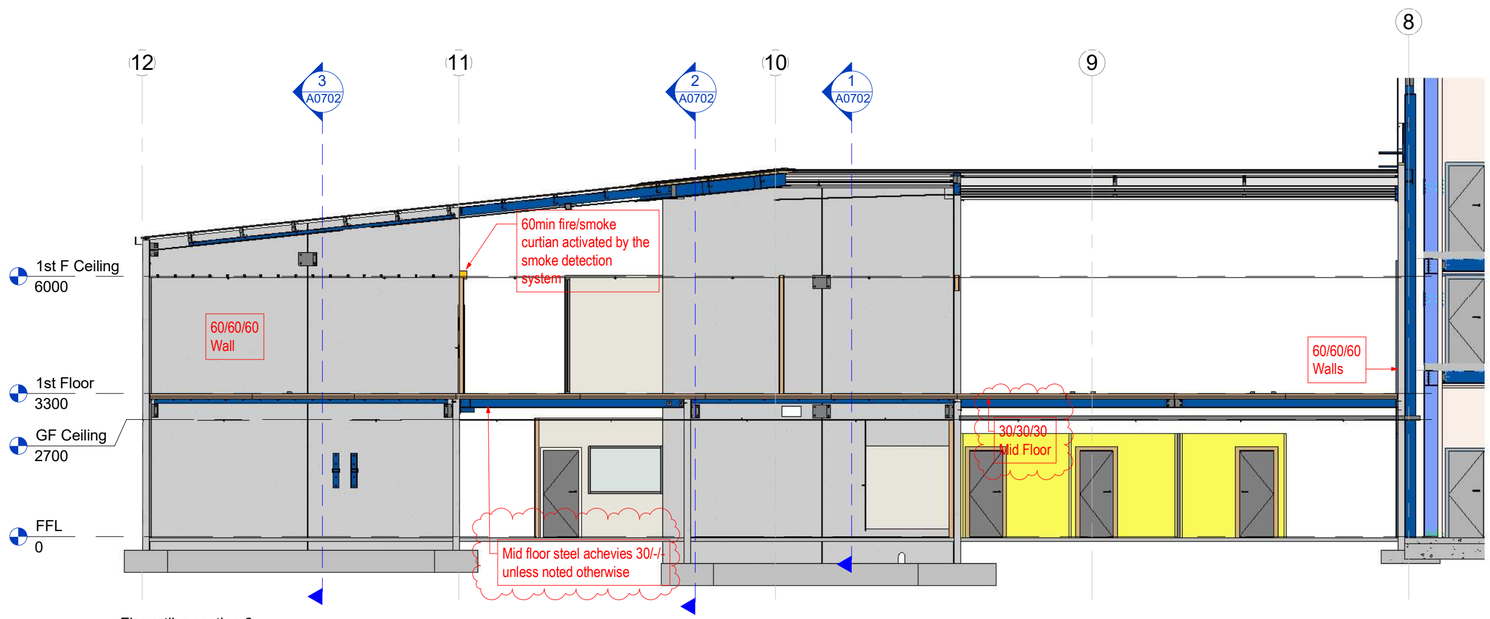
Construction Issue

SCALE	As indicated@ A2	JOB #	12413
DRAWN BY	C. White	DATE	13/05/16
APPROVED BY	A.Cloake	REV	3
Fire Rating Sections			A0702
Please note: All dimensions to be verified on site		Paper size	A2



1 Fire rating section 4
1 : 100

2 Fire rating section 5
1 : 100



3 Fire ratibg section 6
1 : 100

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Infant Formula Blending Plant Offices

9 Ashford Ave., Ashburton

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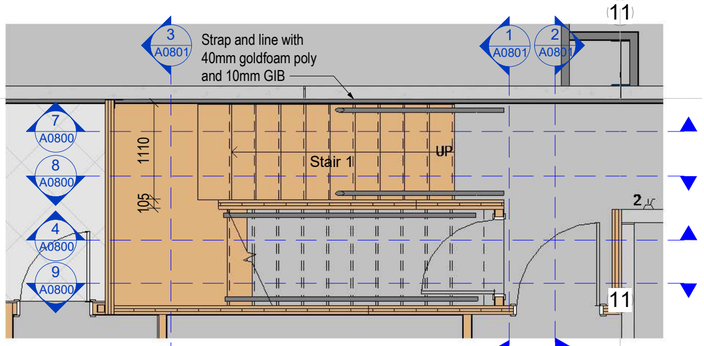
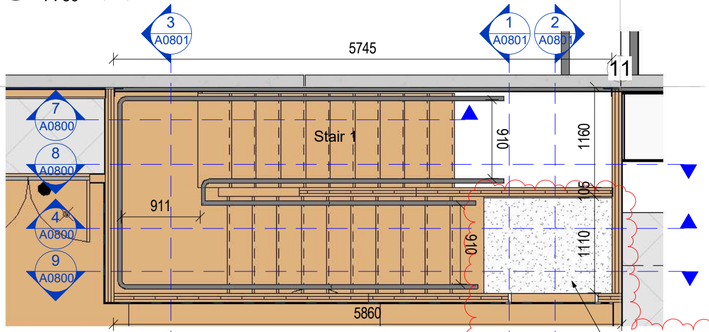
Rev#	Amendments	Date
3	Fire Rated Mid Floor Steel	20/05/16

Construction Issue

SCALE	1 : 100 @ A2	JOB #	12413
DRAWN BY	C. White	DATE	13/05/16
APPROVED BY	A.Cloake	REV	3
Fire Rating sections			A0703
Please note: All dimensions to be verified on site		Paper size	A2

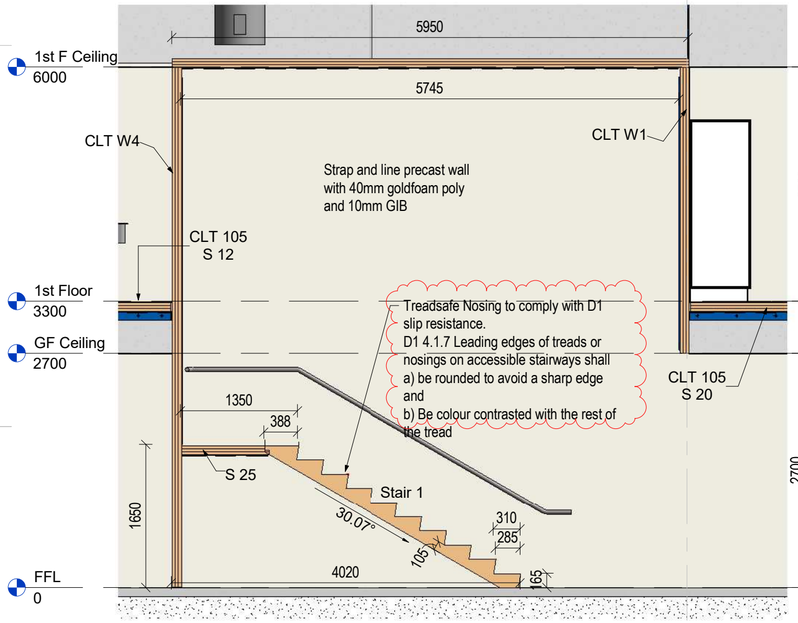


3 Stair 2
1 : 50
270

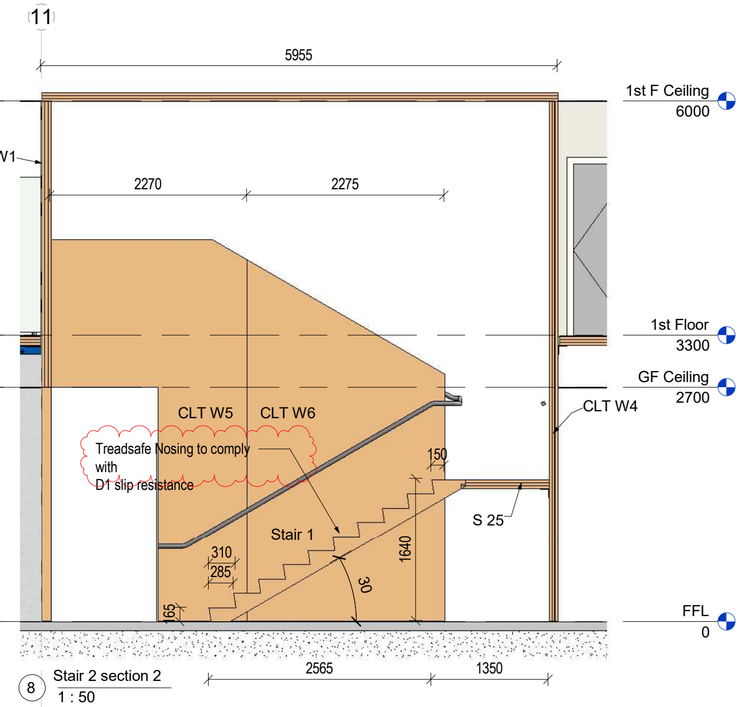


6 Stair 2 Copy 1
1 : 50

Change in texture and colour of surface (e.g, carpet tiles) to comply with NZS4121 8.5.1 Surface Treatement. A change in surface treatement with strong colour contract shall be provided at the head and foot of any internal flight of steps.

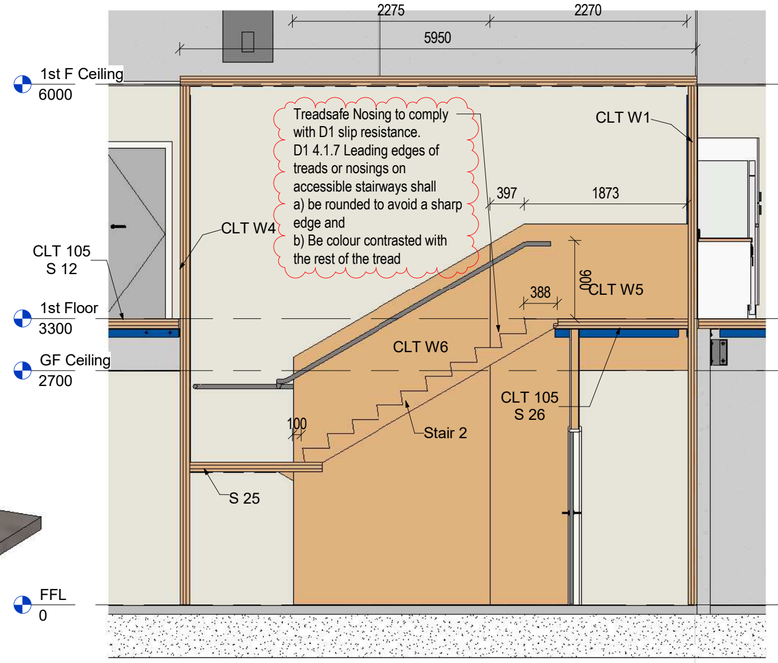


7 Stair 2 Section 1
1 : 50

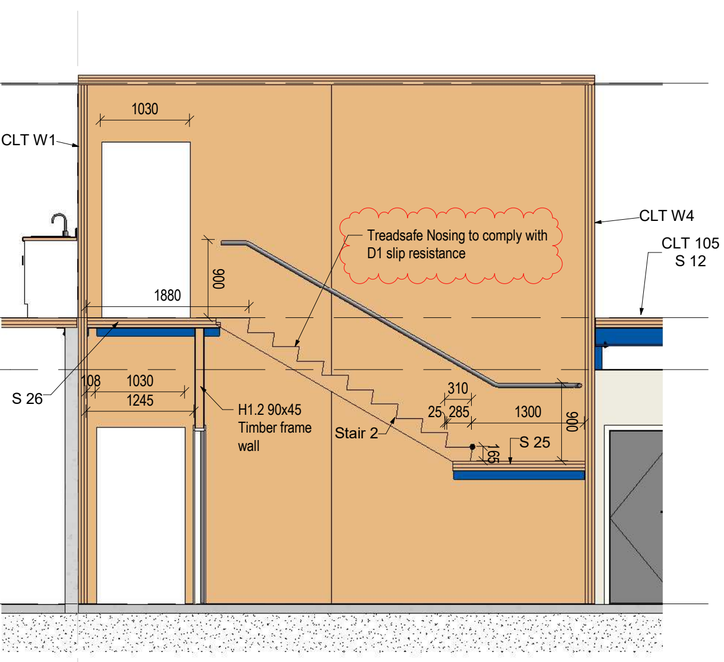


8 Stair 2 section 2
1 : 50

1 Safe path stairway



4 Stair 2 Section 3
1 : 50



9 Stair 2 section 4
1 : 50

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Infant Formula Blending Plant Offices

9 Ashford Ave., Ashburton

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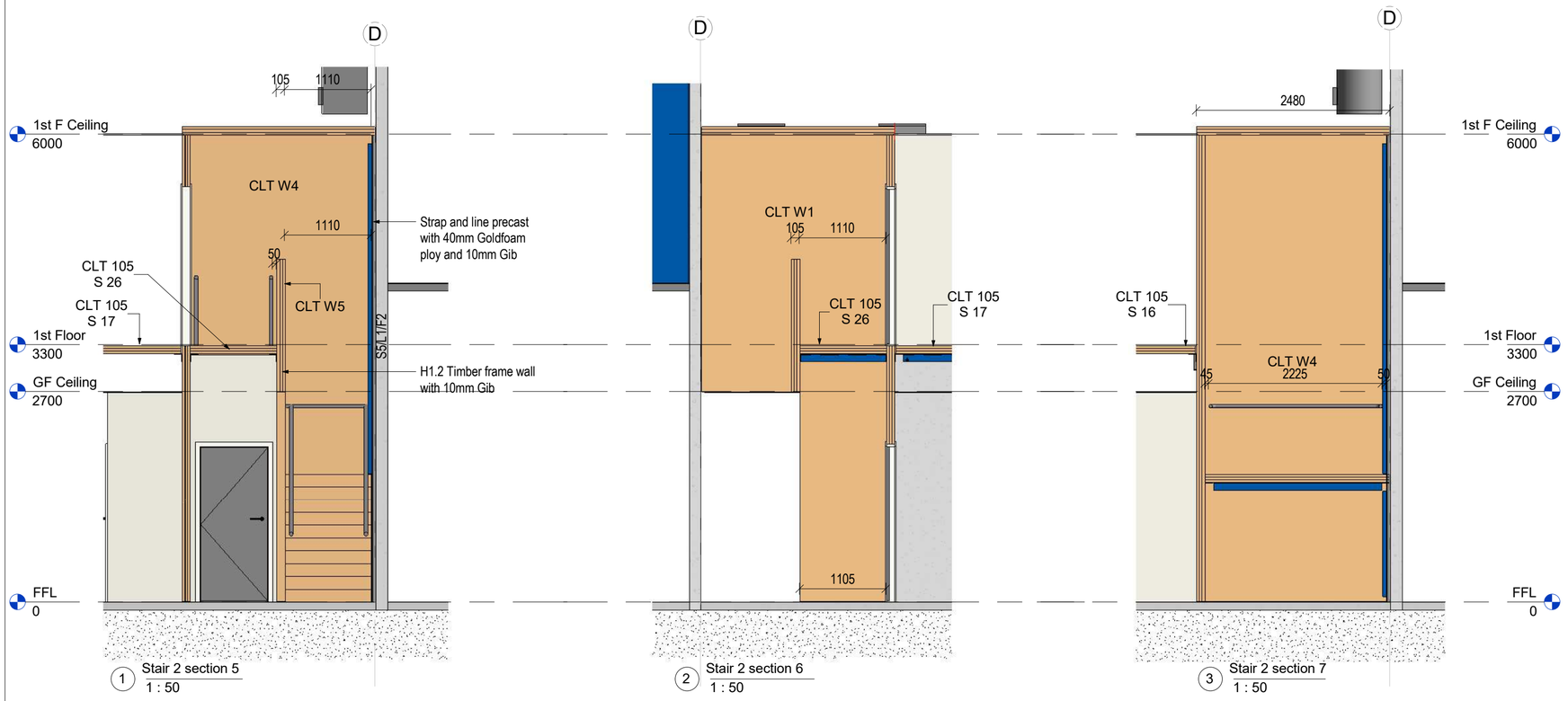
Rev#	Amendments	Date
6	Council RFI's	16/6/16

Construction Issue

SCALE	1 : 50 @ A2	JOB #	12413
DRAWN BY	C. White	DATE	13/05/16
APPROVED BY	A.Cloake	REV	6
Safe path CLT Stairs			A0800
Please note: All dimensions to be verified on site		Paper size	A2



1 Stair 2 section 5
1 : 50

2 Stair 2 section 6
1 : 50

3 Stair 2 section 7
1 : 50

Stair Schedule					
Mark	Type	Actual Number of Risers	Actual Riser Height	Actual Tread Depth	Comments
Stair 1	Monolithic CLT Stair	10	165	285	Safe path
Stair 2	Monolithic CLT Stair	10	165	285	Safe path
Stair 4	Monolithic CLT Stair Common	9	183.33	255	Foyer
Stair 3	Monolithic CLT Stair Common	9	183.33	255	Foyer

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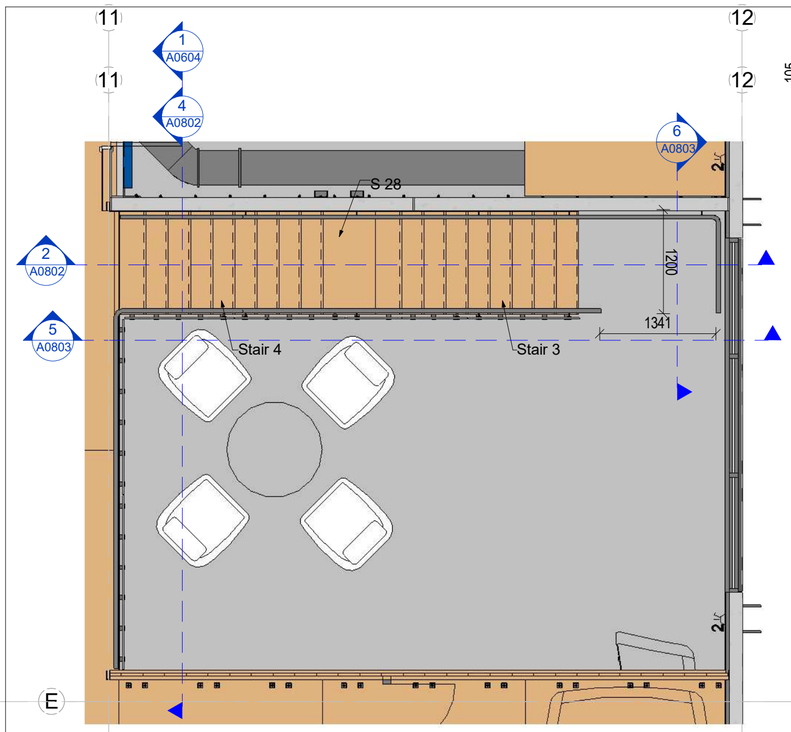
Infant Formula Blending Plant Offices

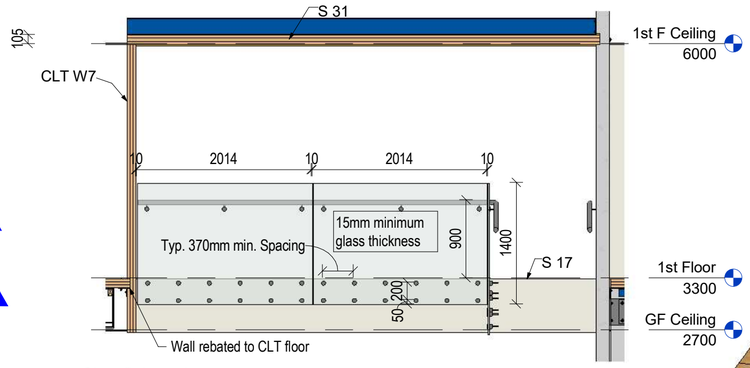
9 Ashford Ave., Ashburton

Rev#	Amendments	Date
	Construction Issue	

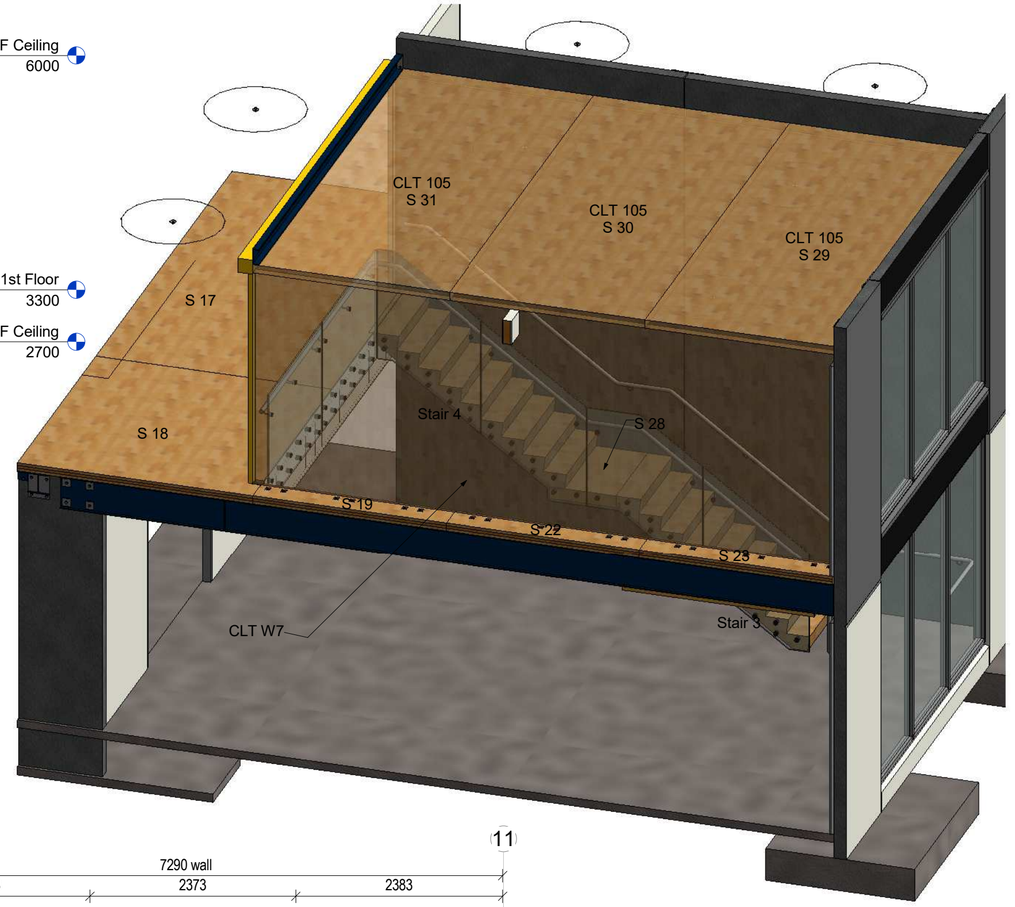
SCALE	1 : 50 @ A2	JOB #	12413
DRAWN BY	C. White	DATE	13/05/16
APPROVED BY	A.Cloake	REV	
Safe path CLT Stair sections and details			A0801
Please note: All dimensions to be verified on site		Paper size	A2

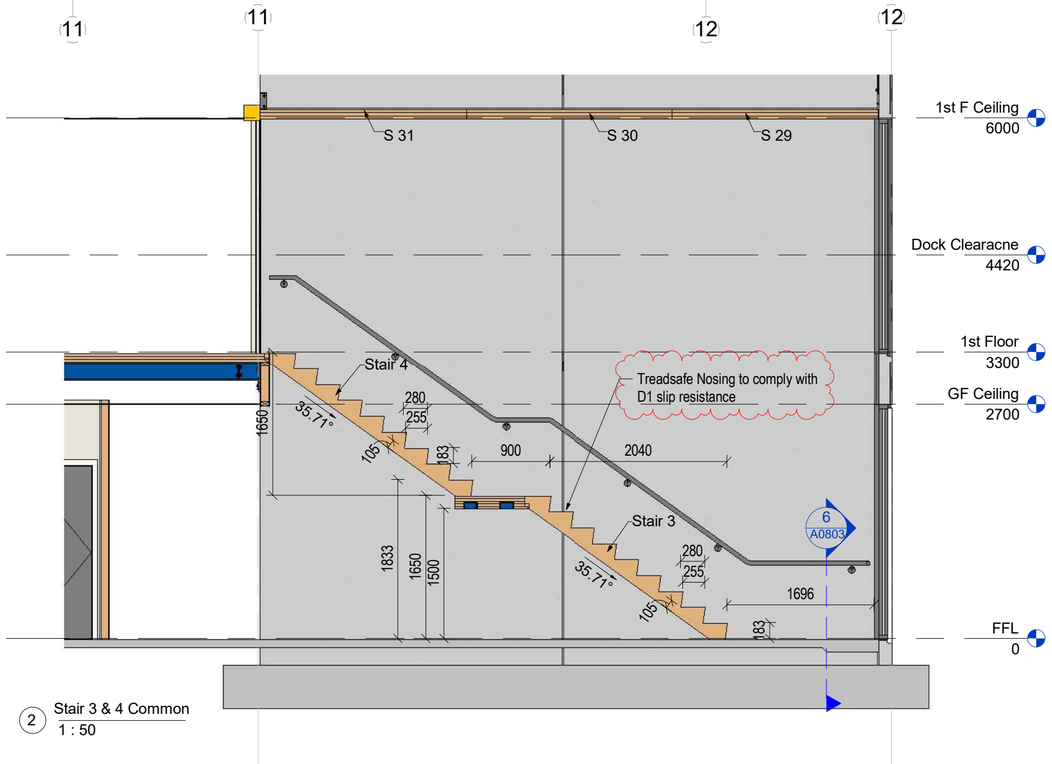


1 Stair 1
1 : 50

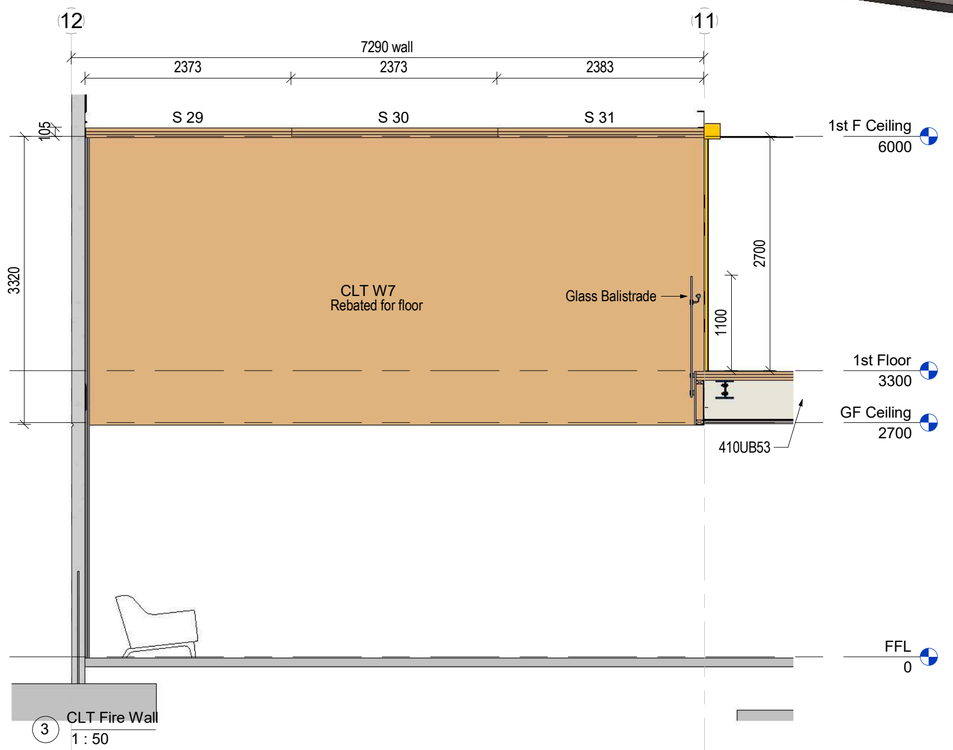


4 Glass Balustrade
1 : 50





2 Stair 3 & 4 Common
1 : 50



3 CLT Fire Wall
1 : 50

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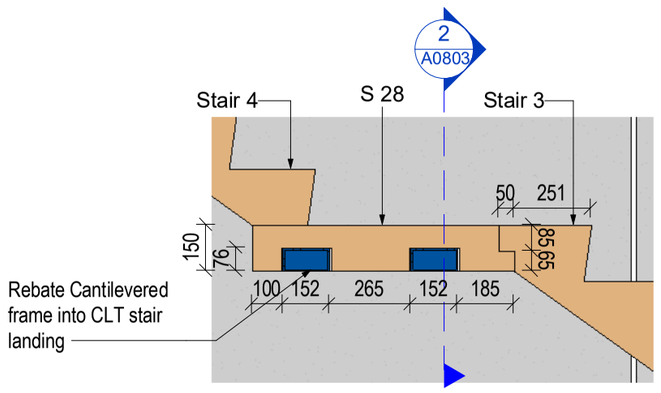
Infant Formula Blending Plant Offices
9 Ashford Ave., Ashburton

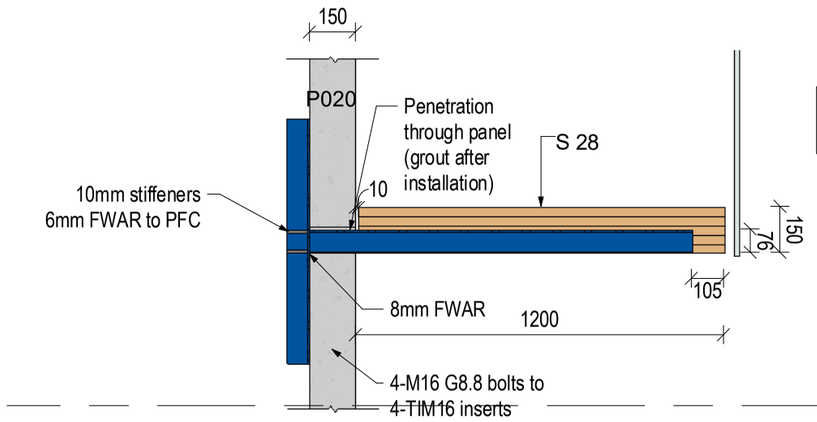
Rev#	Amendments	Date
6	Council RFI's	16/6/16

Construction Issue

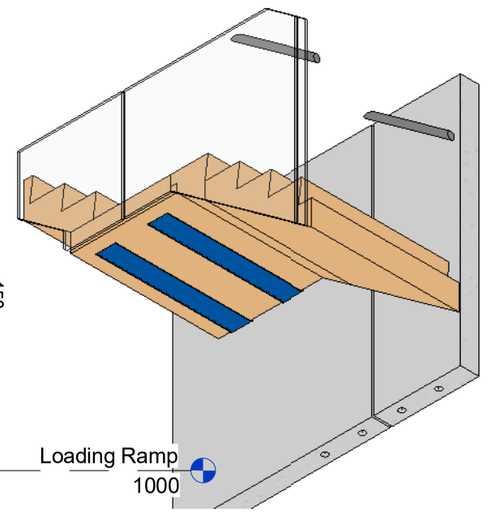
SCALE	1 : 50 @ A2	JOB #	12413
DRAWN BY	C. White	DATE	13/05/16
APPROVED BY	A.Cloake	REV	6
Foyer CLT Stairs			A0802
Please note: All dimensions to be verified on site		Paper size	A2



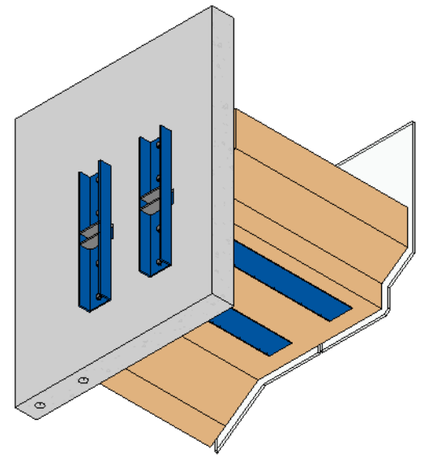
1 Common Stair 3 & 4 Cantilevered landing
1 : 20



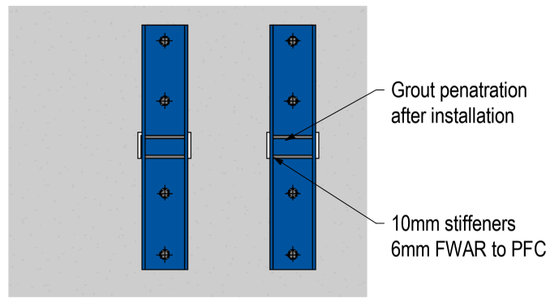
2 A0803 **SECTION** :Cantilevered Stair landing frame
1 : 20



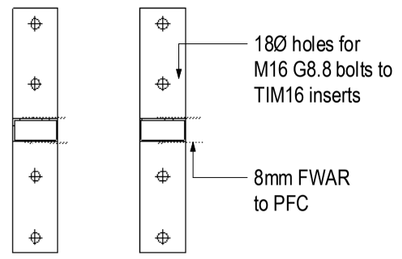
Cantilevered stair landing frame underside



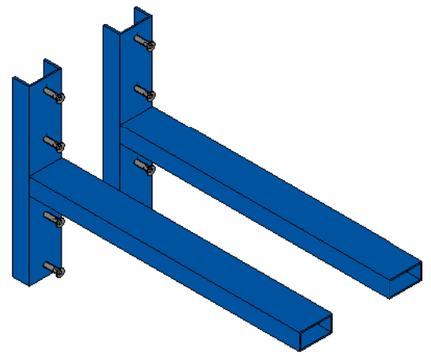
Cantilevered stair landing frame panel side



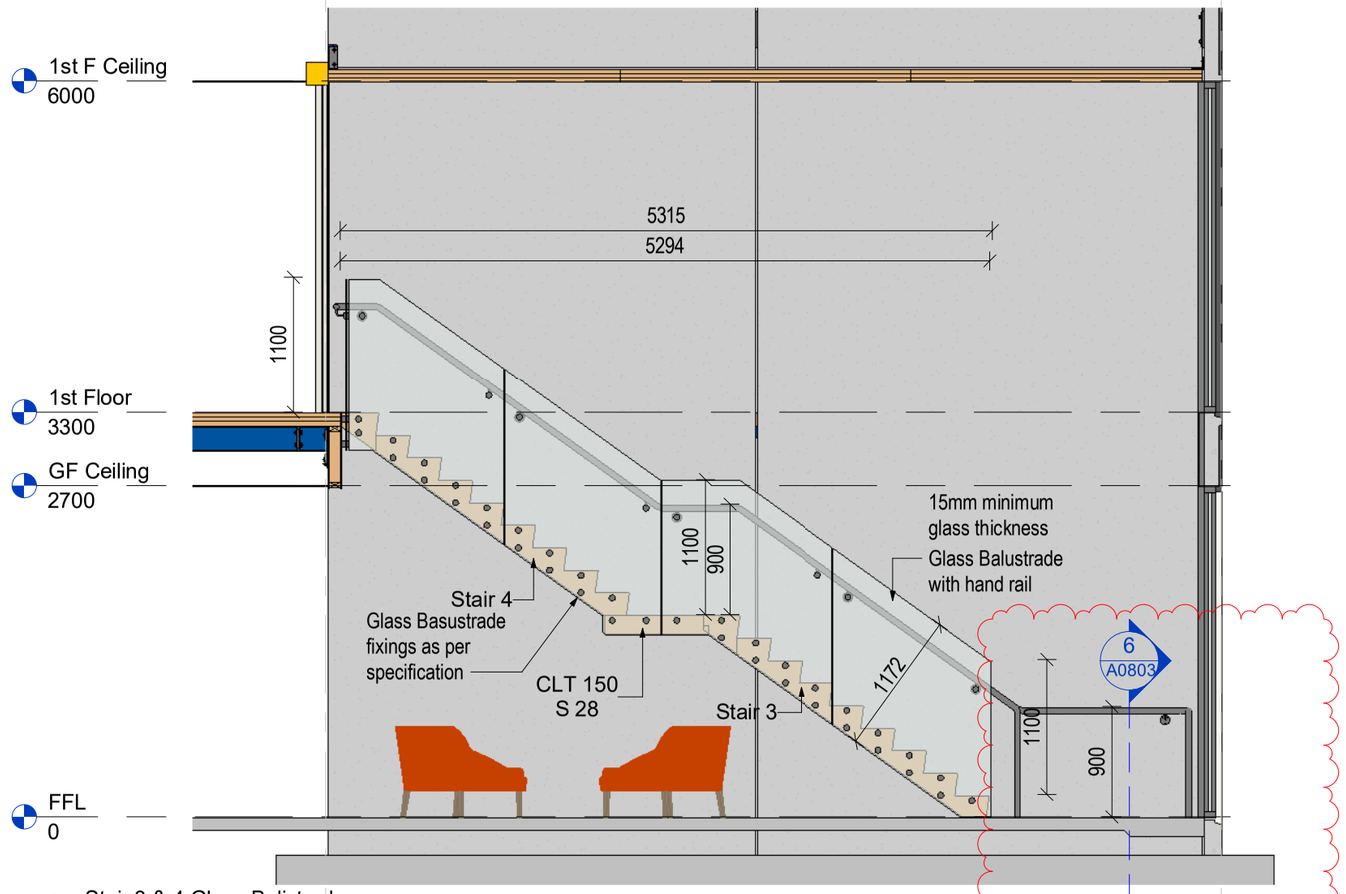
3 Cantilevered frame backing
1 : 20



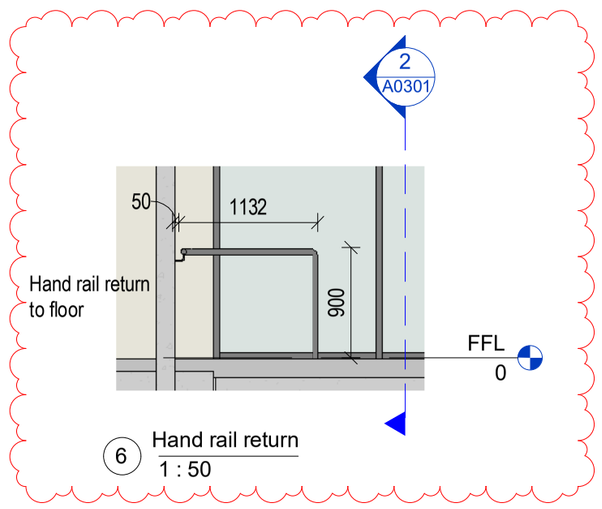
4 **DETAIL** :Cantilevered Steel frame
1 : 20



Cantilevered stair landing frame



5 Stair 3 & 4 Glass Balistrade
1 : 50



6 Hand rail return
1 : 50

3D View 3

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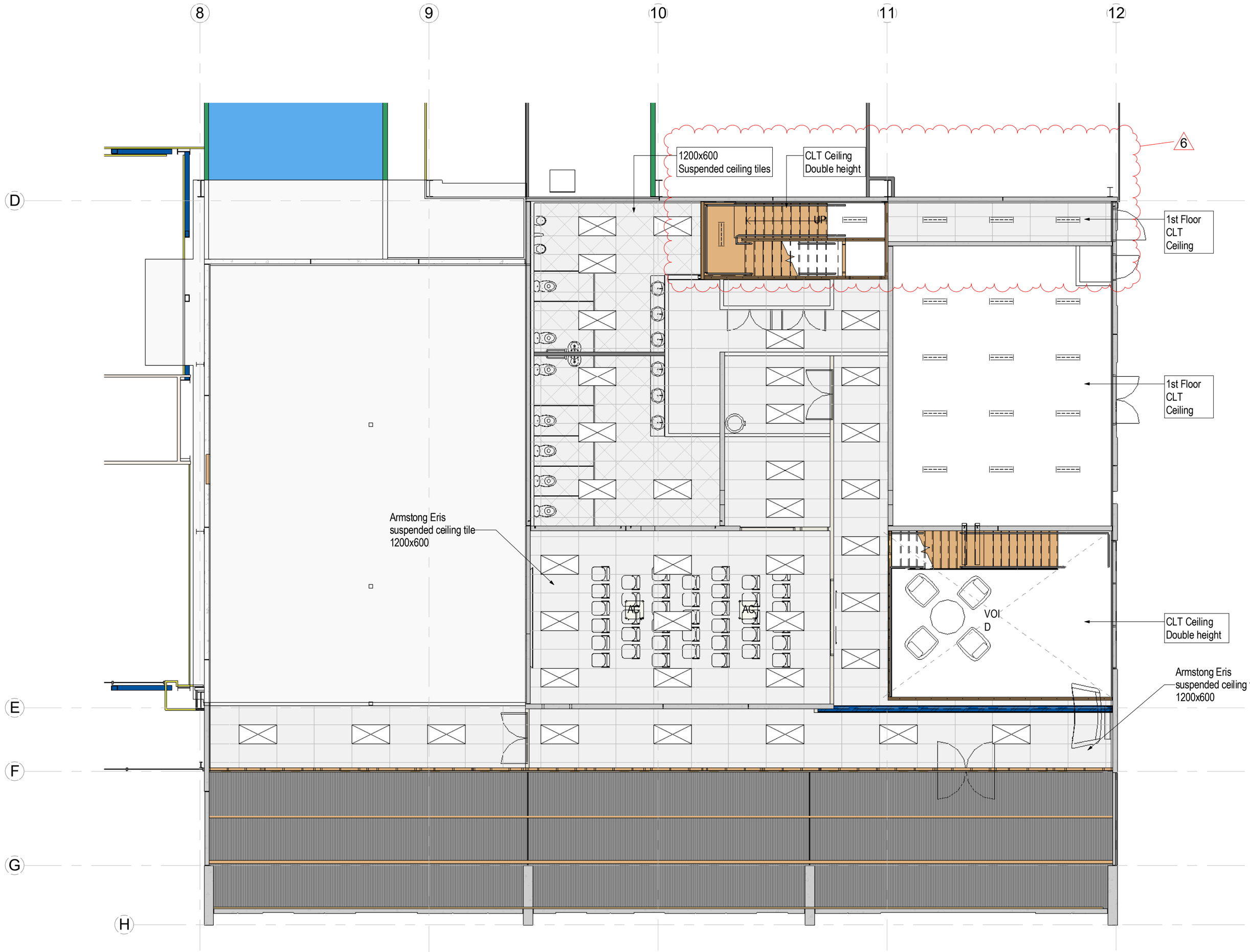
Infant Formula Blending Plant Offices

9 Ashford Ave., Ashburton

Rev#	Amendments	Date
5	Client Changes	24/05/16
	Construction Issue	

SCALE	As indicated@ A2	JOB #	12413
DRAWN BY	C. White	DATE	13/05/16
APPROVED BY	A.Cloake	REV	5
Foyer Stair and Balustrade detail			A0803
Please note: All dimensions to be verified on site		Paper size	A2



1 Ceiling Ground Floor
1 : 100

ELECTRICAL SCHEDULE

- 3 x 36w recessed troffer fitting - Thorn TP42-336B2
- 4 x 54w T5 Fitting Phillips TPS 150/4X54
- Phillips Mondella Fitting TCS 125236 bare battens
- Phillips Mondella Fitting TCS 125236 with cover
- LED Downlight
- Pendant light
- 2 way switch
- 1 way switch
- 3 double power outlet
- D 3 phase
- double power outlet & data
- External light
- Highbay Light
- EXIT sign (refer to fire report) white on green background

"similar or equivalent fittings can be offered"

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NZ Dairy Collaborative Group

Infant Formula Blending Plant Offices

9 Ashford Ave., Ashburton

Rev#	Amendments	Date
6	Council RFI's	16/6/16

Construction Issue

SCALE	1 : 100 @ A2	JOB #	12413
DRAWN BY	C. White	DATE	13/05/16
APPROVED BY	A.Cloake	REV	6
Reflected Ceiling Ground Floor			A0900
Please note: All dimensions to be verified on site		Paper size:	A2

ELECTRICAL SCHEDULE

- 3 x 36w recessed troffer fitting - Thorn TP42-336B2
- 4 x 54w T5 Fitting Phillips TPS 150/4X54
- Phillips Mondella Fitting TCS 125236 bare battens
- Phillips Mondella Fitting TCS 125236 with cover
- LED Downlight
- Pendant light
- 2 way switch
- 1 way switch
- 3 double power outlet
- D 3 phase
- double power outlet & data
- External light
- Highbay Light
- EXIT sign (refer to fire report) white on green background

"similar or equivalent fittings can be offered"

Ceiling First Floor
1 : 100

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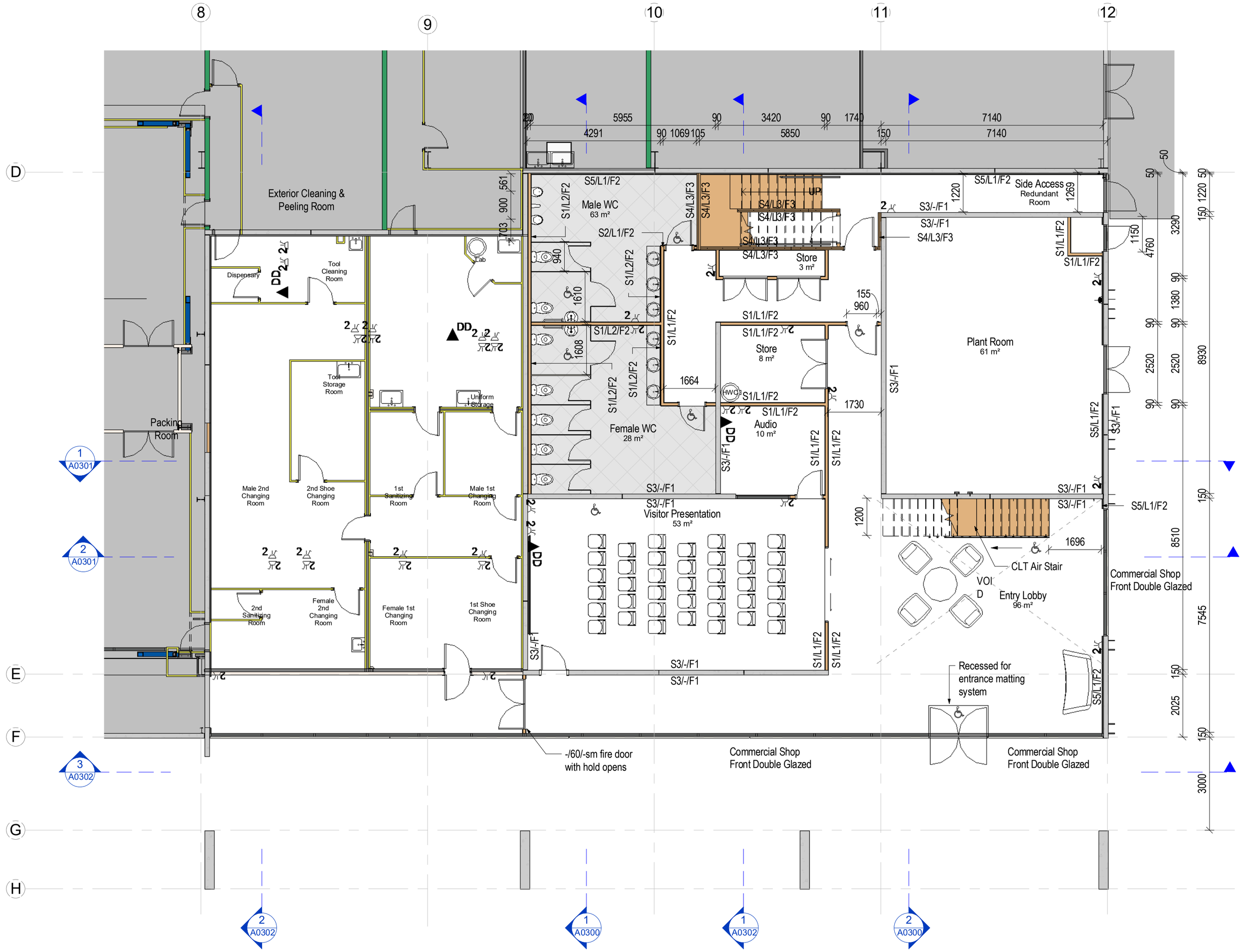
Infant Formula Blending Plant Offices

9 Ashford Ave., Ashburton

Rev#	Amendments	Date
	Construction Issue	

SCALE	1 : 100 @ A2	JOB #	12413
DRAWN BY	C. White	DATE	13/05/16
APPROVED BY	A.Cloake	REV	
Reflected Ceiling First Floor			A0901
Please note: All dimensions to be verified on site		Paper size	A2



1 Ground Floor Plan Electrical
1 : 100

ELECTRICAL & DATA KEY

- Single Phase Power Outlet (Double socket)
- Three Phase Power Outlet (Single socket)
- DD Wall Mounted Data Socket (Double data sockets)
- (J) Floor Mounted Junction Box (Single Phase power and data sockets)

"positions are not indicative and subject to site placement by client"

Electrical Fixture Schedule Ground Floor	
Type	Count
Std 3 Phase	1
Std Single Phase	34

Data Device Schedule Ground Floor	
Type	Count
Data Double	4

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Infant Formula Blending Plant Offices

9 Ashford Ave., Ashburton

Rev#	Amendments	Date
	Construction Issue	

SCALE	1 : 100 @ A2	JOB #	12413
DRAWN BY	B.Holloway	DATE	13/05/16
APPROVED BY	A.Cloake	REV	
Electrical Data Ground Floor			A1000
Please note: All dimensions to be verified on site		Paper size	A2

1 First Floor Plan Electrical
1 : 100

ELECTRICAL & DATA KEY

- Single Phase Power Outlet (Double socket)
- Three Phase Power Outlet (Single socket)
- DD Wall Mounted Data Socket (Double data sockets)
- J Floor Mounted Junction Box (Single Phase power and data sockets)

"positions are not indicative and subject to site placement by client"

Electrical Fixture Schedule First Floor	
Type	Count
Std Single Phase	40

Data Device Schedule First Floor	
Family and Type	Count
Data Outlet: Data Double	12
Junction Boxes - Data: Data & Power	25

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Infant Formula Blending Plant Offices

9 Ashford Ave., Ashburton

Rev#	Amendments	Date
	Construction Issue	

SCALE	1 : 100 @ A2	JOB #	12413
DRAWN BY	B.Holloway	DATE	13/05/16
APPROVED BY	A.Cloake	REV	
Electrical Data Level 1			A1001
Please note: All dimensions to be verified on site		Paper size	A2

Mechanical Equipment GF		
Mark	Type	Comments
7	Westaflex Inline Fan (with smoke detection)	Plant Room
20	Hitachi RCI2.5 FSN3 6.3kw Cassette	Presentation Room
21	Hitachi RCI2.5 FSN3 6.3kw Cassette	Presentation Room
2	Hitachi RAS-50YHA	Entry

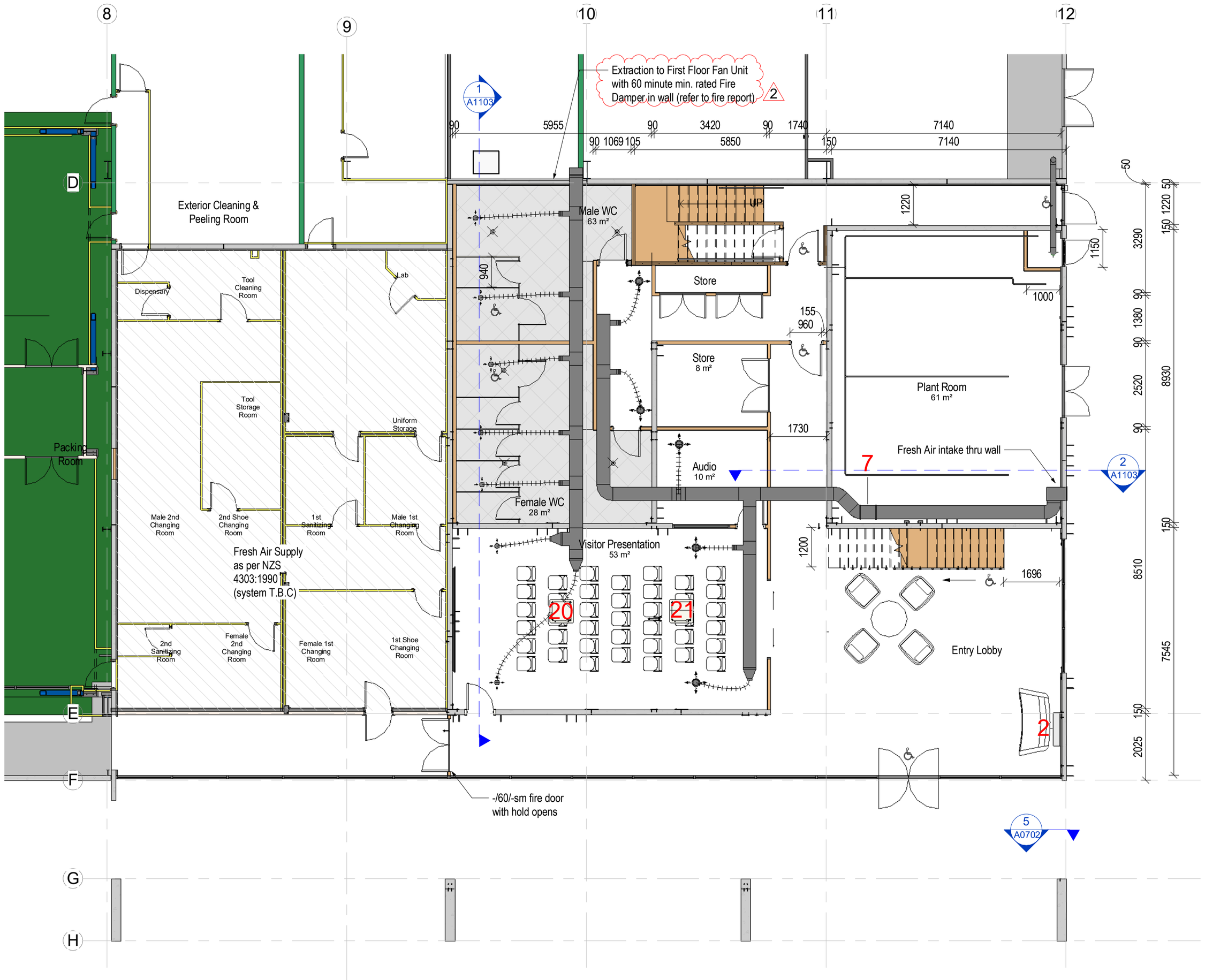
HVAC Key

- Fresh Air Diffuser (supply)
- Foul Air Vent (extraction)
- Wall Mounted Heat Pump
- Ceiling Mounted Cassette Heat Pump

All Outdoor Fresh Air Requirements are relative to the use of the space as per Table 2.1 NZS 4303:1990.

"positions are not indicative and subject to site placement by client"

4



1 Ground Floor Plan HVAC
1 : 100

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Arch

NZ Dairy Collaborative Group

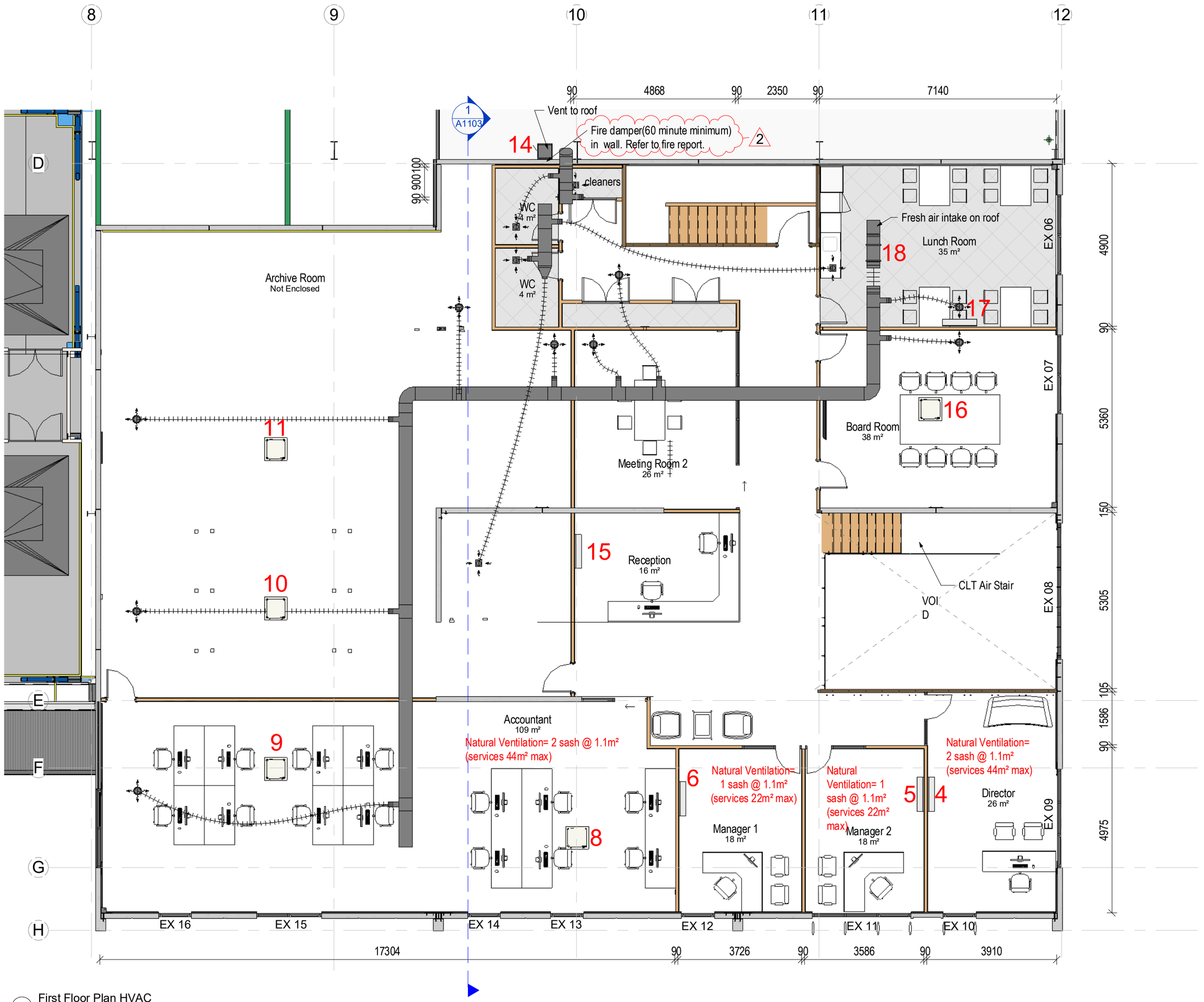
Infant Formula Blending Plant Offices

9 Ashford Ave., Ashburton

Rev#	Amendments	Date
2	Changes at Fire Eng request	19/05/16
4	Updated HVAC design	23/05/16

Construction Issue

SCALE	1 : 100 @ A2	JOB #	12413
DRAWN BY	B. Holloway	DATE	13/05/16
APPROVED BY	A.Cloake	REV	4
Mechanical Ground Floor			A1100
Please note: All dimensions to be verified on site		Paper size	A2



1 First Floor Plan HVAC
1 : 100

Mechanical Equipment 1st Floor		
Mark	Type	Comments
4	Hitachi RAS 35YHA4 4.5kw HP	Director
5	Hitachi RAS 25YHA4 3.4kw HP	Manager 2
6	Hitachi RAS 25YHA4 3.4kw HP	Manager 1
8	Hitachi RCI3.0 FSN3 8.0kW Cassette	Accountant
9	Hitachi RCI3.0 FSN3 8.0kW Cassette	Open Plan Office
10	Hitachi RCI3.0 FSN3 8.0kW Cassette	Open Plan Office
11	Hitachi RCI3.0 FSN3 8.0kW Cassette	Open Plan Office
14	Fantech In Line Fan (with smoke detection)	Toilet Extract(In WH)
15	Hitachi RAS 35YHA4 4.5kw HP	Reception
16	Hitachi RCI2.5 FSN3 6.3kw Cassette	Board Room
17	Hitachi RAS-50YHA	Lunch Room
18	Westaflex Inline Centrifugal Fan (with smoke detection)	Fresh Air supply (Lunch Room)

HVAC Key

- Fresh Air Diffuser (supply)
- Foul Air Vent (extraction)
- Wall Mounted Heat Pump
- Ceiling Mounted Cassette Heat Pump

All Outdoor Fresh Air Requirements are relative to the use of the space as per Table 2.1 NZS 4303:1990.

"positions are not indicative and subject to site placement by client"

4

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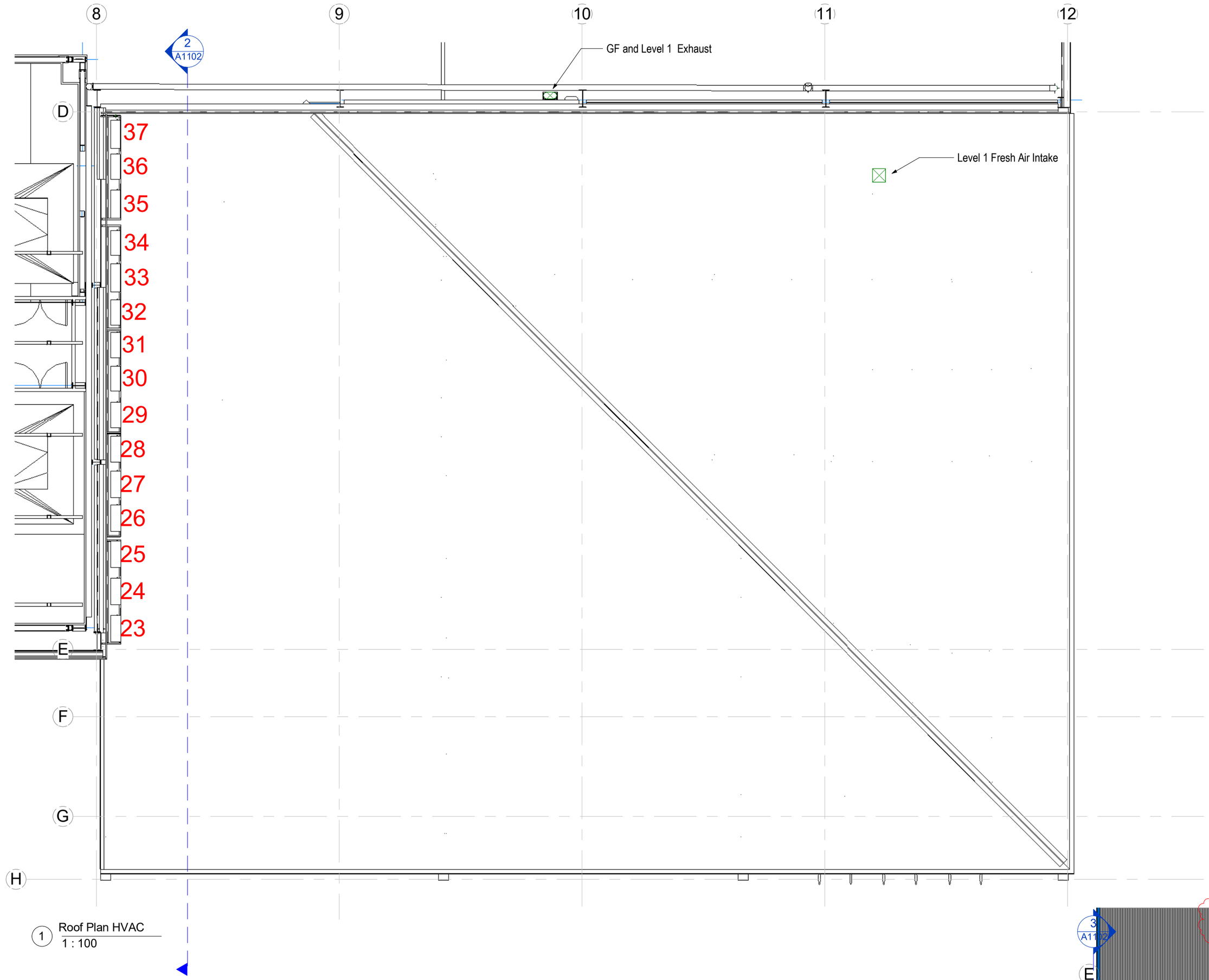
Infant Formula Blending Plant Offices

9 Ashford Ave., Ashburton

Rev#	Amendments	Date
2	Changes at Fire Eng request	19/05/16
4	Updated HVAC design	23/05/16

Construction Issue

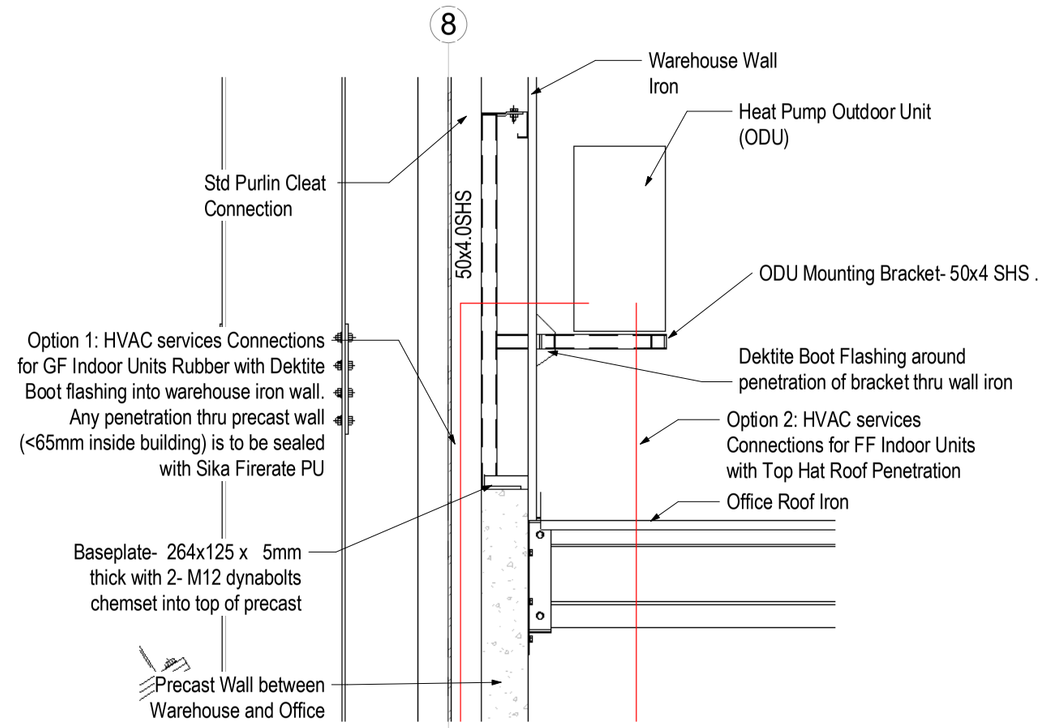
SCALE	1 : 100 @ A2	JOB #	12413
DRAWN BY	B. Holloway	DATE	13/05/16
APPROVED BY	A.Cloake	REV	4
Mechanical Level 1			A1101
Please note: All dimensions to be verified on site		Paper size:	A2



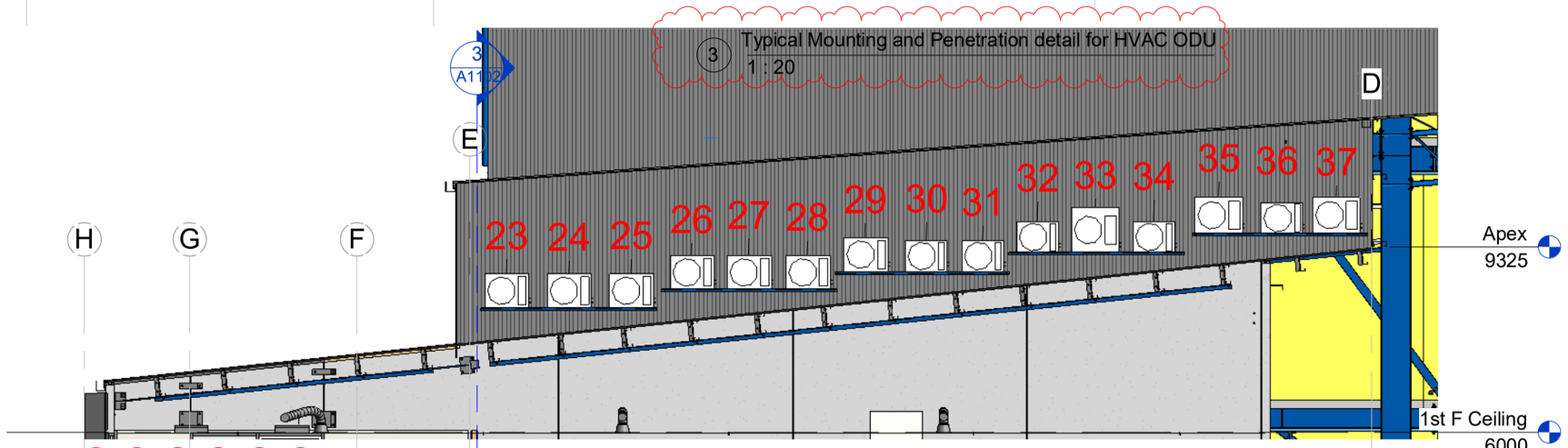
1 Roof Plan HVAC
1 : 100

Mechanical Equipment Roof		
Mark	Type	Comments
23	Hitachi RAS 2.5HVNP	Presentation Room
24	Hitachi RAS 2.5HVNP	Presentation Room
25	Hitachi RAS 3HVNC	L1 Open Plan Office
26	Hitachi RAS 3HVNC	L1 Open Plan Office
27	Hitachi RAS 3HVNC	L1 Open Plan Office
28	Hitachi RAS 2.5HVNP	Board Room
29	Hitachi RAS 3HVNC	Accountant
30	Hitachi RAC-25YHA3	Manager 1
31	Hitachi RAC-25YHA3	Manager 2
32	Hitachi RAC-35YHA3	L1 Director
33	Hitachi RAC-80YHA3	Meeting Room 1
34	Hitachi RAC-35YHA3	Meeting Room 2
35	Hitachi RAC-50YHA3	Lunch Room
36	Hitachi RAC-35YHA3	Reception
37	Hitachi RAC-50YHA3	Entry

4



3 Typical Mounting and Penetration detail for HVAC ODU
1 : 20



2 Outdoor Units
1 : 100

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Infant Formula Blending Plant Offices

9 Ashford Ave., Ashburton

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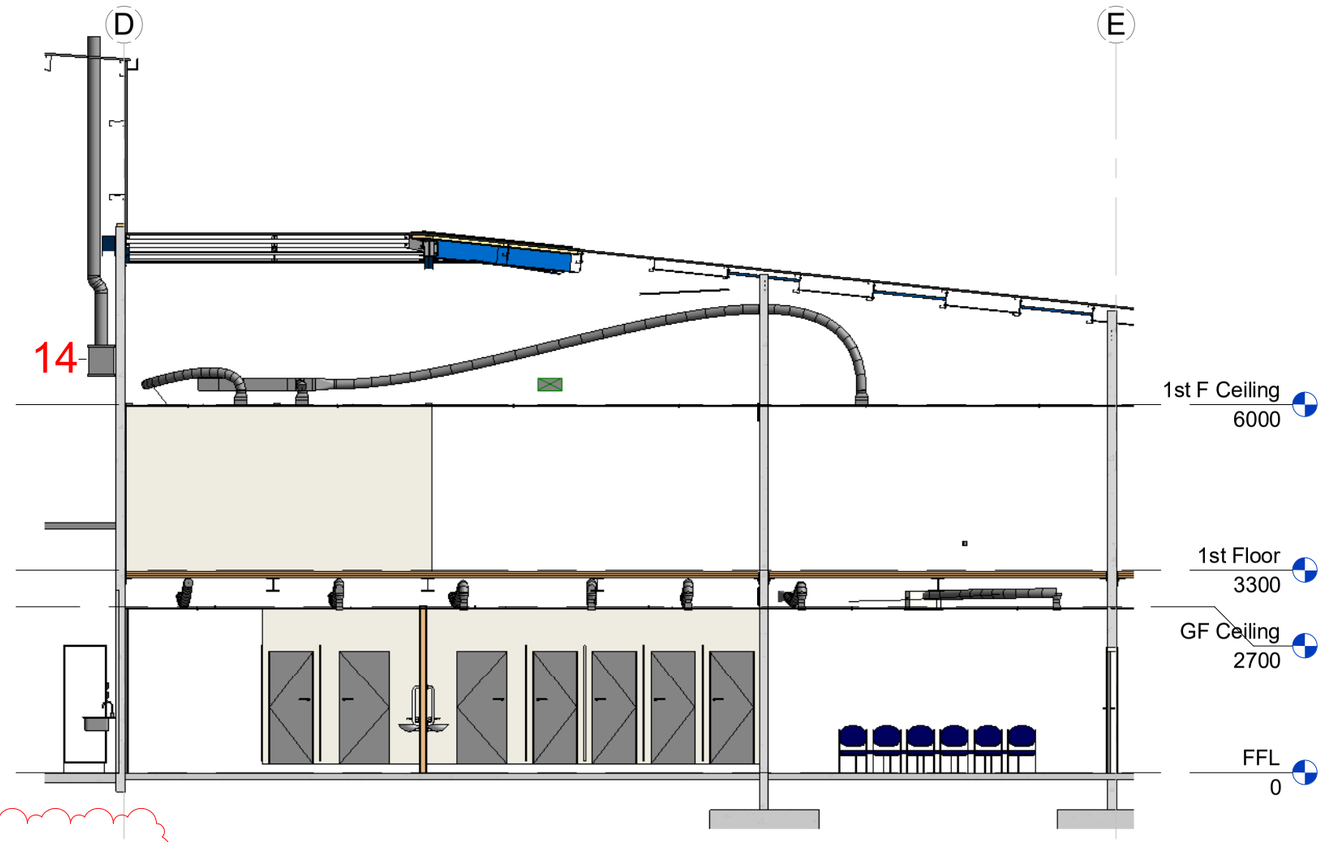
Rev#	Amendments	Date
4	Updated HVAC design	23/05/16
6	Council RFI's	16/6/16

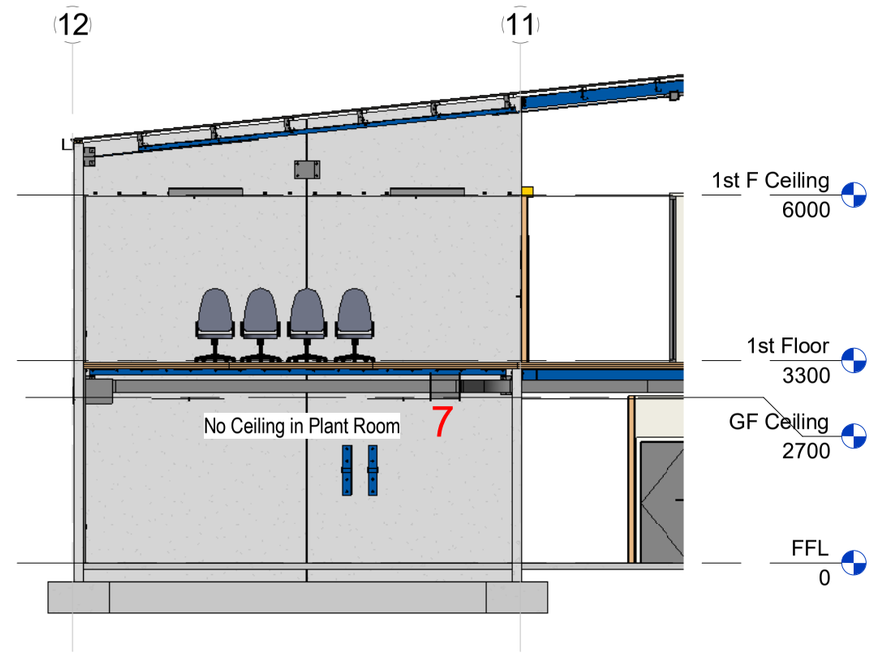
Construction Issue

SCALE	As indicated@ A2	JOB #	12413
DRAWN BY	B. Holloway	DATE	13/05/16
APPROVED BY	A.Cloake	REV	6
Mechanical Roof Plan			A1102
Please note: All dimensions to be verified on site		Paper size	A2



1 Air Extraction
1 : 100

4



2 Fresh Air Fan in Plant Room
1 : 100

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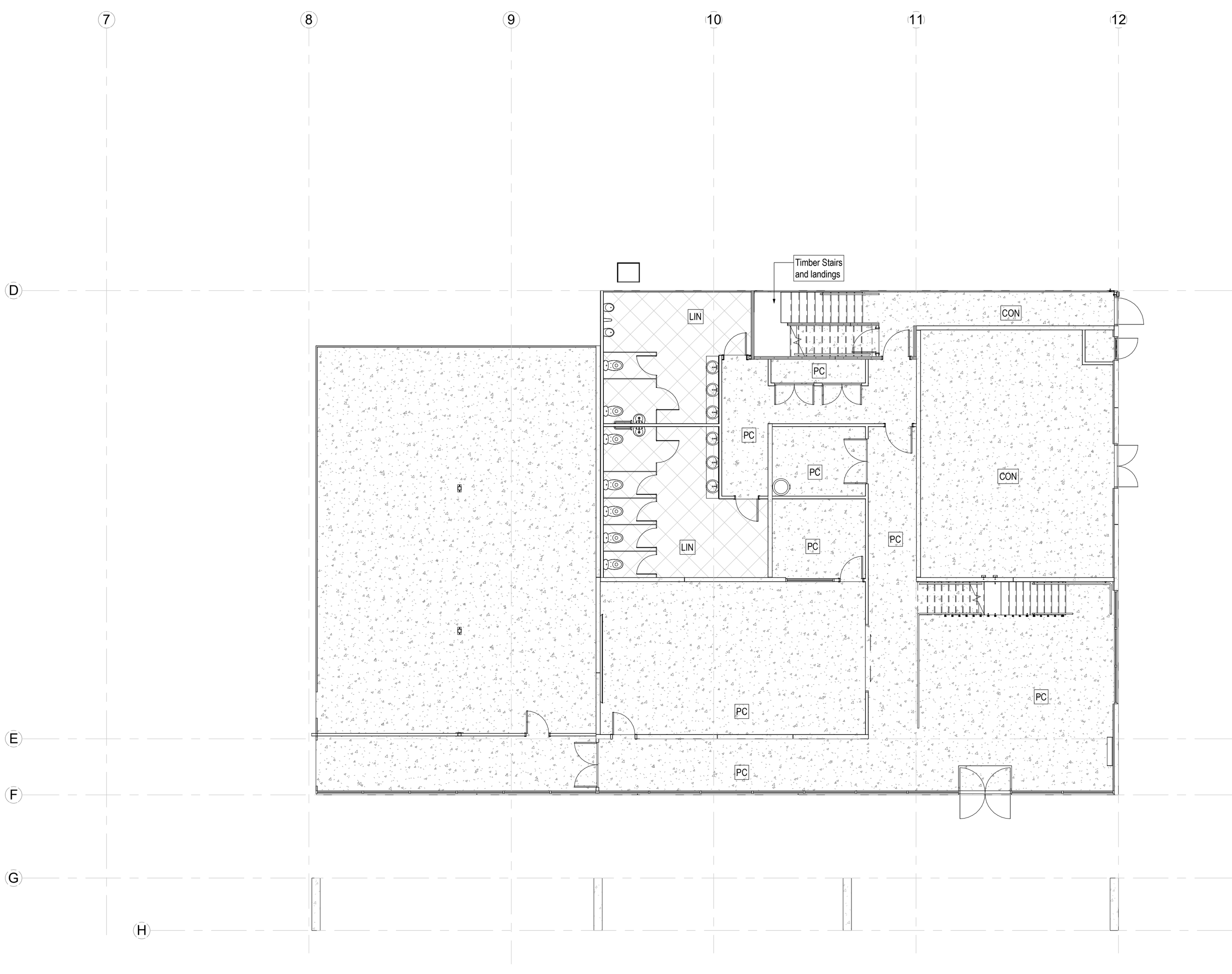
Infant Formula Blending Plant Offices

9 Ashford Ave., Ashburton

Rev#	Amendments	Date
4	Updated HVAC design	23/05/16

Construction Issue

SCALE	1 : 100 @ A2	JOB #	12413
DRAWN BY	B. Holloway	DATE	13/05/16
APPROVED BY	A.Cloake	REV	4
HVAC Sections			A1103
Please note: All dimensions to be verified on site		Paper size	A2



FLOOR COVERINGS

- Concrete PC = Polished CON = Power float finish
- Carpet (commercial)
- Linoeum - commercial (non slip in wet areas)
- Timber CLT Flooring

Flooring Schedule

Level	Type	Area
FFL	Linoleum	50 m²
1st Floor	Linoleum	48 m²

1 Plumbing Ground Floor Copy 1
1 : 100

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Infant Formula Blending Plant Offices

9 Ashford Ave., Ashburton

Rev#	Amendments	Date
	Construction Issue	

SCALE	As indicated@ A2	JOB #	12413
DRAWN BY	C. White	DATE	13/05/16
APPROVED BY	A.Cloake	REV	
Floor Coverings Ground Floor			A1200
Please note: All dimensions to be verified on site		Paper size:	A2

1 Plumbing First Floor Copy 1
1 : 100

FLOOR COVERINGS

- Concrete PC = Polished CON = Power float finish
- Carpet (commercial)
- Linoeum - commercial (non slip in wet areas)
- Timber CLT Flooring

Flooring Schedule

Level	Type	Area
FFL	Linoleum	50 m²
1st Floor	Linoleum	48 m²

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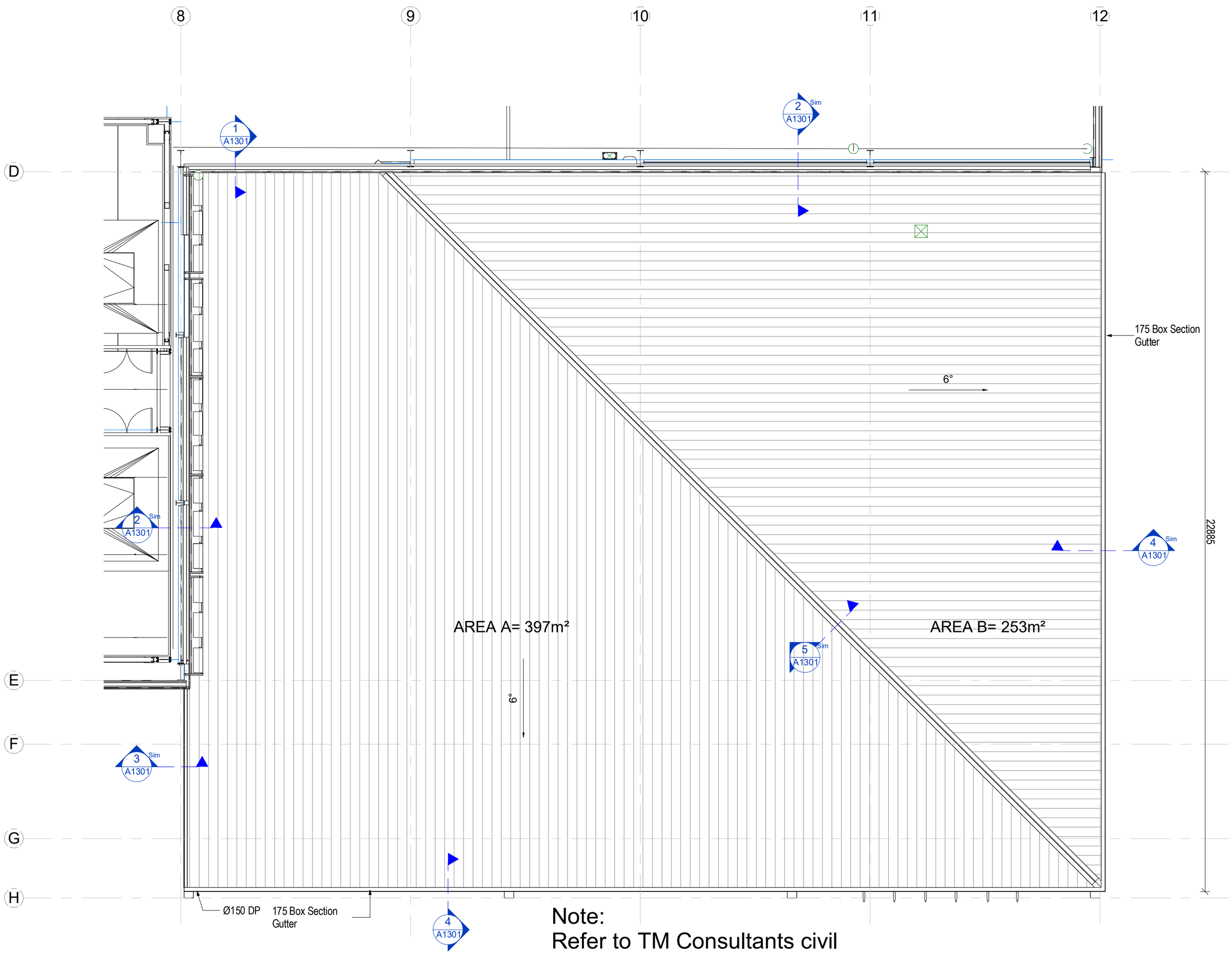
Infant Formula Blending Plant Offices

9 Ashford Ave., Ashburton

Rev#	Amendments	Date
5	Client Changes	24/05/16

Construction Issue

SCALE	As indicated@ A2	JOB #	12413
DRAWN BY	C. White	DATE	13/05/16
APPROVED BY	A.Cloake	REV	5
Floor Coverings First Floor			A1201
Please note: All dimensions to be verified on site		Paper size:	A2



Note:
Refer to TM Consultants civil plans for exact locations of DP's and drainage

Roof Plan
1 : 100

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 = 650m²
area A = 397m² - 1 x 150 Ø DP's
area B = 253m² - 1 x 150 Ø DP's
area 3 = _____m² - ___ x ___ Ø DP's
area 4 = _____m² - ___ x ___ Ø DP's

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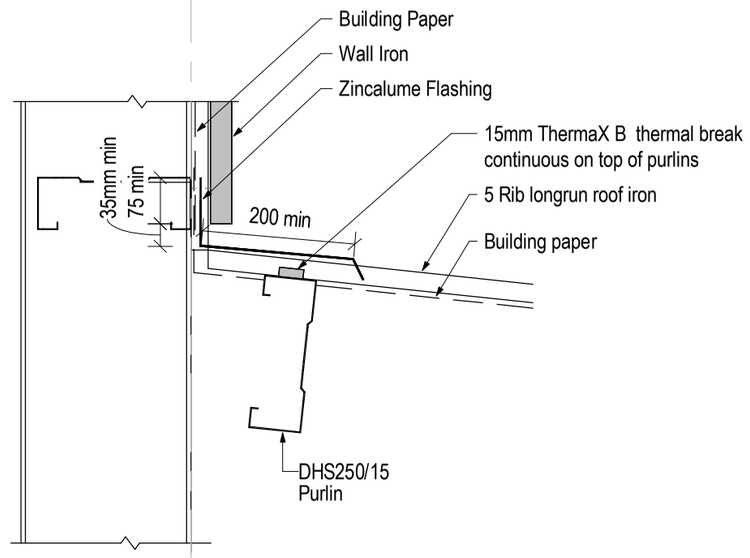
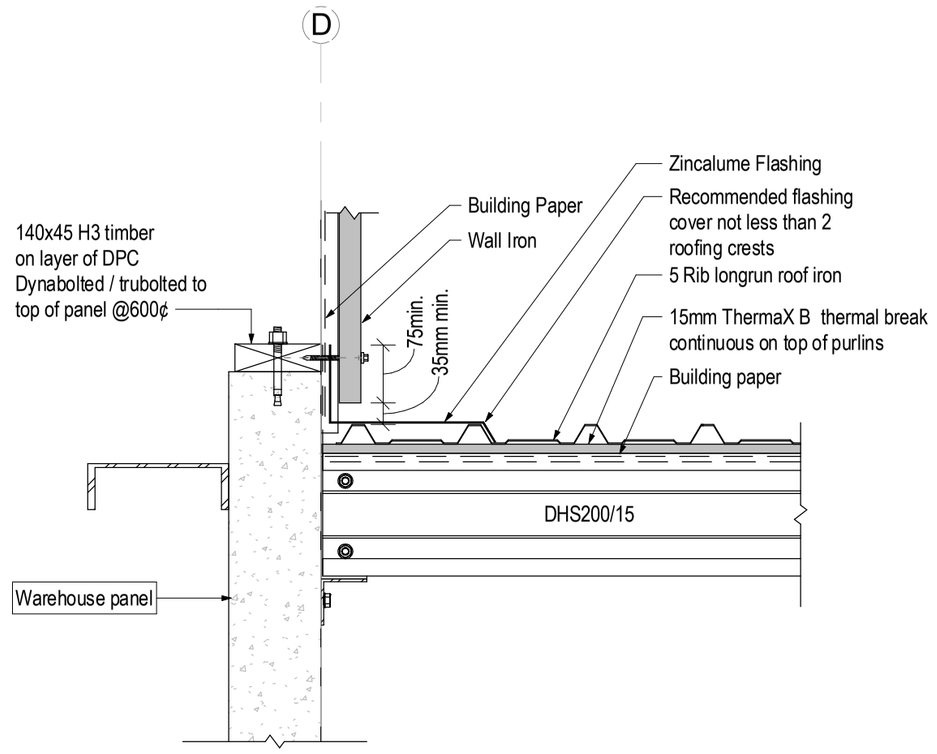
Rev#	Amendments	Date
	Construction Issue	

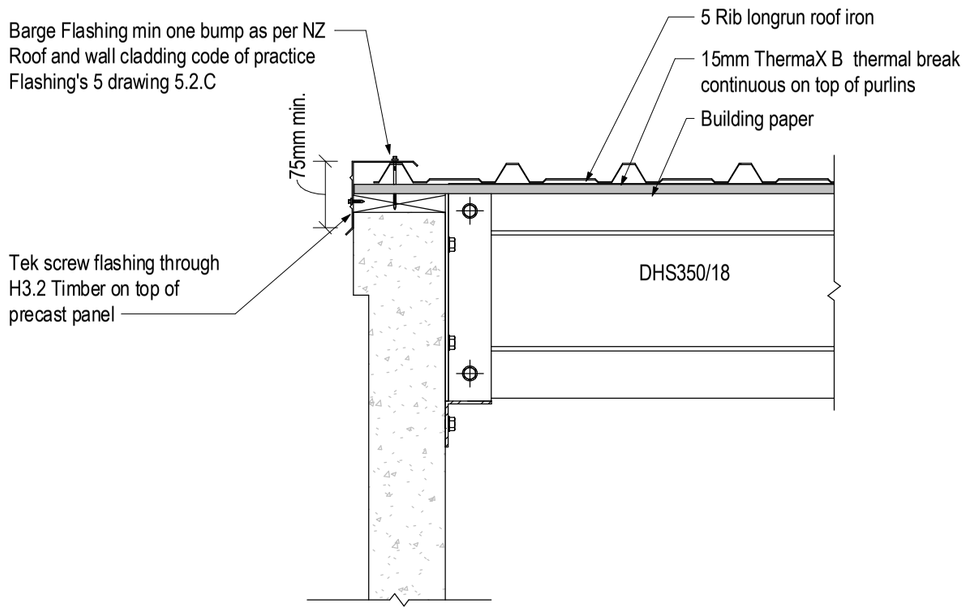
SCALE 1 : 100 @ A2		JOB # 12413	
DRAWN BY C. White		DATE 13/05/16	
APPROVED BY A.Cloake		REV	
Roof Plan		A1300	
Please note: All dimensions to be verified on site		Paper size: A2	



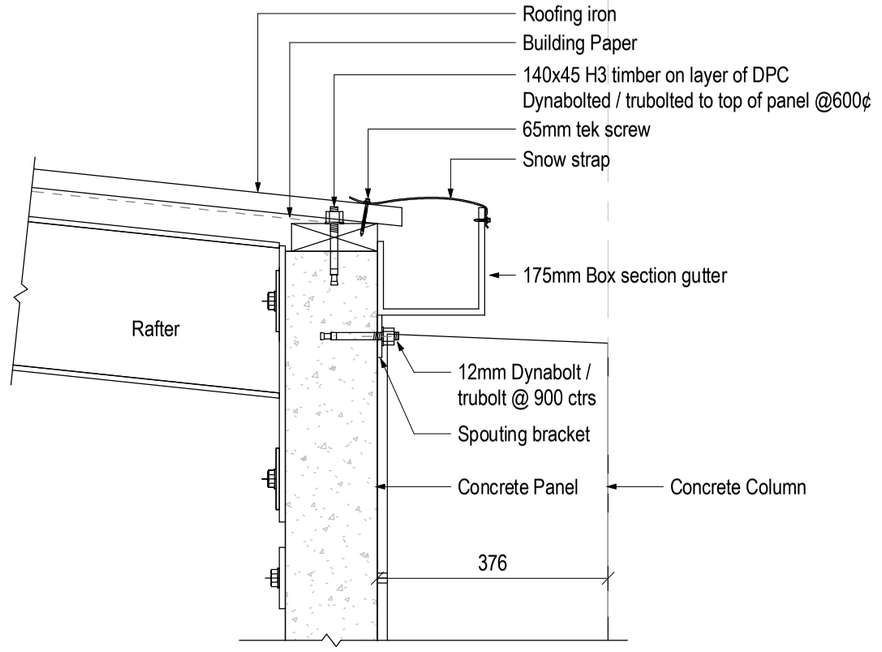
1 A0302 **SECTION** :Apron Flashing 1
1 : 10



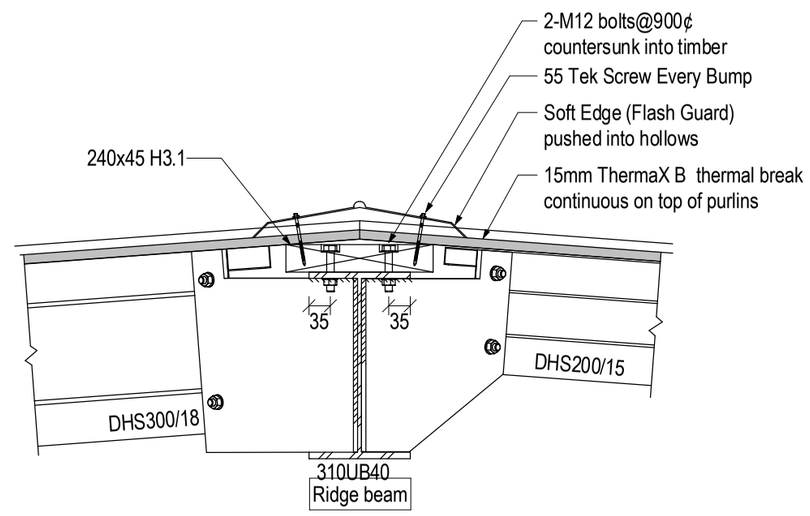
2 A1300 **SECTION** :Apron Flashing 2
1 : 10



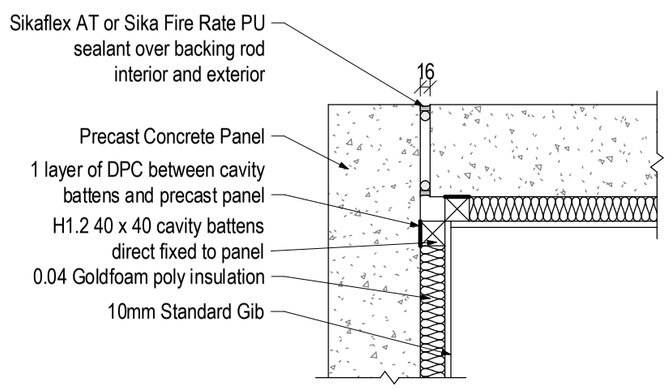
3 A0300 **SECTION** :Ridge Flashing to Precast
1 : 10



4 A1300 **SECTION** :External gutter
1 : 10



5 A1300 **PLAN** :Ridge Flashing detail
1 : 10



External Corner Precast Detail
1 : 10

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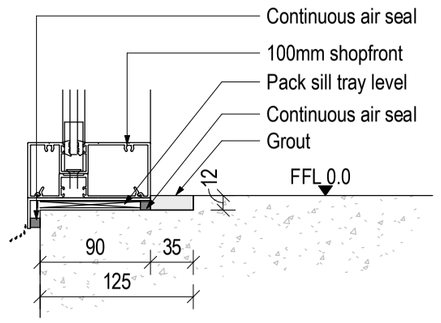
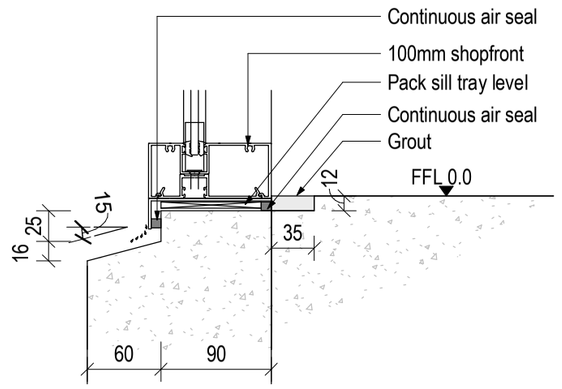
Rev#	Amendments	Date
	Construction Issue	

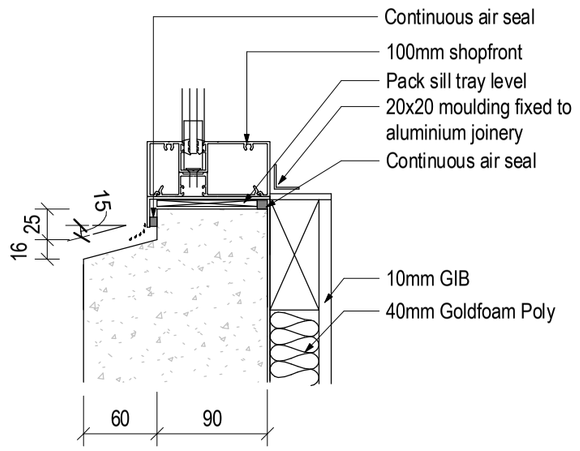
SCALE	1 : 10 @ A2	JOB #	12413
DRAWN BY	C. White	DATE	13/05/16
APPROVED BY	A.Cloake	REV	
Roof Flashing Details			A1301
Please note: All dimensions to be verified on site		Paper size:	A2



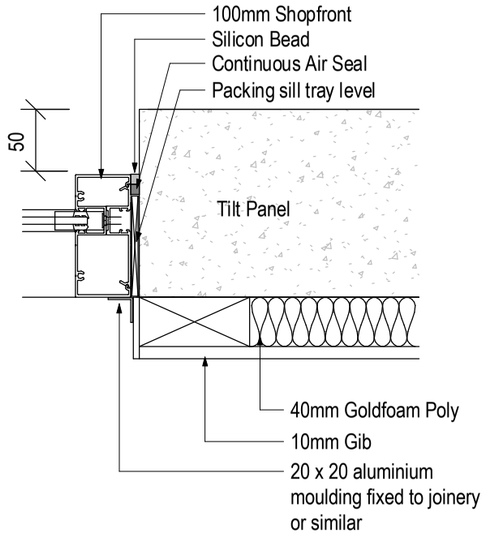
COMMERCIAL SILL DETAIL AT FFL STANDARD FOUNDATION EDGE



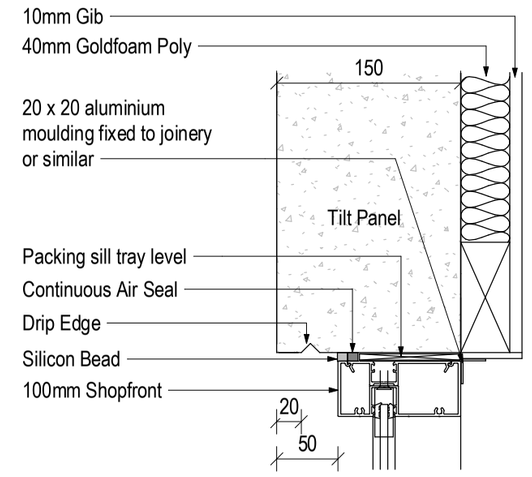
COMMERCIAL SILL DETAIL AT FFL IN PRECAST PANEL



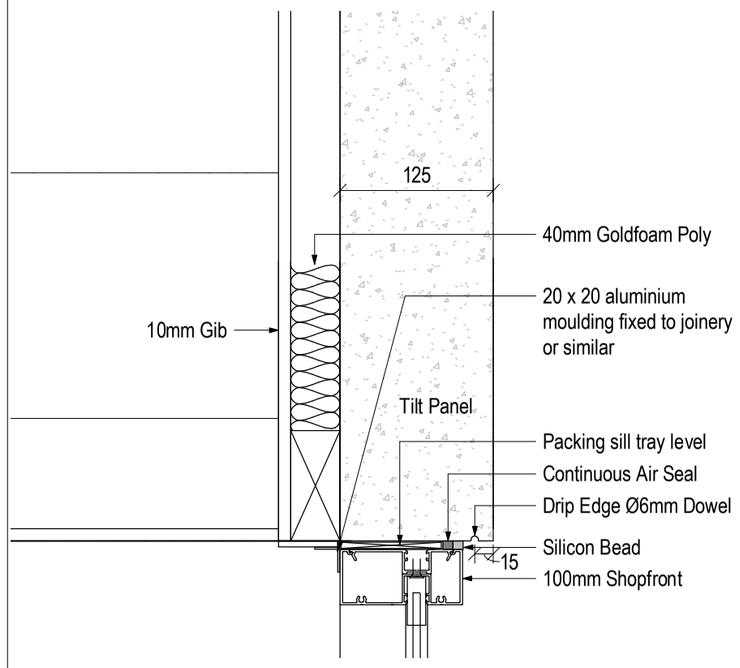
COMMERCIAL SILL DETAIL ABOVE FFL



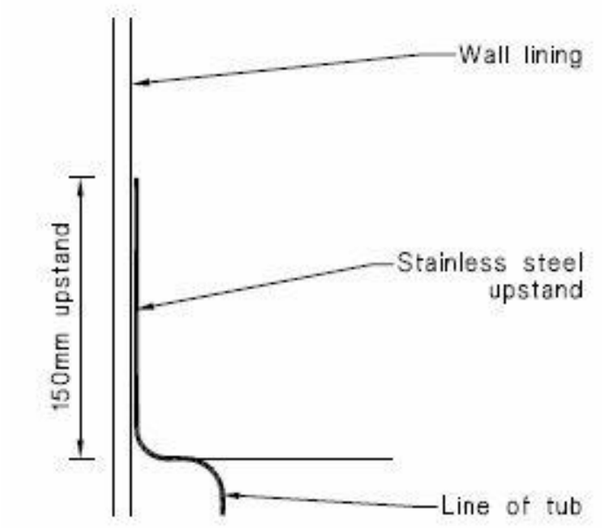
COMMERCIAL JAMB DETAIL

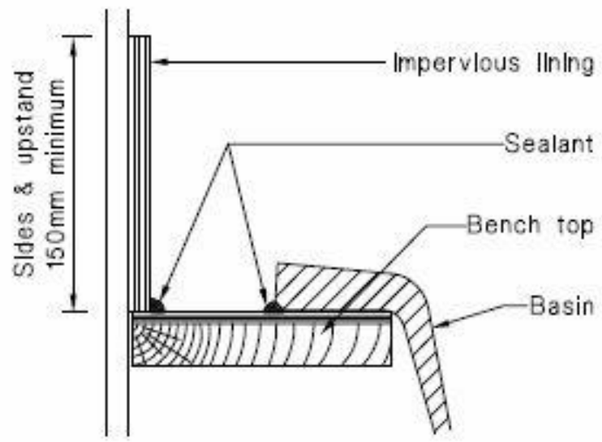


COMMERCIAL HEAD DETAIL



1 / A0301 **DETAIL** :Panel 4 drip edge
1 : 5





(b) Tub, sink and basin

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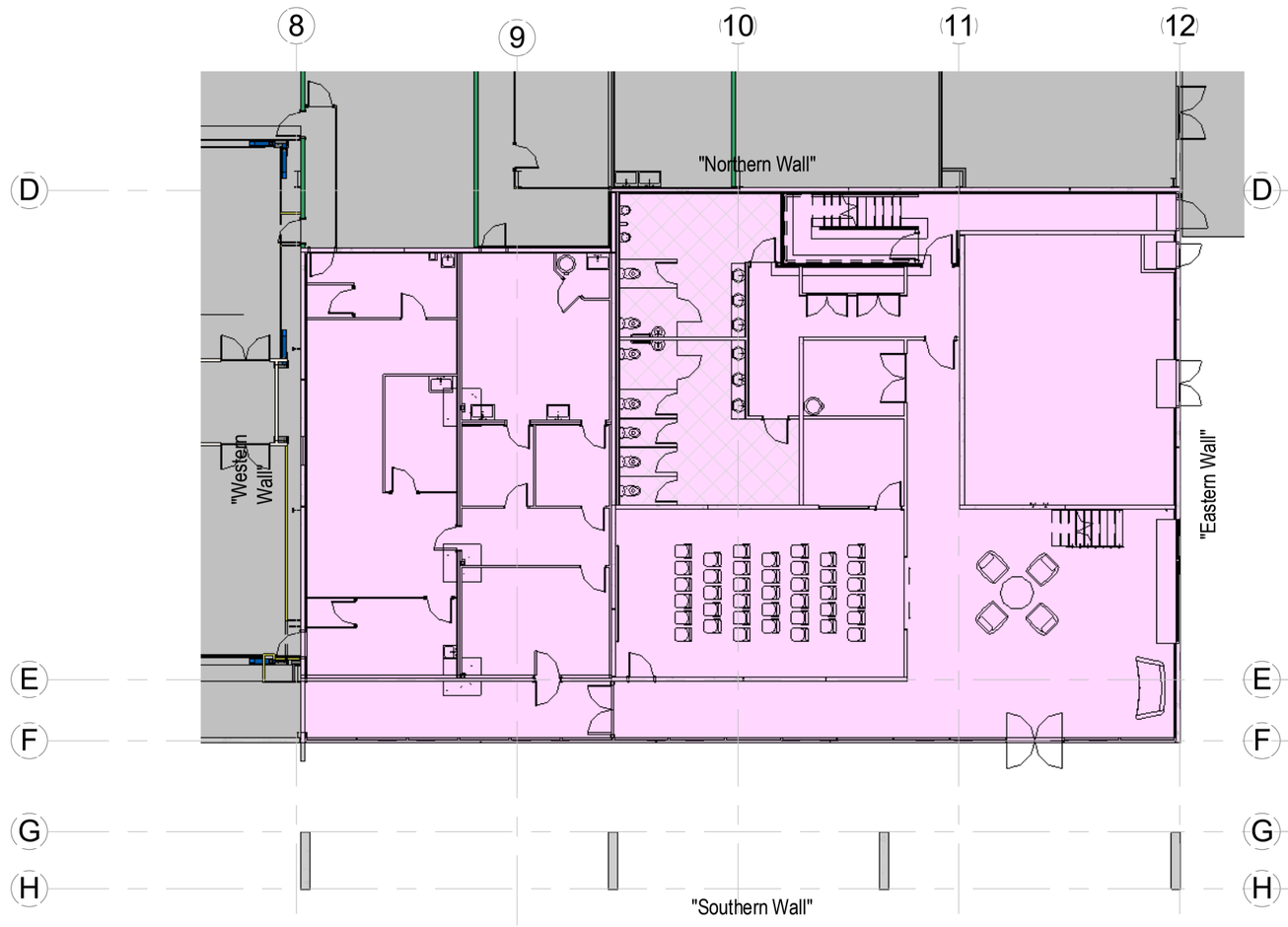
Infant Formula Blending Plant Offices

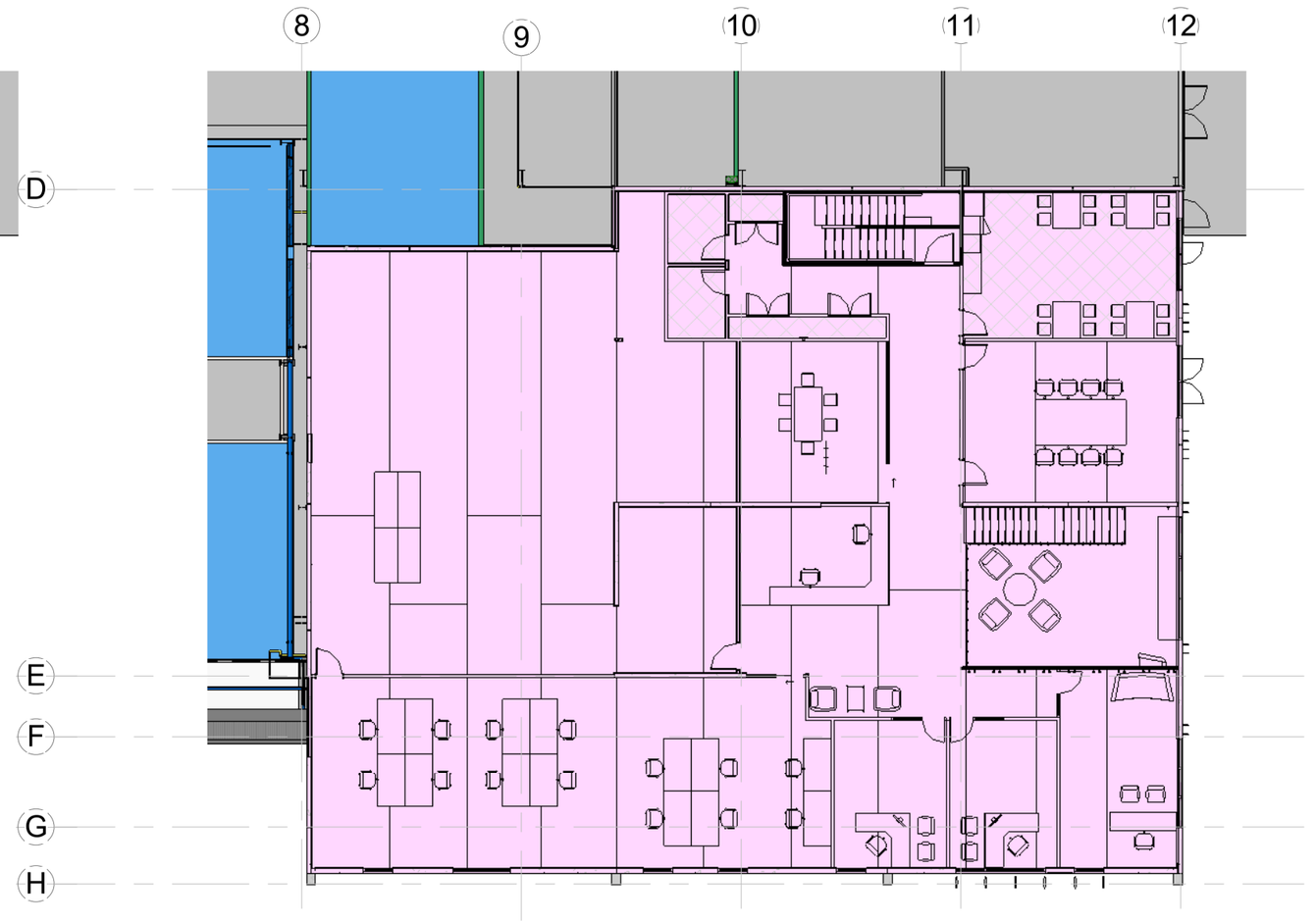
9 Ashford Ave., Ashburton

Rev#	Amendments	Date
	Construction Issue	

SCALE 1 : 5 @ A2		JOB #	12413
DRAWN BY C. White		DATE	13/05/16
APPROVED BY A.Cloake		REV	
Flashing Details			A1303
Please note: All dimensions to be verified on site		Paper size:	A2



Ground Floor Plan H1
1 : 200



First Floor Plan H1
1 : 200

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

Floor Area - (to outside of external walls) 644m²

Wall Area	Glazing Area
North 192m² (faces to warehouse)	North 0m² (faces to warehouse)
South 192m²	South 105m²
East 151m²	East 43m²
West 27m²	West 5.7m²
Total Wall Area 562m²	Total Glazing Area 153.7m²

Glazed Area = 27.4% of total wall area

If less than 50% then schedule method is OK

Climate Zone 3

SCHEDULE METHOD NZS 4243: Part 1:2007			
Table 1 - min R values for schedule method			
Building Thermal Envelope Component	Minimum R-values climate zone 2 & 3	Minimum R-values provided	
Roof	R 1.9	R 3.30	Complies
Wall	R 1.2	R 1.41	Complies
Floor	R 1.3	R 2.96 or 2.89	Complies
Glazing	No requirement	No requirement	Complies

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

Name: Floortype 1 — 2.96 m²K/W

Type: Floor: Slab floor

internal surface 0.09

Flooring : 50-100mm Concrete Topping Screed

R-value: 0.04

Slab Insulation

Slab floor area [m²]:	513		
Perimeter length [m]:	95		
External wall thickness [mm]:	200		
Soil conductivity [W/m °C]	1.2		
Underslab insulation:	none	Insulation :	
Piles Footings:	Number:	Penetration Diameter:	
Slab edge insulation:	none	Insulation :	

Name: Rooftype 1 — 3.30 m²K/W

Type: Roof: Steel framed roof, suspended ceiling

Steel framed roof, suspended ceiling

external surface 0.03

Roofing : Corrugate iron with building paper

R-value: 0.01

Insulation :

Steel Frame & Cavity : 300/18DHS (300x85x1.75) rafters or joists @ 1000mm, battens covered with insulation

Roof Frame Area: 8.5% *Cavity Area: 91.5%*

Roof space (still air) 0.11	Roof space (still air) 0.11
Framing : *R-value: 0.35*	Pink®Batts® R3.6 Ceiling 3.6
Thermal Break : Thermax B 10mm *R-value: 0.45*	

air gap (between 50-200mm) 0.15

Roof Lining : Ceiling tiles

R-value: 0.08

internal surface 0.09

Recessed downlights

Ceiling Area [m²]: Number of downlights: Clearance from lamp holder side [m]:

Name: Walltype 1 — 1.41 m²K/W

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

external surface 0.03

Cladding : 100-150mm natural stone or schist

R-value: 0.10

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 *R-value: 0.00*	40mm Goldfoam, 30kg/m³ 1.44
Strapping : *R-value: 0.34*	still Airgap: none *R-value: 0.00*

Wall Lining : Gypsum plasterboard 10mm

R-value: 0.04

internal surface 0.09

Name: Floortype 3 — 2.89 m²K/W

Type: Floor: Slab floor

internal surface 0.09

Flooring : XLam CLT 105mm

R-value: 0.88

Slab Insulation

Slab floor area [m²]:	142			
Perimeter length [m]:	67.8			
External wall thickness [mm]:	150			
Soil conductivity [W/m °C]	1.2			
Underslab insulation:	Total slab	40mm Goldfoam, 30kg/m³	1.44	
Piles Footings:	Number:	Penetration Diameter:		
Slab edge insulation:	none	Insulation :		

XLAM first floor that suspends to south side of building

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Infant Formula Blending Plant Offices

9 Ashford Ave., Ashburton

Arch

Rev#	Amendments	Date
	Construction Issue	

SCALE	As indicated@ A2	JOB #	12413
DRAWN BY	C. White	DATE	13/05/16
APPROVED BY	A.Cloake	REV	
H1 Compliance			A1400
Please note: All dimensions to be verified on site		Paper size:	A2

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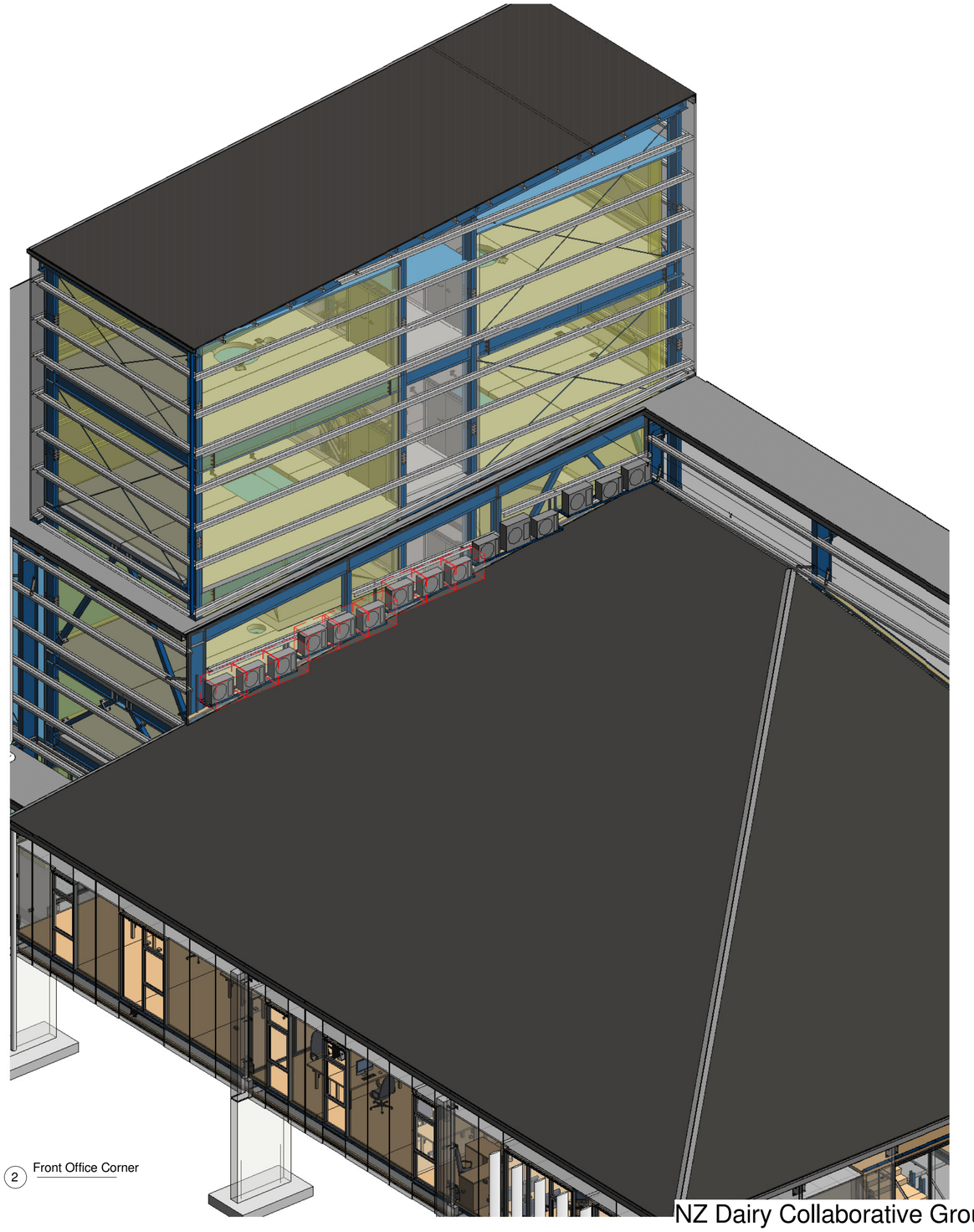
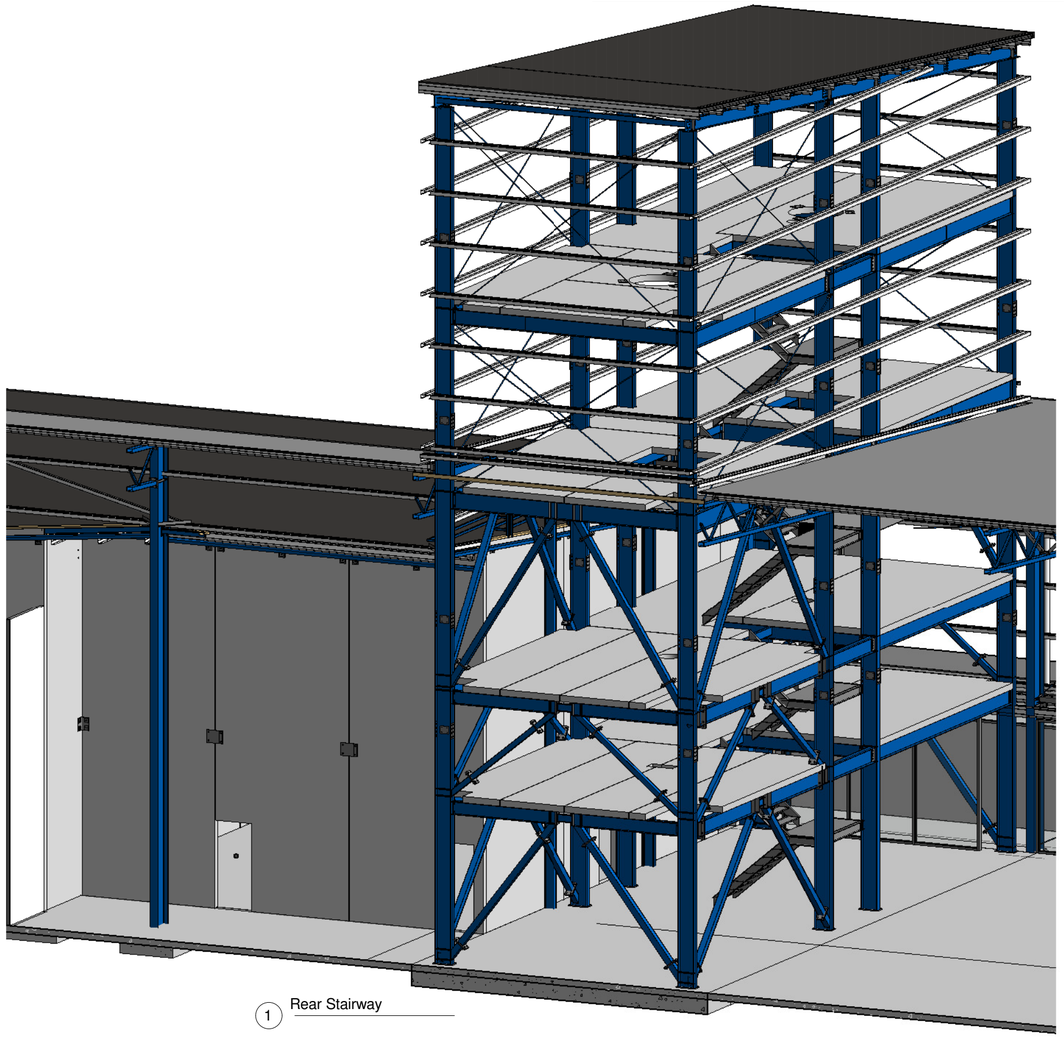
Arch Sheet List			
Sheet Number	Sheet Name	Current Revision	Current Revision Date
A0100	Site		
A0200	Fit Out Ground Floor Plan		
A0201	Fitout Groundfloor Plan with Plant		
A0202	Level T1	2	21/11/16
A0203	Level T2, T3, T4		
A0300	Cross Sections and Stairs		
A0301	Cross Section BB		
A0302	Cross Section CC		
A0303	Cross Section GL6		
A0400	Elevations C		
A0401	Elevations B		
A0500	Plumbing Ground Floor	4	20/12/16
A0600	D W Ground Floor Plan		
A1300	Roof Plan		
A1301	Flashing Details	2	21/11/16



2 Front Office Corner



1 Rear Stairway

NZ Dairy Collaborative Group

Tower Extension

9 Ashford Ave, Ashburton

JOB #	12630
DATE:	27/10/16

SITE PLAN

PROJECT NAME: NZ Dairy Collabrative Group
PROJECT DESCRIPTION: Infant Formula Blending Plant
PROJECT ADDRESS: 9 Ashford Ave, Ashburton
APPELLATION: Lot 17 DP 427688

AREA OF PROPOSED NEW BUILDINGS:
Blending Plant = 4442m²
Office = 1005m² (Separate Building Consent)

LANDSCAPING: 3m wide landscaping strip

KEY

T Data (Telephone)
P Power
W Water

Please refer to Civil and Services plan by TM Consultants for further information.

Read this plan in conjunction with the FPE Sprinkler design 2209 for Fire System, Fire water tank and pump house set out.

Lot 15 DP 427688
Lot 16 DP 427688
Lot 14 DP 427688
Lot 17 DP 427688
SITE AREA 11130m²
Lot 18 DP 427688
Lot 33 DP 427688
Lot 304 DP 427688

N

26.65
105.88
105.36
105.39
105.88
80300
13090
12000
21285
5596
6200
5000
2400 typ
5.68
3.87

SECURITY FENCING
SECURITY GATE
Hose Tap
GRAVEL GROUND COVER
8 PARKS
20 PARKS
GARDEN
EXIT
ENTRY
ASHFORD AVENUE
GLUYAS WAY
17.9m truck turning 20.00 radius

PROPOSED BLENDING PLANT
4442m²
200thk Slab
150 thk Slab
OFFICE
1005m²
Proposed new tower 131m²

ø150 DP (314m²)
Ø150 DP (314m²)
Ø75 DP (85m²)
ø150 DP (350m²)
(252m²)
(325m²)

Firewater Tank, ø9.75m, foundation PS1 design TBC (refer to FPE Sprinkler Design 2209 FP8)
Containerised Sprinkler Pump House, (Refer to FPE Sprinkler Design 2209 FP8)
Common services trench with ø25 data conduit(data), power and sprinkler pipes (refer to FPE Design 2209 FP8)
Power duct from transformer road crossing ø110 Duct & Data in same trench by Get Wired Electrical
Power trench for sign spot light (to future proof)
Cut down curb in front of accessible parks
ø100 water connection with BFP for fire water
Fire Brigade link and panel
BIKE STAND
Ramp up
Ramp UP
+0.0

Site Plan New
1 : 500

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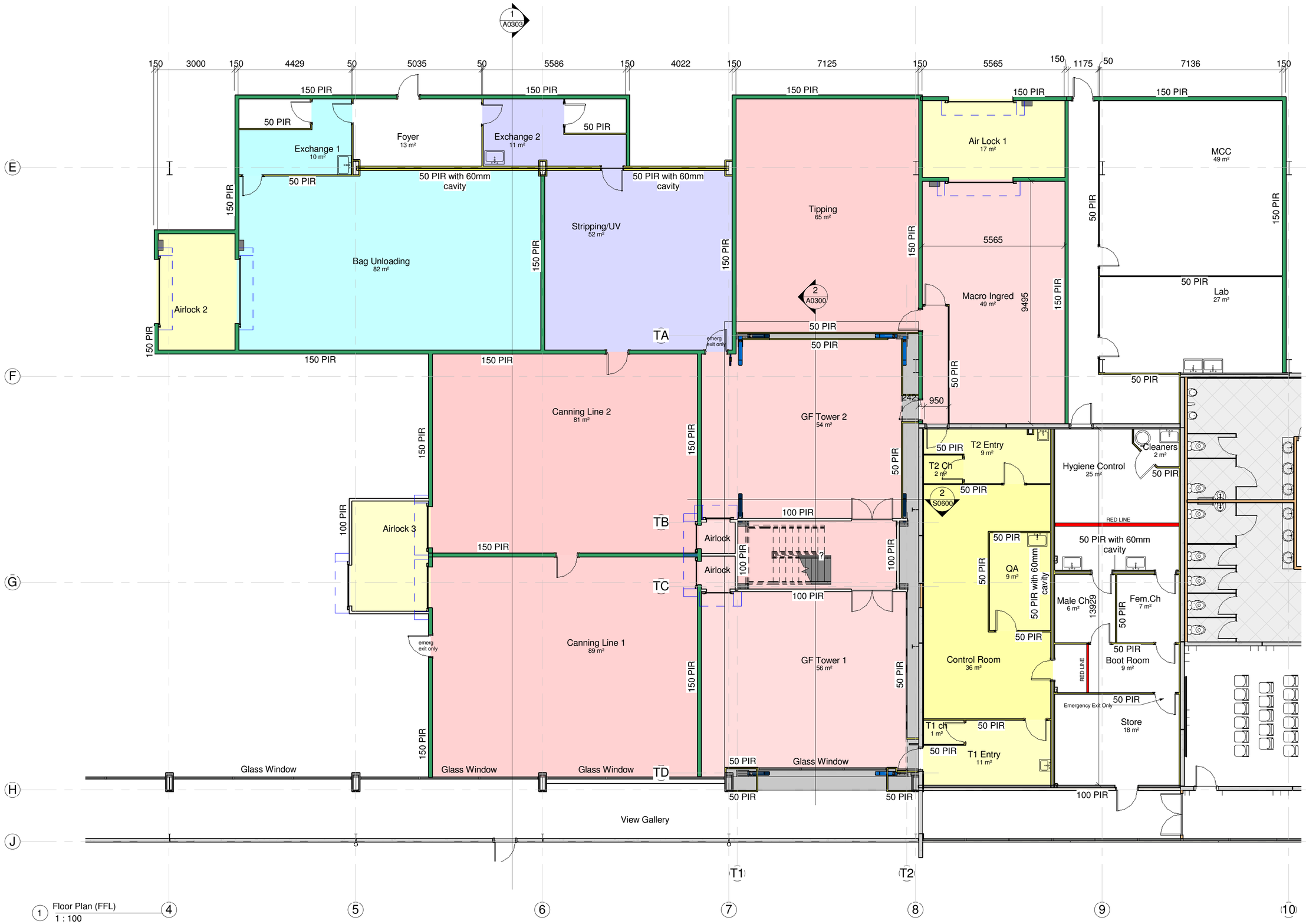
PROJECT

Arch

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

Rev#	Amendments	Date
1	PIM Parking	18/12/15
7	Changes for sprinkler and electrical services	21/03/16
9	Changes to DP's	02/05/16
11	Prelim Tank and Pump House layout	15/06/16

SCALE	As indicated@ A2	JOB #	12412
DRAWN BY	B.Holloway	DATE	23/01/16
APPROVED BY	A. Cloake	REV	11
Site Plan		A0100	
Please note: All dimensions to be verified on site		Paper size: A2	



1 Floor Plan (FFL)
1 : 100

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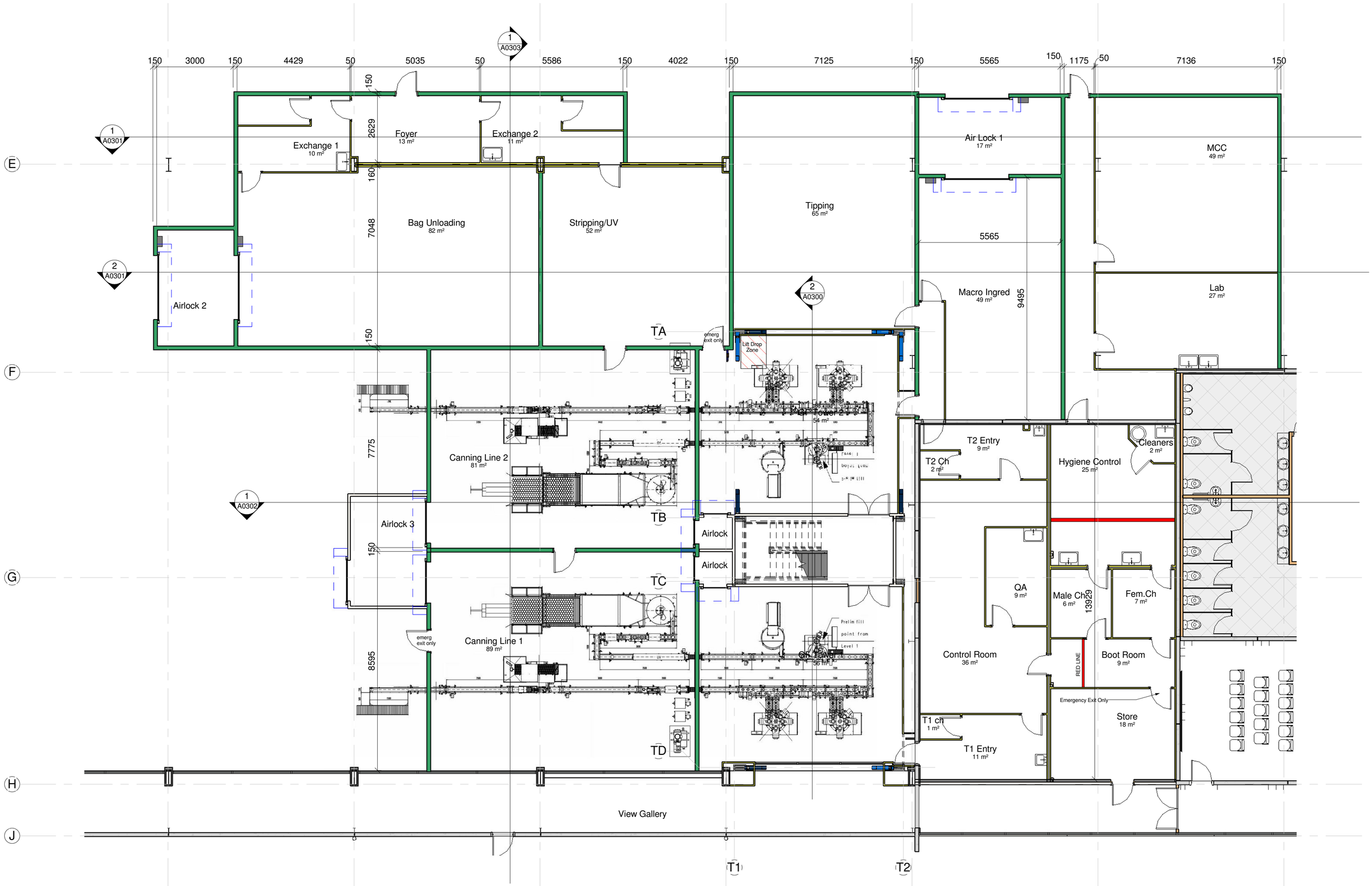
PROJECT

NZ Dairy Collaborative Group
Tower Extension

9 Ashford Ave, Ashburton

Rev#	Amendments	Date

SCALE	1 : 100 @ A2	JOB #	12630
DRAWN BY	B Holloway	DATE	27/10/16
CHECKED BY		REV	
Fit Out Ground Floor Plan		**A0200**	
Please note: All dimensions to be verified on site		Paper size: **A2**	



1 Floor Plan (FFL) with plant
1 : 100

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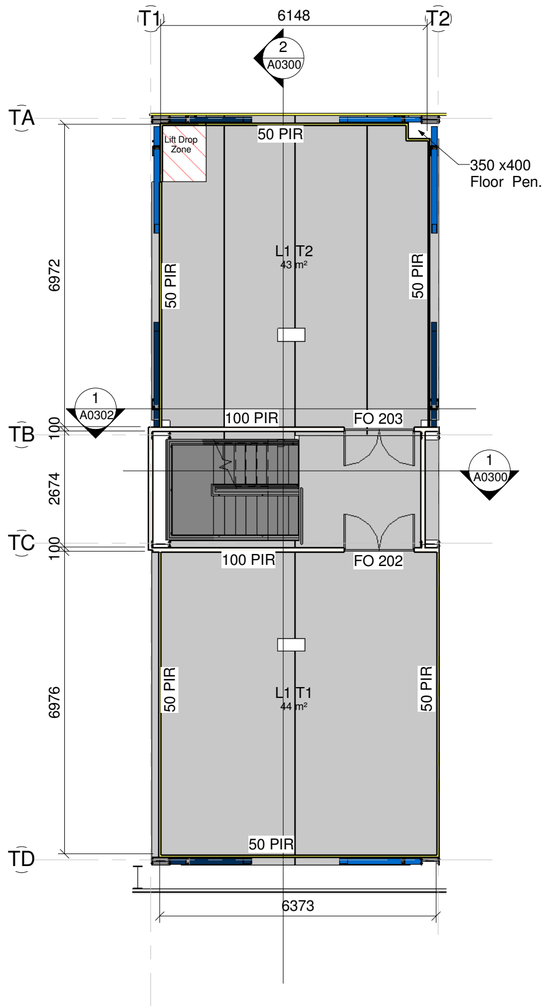
PROJECT

NZ Dairy Collaborative Group
Tower Extension
9 Ashford Ave, Ashburton

Rev#	Amendments	Date

SCALE	1 : 100 @ A2	JOB #	12630
DRAWN BY	B Holloway	DATE	27/10/16
CHECKED BY	A.Cloake	REV	
Fitout Groundfloor Plan with Plant		A0201	
Please note: All dimensions to be verified on site		Paper size: A2	



1 Level T1
1 : 100

Fresh Air Supply to comply with G4

Room	Supplied Airflow (l/s)	Area (m²)	Calc. Occupancy (NZS 4303 calc)	Supply Ratio	Flow reqd (L/S)
Bag Unloading	3332	82	8	10 L/s per person	65.6
Stripping/UV	5085	52	5	10 L/s per person	41.6
Bag Tipping	3775	65	7	10 L/s per person	52
Macro Ingred	2809	49	5	10 L/s per person	39.2
Canning Line 2	6532	81	8	10 L/s per person	64.8
Canning Line 1	6532	89	9	10 L/s per person	71.2
Tower 2 (4 levels @ 54m²)	7131	216	22	10 L/s per person	172.8
Tower 1 (4 levels @ 56m²)	6713	224	22	10 L/s per person	179.2
Control Room & QA	55 min. *1	68	7	10 L/s per person	54.4
Hygiene Control and change rooms	128 min.*1	51	5	2.5L/s per m²	127.5
Lab	22 min.*1	27	3 *2	10 L/s per person	30

Fresh air Supply Rates from NZS 4303 Table 1

Application	Estimated Maximum** Occupancy P/1000 ft² or 100 m²	Outdoor Air Requirements cfm/ person	L/s· person	cfm/ft²	L/s·m²
Meat processing	10	15	8		
Locker rooms				0.50	2.50

Notes:
*1: Air supply tranferred from tower air supply (higher pressure room)
*2: Known Occupancy

2 Ventilation
1 : 10

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PROJECT

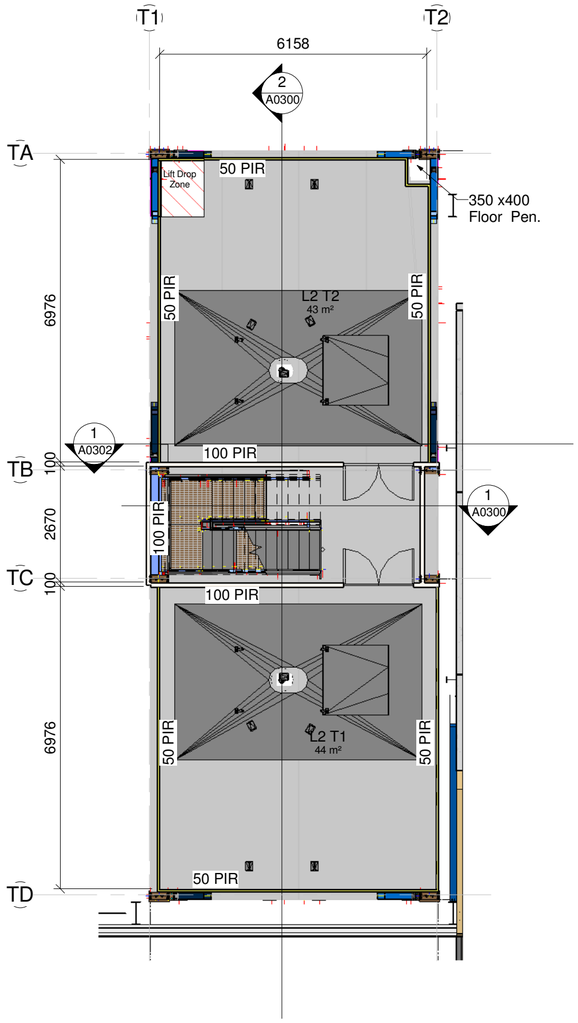
NZ Dairy Collaborative Group

Tower Extension

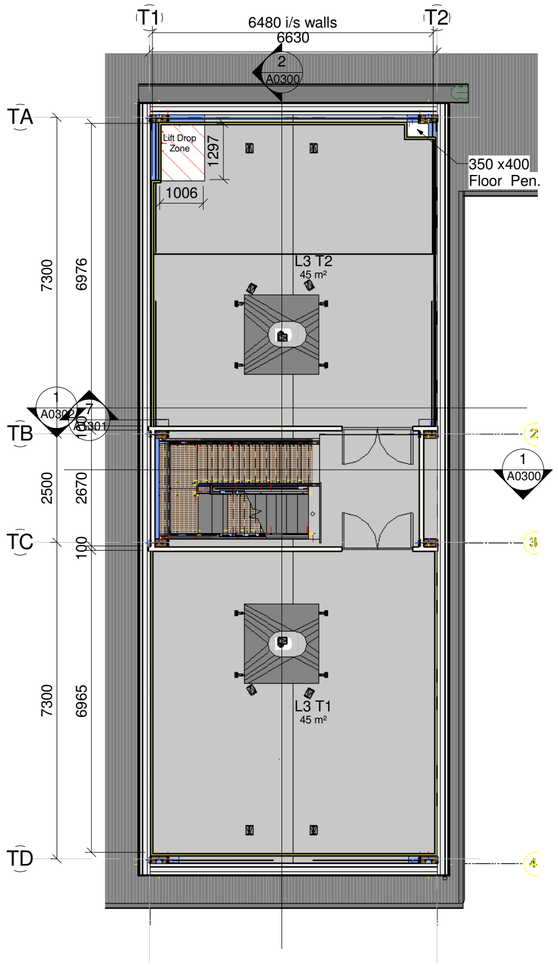
9 Ashford Ave, Ashburton

Rev#	Amendments	Date
2	RFI Response	21/11/16

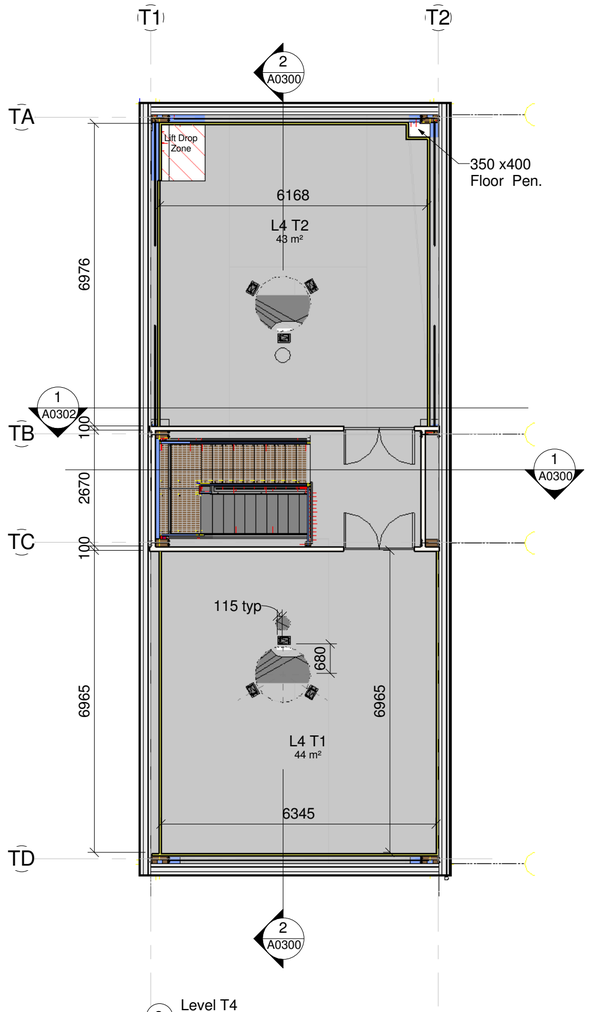
SCALE: As indicated@ A2 | JOB #: 12630
DRAWN BY: B Holloway | DATE: 27/10/16
CHECKED BY: | REV: 2
Level T1 | A0202
Please note: All dimensions to be verified on site | Paper size: A2



1 Level T2
1 : 100



2 Level T3
1 : 100



3 Level T4
1 : 100

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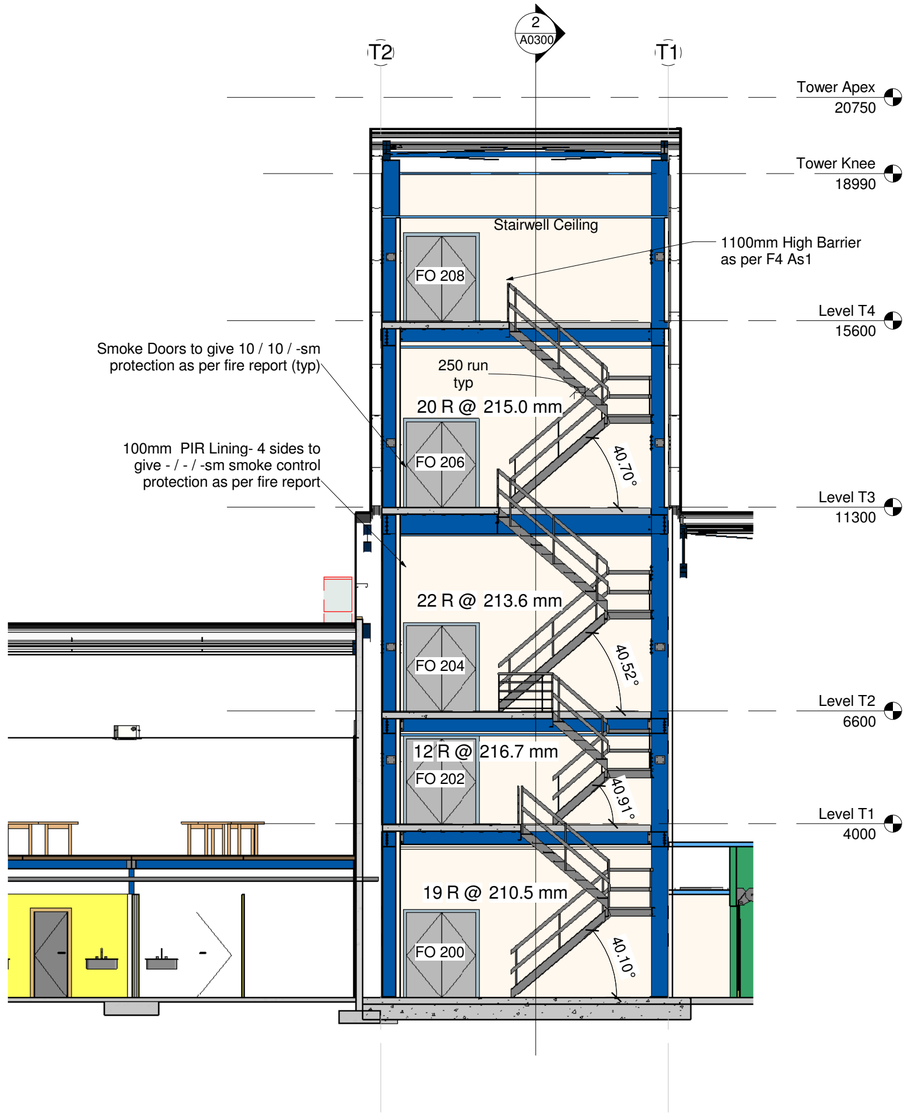
NZ Dairy Collaborative Group

Tower Extension

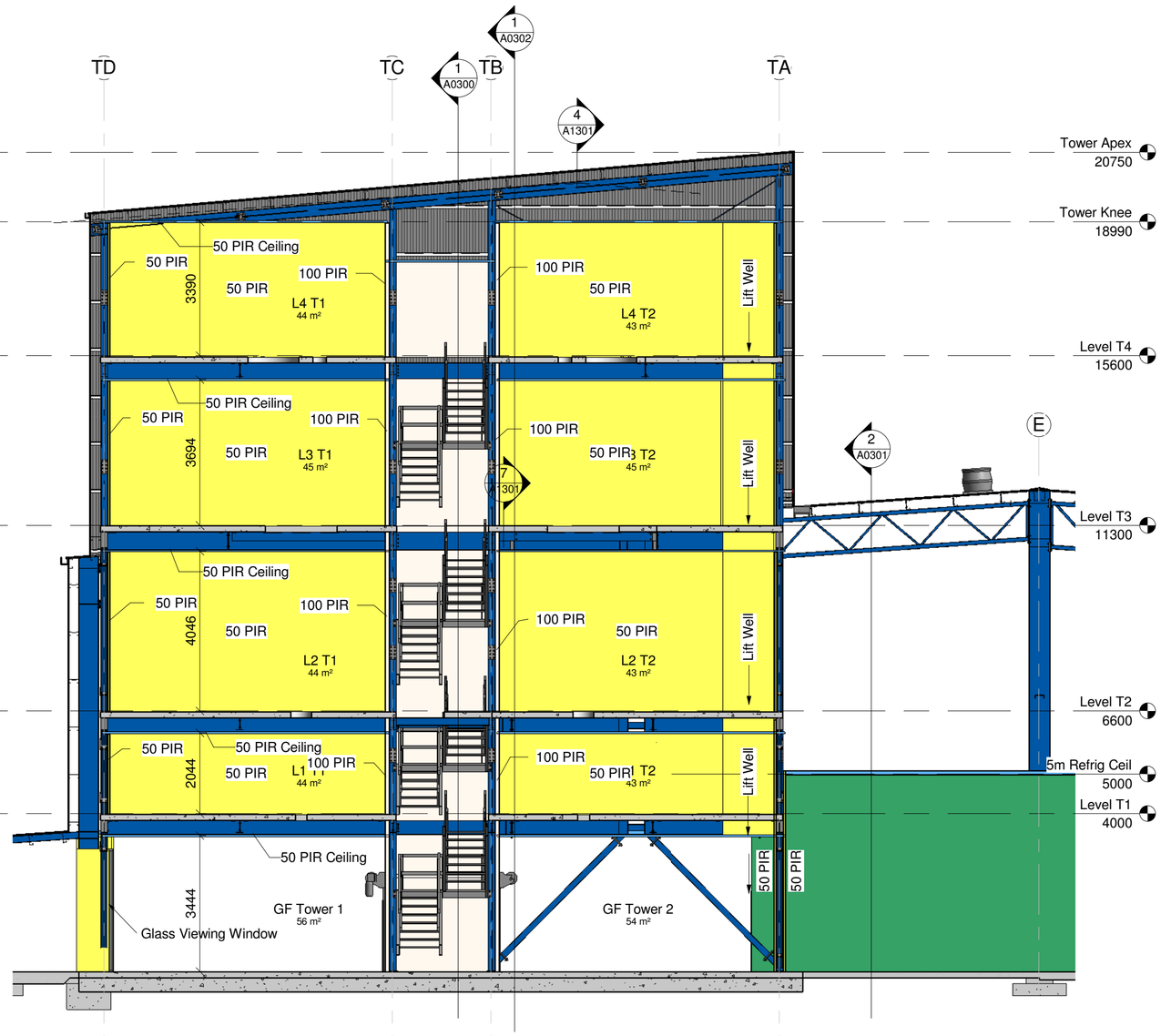
9 Ashford Ave, Ashburton

Rev#	Amendments	Date

SCALE	1 : 100 @ A2	JOB #	12630
DRAWN BY	B Holloway	DATE	27/10/16
CHECKED BY	Checker	REV	
Level T2, T3, T4		**A0203**	
Please note: All dimensions to be verified on site		Paper size: A2	



1 Tower Stair Detail
1 : 100



2 Tower Cross Section 2
1 : 100

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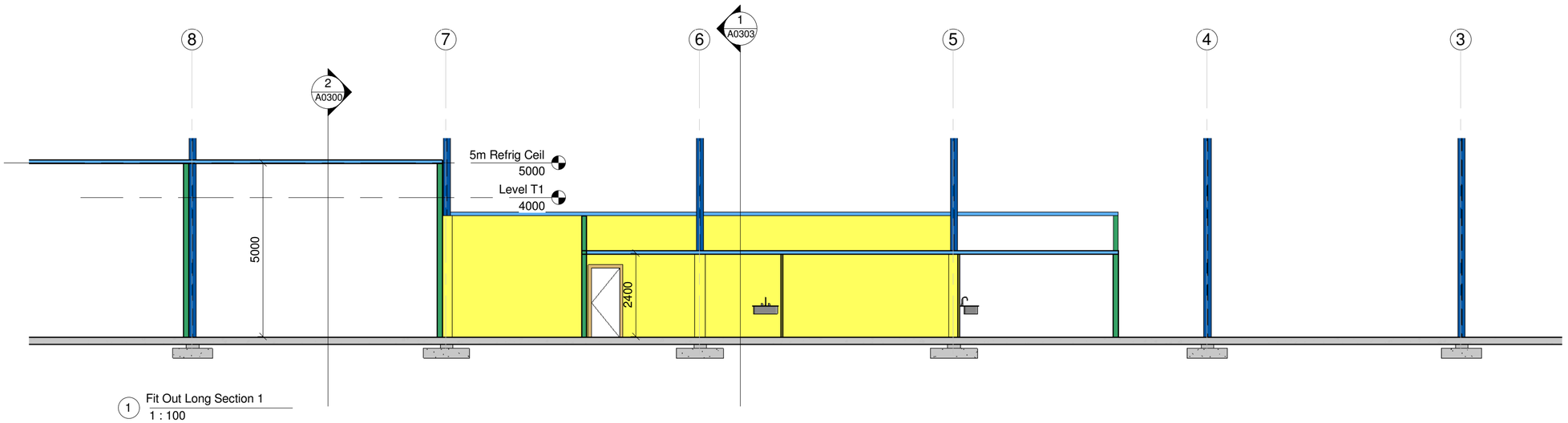
Tower Extension

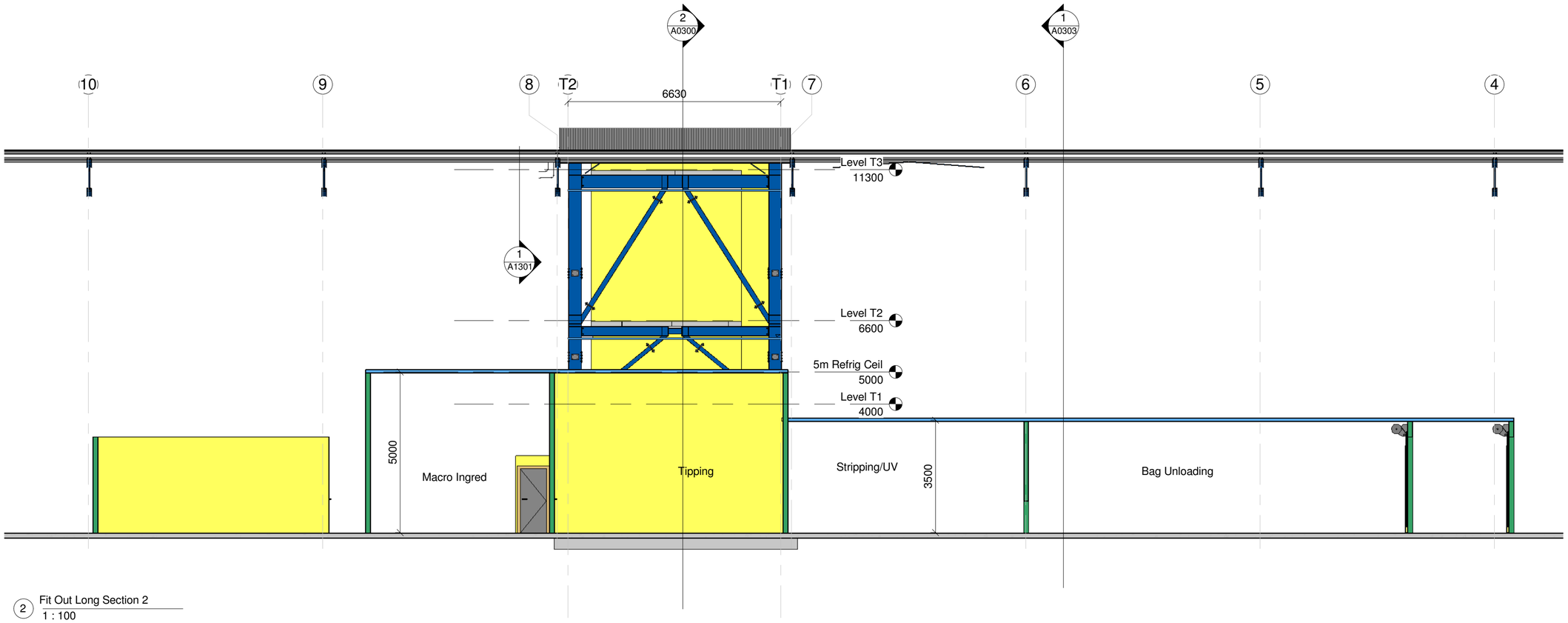
9 Ashford Ave, Ashburton

Rev#	Amendments	Date

SCALE	1 : 100 @ A2	JOB #	12630
DRAWN BY	B Holloway	DATE	27/10/16
CHECKED BY		REV	
Cross Sections and Stairs		A0300	
Please note: All dimensions to be verified on site		Paper size: A2	



1 Fit Out Long Section 1
1 : 100



2 Fit Out Long Section 2
1 : 100

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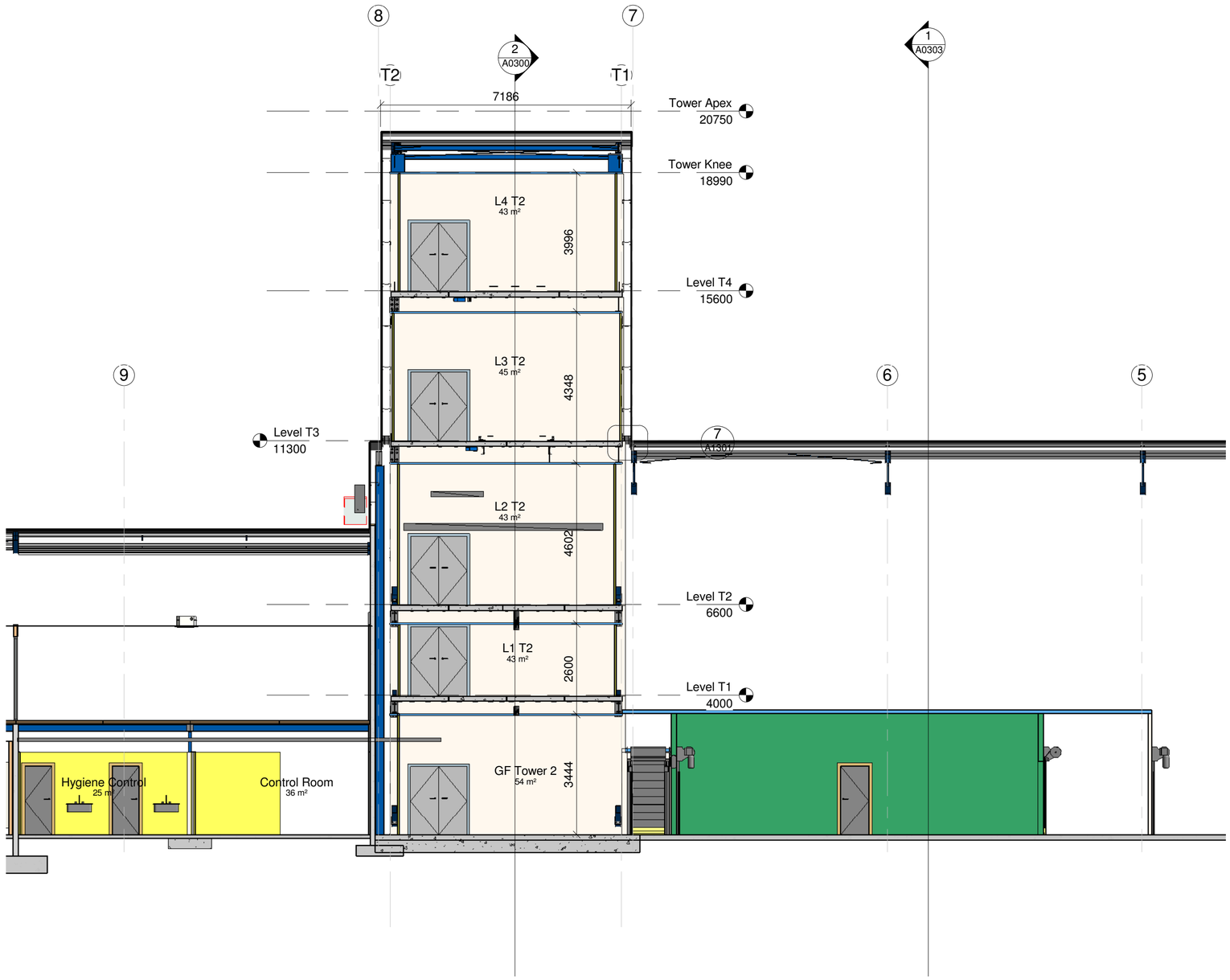
Tower Extension

9 Ashford Ave, Ashburton

Rev#	Amendments	Date

SCALE	1 : 100 @ A2	JOB #	12630
DRAWN BY	B Holloway	DATE	27/10/16
CHECKED BY		REV	
Cross Section BB		A0301	

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



1 Fit Out Long Section 3
1 : 100

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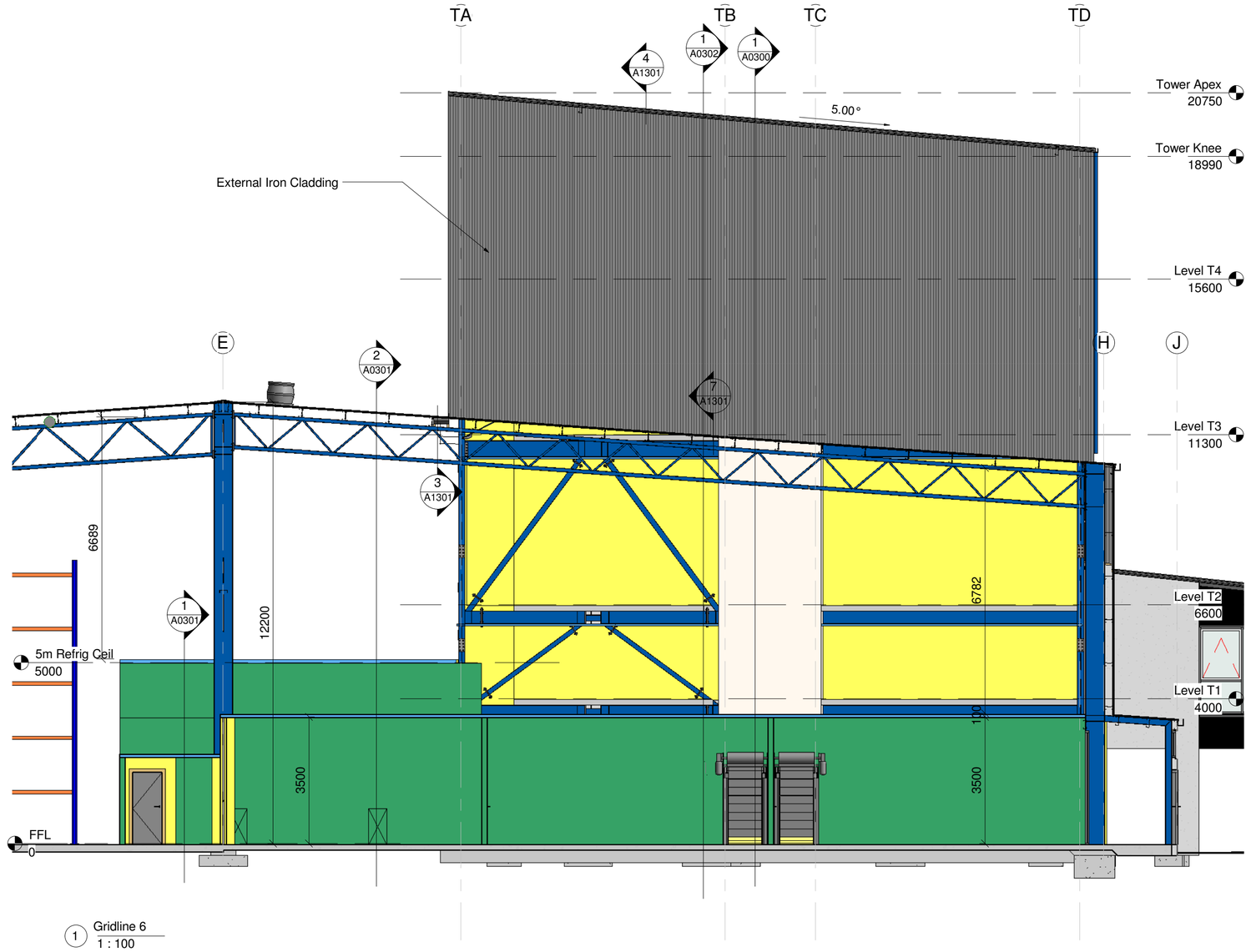
Tower Extension

9 Ashford Ave, Ashburton

Rev#	Amendments	Date

SCALE 1 : 100 @ A2		JOB # 12630	
DRAWN BY B Holloway		DATE 27/10/16	
CHECKED BY		REV	
Cross Section CC		**A0302**	
Please note: All dimensions to be verified on site		Paper size: **A2**	



1 Gridline 6
1 : 100

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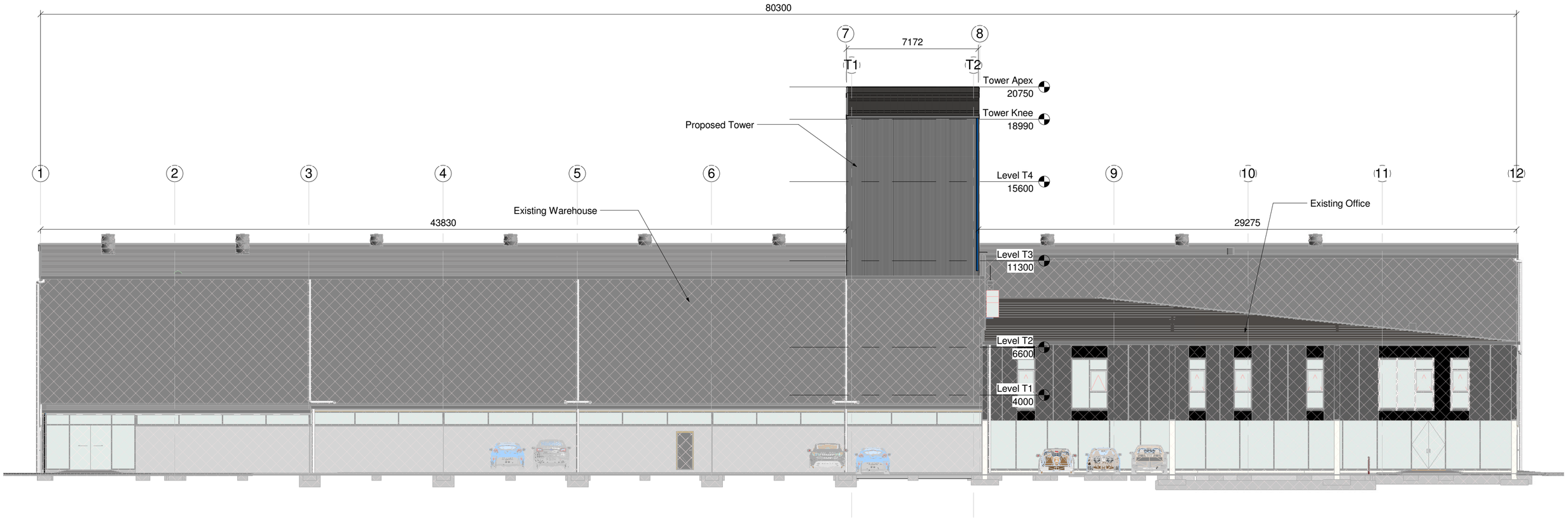
Tower Extension

9 Ashford Ave, Ashburton

Rev#	Amendments	Date

SCALE	1 : 100 @ A2	JOB #	12630
DRAWN BY	B Holloway	DATE	27/10/16
CHECKED BY	Checker	REV	
Cross Section GL6		**A0303**	
Please note: All dimensions to be verified on site		Paper size: **A2**	



1 Elevation C
1 : 150

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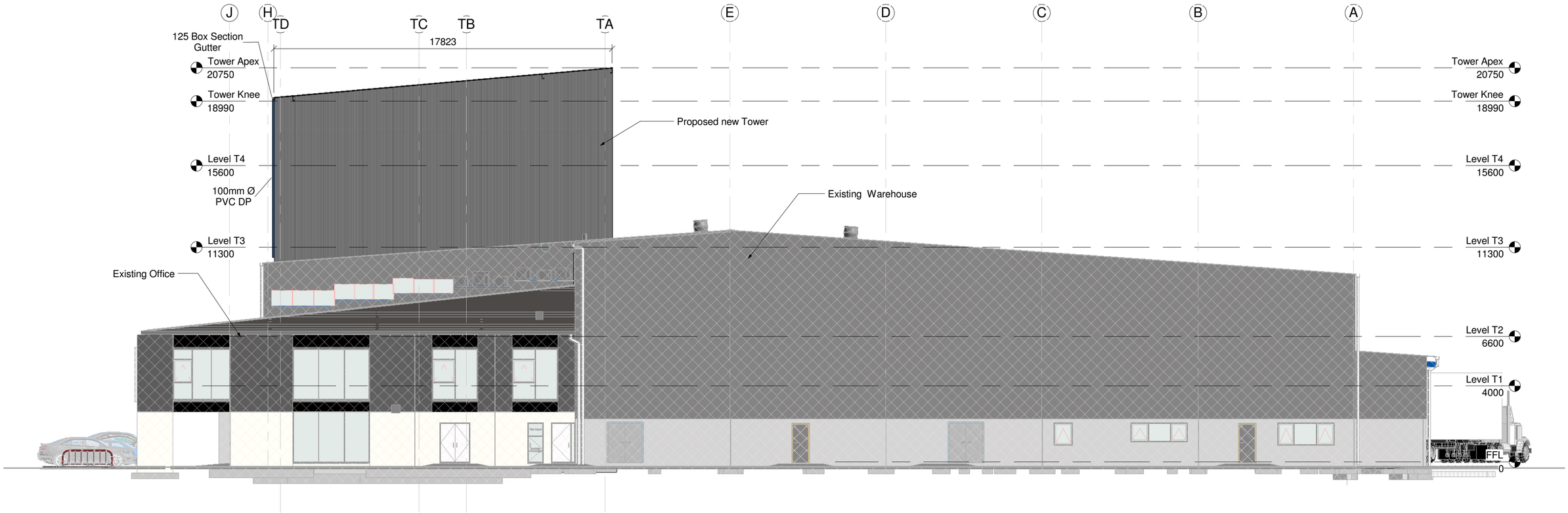
Tower Extension

9 Ashford Ave, Ashburton

Rev#	Amendments	Date

SCALE	1 : 150 @ A2	JOB #	12630
DRAWN BY	B Holloway	DATE	27/10/16
CHECKED BY		REV	
Elevations C		A0400	
Please note: All dimensions to be verified on site		Paper size: A2	



1 Elevation B
1 : 150

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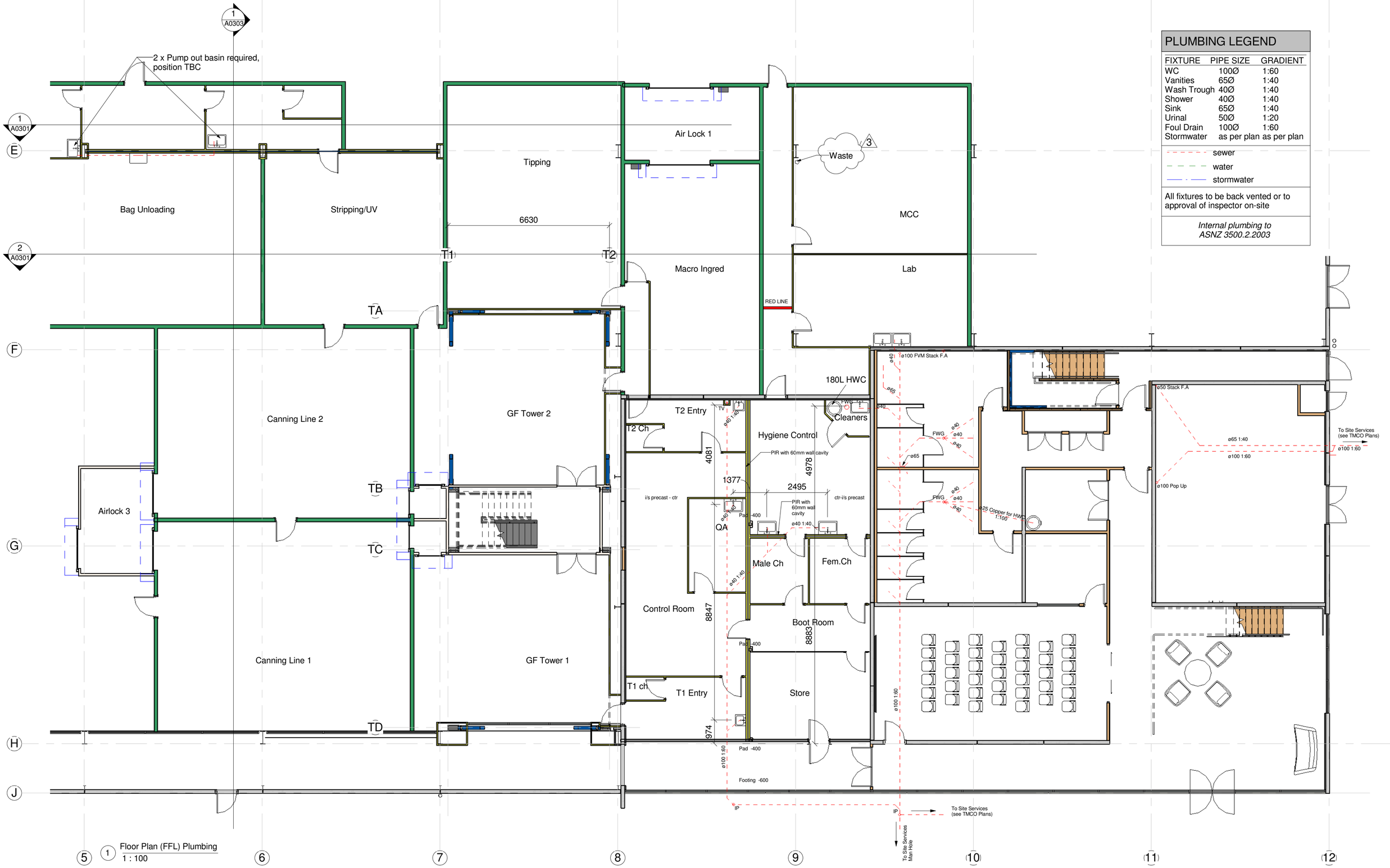
NZ Dairy Collaborative Group

Tower Extension

9 Ashford Ave, Ashburton

Rev#	Amendments	Date

SCALE	1 : 150 @ A2	JOB #	12630
DRAWN BY	B Holloway	DATE	27/10/16
CHECKED BY		REV	
Elevations B		A0401	
Please note: All dimensions to be verified on site		Paper size: A2	



1 Floor Plan (FFL) Plumbing
1 : 100

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

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PROJECT

NZ Dairy Collaborative Group
Tower Extension
9 Ashford Ave, Ashburton

Rev#	Amendments	Date
3	MCC Waste	12/12/16

SCALE	1 : 100 @ A2	JOB #	12630
DRAWN BY	B Holloway	DATE	27/10/16
CHECKED BY		REV	3
Plumbing Ground Floor			**A0500**
Please note: All dimensions to be verified on site		Paper size:	**A2**

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

1 Floor Plan (FFL) Plumbing
1 : 100

Rev#	Amendments	Date
4	Plumbing Mods	20/12/16

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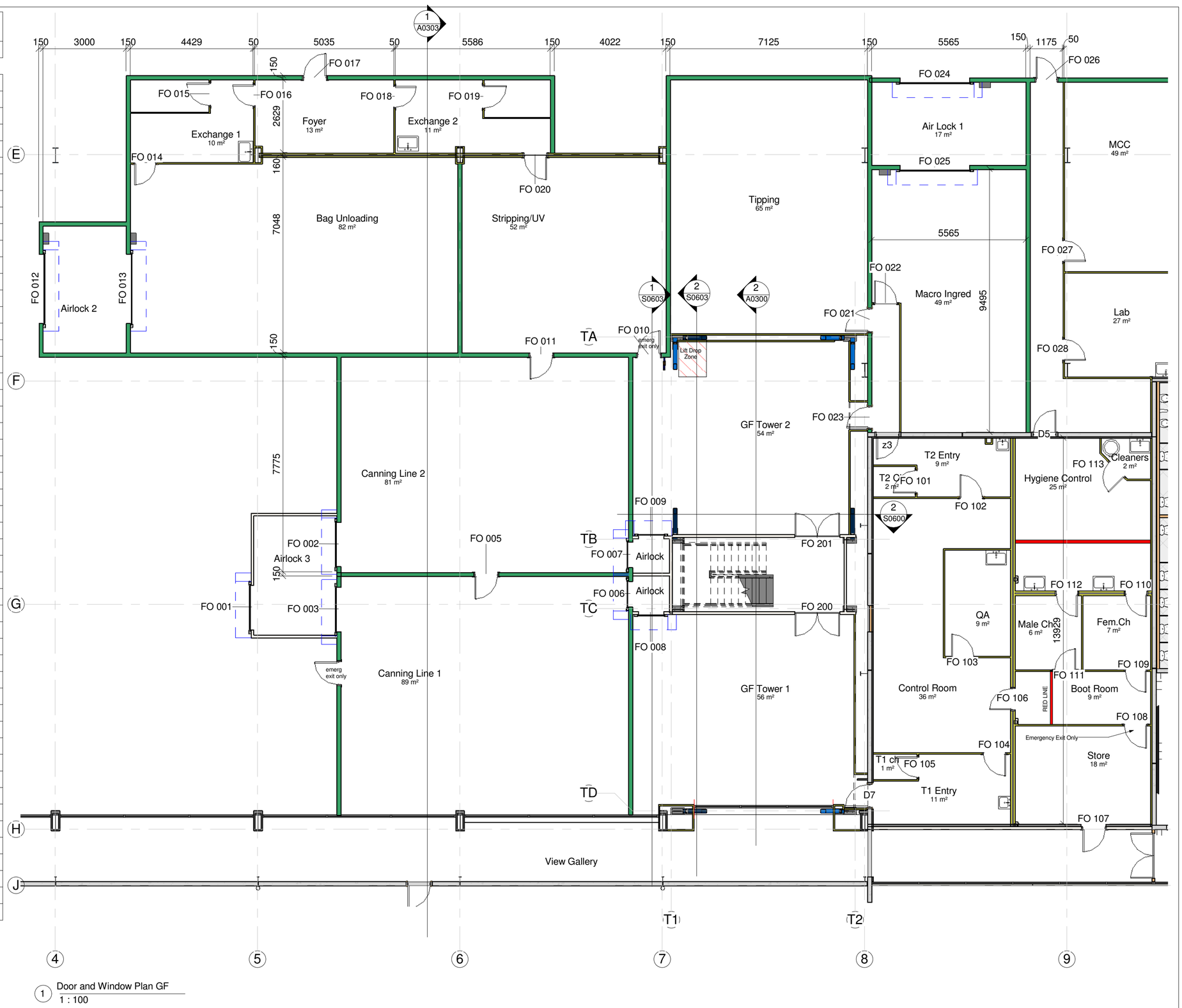
PROJECT

NZ Dairy Collaborative Group
Tower Extension
9 Ashford Ave, Ashburton

SCALE 1 : 100 @ A2 | JOB # 12630
DRAWN BY B Holloway | DATE 27/10/16
CHECKED BY | REV 4
Plumbing Ground Floor | **A0500**
Please note: All dimensions to be verified on site | Paper size: **A2**

Door Schedule			
Mark	Type	Type Comments	Level
FO 001	AlbanyRR300 2.1hx1.6w		FFL
FO 002	AlbanyRR300 2.1hx1.6w		FFL
FO 003	AlbanyRR300 2.1hx1.6w		FFL
FO 004	810 leaf internal door		FFL
FO 005	810 leaf internal door		FFL
FO 006	Airlock 1200w x 900 w	TBC by client	FFL
FO 007	Airlock 1200w x 900 w	TBC by client	FFL
FO 008	Airlock 1200w x 900 w	TBC by client	FFL
FO 009	Airlock 1200w x 900 w	TBC by client	FFL
FO 010	810 leaf internal door		FFL
FO 011	810 leaf internal door		FFL
FO 012	Envico Micro 3.0hx2.5w(1p)		FFL
FO 013	Envico Micro 3.0hx2.5w(1p)		FFL
FO 014	760 leaf internal door		FFL
FO 015	810 leaf internal door		FFL
FO 016	760 leaf internal door		FFL
FO 017	810 leaf internal door		FFL
FO 018	760 leaf internal door		FFL
FO 019	810 leaf internal door		FFL
FO 020	810 leaf internal door		FFL
FO 021	810 leaf internal door		FFL
FO 022	810 leaf internal door		FFL
FO 023	760 leaf internal door		FFL
FO 024	Envico Maxim 4.5hx2.5w		FFL
FO 025	Envico Maxim 4.5hx2.5w		FFL
FO 026	760 leaf internal door		FFL
FO 027	760 leaf internal door		FFL
FO 028	760 leaf internal door		FFL
FO 101	810 leaf internal door		FFL
FO 102	810 leaf internal door		FFL
FO 103	810 leaf internal door		FFL
FO 104	810 leaf internal door		FFL
FO 105	760 leaf internal door		FFL
FO 106	760 leaf internal door		FFL
FO 107	760 leaf internal door		FFL
FO 108	760 leaf internal door		FFL
FO 109	760 leaf internal door		FFL
FO 110	760 leaf internal door		FFL
FO 111	760 leaf internal door		FFL
FO 112	760 leaf internal door		FFL
FO 113	760 leaf internal door		FFL
FO 200	810 x 810 Double Leaf Door	FRR 10/10/-Sm	FFL
FO 201	810 x 810 Double Leaf Door	FRR 10/10/-Sm	FFL
FO 202	810 x 810 Double Leaf Door	FRR 10/10/-Sm	Level T1
FO 203	810 x 810 Double Leaf Door	FRR 10/10/-Sm	Level T1
FO 204	810 x 810 Double Leaf Door	FRR 10/10/-Sm	Level T2
FO 205	810 x 810 Double Leaf Door	FRR 10/10/-Sm	Level T2
FO 206	810 x 810 Double Leaf Door	FRR 10/10/-Sm	Level T3
FO 207	810 x 810 Double Leaf Door	FRR 10/10/-Sm	Level T3
FO 208	810 x 810 Double Leaf Door	FRR 10/10/-Sm	Level T4
FO 209	810 x 810 Double Leaf Door	FRR 10/10/-Sm	Level T4

NOTE: Refer to Sheet A0202 and A0203 for doors on Levels T1 -T4



1 Door and Window Plan GF
1 : 100

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PROJECT

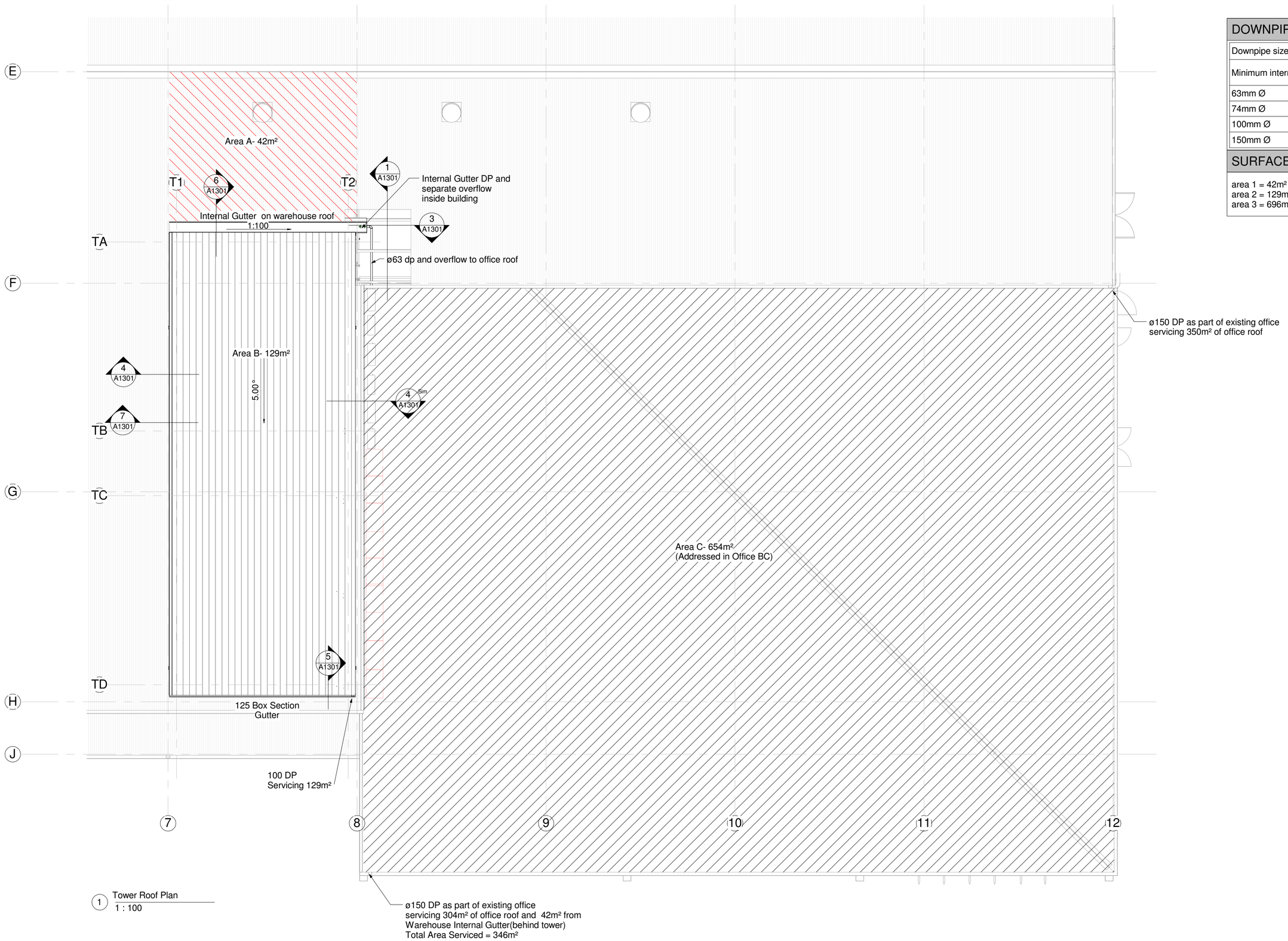
NZ Dairy Collaborative Group

Tower Extension

9 Ashford Ave, Ashburton

Rev#	Amendments	Date

SCALE	1 : 100 @ A2	JOB #	12630
DRAWN BY	B.Holloway	DATE	27/10/16
CHECKED BY		REV	
D W Ground Floor Plan		A0600	
Please note: All dimensions to be verified on site		Paper size: A2	



1 Tower Roof Plan
1 : 100

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

area 1 = 42m² - 1 x 63 Ø DP min
area 2 = 129m² - 1 x 100 Ø DP min
area 3 = 696m² - 2 x 150 Ø DP(existing in office BC)

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PROJECT

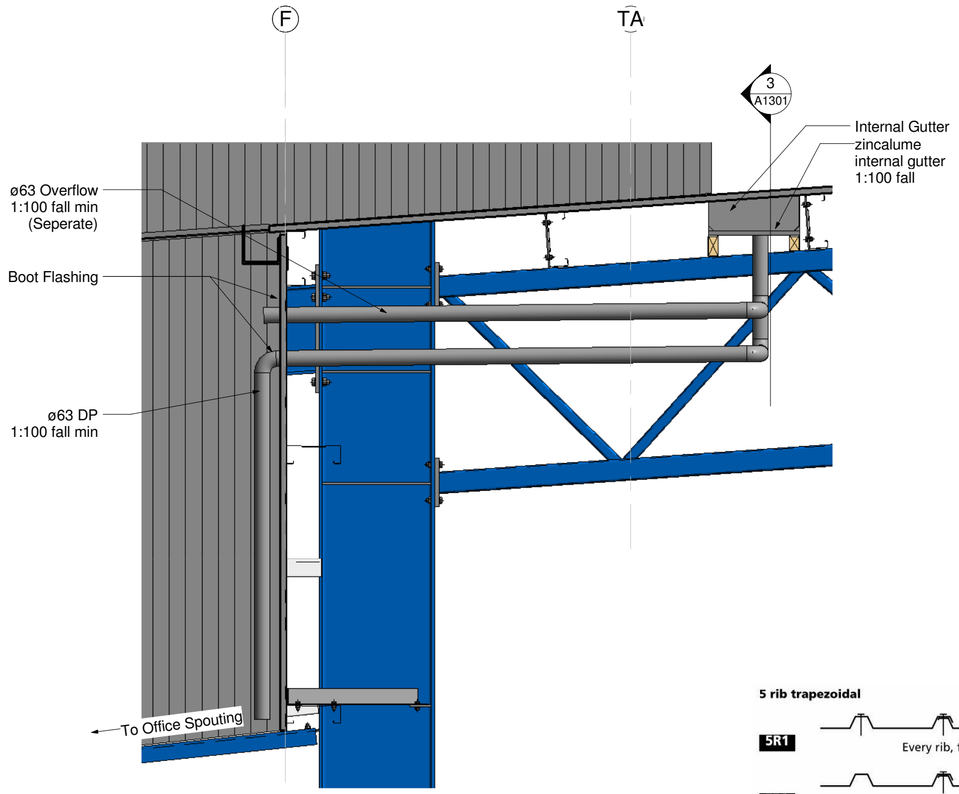
NZ Dairy Collaborative Group

Tower Extension

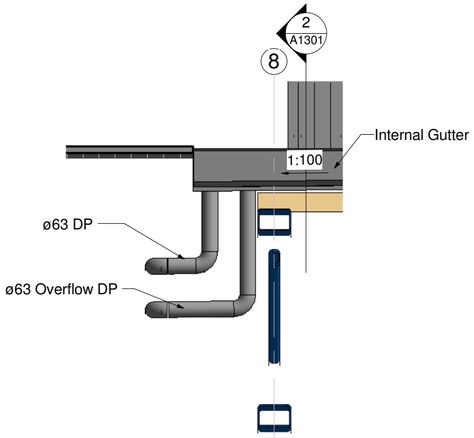
9 Ashford Ave, Ashburton

Rev#	Amendments	Date

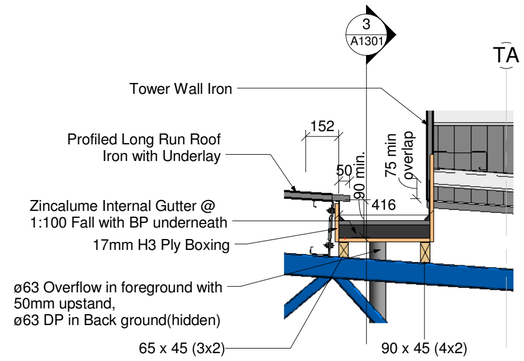
SCALE	1 : 100 @ A2	JOB #	12630
DRAWN BY	B.Holloway	DATE	27/10/16
CHECKED BY		REV	
Roof Plan		A1300	
Please note: All dimensions to be verified on site		Paper size: A2	



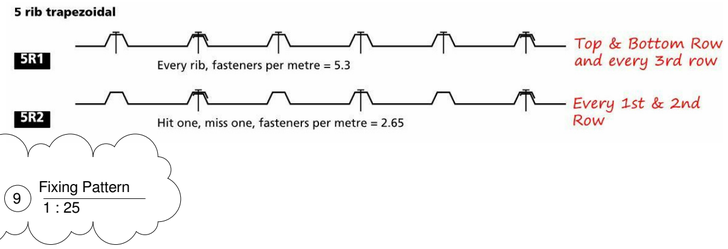
1 Internal Gutter side
1 : 20



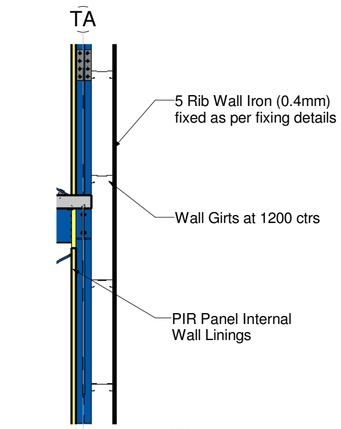
3 Internal Gutter DP Detail
1 : 20



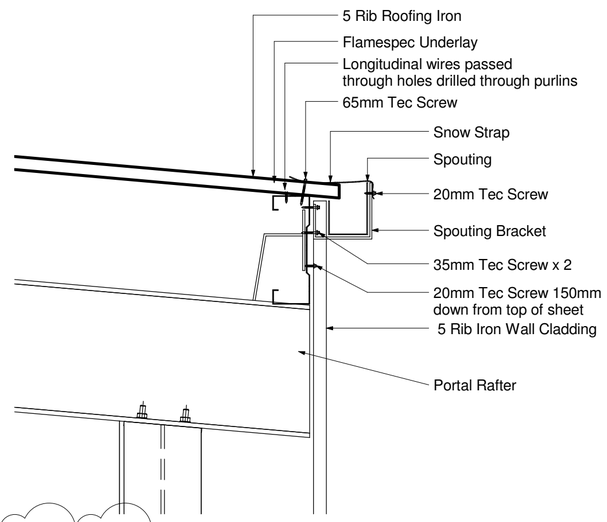
2 Internal Gutter Cross Section
1 : 20



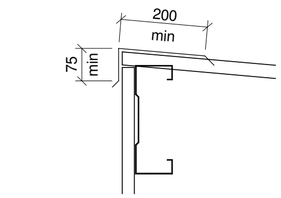
9 Fixing Pattern
1 : 25



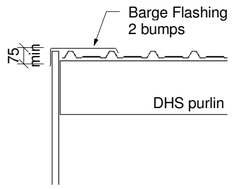
10 Cladding Cross section
1 : 50



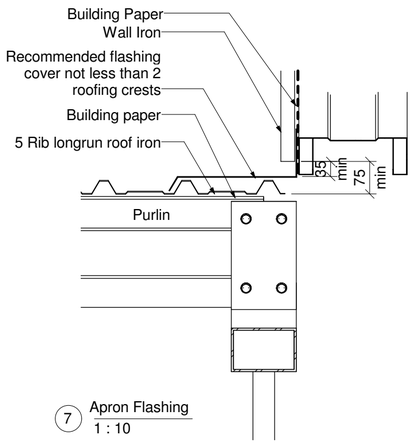
5 Spouting detail
1 : 10



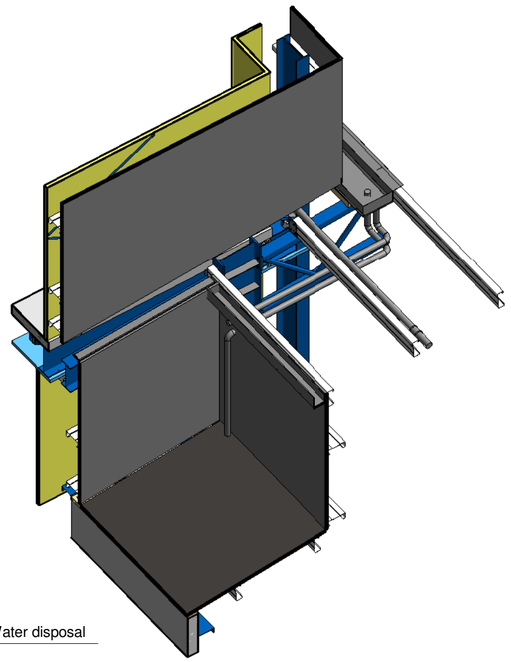
6 Barge Flashing Top
1 : 10



4 Barge Flashing Detail
1 : 20



7 Apron Flashing
1 : 10



8 Roof Water disposal

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PROJECT

NZ Dairy Collaborative Group

Tower Extension

9 Ashford Ave, Ashburton

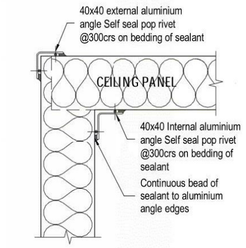
Rev#	Amendments	Date
2	RFI Response	21/11/16

SCALE: As indicated@ A2 | JOB #: 12630
DRAWN BY: B.Holloway | DATE: 27/10/16
CHECKED BY: | REV: 2

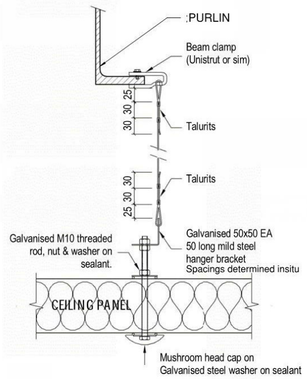
Flashing Details | **A1301**

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

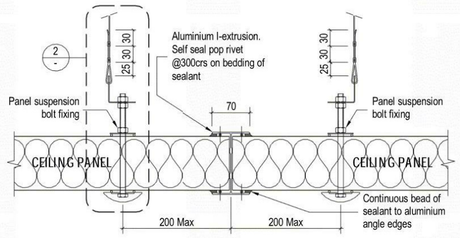
TYPICAL CONNECTION DETAILS FOR INSULATED PANEL FIT OUT



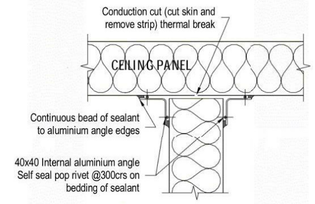
1 Section Detail
1 : 5



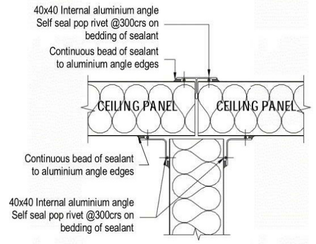
2 CEILING FIXING
1 : 5



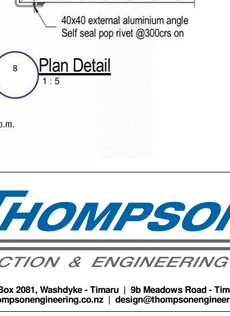
3 Ceiling Panel End to End Detail
1 : 5



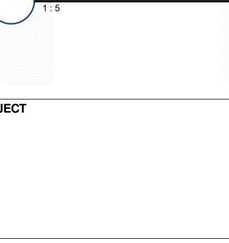
4 Section Detail
1 : 5



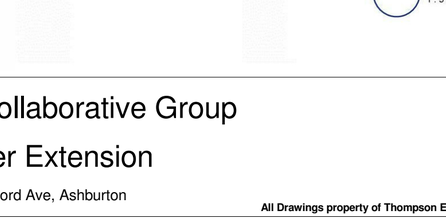
7 Section Detail
1 : 5



5 Typical Opening Cut Detail
1 : 5

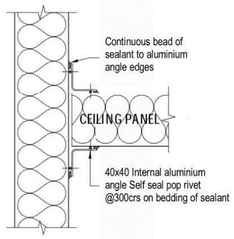


6 Section Detail
1 : 5



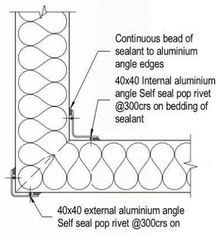
Height of fixings to be confirmed maximum panel span as per manufacturers span charts

11 Section Detail
1 : 5

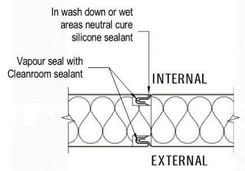


12 Section Detail
1 : 5

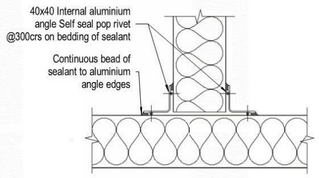
Note:
- All aluminium to be anodised to 20 microns.
- All other flashings to be 0.55 folded Colorsteel



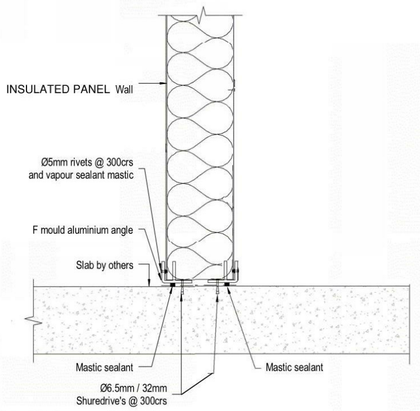
8 Plan Detail
1 : 5



9 Typical Panel Connection Detail
1 : 5



10 Plan Detail
1 : 5



13 Wall / Floor Detail
1 : 5

Note: Coving in corners may be installed at the discretion of the installer and MPI consultant.

4/05/2015 3:52:33 p.m.

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PROJECT

NZ Dairy Collaborative Group

Tower Extension

9 Ashford Ave, Ashburton

Rev#	Amendments	Date

SCALE 1 : 200 @ A2		JOB # 12630	
DRAWN BY B Holloway		DATE 27/10/16	
CHECKED BY Checker		REV	
Refrig Panel Details		**A1302**	
Please note: All dimensions to be verified on site		Paper size: **A2**	

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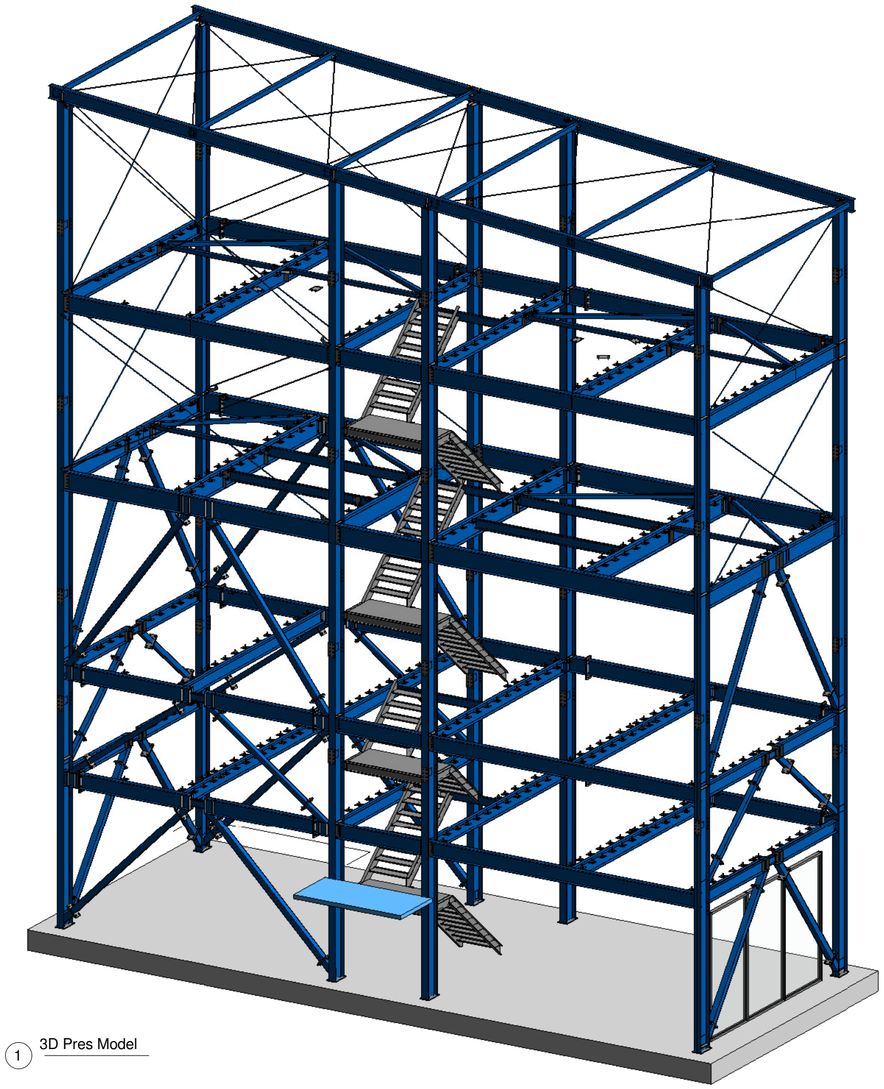
Sheet List			
Sheet Number	Sheet Name	Current Revision	Current Revision Date
S0200	Foundation Plan		
S0300	Full Building Plan		
S0301	Ground Floor		
S0302	Tower Level 1		
S0303	Tower Level 2		
S0304	Tower Level 3		
S0305	Tower Level 4		
S0401	Panel Layout 3D		
S0402	Panel Floor Detail Level 1		
S0403	Panel Floor Detail Level 2		
S0404	Panel Floor Detail Level 3		
S0405	Panel Floor Detail Level 4		
S0500	Structural Roof Plan		
S0600	Sections		
S0603	Gridline T1 and T2		
S0700	Structural Details		
S0701	Structural Details		
S0703	Structural Details- Stairs		

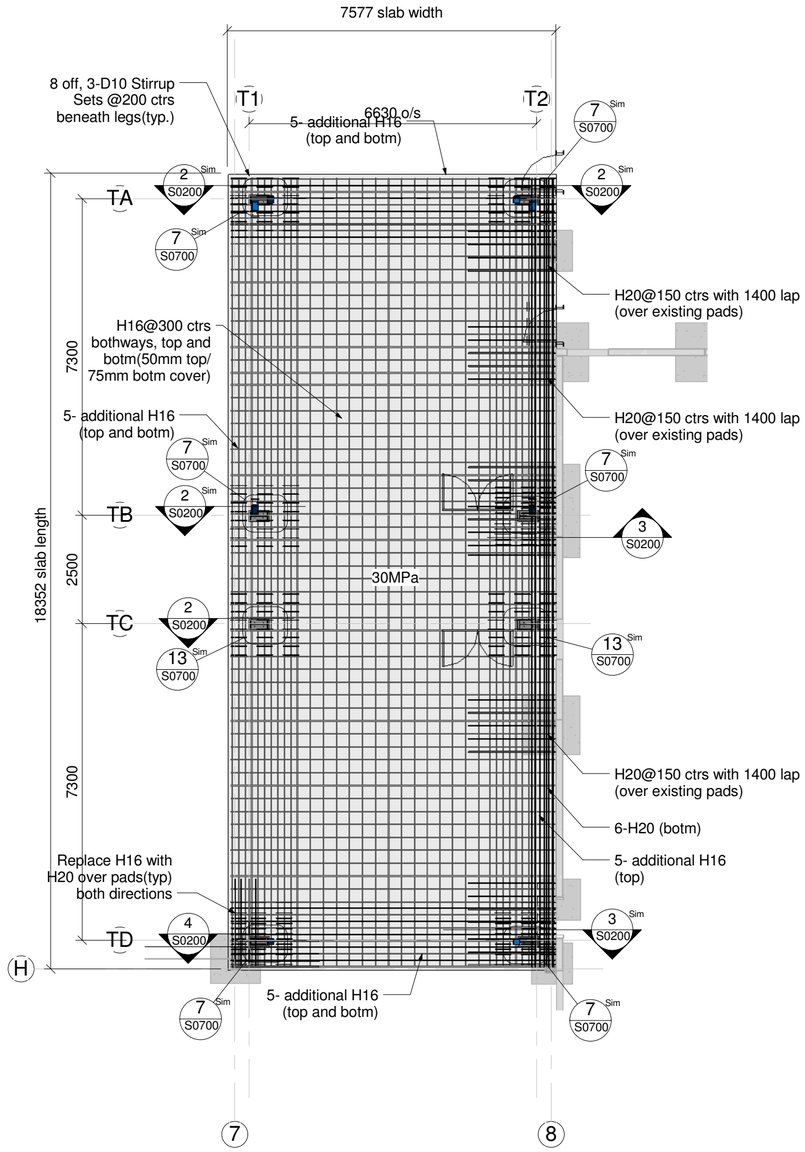


1 3D Pres Model

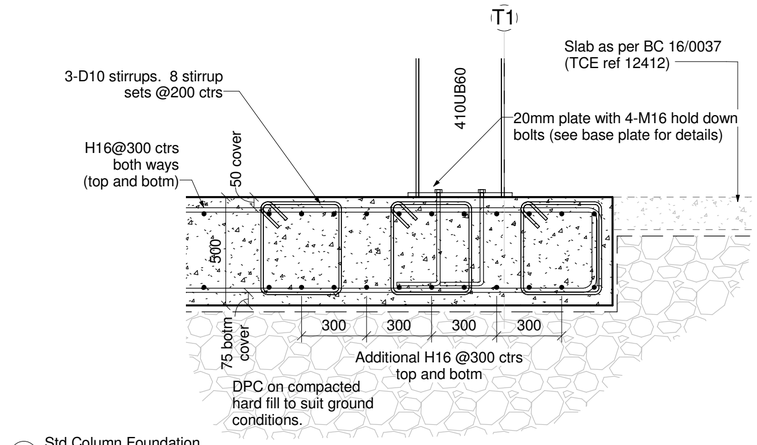
NZ Dairy Collaborative Group
Tower Extension

9 Ashford Ave, Ashburton

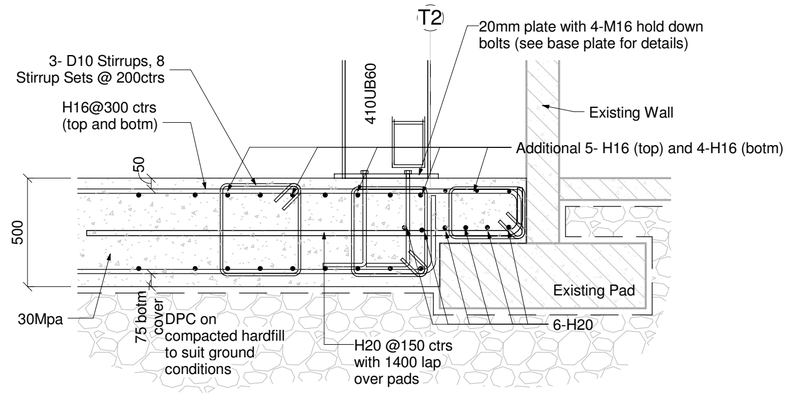
JOB #	12630
DATE:	27/10/16



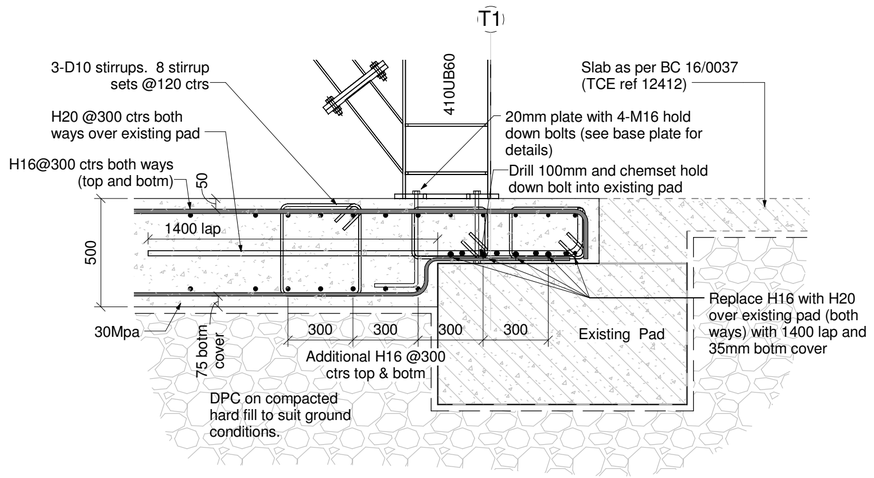
1 Foundation Plan
1 : 100



2 Std Column Foundation
1 : 20



3 Foundation detail near precast wall
1 : 20



4 T1 TD Column Foundation
1 : 20

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PROJECT

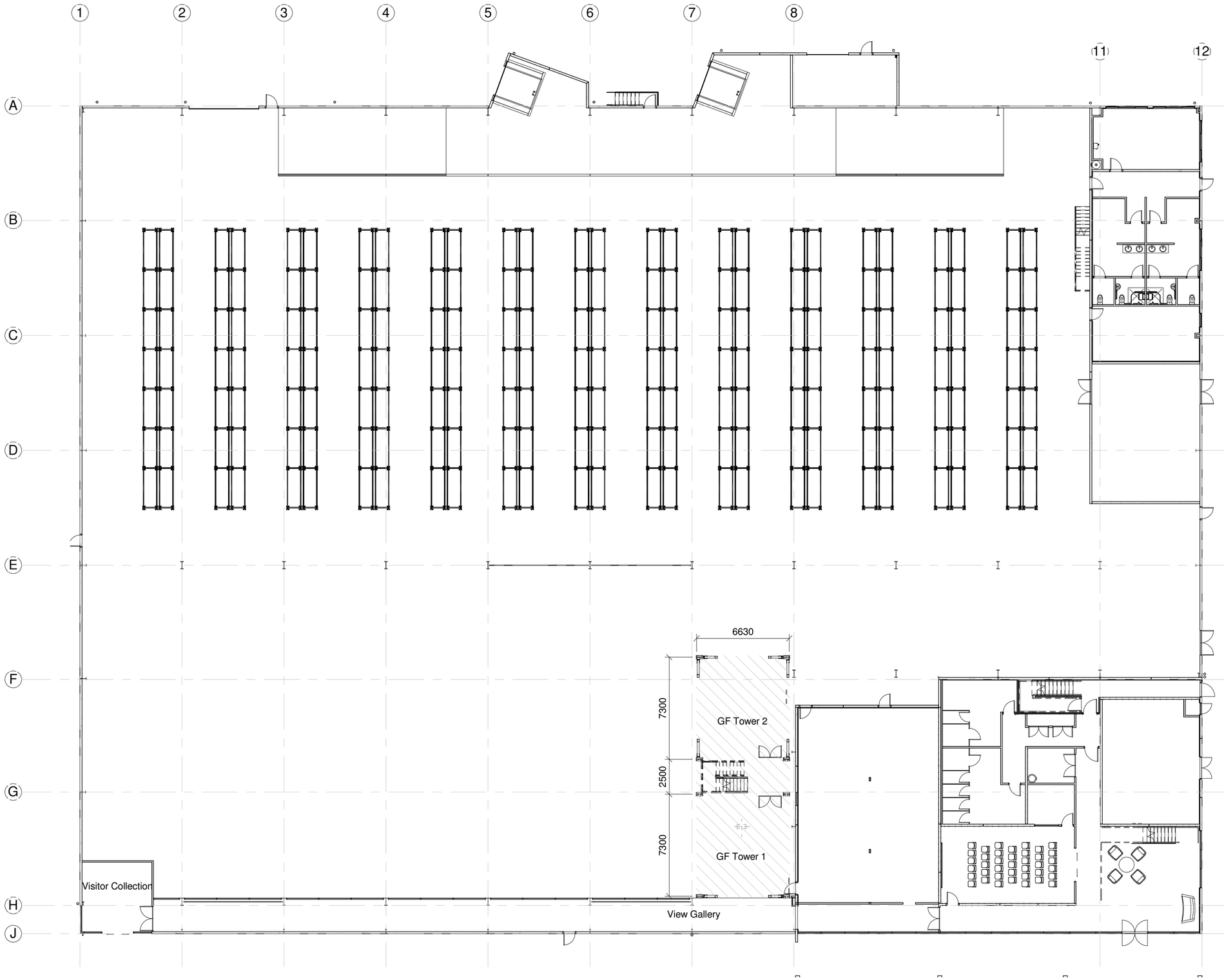
NZ Dairy Collaborative Group

Tower Extension

9 Ashford Ave, Ashburton

Rev#	Amendments	Date

SCALE	As indicated@ A2	JOB #	12630
DRAWN BY	B Holloway	DATE	27/10/16
CHECKED BY	A.Chapman	REV	
Foundation Plan			S0200
Please note: All dimensions to be verified on site		Paper size:	A2



1 Floor Plan (FFL) Whole Building Struct
1 : 200

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PROJECT

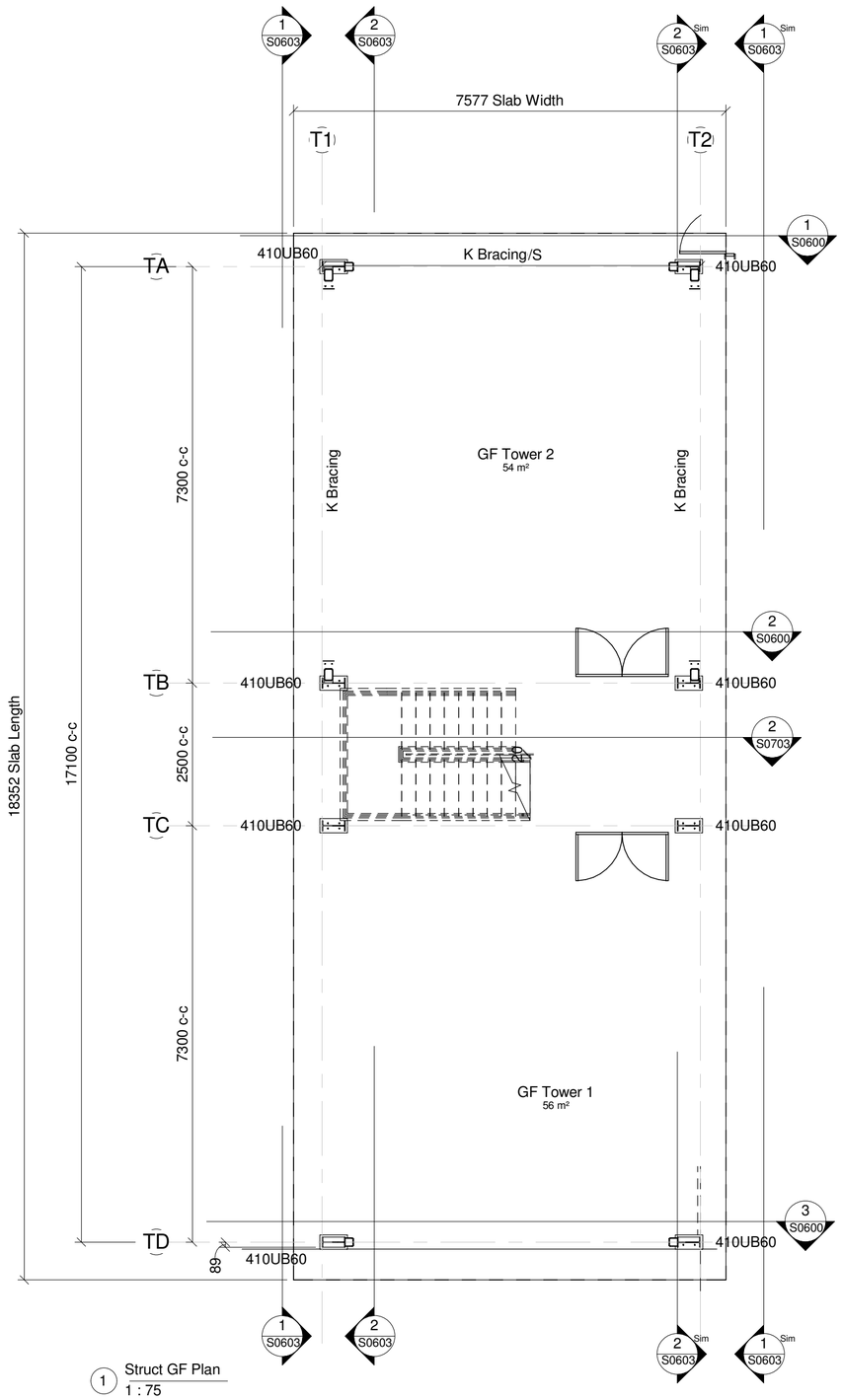
NZ Dairy Collaborative Group

Tower Extension

9 Ashford Ave, Ashburton

Rev#	Amendments	Date

SCALE	1 : 200 @ A2	JOB #	12630
DRAWN BY	B Holloway	DATE	27/10/16
CHECKED BY	A.Chapman	REV	
Full Building Plan		**S0300**	
Please note: All dimensions to be verified on site		Paper size: **A2**	



1 Struct GF Plan
1 : 75

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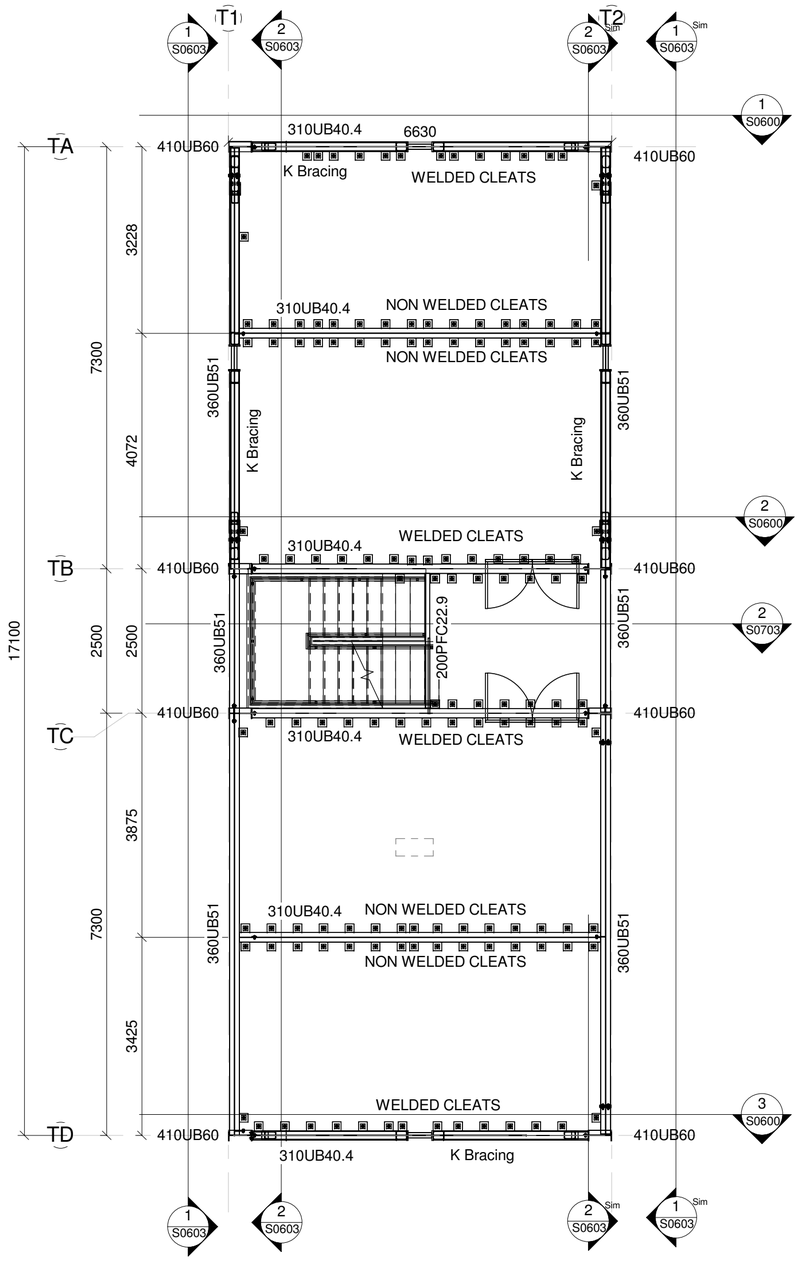
PROJECT

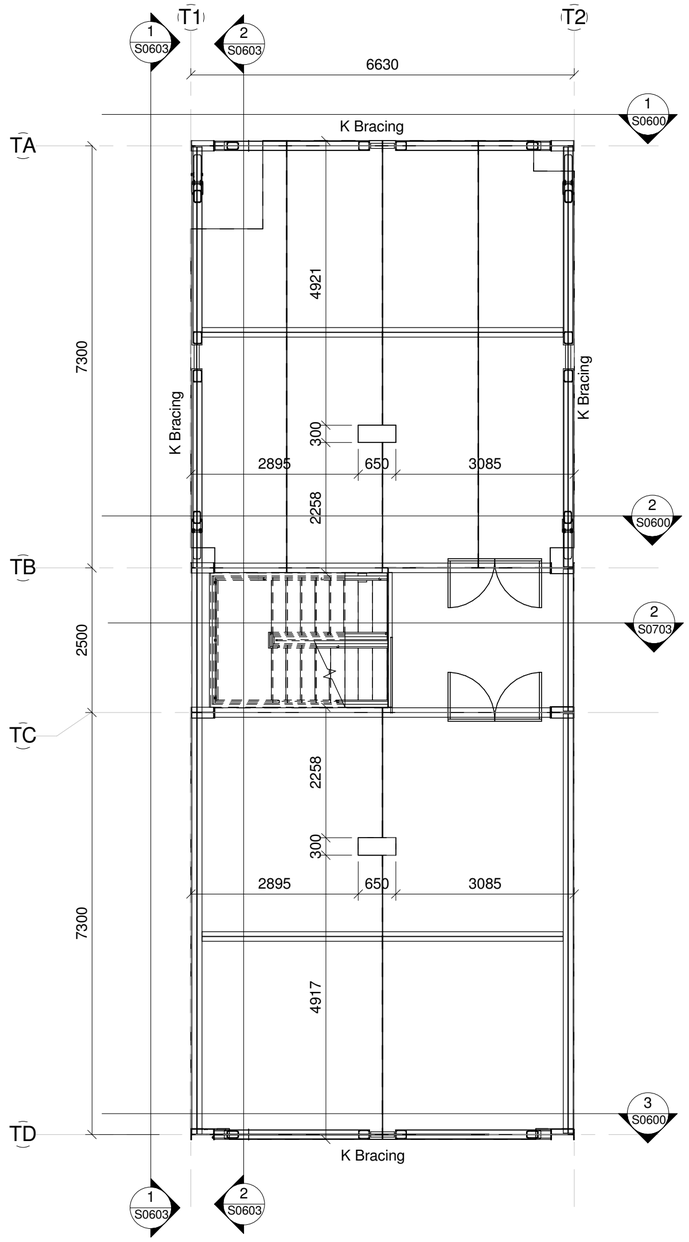
NZ Dairy Collaborative Group
Tower Extension
9 Ashford Ave, Ashburton

Rev#	Amendments	Date

SCALE 1 : 75 @ A2	JOB # 12630	
DRAWN BY B Holloway	DATE 27/10/16	
CHECKED BY A.Chapman	REV	
Ground Floor	**S0301**	
Please note: All dimensions to be verified on site	Paper size: **A2**	



2 Struct Level T1 Midfloor
1 : 75



1 Struct Level T1 Plant
1 : 75

TOWER 2
PENETRATIONS
MIRROR OF
TOWER 1

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PROJECT

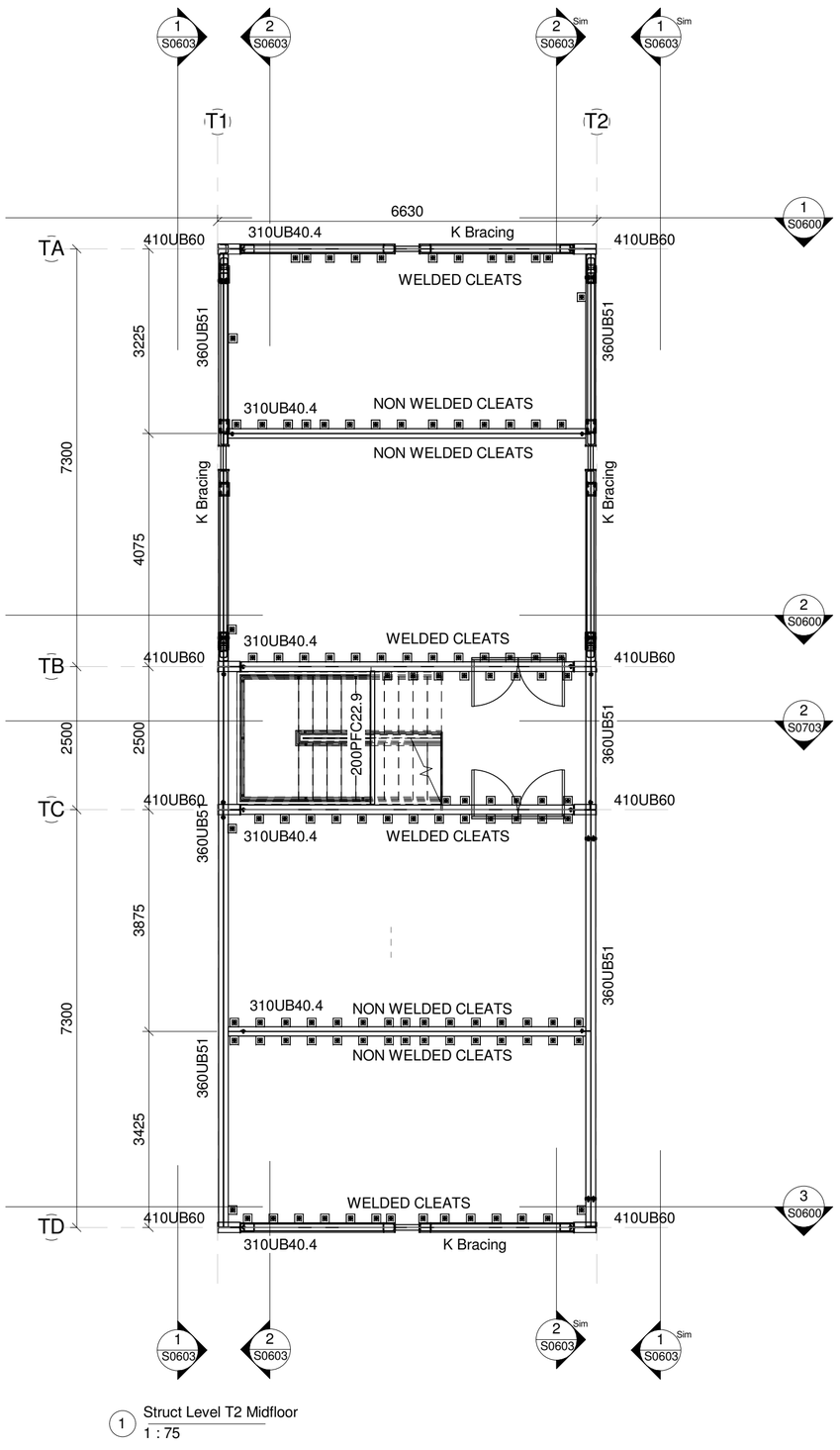
NZ Dairy Collaborative Group

Tower Extension

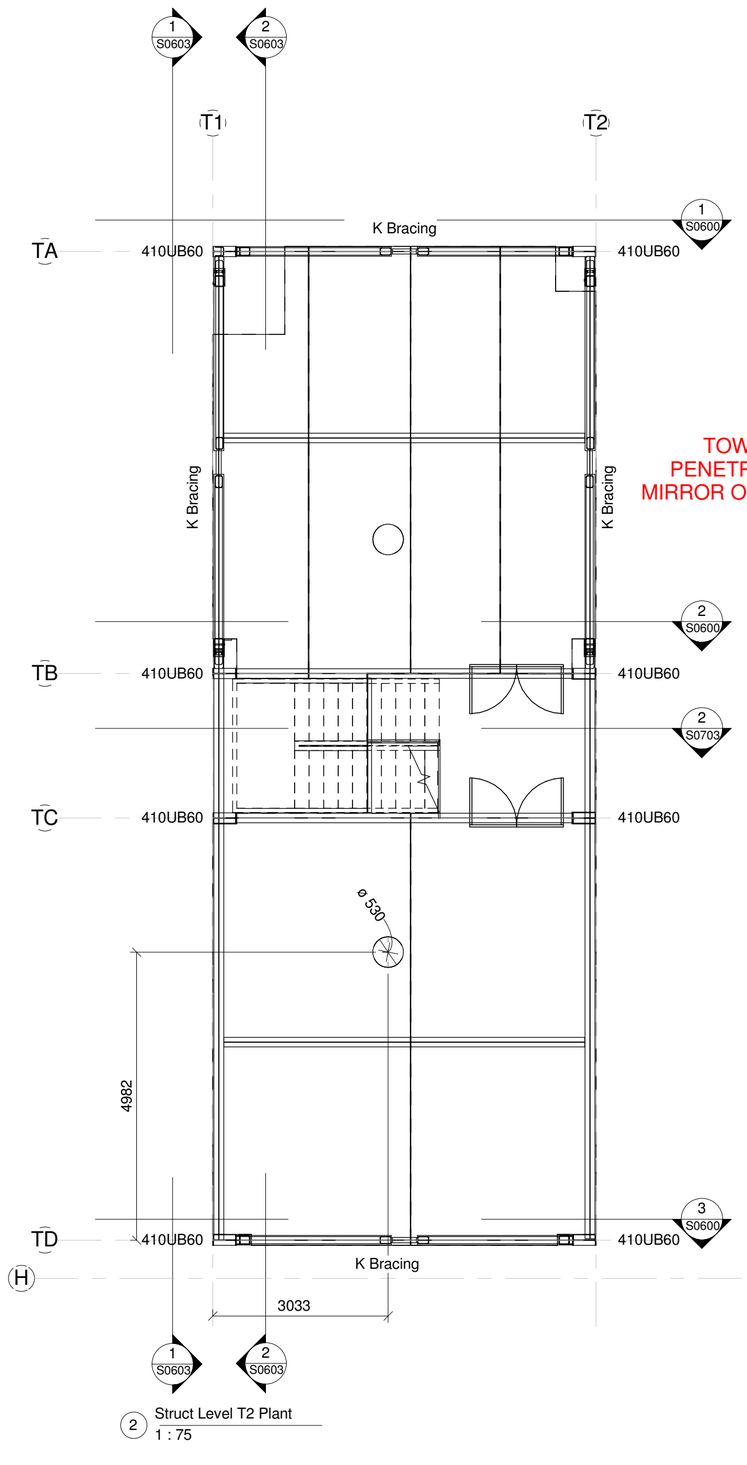
9 Ashford Ave, Ashburton

Rev#	Amendments	Date

SCALE	1 : 75 @ A2	JOB #	12630
DRAWN BY	B Holloway	DATE	27/10/16
CHECKED BY	A.Chapman	REV	
Tower Level 1		S0302	
Please note: All dimensions to be verified on site		Paper size: A2	



1 Struct Level T2 Midfloor
1 : 75



TOWER 2
PENETRATIONS
MIRROR OF TOWER 1

2 Struct Level T2 Plant
1 : 75

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PROJECT

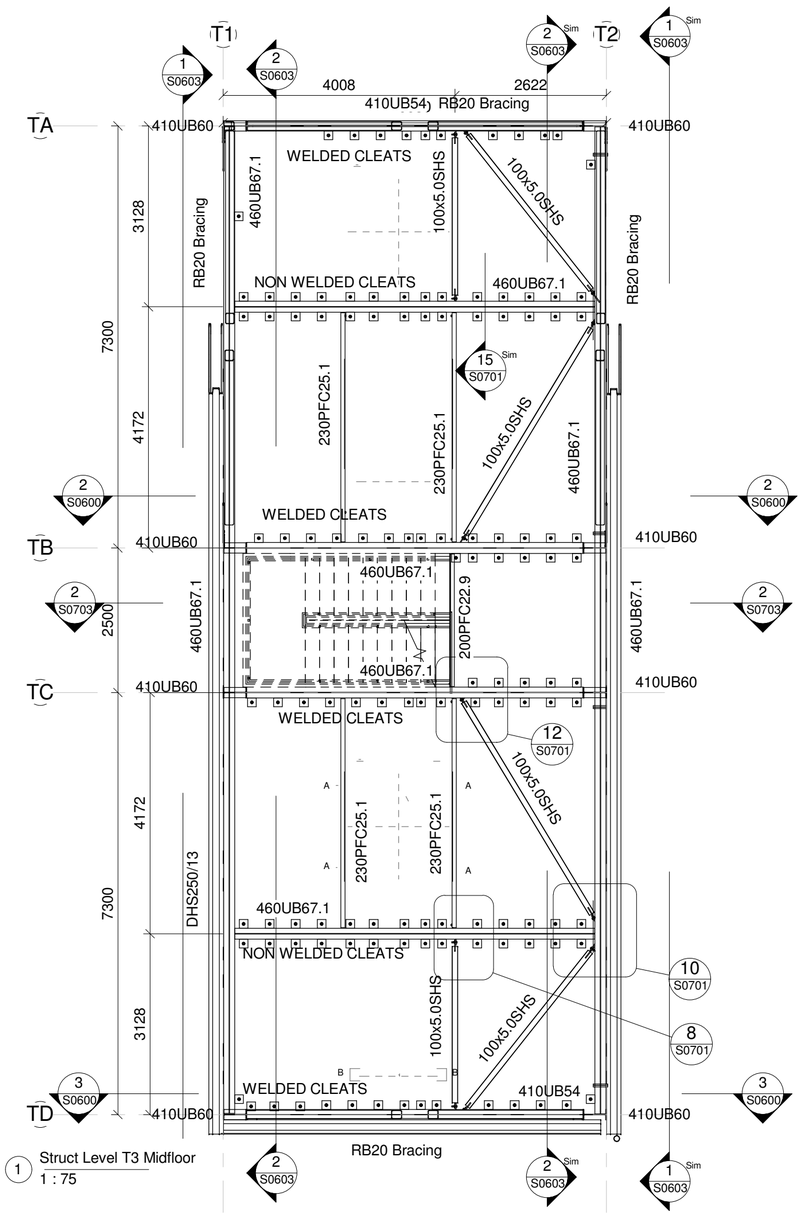
NZ Dairy Collaborative Group

Tower Extension

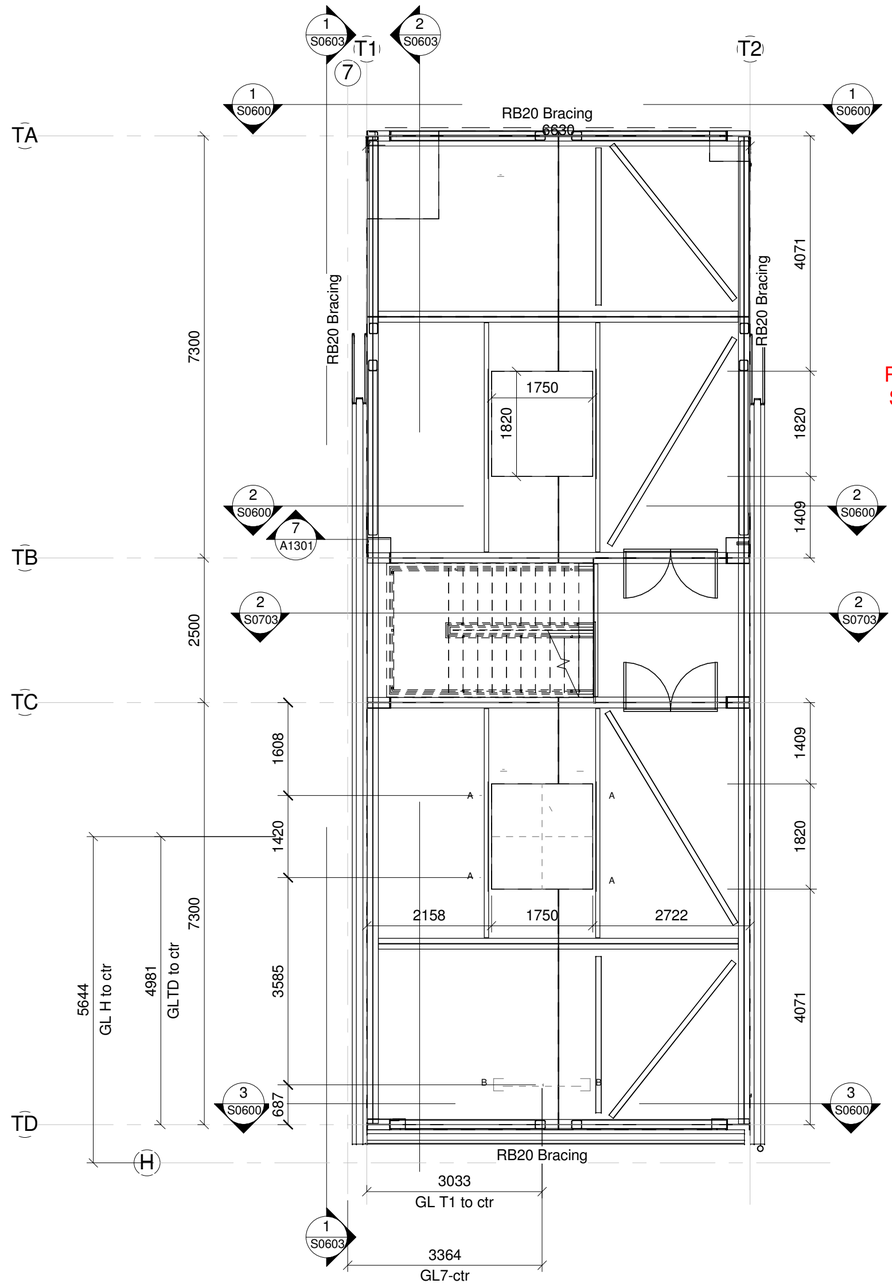
9 Ashford Ave, Ashburton

Rev#	Amendments	Date

SCALE	1 : 75 @ A2	JOB #	12630
DRAWN BY	B Holloway	DATE	27/10/16
CHECKED BY	A.Chapman	REV	
Tower Level 2		S0303	
Please note: All dimensions to be verified on site		Paper size: A2	



1 Struct Level T3 Midfloor
1 : 75

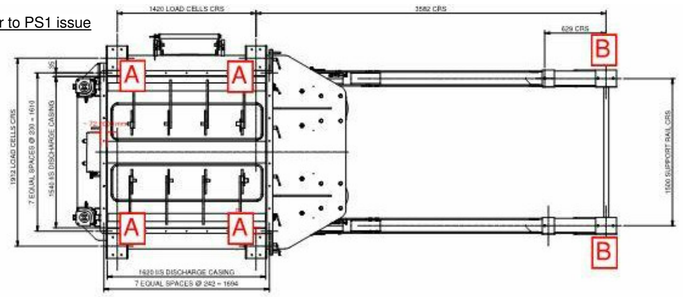


2 Struct Level T3 Plant
1 : 75

TOWER 2
PENETRATION
S MIRROR OF
TOWER 1

Blender Point Loads as per GEA 270 03008-000 (GEA to confirm prior to PS1 issue

A:
Empty Load: 14.7 kN
Full Load: 16.6 kN
B:
(Rotors Withdrawn)
Load: 7.5 kN



Mixer Load Chart
1 : 100

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PROJECT

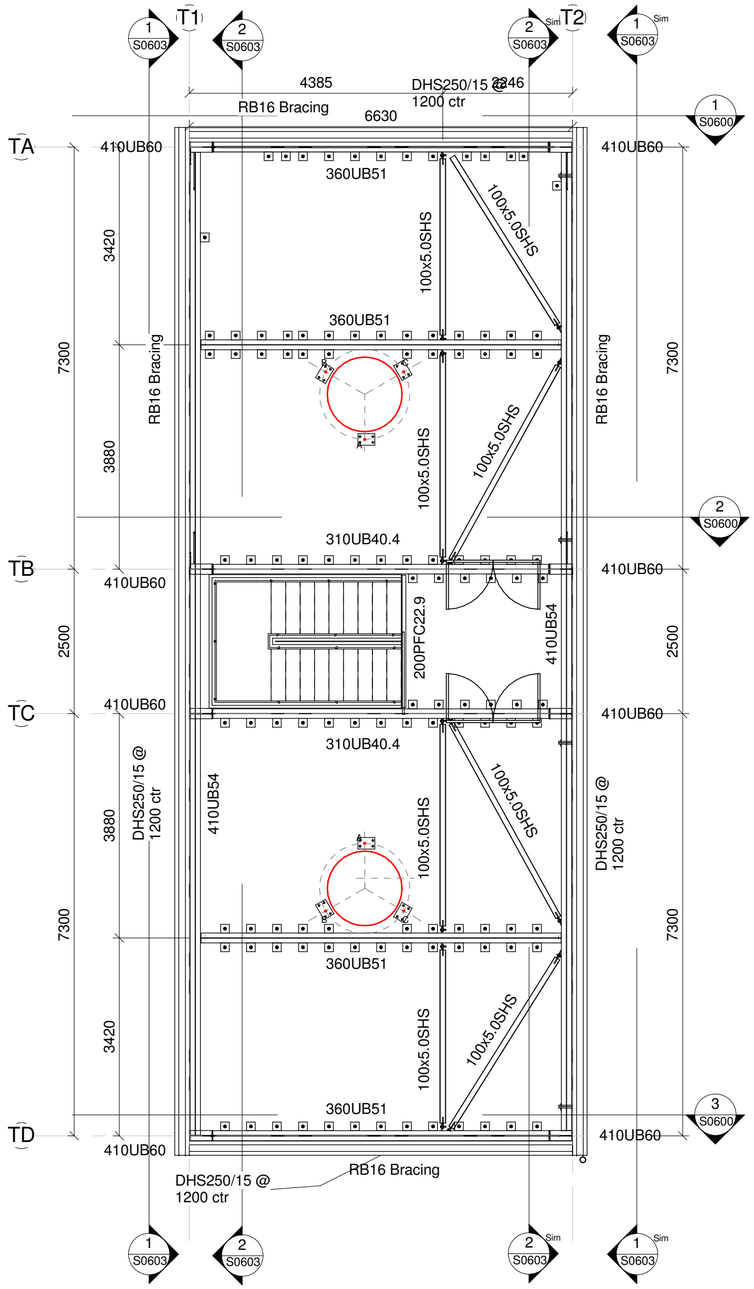
NZ Dairy Collaborative Group

Tower Extension

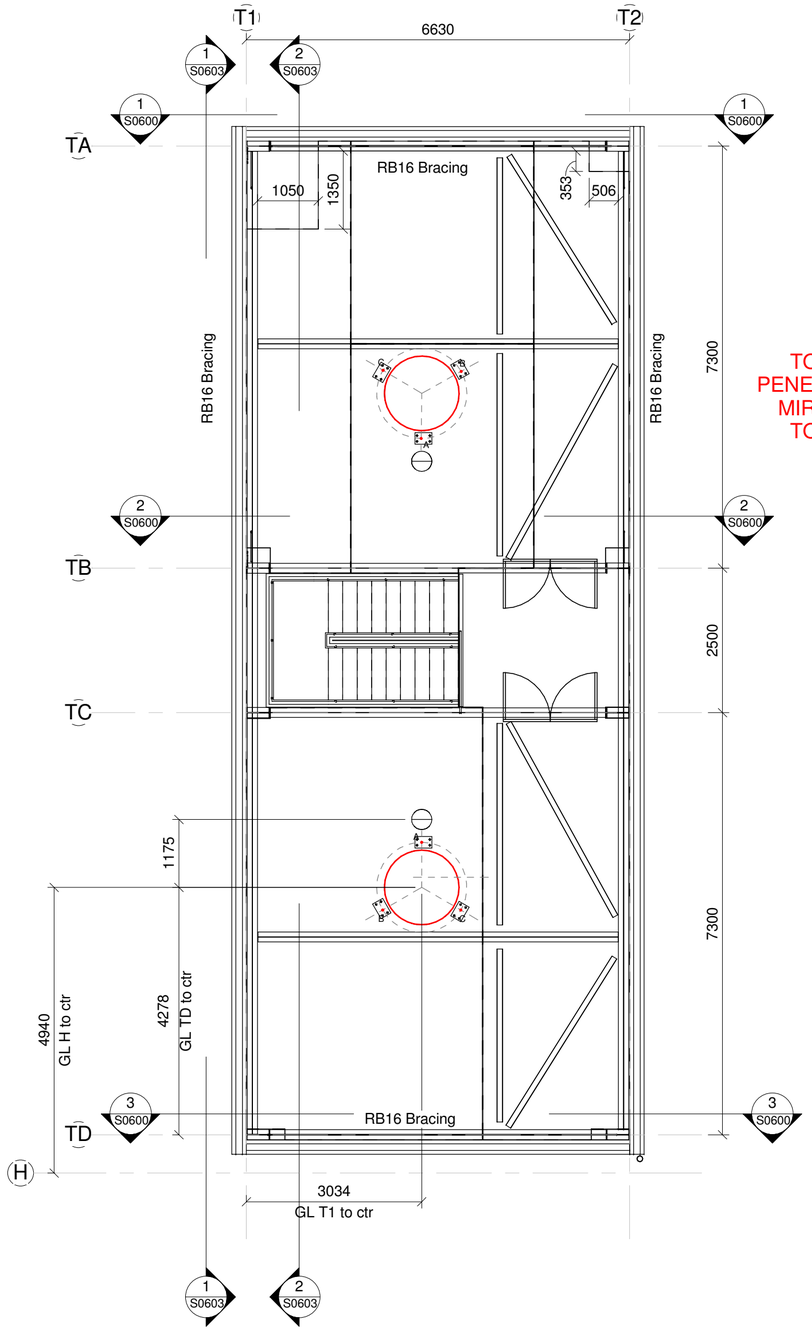
9 Ashford Ave, Ashburton

Rev#	Amendments	Date

SCALE	As indicated@ A2	JOB #	12630
DRAWN BY	B Holloway	DATE	27/10/16
CHECKED BY	A.Chapman	REV	
Tower Level 3			S0304
Please note: All dimensions to be verified on site		Paper size:	A2



1 Struct Level T4 Midfloor
1 : 75



TOWER 2
PENETRATIONS
MIRROR OF
TOWER 1

2 Struct Level T4 Plant
1 : 75

Seperator Point Loads from GEA 21018-0200 (GEA to check prior to PS1 issue)

VESSEL: 1.5m³ SEPARATOR	PRODUCT: TO BE CONFIRMED		
LOADING TYPE	LOAD AT A (kN)	LOAD AT B (kN)	LOAD AT C (kN)
EMPTY	1.7	1.7	1.7
FILLED WITH PRODUCT	4.0	4.0	4.0
WATER FILLED	8.1	8.1	8.1

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PROJECT

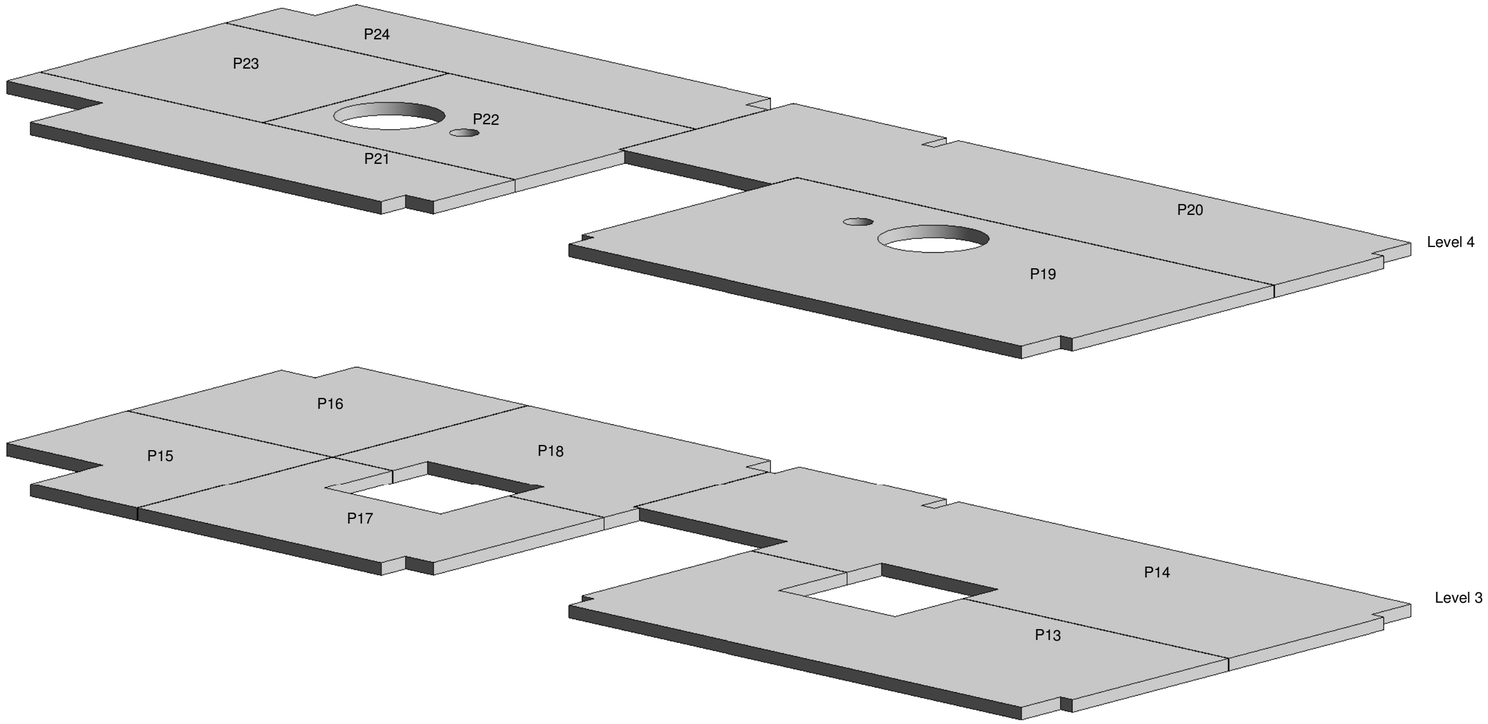
NZ Dairy Collaborative Group

Tower Extension

9 Ashford Ave, Ashburton

Rev#	Amendments	Date

SCALE	As indicated@ A2	JOB #	12630
DRAWN BY	B Holloway	DATE	27/10/16
CHECKED BY	A.Chapman	REV	
Tower Level 4		S0305	
Please note: All dimensions to be verified on site		Paper size: A2	



1 Panels 3d

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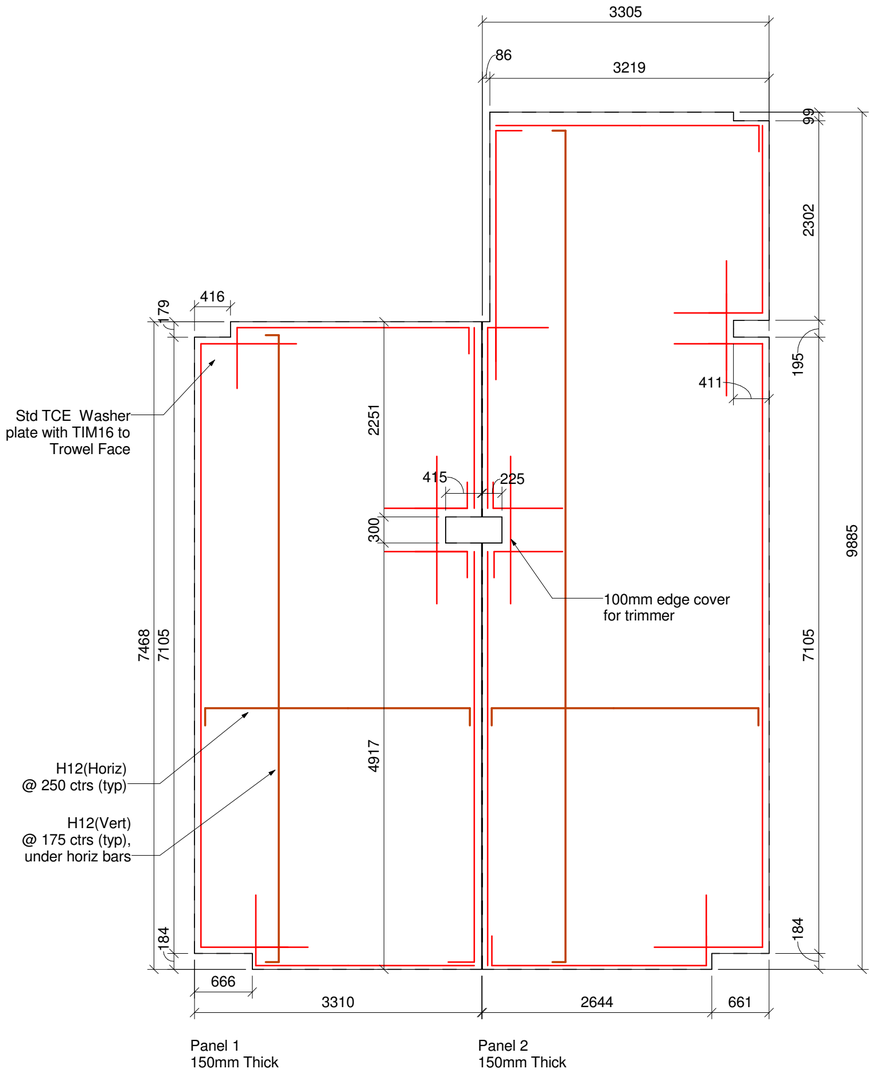
NZ Dairy Collaborative Group

Tower Extension

9 Ashford Ave, Ashburton

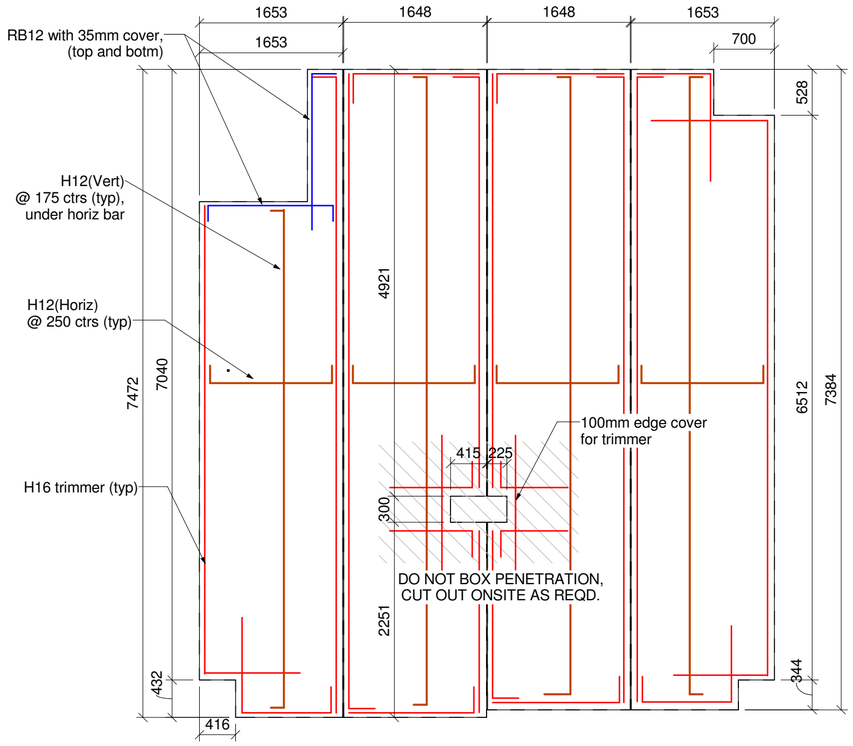
Rev#	Amendments	Date

SCALE @ A2		JOB #	12630
DRAWN BY	B Holloway	DATE	27/10/16
CHECKED BY	A.Chapman	REV	
Panel Layout 3D			**S0401**
Please note: All dimensions to be verified on site		Paper size:	A2



Panel 1
150mm Thick

Panel 2
150mm Thick



Panel 3
150mm Thk

Panel 4
150mm Thk

Panel 5
150mm Thk

Panel 6
150mm Thk

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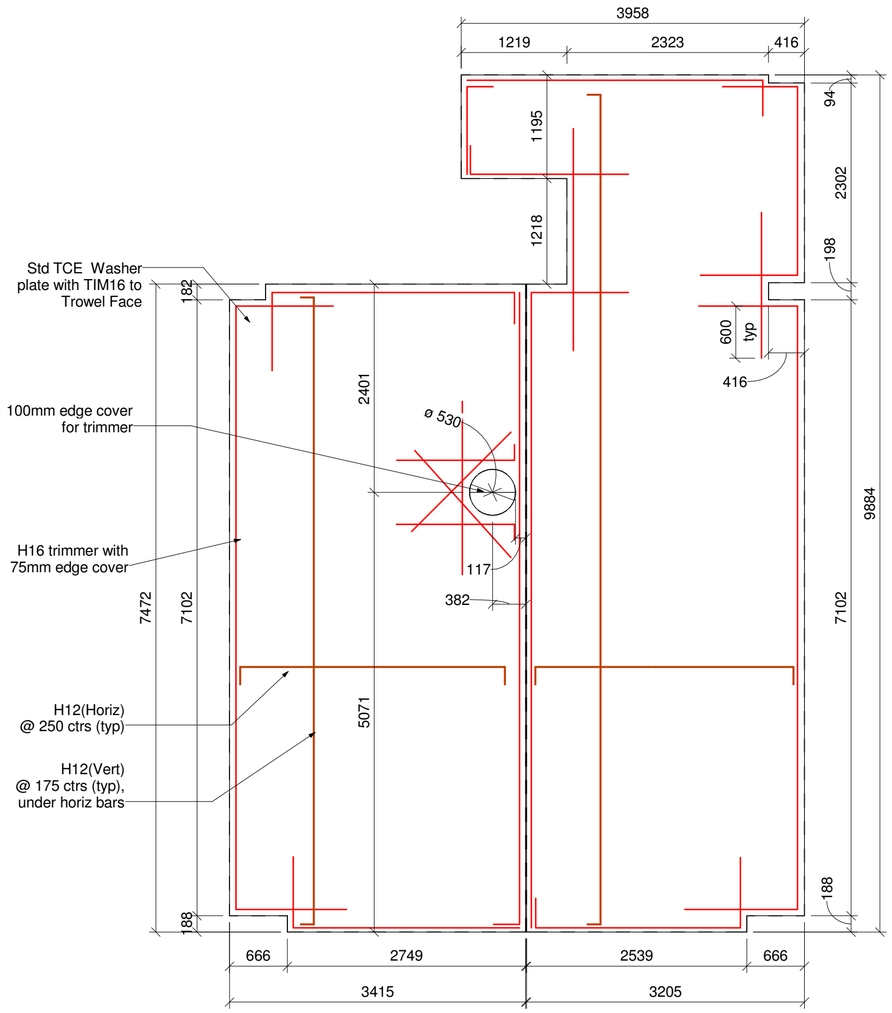
NZ Dairy Collaborative Group

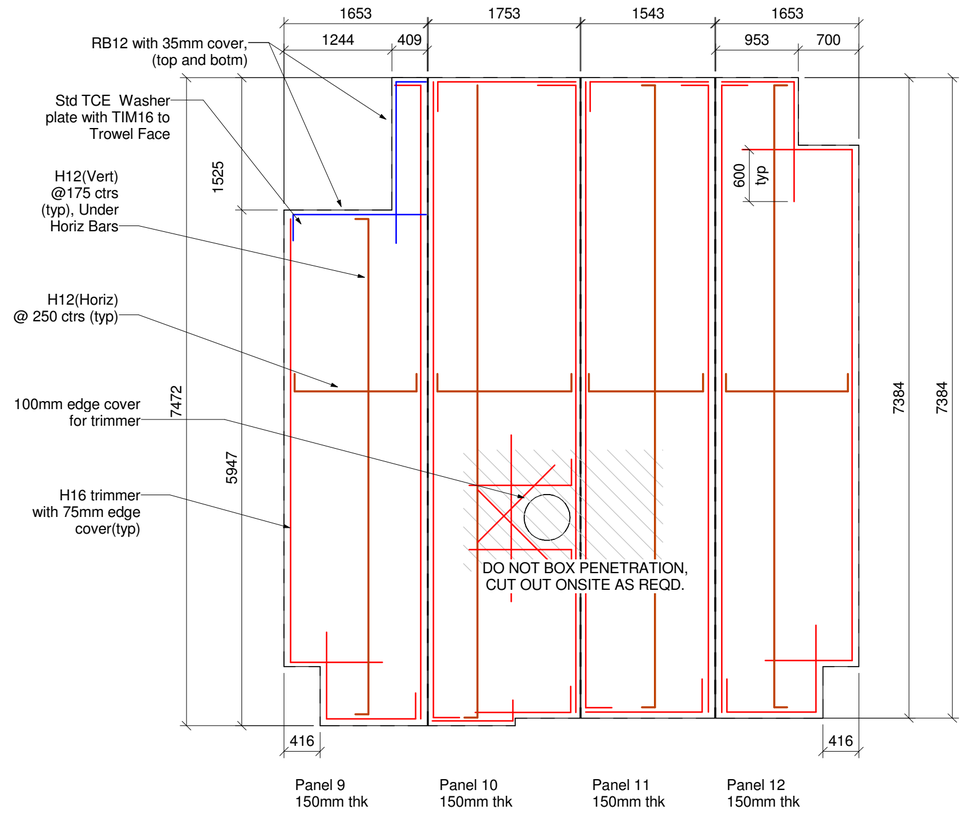
Tower Extension

9 Ashford Ave, Ashburton

Rev#	Amendments	Date

SCALE	1 : 50 @ A2	JOB #	12630
DRAWN BY	B Holloway	DATE	27/10/16
CHECKED BY	A.Chapman	REV	
Panel Floor Detail Level 1			**S0402**
Please note: All dimensions to be verified on site		Paper size:	**A2**





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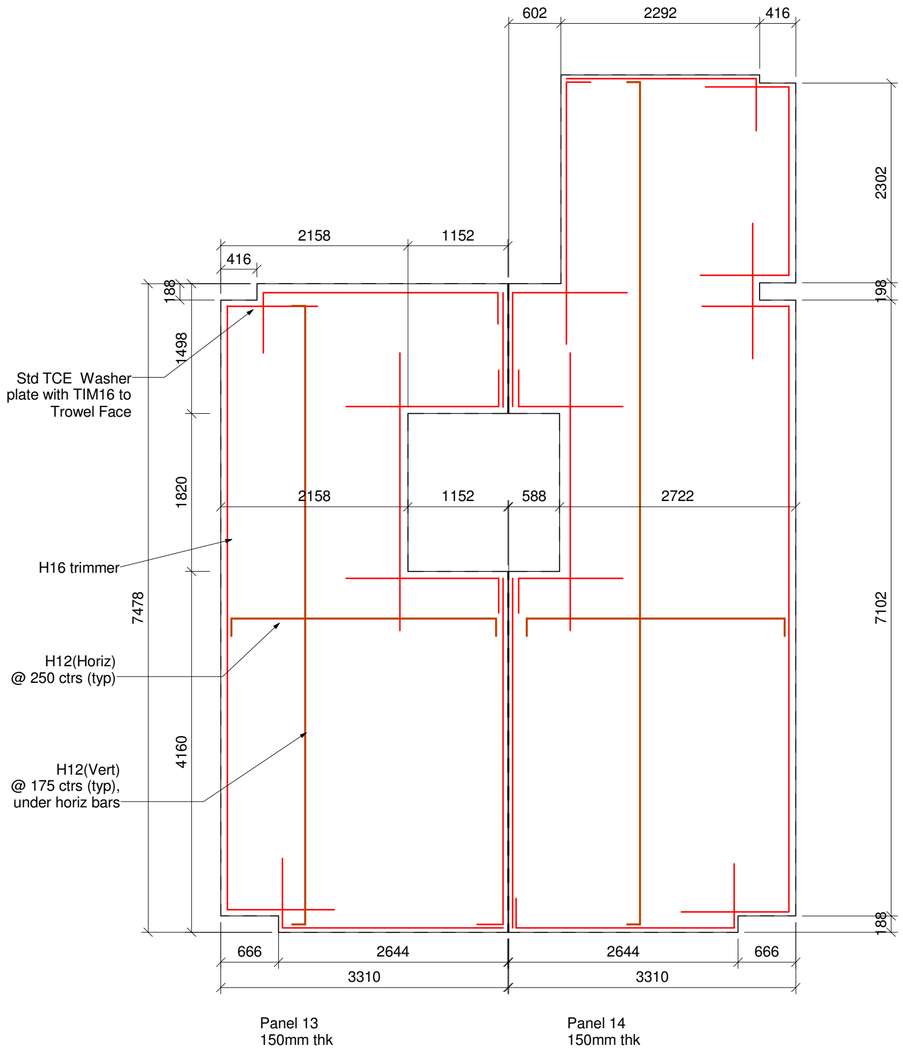
NZ Dairy Collaborative Group

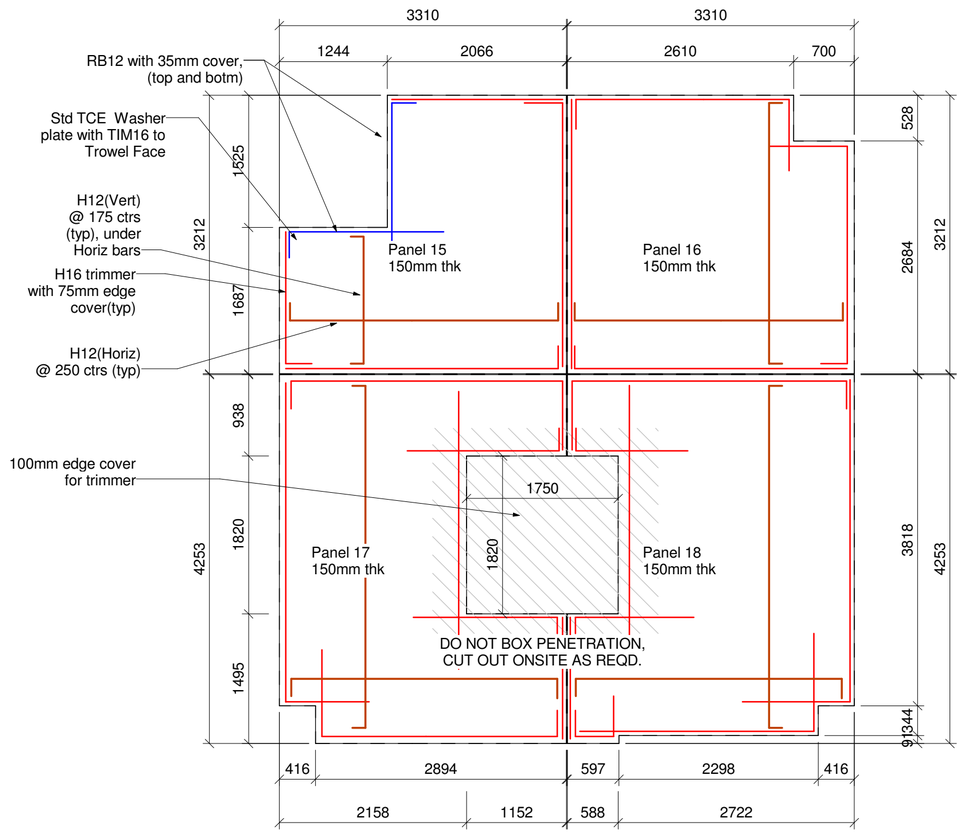
Tower Extension

9 Ashford Ave, Ashburton

Rev#	Amendments	Date

SCALE	1 : 50 @ A2	JOB #	12630
DRAWN BY	B Holloway	DATE	27/10/16
CHECKED BY	A.Chapman	REV	
Panel Floor Detail Level 2			**S0403**
Please note: All dimensions to be verified on site		Paper size:	**A2**





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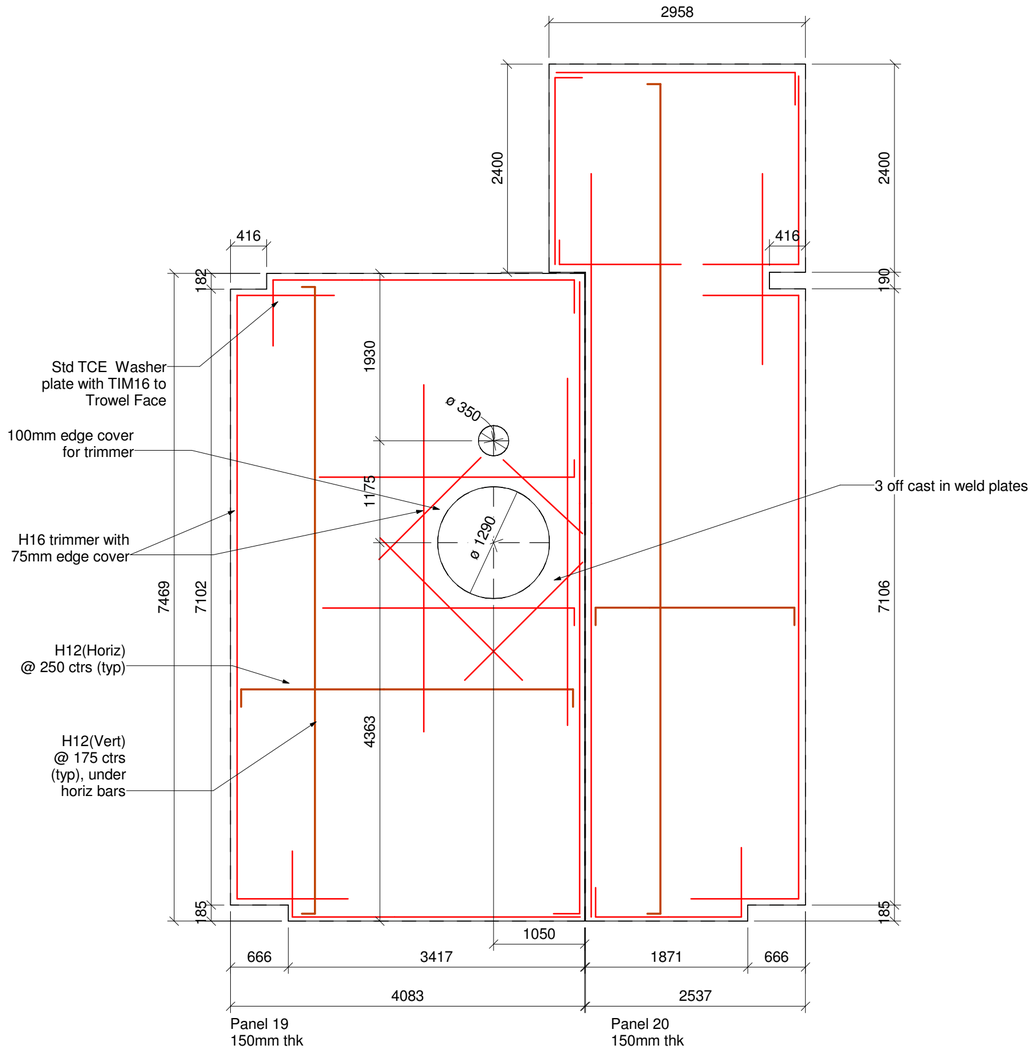
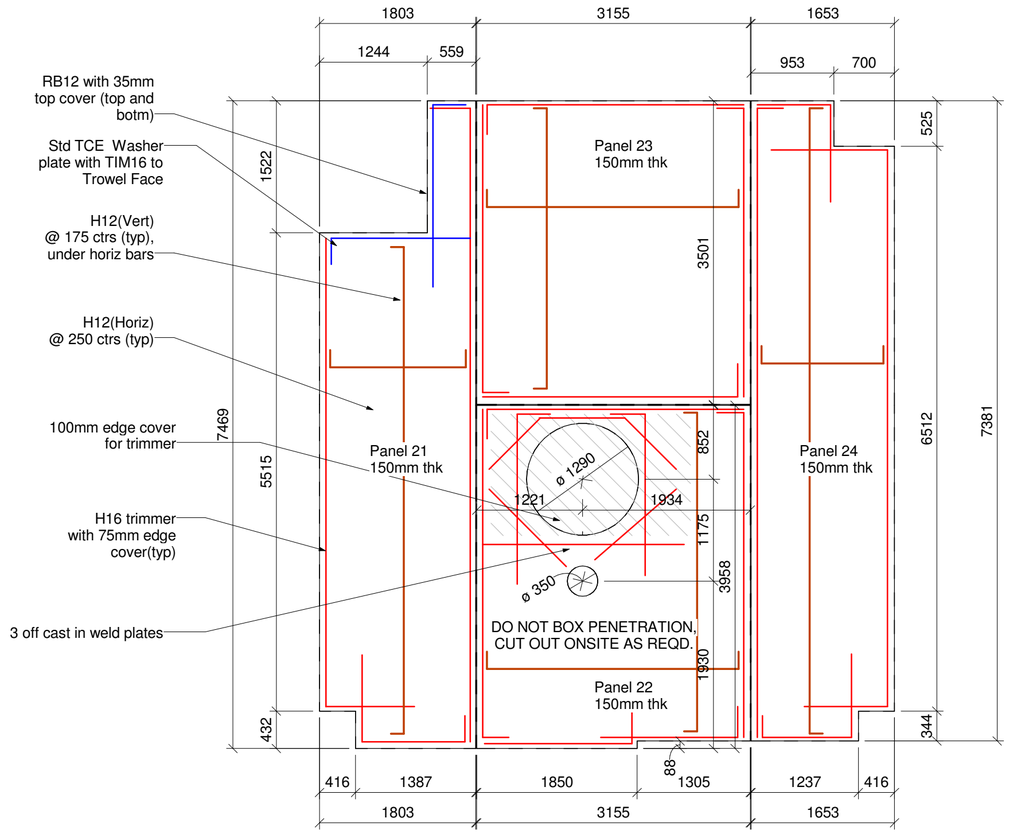
Tower Extension

9 Ashford Ave, Ashburton

Rev#	Amendments	Date

SCALE 1 : 50 @ A2		JOB # 12630	
DRAWN BY B Holloway		DATE 27/10/16	
CHECKED BY A.Chapman		REV	
Panel Floor Detail Level 3		**S0404**	
Please note: All dimensions to be verified on site		Paper size: **A2**	





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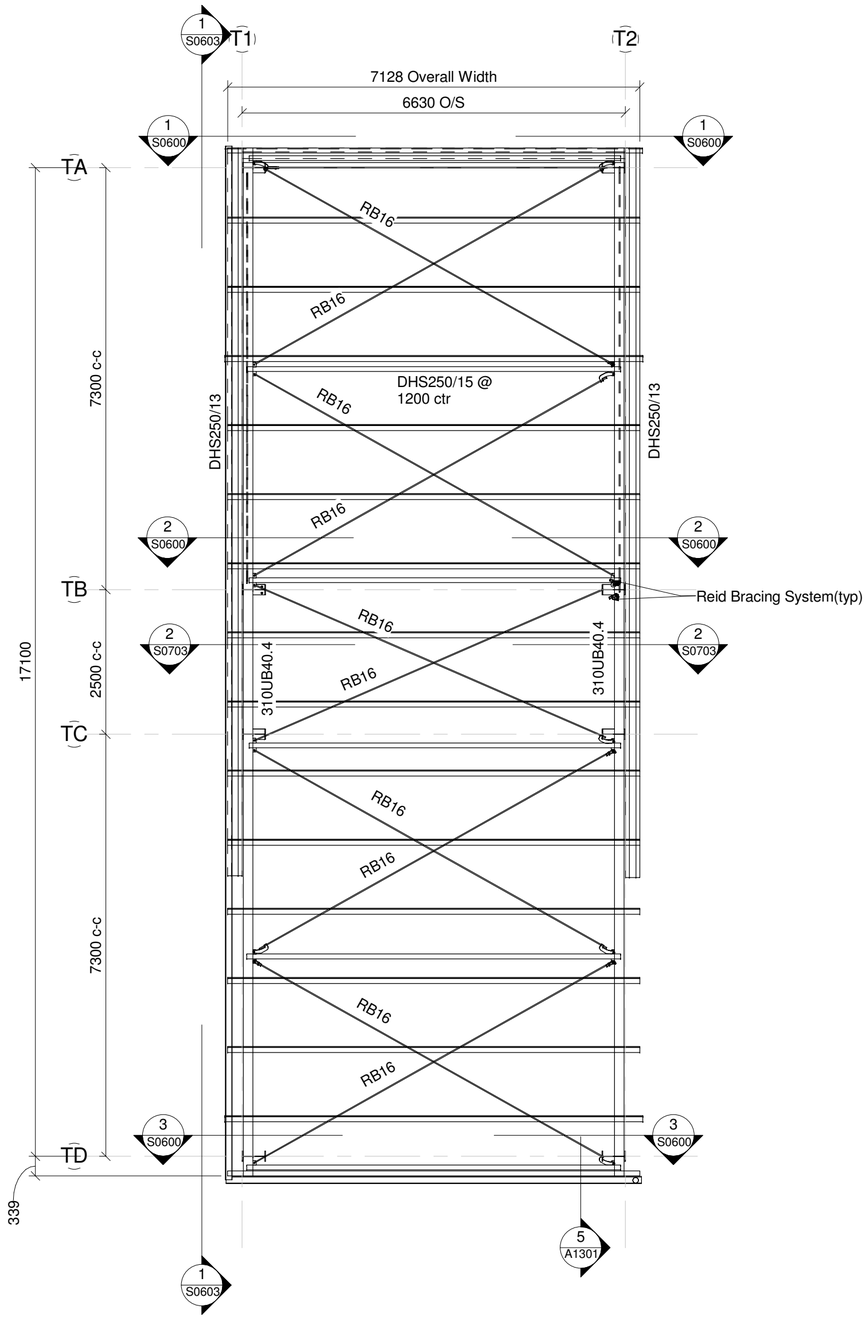
Tower Extension

9 Ashford Ave, Ashburton

Rev#	Amendments	Date

SCALE	1 : 50 @ A2	JOB #	12630
DRAWN BY	B Holloway	DATE	27/10/16
CHECKED BY	A.Chapman	REV	
Panel Floor Detail Level 4		S0405	
Please note: All dimensions to be verified on site		Paper size: A2	



1 Structural Roof Plan
1 : 75

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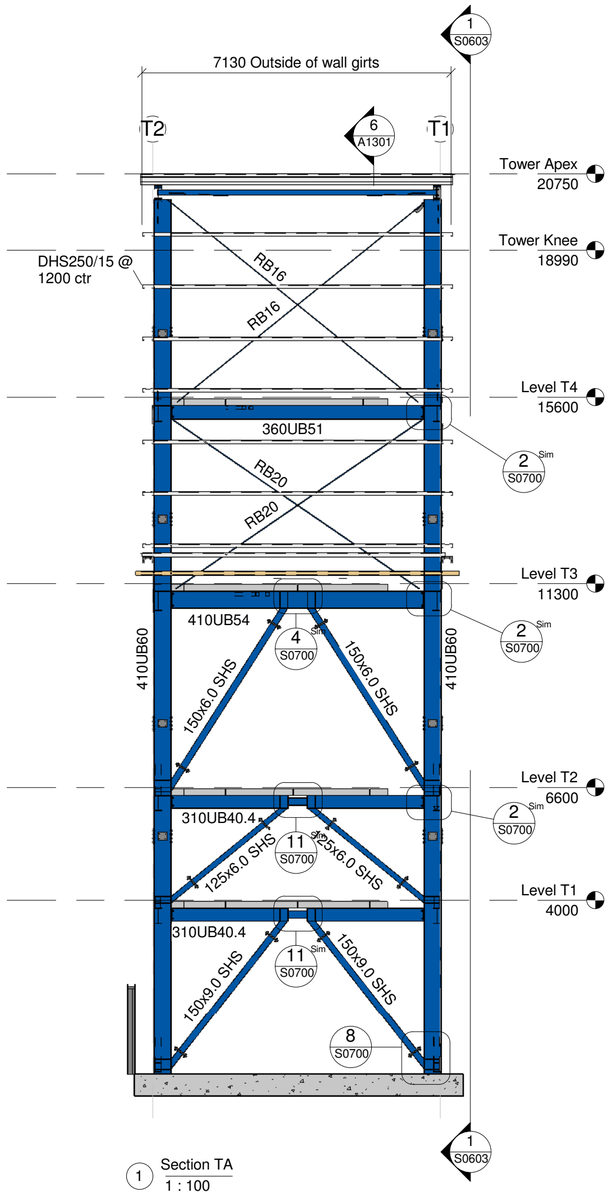
Tower Extension

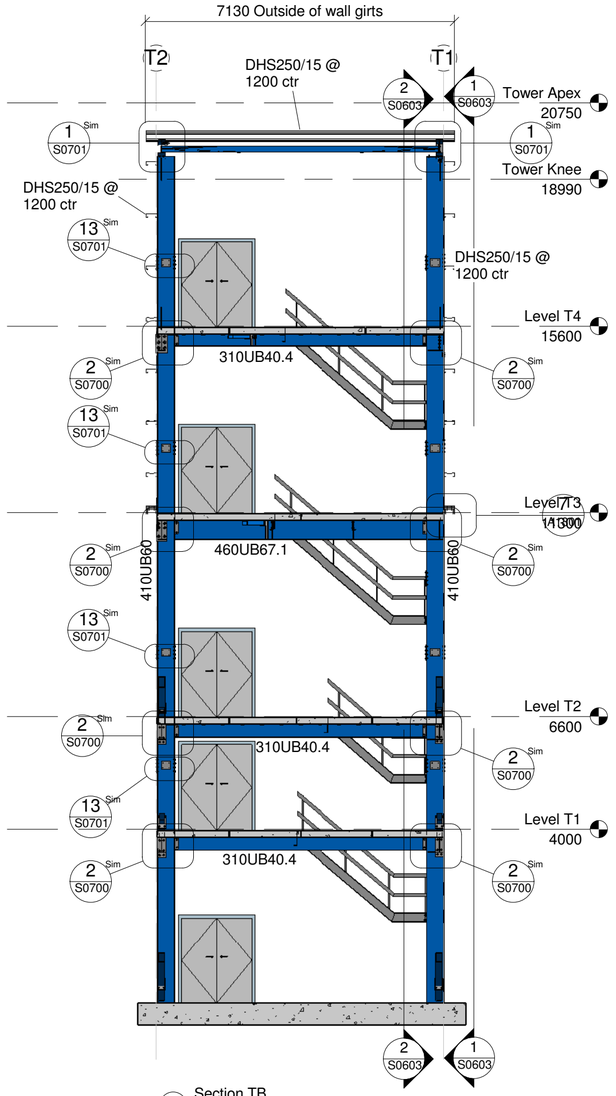
9 Ashford Ave, Ashburton

Rev#	Amendments	Date

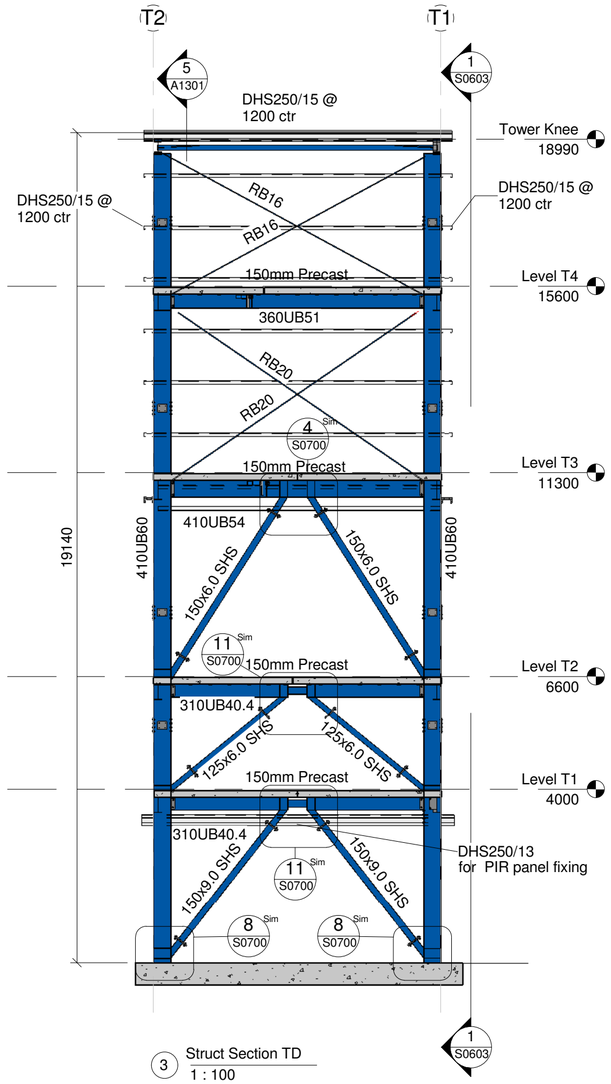
SCALE 1 : 75 @ A2		JOB # 12630	
DRAWN BY B Holloway		DATE 27/10/16	
CHECKED BY A.Chapman		REV	
Structural Roof Plan		**S0500**	
Please note: All dimensions to be verified on site		Paper size: **A2**	



1 Section TA
1 : 100



2 Section TB
1 : 100



3 Struct Section TD
1 : 100

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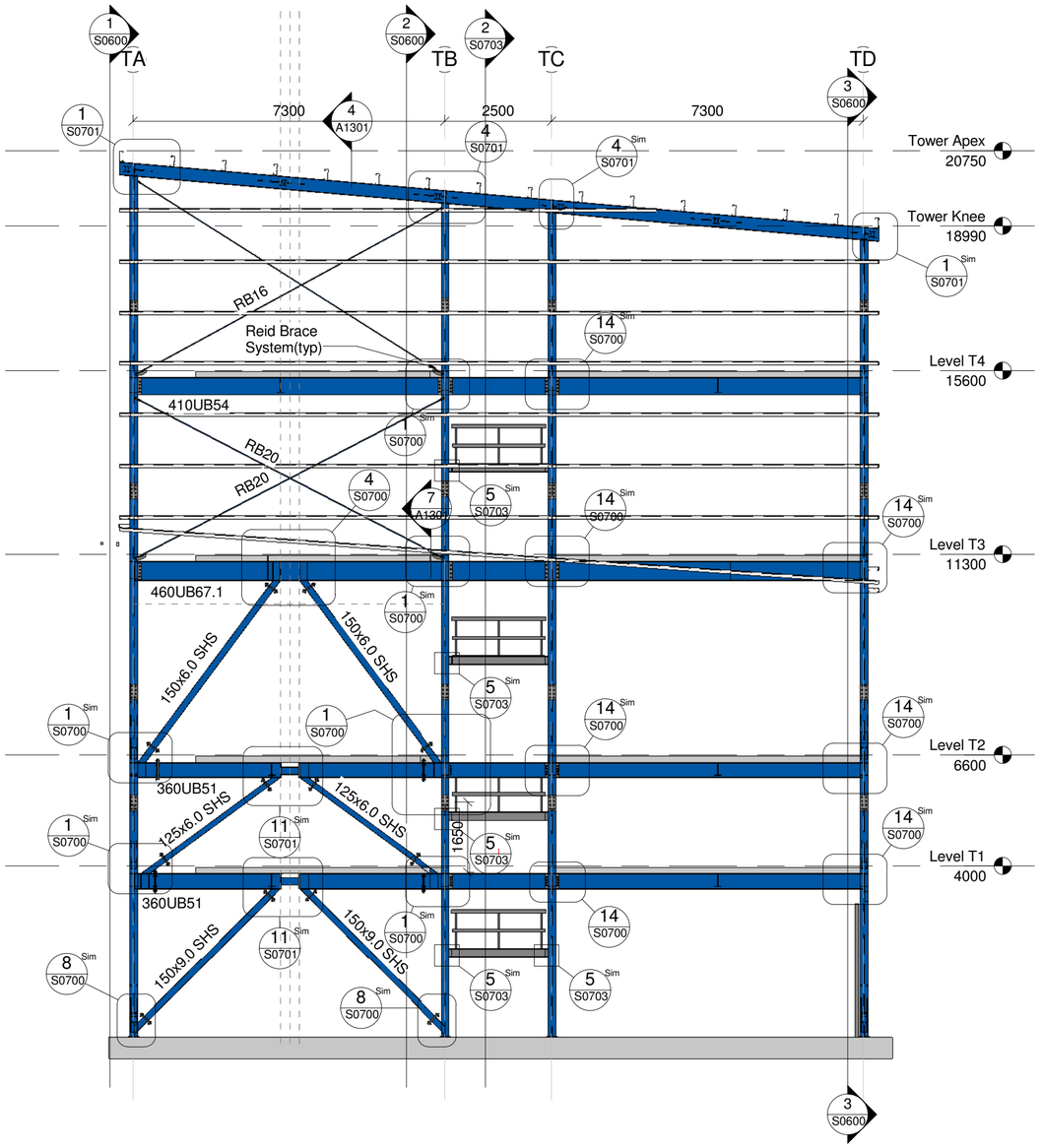
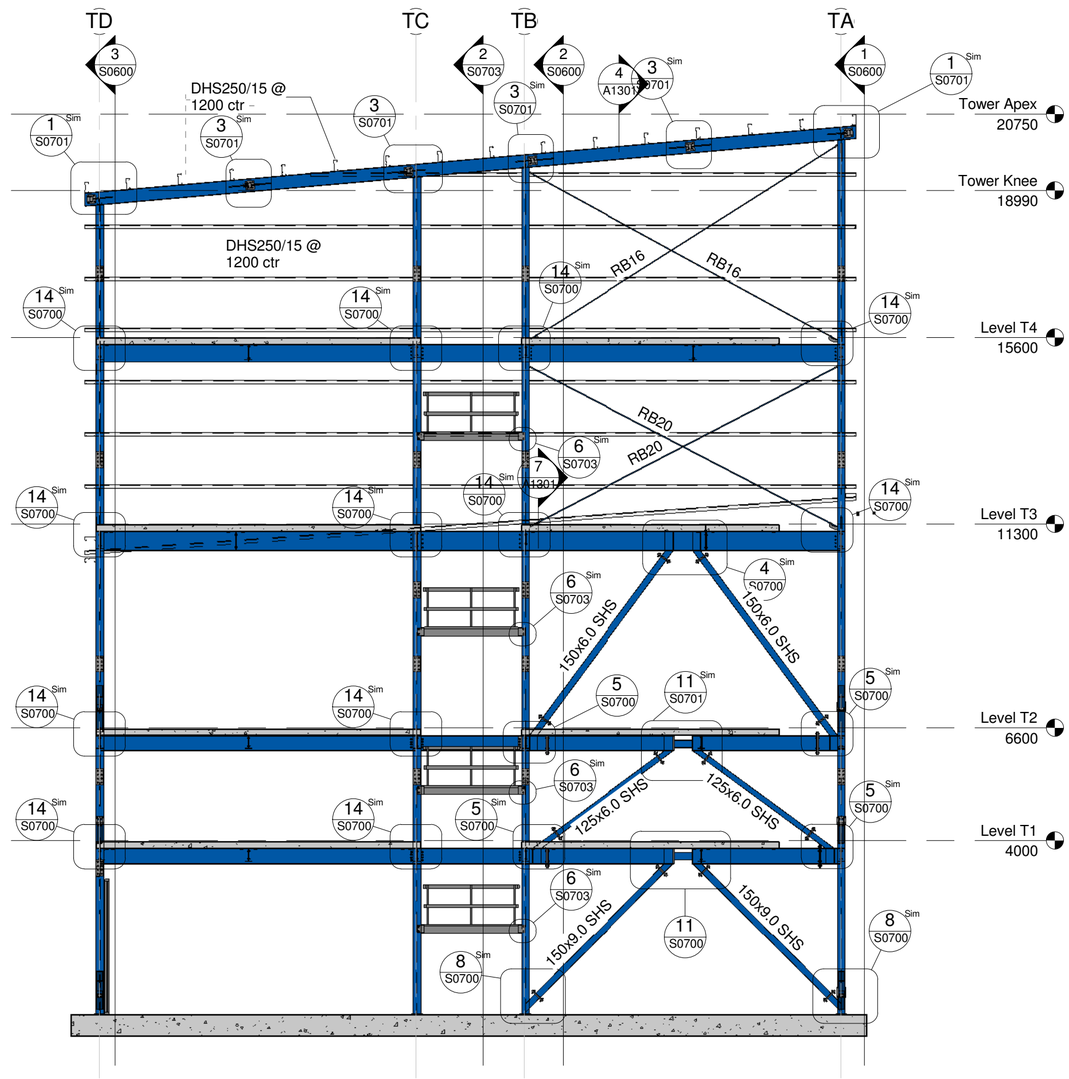
Rev#	Amendments	Date

SCALE	1 : 100 @ A2	JOB #	12630
DRAWN BY	B Holloway	DATE	27/10/16
CHECKED BY	A.Chapman	REV	
Sections			S0600
Please note: All dimensions to be verified on site		Paper size:	A2



1 T1 Section
1 : 100



2 Gridline T1 Inside
1 : 100

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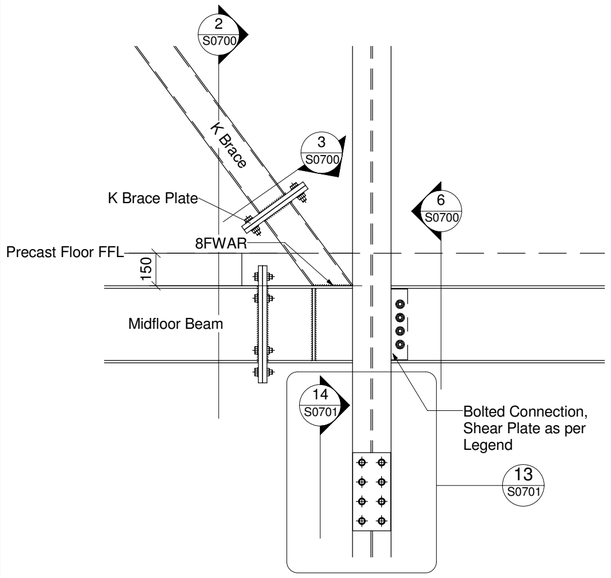
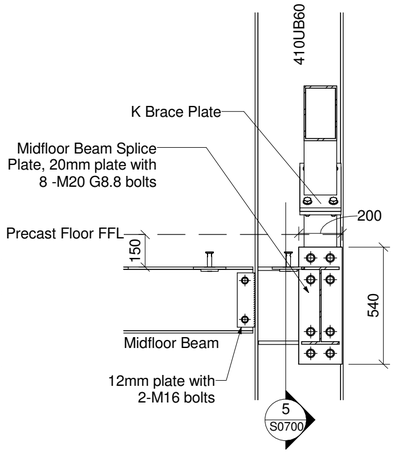
NZ Dairy Collaborative Group
Tower Extension
9 Ashford Ave, Ashburton

Rev#	Amendments	Date

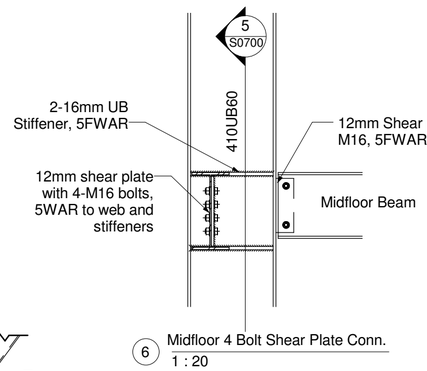
SCALE 1 : 100 @ A2		JOB # 12630	
DRAWN BY B Holloway		DATE 27/10/16	
CHECKED BY A.Chapman		REV	
Gridline T1 and T2		**S0603**	
Please note: All dimensions to be verified on site		Paper size: **A2**	



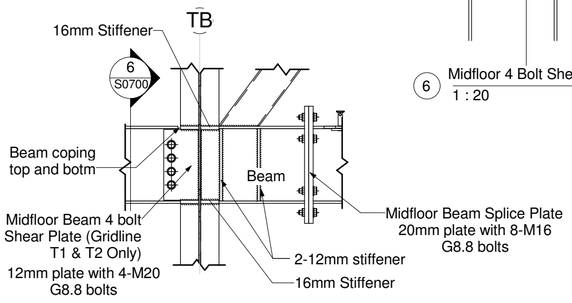
1 Typical K Bracing & Midfloor Conn 1
1 : 20



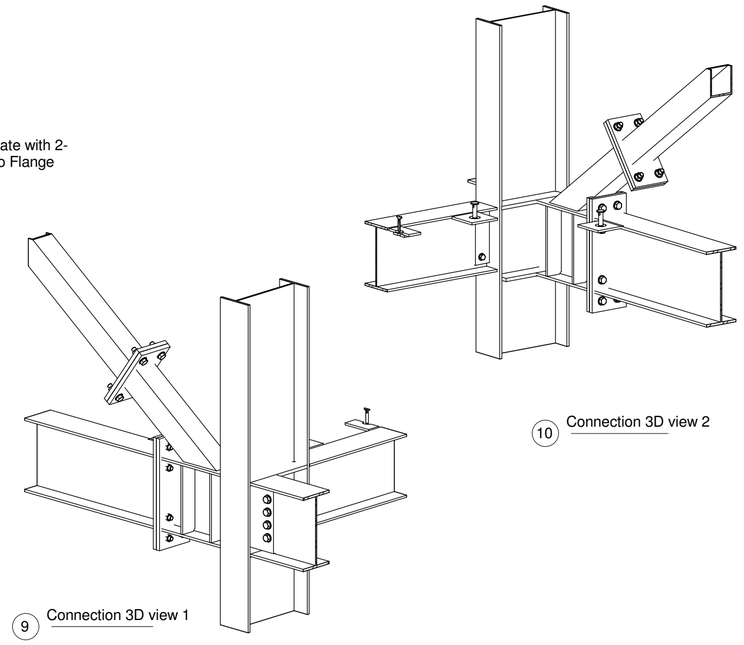
2 Midfloor Connection Detail
1 : 20



6 Midfloor 4 Bolt Shear Plate Conn.
1 : 20

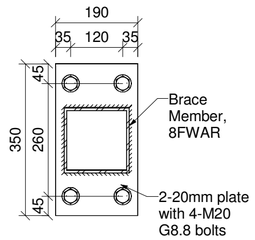


5 Typical Web Connection Section
1 : 20

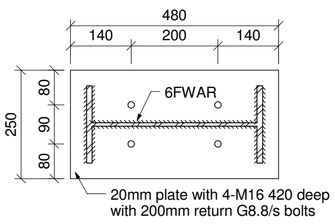


9 Connection 3D view 1

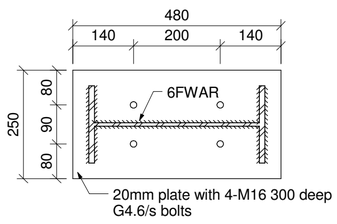
10 Connection 3D view 2



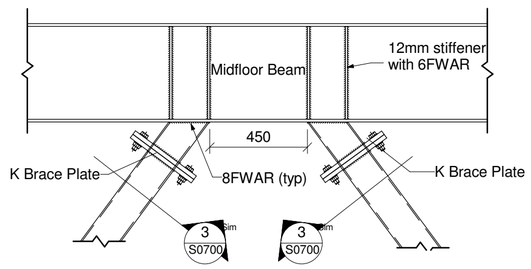
3 K Brace Splice Plate Detail
1 : 10



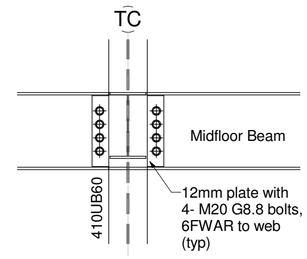
7 410 UB Base Plate (K Brace Legs)
1 : 10



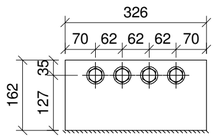
13 410 UB Base Plate (no K brace)
1 : 10



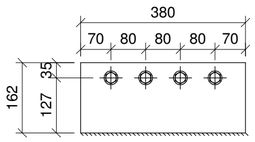
4 Typical Bracing Top Connection
1 : 20



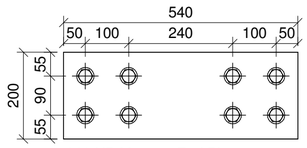
14 Midfloor Beam Conn 2
1 : 20



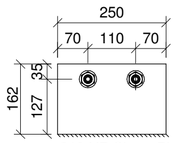
360 UB 51 Shear plate
12mm plate



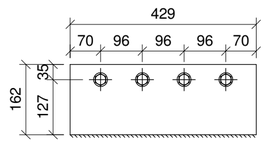
410 UB Shear plate
12mm plate



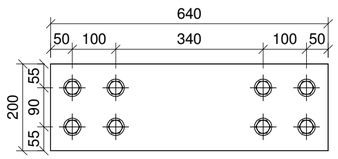
360 UB Moment End Plate
20mm plate



310 UB Shear Plate-
12mm plate

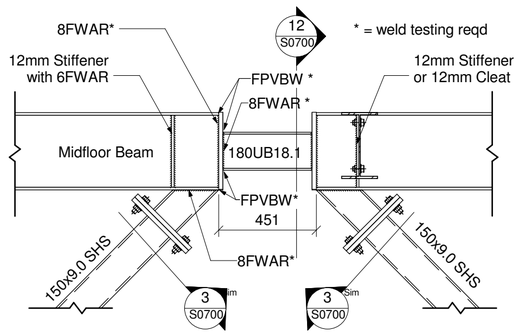


460 UB Shear plate
12mm plate

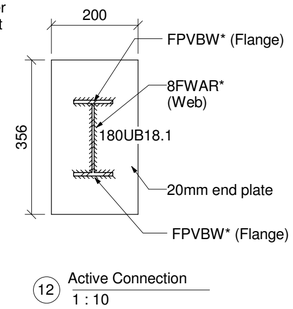


460 UB Moment End Plate
20mm plate

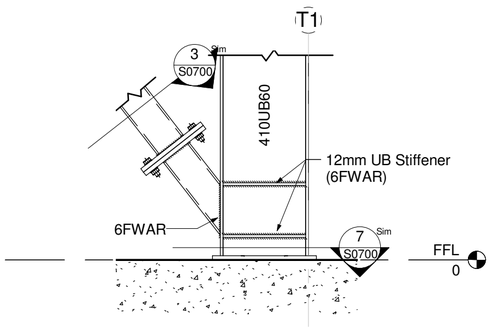
Shear Plates
1 : 10



11 Typical Bracing with active Conn
1 : 20



12 Active Connection
1 : 10



8 GF K Brace Conn.
1 : 20

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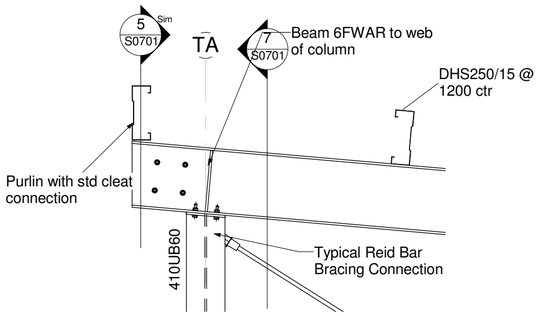
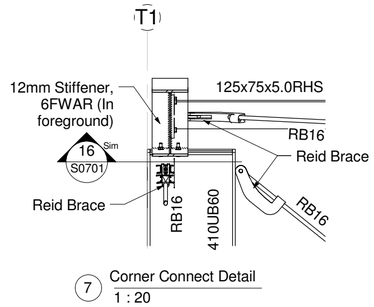
Rev#	Amendments	Date

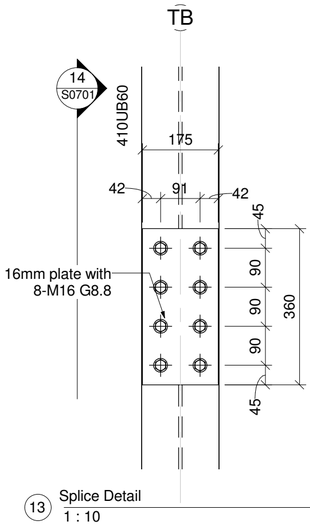
SCALE	As indicated@ A2	JOB #	12630
DRAWN BY	B Holloway	DATE	27/10/16
CHECKED BY	A.Chapman	REV	
Structural Details		S0700	
Please note: All dimensions to be verified on site		Paper size: A2	



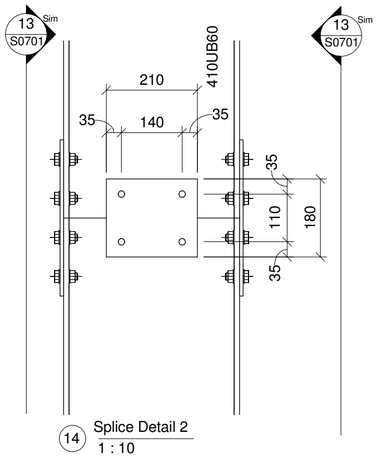
1 Apex Connection
1 : 20



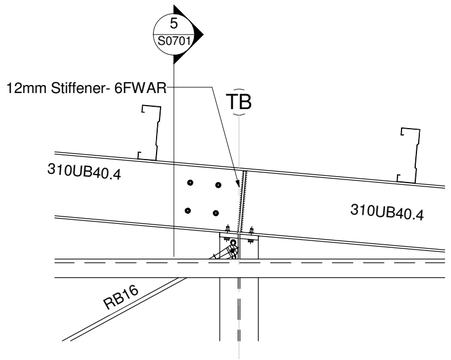
7 Corner Connect Detail
1 : 20



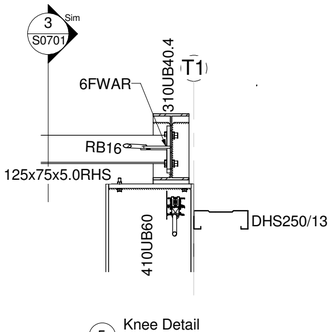
13 Splice Detail
1 : 10



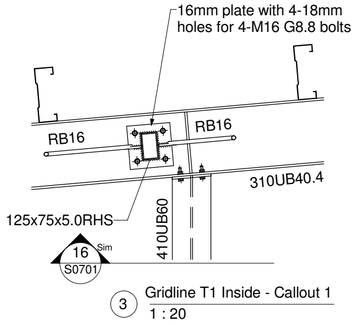
14 Splice Detail 2
1 : 10



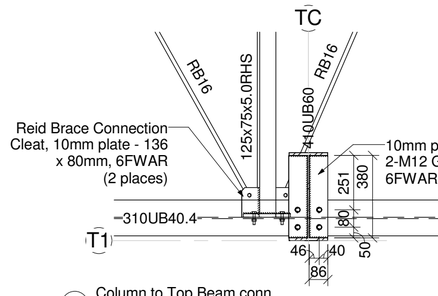
4 Mid Column Connection
1 : 20



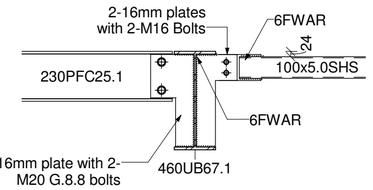
5 Knee Detail
1 : 20



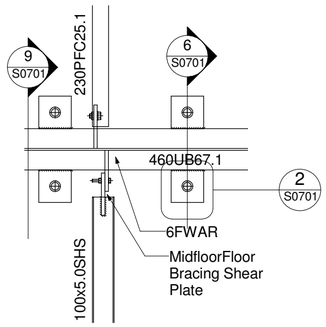
3 Gridline T1 Inside - Callout 1
1 : 20



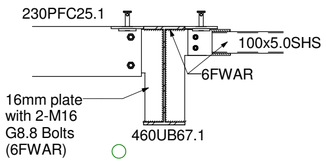
16 Column to Top Beam conn
1 : 20



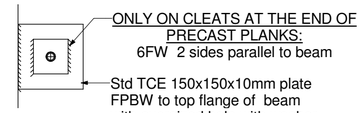
15 Midfloor bracing and PFC Conn
1 : 20



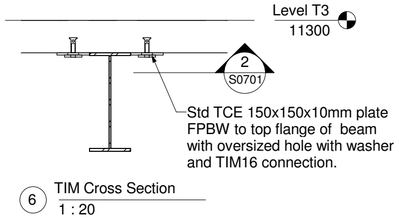
8 Midfloor Bracing Conn.
1 : 20



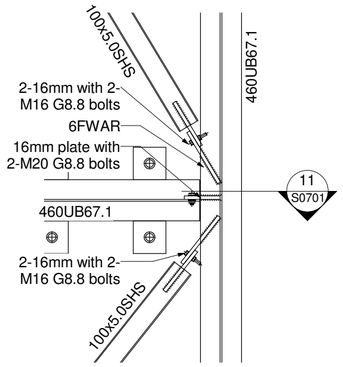
9 100x5 SHS bracing Conn.
1 : 20



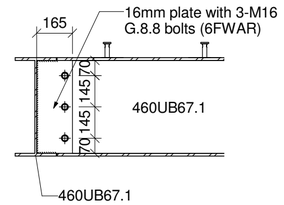
2 Cleat Weld Detail
1 : 10



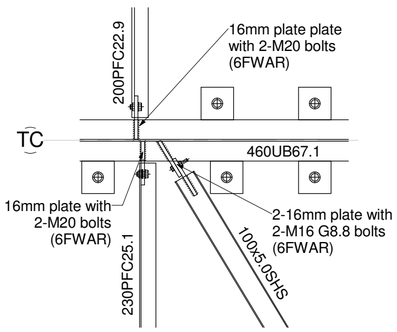
6 TIM Cross Section
1 : 20



10 Midfloor Conn 2
1 : 20



11 Shear Plate Conn
1 : 20



12 Struct Level T3 Midfloor - Callout 2
1 : 20

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PROJECT

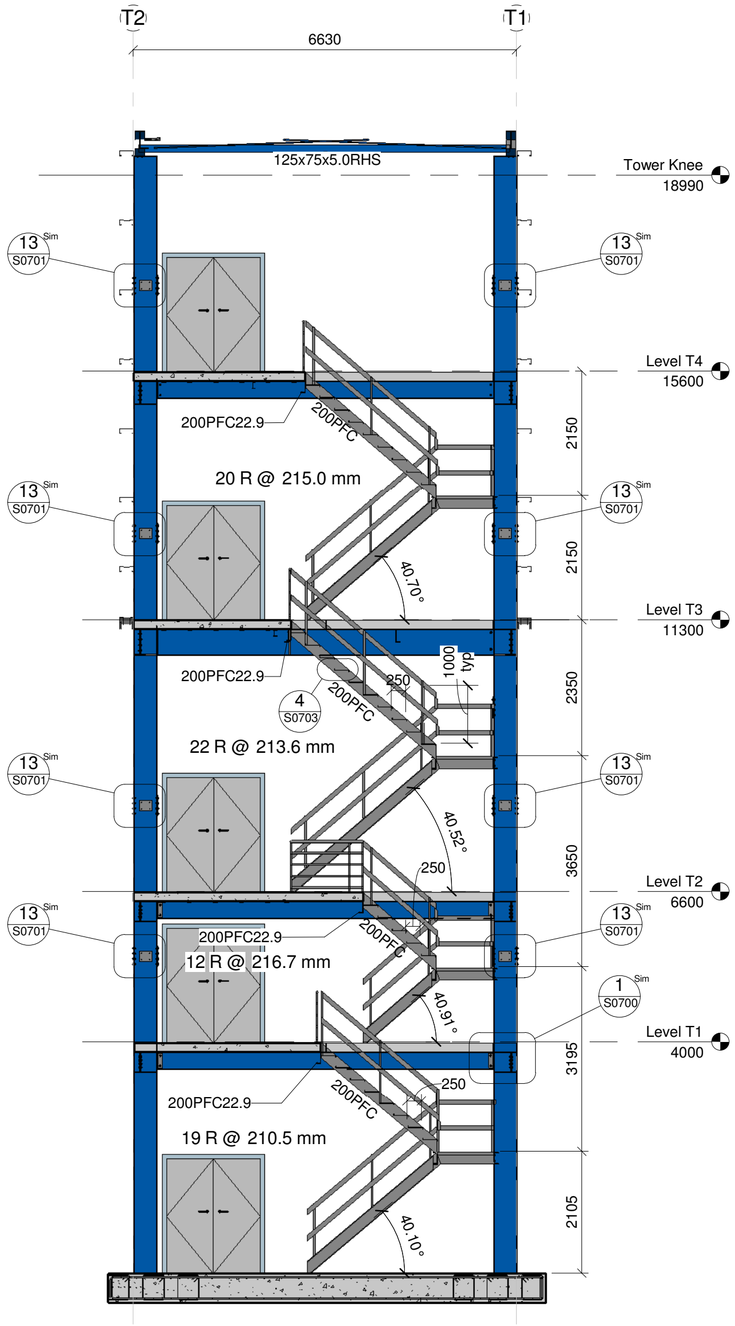
NZ Dairy Collaborative Group

Tower Extension

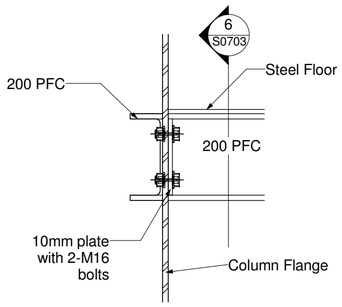
9 Ashford Ave, Ashburton

Rev#	Amendments	Date

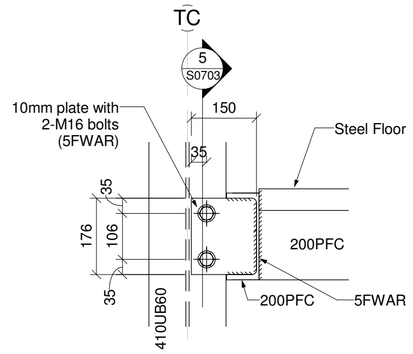
SCALE	As indicated@ A2	JOB #	12630
DRAWN BY	B Holloway	DATE	27/10/16
CHECKED BY	A.Chapman	REV	
Structural Details		S0701	
Please note: All dimensions to be verified on site		Paper size: A2	



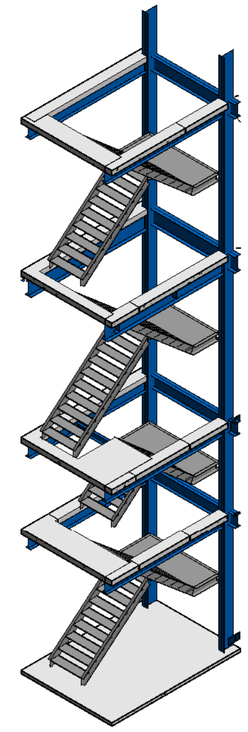
2 Stair Section
1 : 75



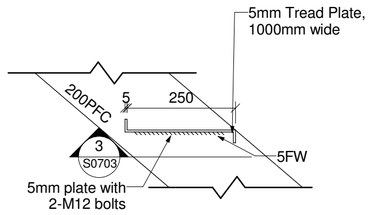
5 Stair Connection
1 : 10



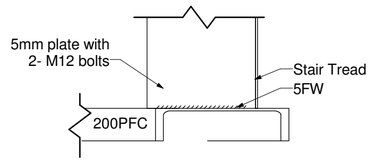
6 Stair Connection Plate
1 : 10



1 Stairs Iso



4 Stair Tread
1 : 10



3 Stair Cleat Detail
1 : 10

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PROJECT

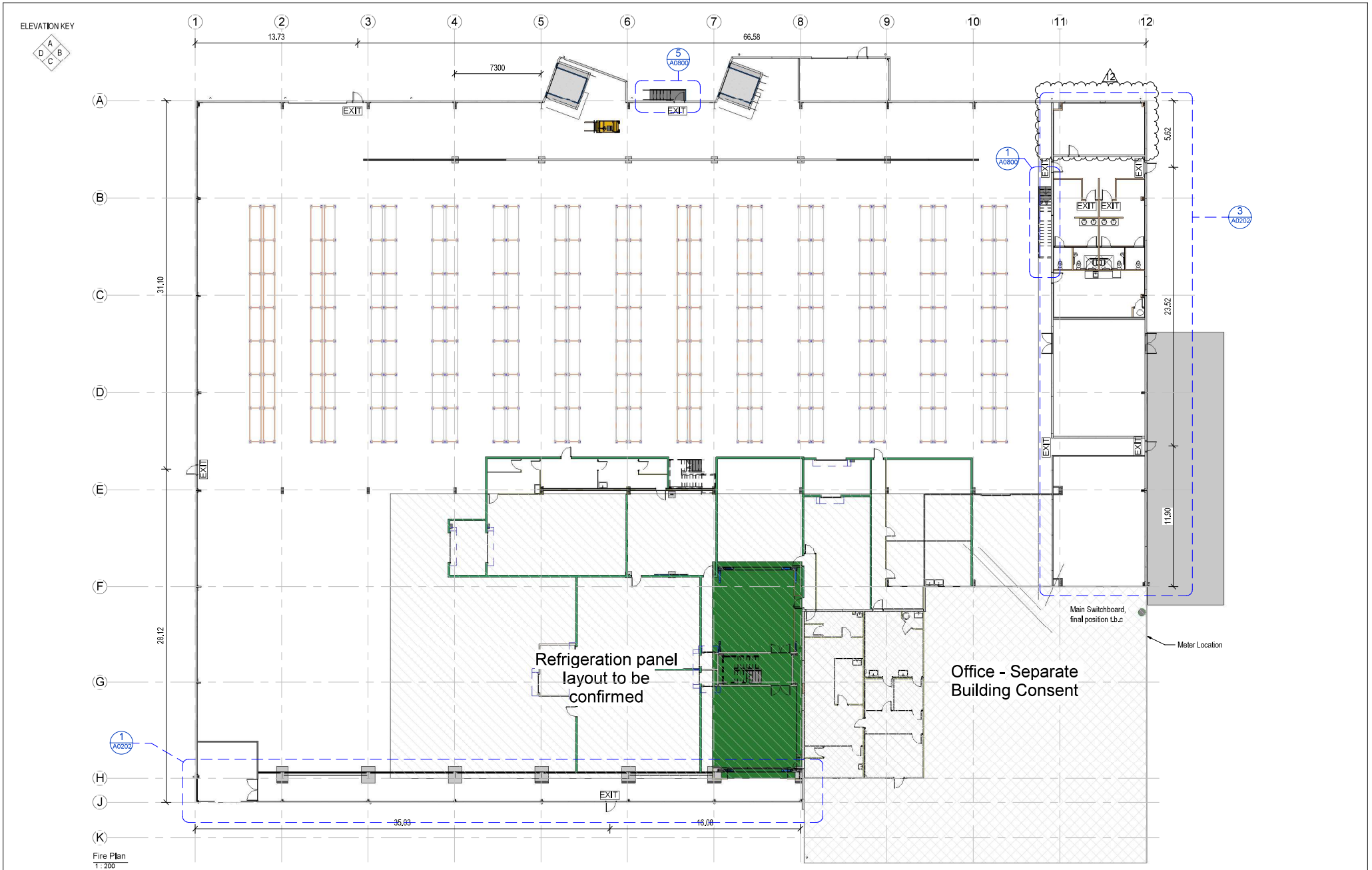
NZ Dairy Collaborative Group

Tower Extension

9 Ashford Ave, Ashburton

Rev#	Amendments	Date

SCALE	As indicated@ A2	JOB #	12630
DRAWN BY	B Holloway	DATE	27/10/16
CHECKED BY	A.Chapman	REV	
Structural Details- Stairs		S0703	
Please note: All dimensions to be verified on site		Paper size: A2	



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PROJECT

Arch

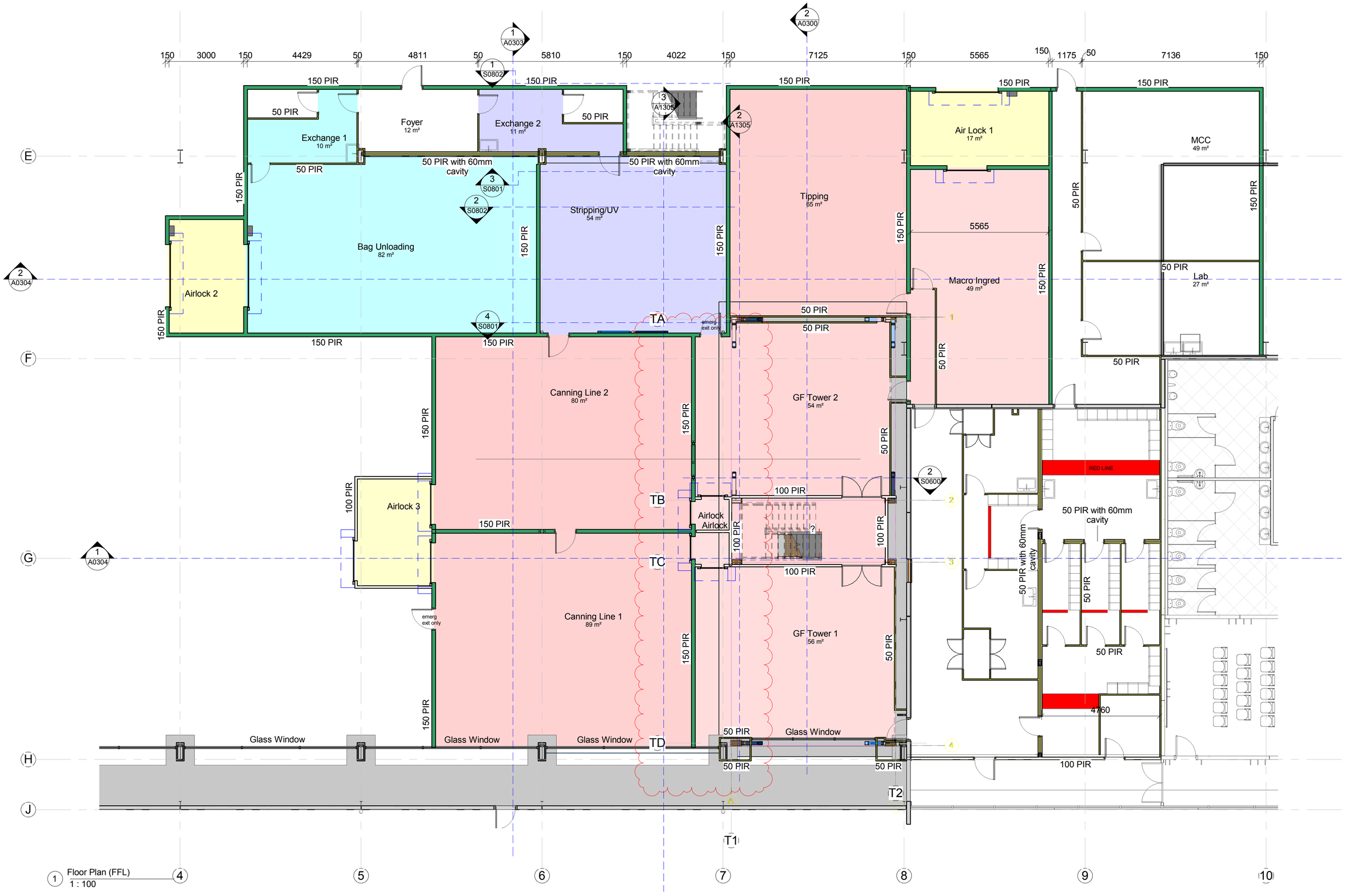
NZ Dairy Collaborative Group

Infant Formula Blending Plant

9 Ashford Ave, Ashburton

Rev#	Amendments	Date
12	Mods to operational fitout	28/07/16

SCALE	As indicated@ A2	JOB #	12412
DRAWN BY	C. White	DATE	23/01/16
APPROVED BY	A. Cloake	REV	12
Ground Floor		A0200	
Please note: All dimensions to be verified on site		Paper size: A2	



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PROJECT

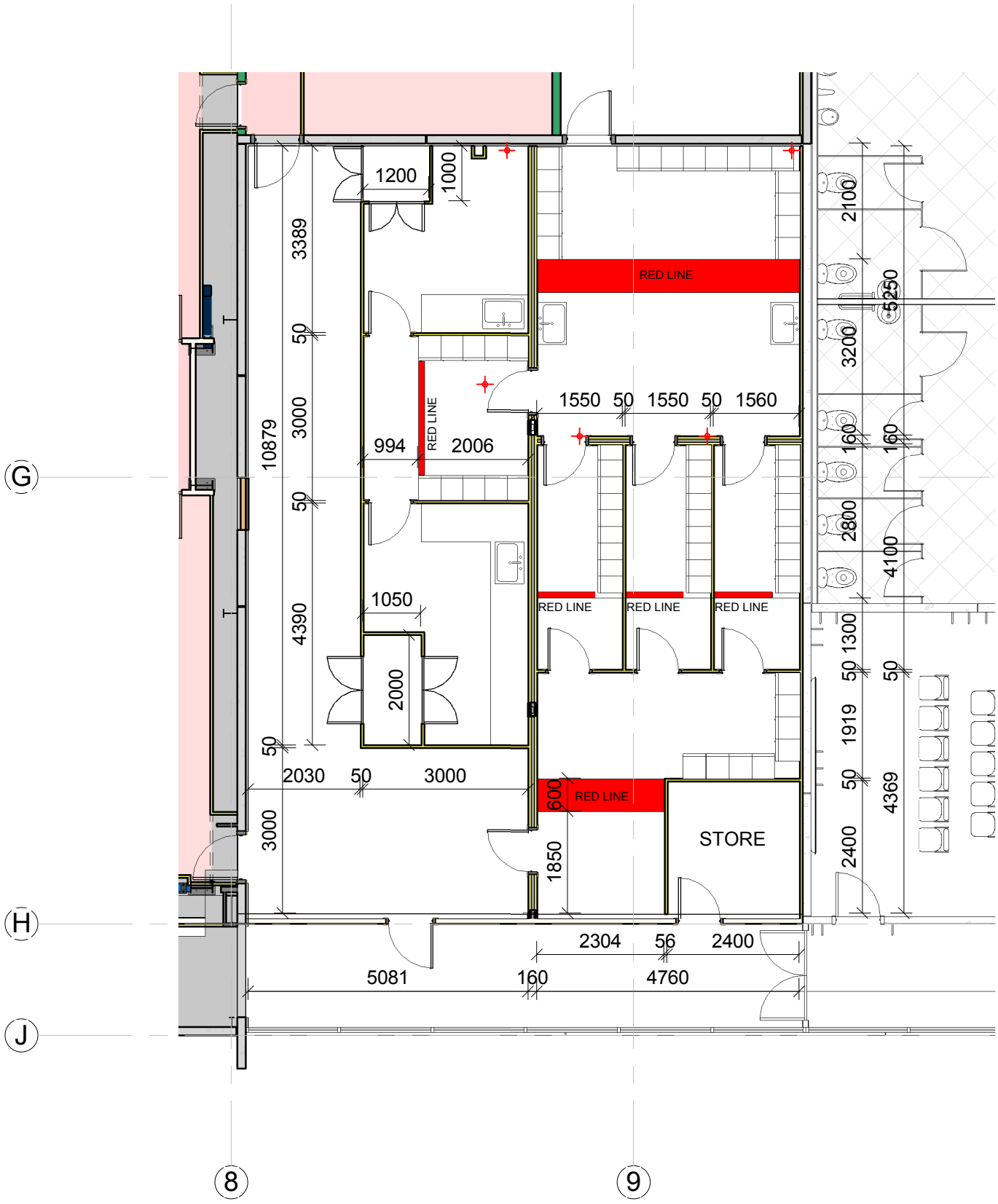
Arch

NZ Dairy Collaborative Group
Tower Extension

9 Ashford Ave, Ashburton

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

SCALE	1 : 100 @ A2	JOB #	12630
DRAWN BY	B Holloway	DATE	06/09/17
CHECKED BY		REV	5
Fit Out Ground Floor Plan			A0200
Please note: All dimensions to be verified on site		Paper size	A2



Red Line Setout
1 : 100

DWG NO A1304	Red Line Setout	SCALE 1 : 100	JOB # 12630	PROJECT NZ Dairy Collaborative Group Tower Extension 9 Ashford Ave, Ashburton
		DRAWN BY D. Shand	DATE 06/09/17	
		CHECKED BY		
Please note: All dimensions to be verified on si		Paper size: A3		

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Contract Instruction

architype
architects+designers

Architype Ltd.
7 Bath Street
Dunedin Central 9016

(t) 03-552-0621
(m) 021 069 2404
info@architype.co.nz
www.architype.co.nz

project	**NZ DAIRY INFANT FORMULA BLENDING PLANT UTILITIES FITOUT**	file ref. 1504/4	
date	**18 MAY 2017**	pages (inc attach).	**2**
issued by:	**MW**	Approved **TR**	
issued to:	☑ **THOMPSON CONSTRUCTION AND ENGINEERING- EMILY**		
copies to:	☑ **NZ DAIRY- SOLOMON** ☑ **WARD CONSULTING- GRAHAM**		

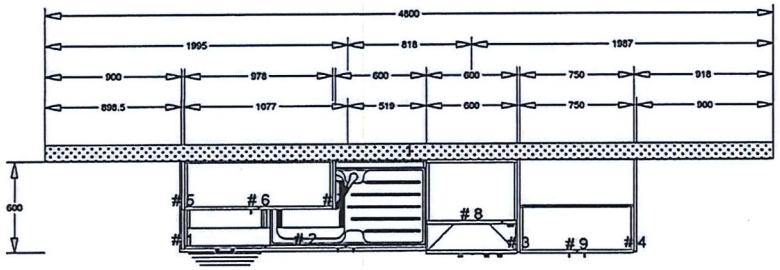
Consecutive No. CI-02

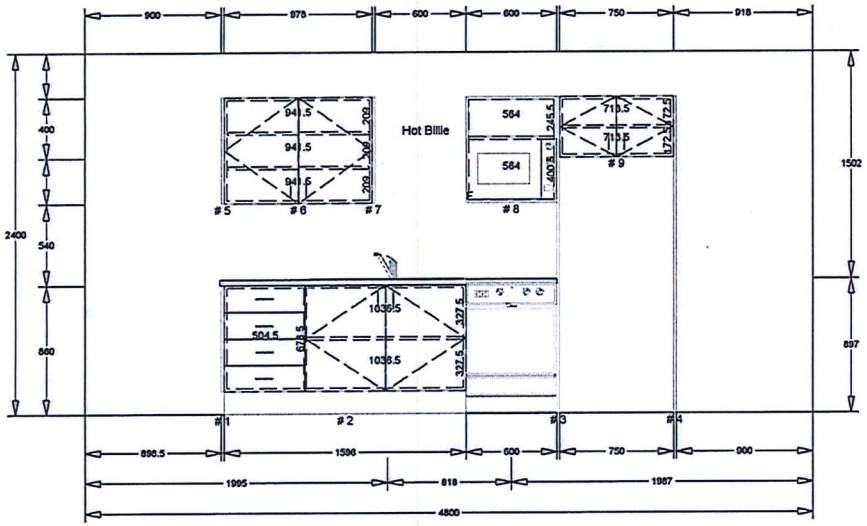
Ref: **Kitchenette Layout**

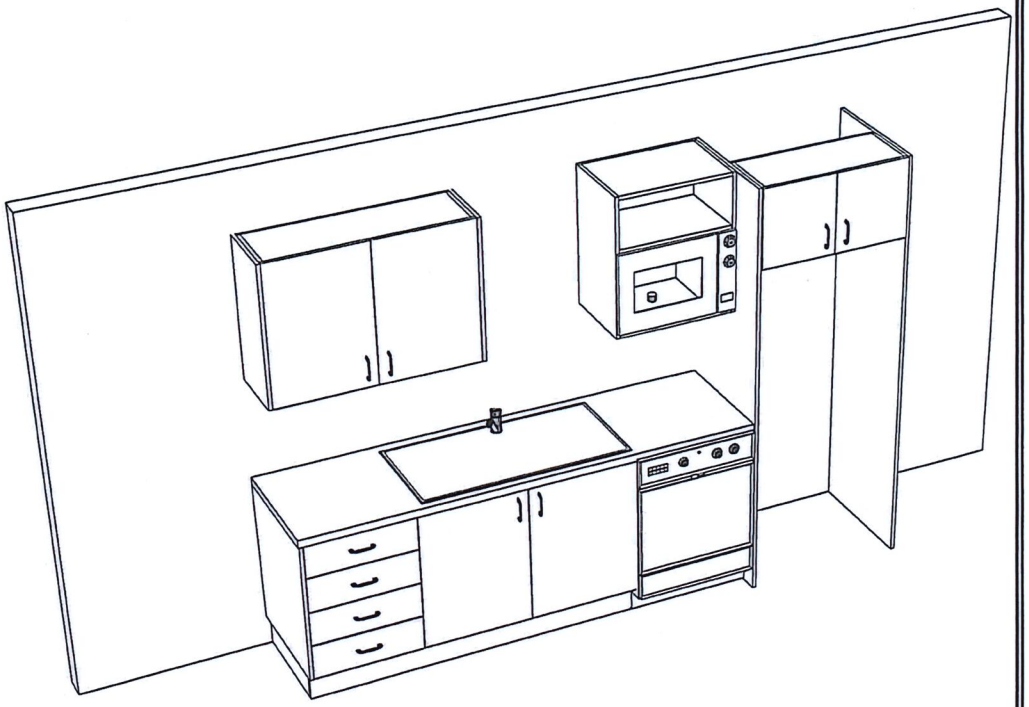
- Kitchenette Layout shall be as attached

Job # Kitchenette Ground Floor Callouts

Details: TCE NZ Dairy







Customer:

Address:

Phone:

LUNDS JOINERY

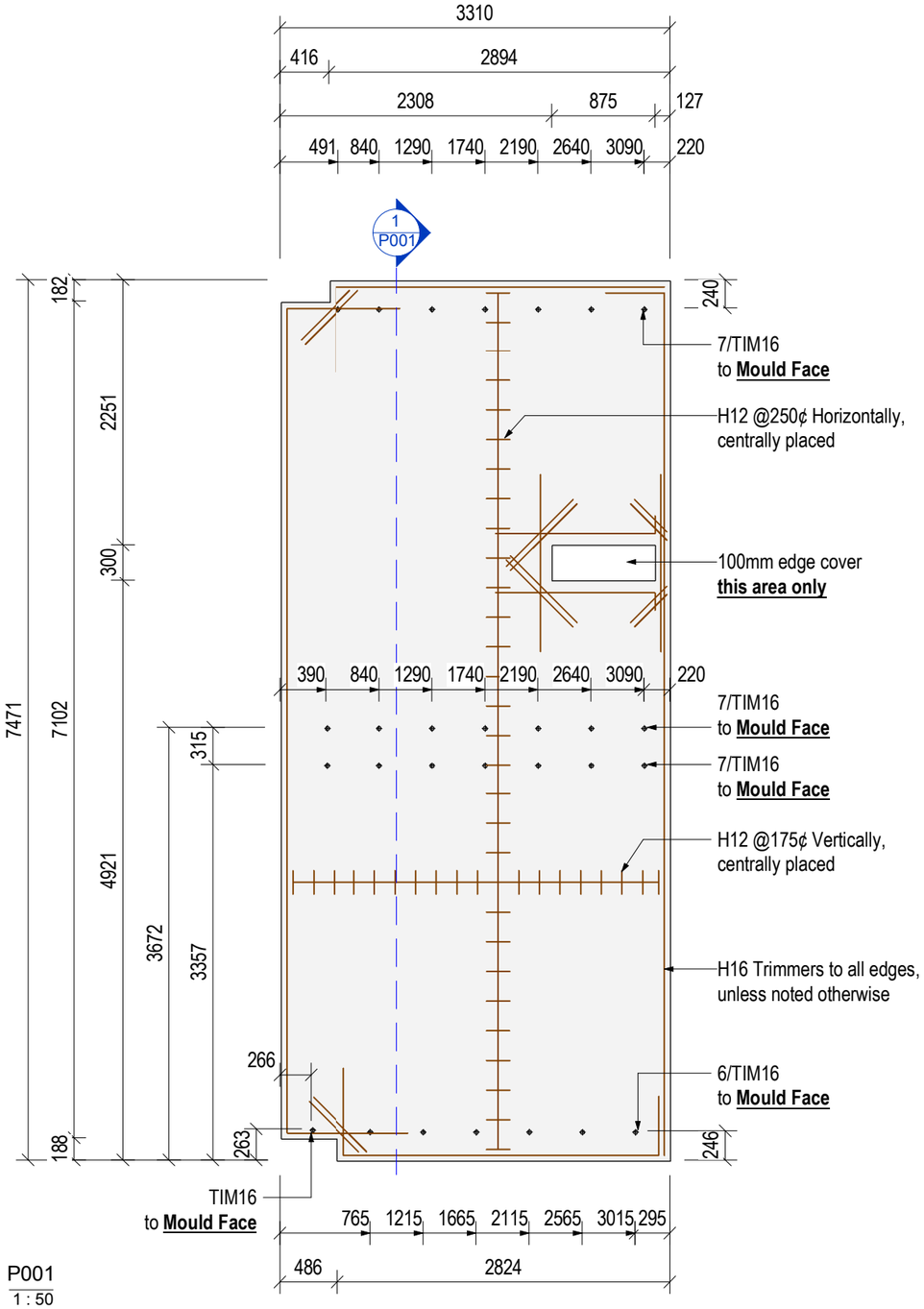
P O Box 128- Timaru, 7940 NZ

Ph.+62 3 6889149 Fax.+62 3 6848050

Title:

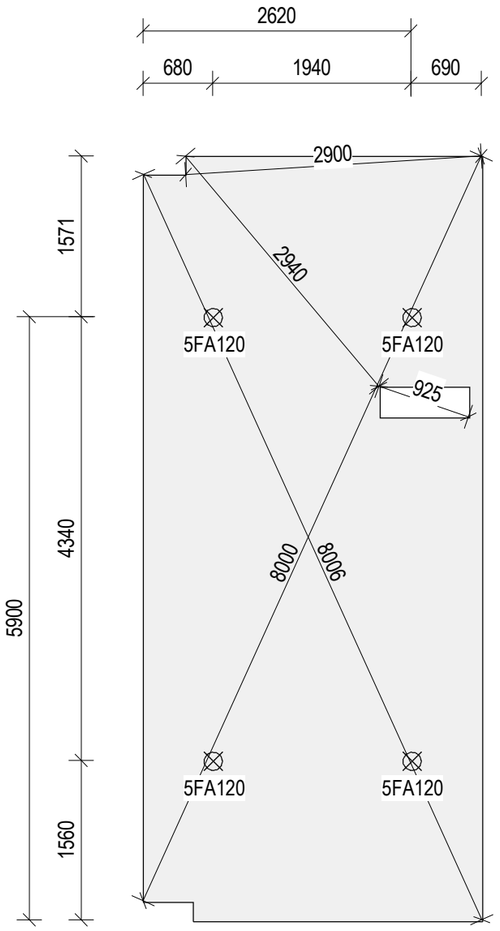
Scale: N.T.S. | Drawing Number: Kitchenette Ground Floor Callouts

Approved:_____ | Sheet 1 of 2



P001
1 : 50

1 P001 Section
1 : 50



P001 Lifting Design
1 : 60

PRECAST PANEL FABRICATION DRAWINGS

THOMPSON PRECAST CONCRETE
148 Meadows Road, Washdyke
Office 03 6887534
Design Team 03 6887164

1. All materials and workmanship to be in accordance with the NZ building code
2. The client shall verify all dimensions on site before commencing work
3. All concrete work shall comply with NZS3109
4. Cover to reinforcing is to be 50mm min or as shown. Tolerance ± 5mm

NZ Dairy Collaborative Group

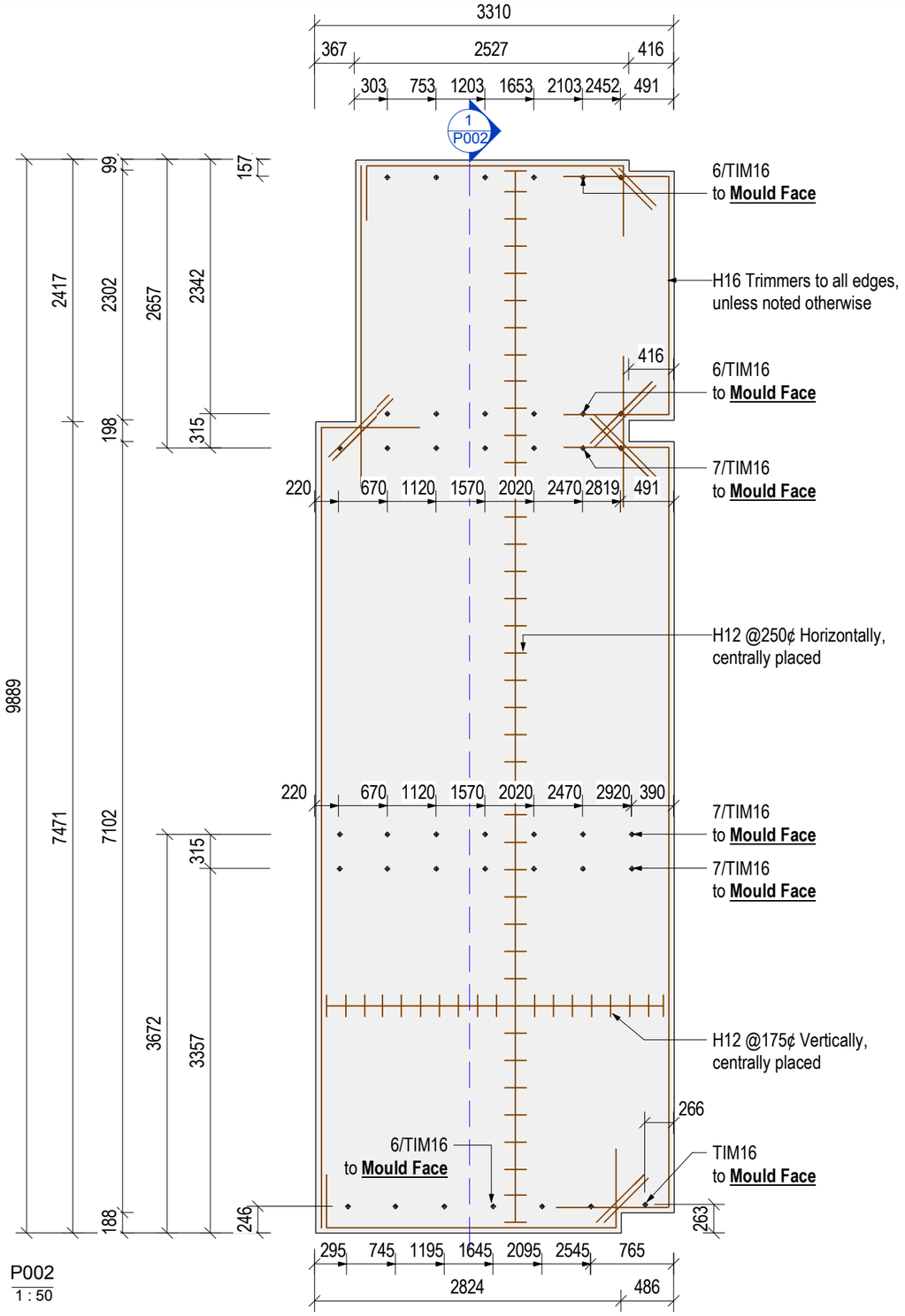
Tower

9 Ashford Ave, Ashburton

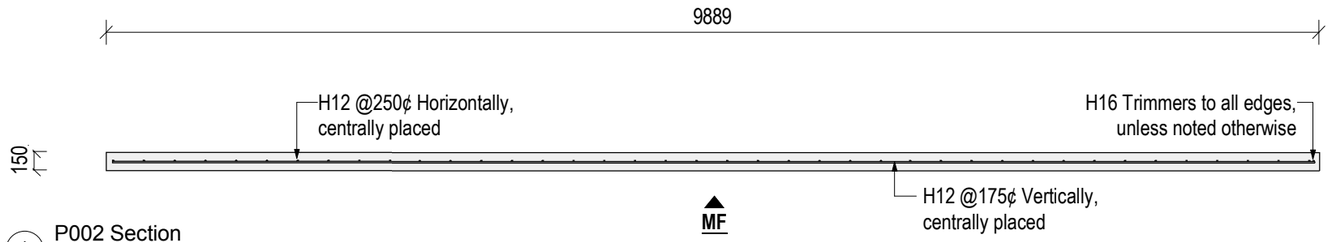
Panel Information			Approval and Date	Drawing Details	
Weight (t) 9.11	No req 1		Q A onsite	DRAWN BY T. Langr	DATE 02/12/16
Volume 3.64 m³	Finish		Operations	APPROVED BY DS, AC, CP, ML, JB, BH	Dwg Sheet P001
Thickness 150mm	MPa (at 28 days) 35MPa min.		Final	ISSUE PRELIM	JOB # PC11720
	MPa (at Lift) 15MPa		Special Additives	SCALE As indicated	Panel # Panel 001

Please note: All panels are drawn looking down on the trowel face, Unless noted otherwise.

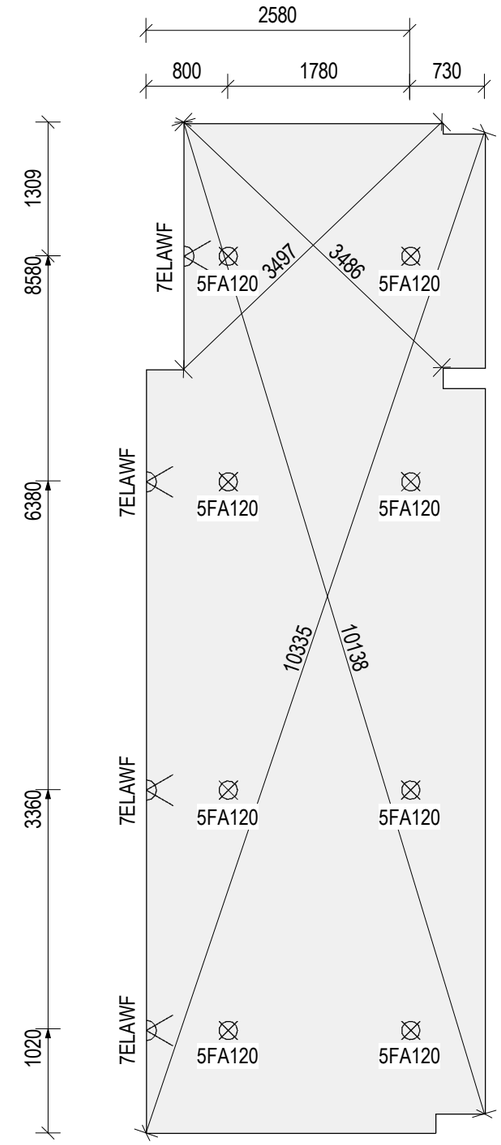
Paper size: A3



P002
1 : 50



1 P002 Section
1 : 50



P002 Lifting Design
1 : 60

PRECAST PANEL FABRICATION DRAWINGS

THOMPSON PRECAST CONCRETE
148 Meadows Road, Washdyke
Office 03 6887534
Design Team 03 6887164

1. All materials and workmanship to be in accordance with the NZ building code
2.The client shall verify all dimensions on site before commencing work
3.All concrete work shall comply with NZS3109
4. Cover to reinforcing is to be 50mm min or as shown.Tolerance ± 5mm

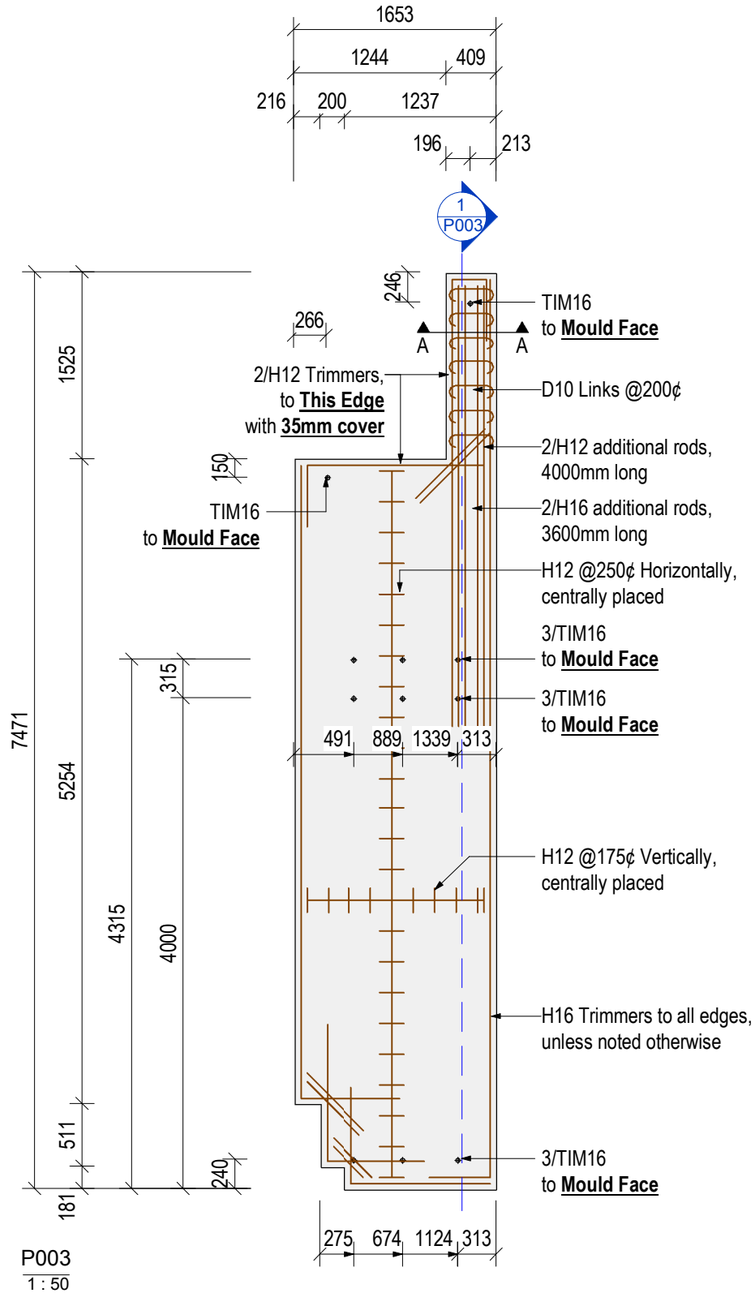
NZ Dairy Collaborative Group

Tower

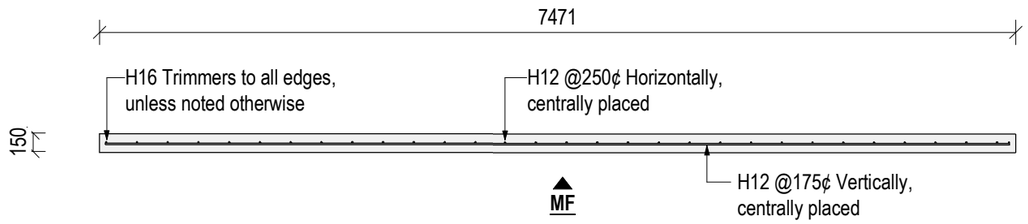
9 Ashford Ave, Ashburton

Panel Information			Approval and Date	Drawing Details	
Weight (t) 11.86	No req 1		Q A onsite	DRAWN BY T. Langr	DATE 02/12/16
Volume 4.74 m³	Finish		Operations	APPROVED BY DS, AC, CP, ML, JB, BH	Dwg Sheet P002
Thickness 150mm	MPa (at 28 days) 35MPa min.		Final	ISSUE PRELIM	JOB # PC11720
	MPa (at Lift) 15MPa		Special Additives	SCALE As indicated	Panel # Panel 002

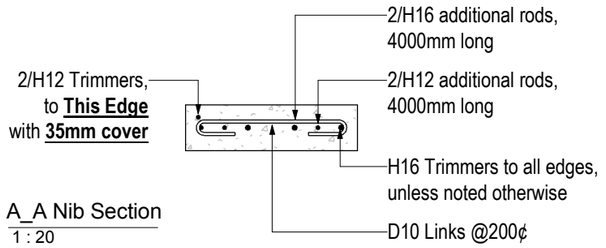
Please note: All panels are drawn looking down on the trowel face, Unless noted otherwise. Paper size:A3



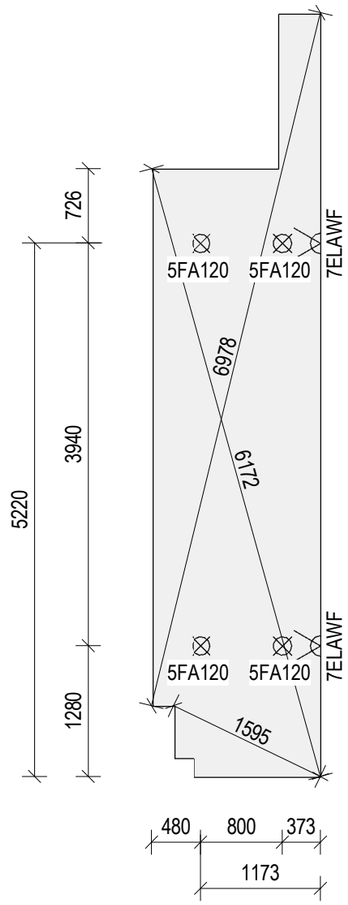
P003
1 : 50



1 P003 Section
1 : 50



A_A Nib Section
1 : 20



P003 Lifting Design
1 : 60

PRECAST PANEL FABRICATION DRAWINGS

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Office 03 6887534
Design Team 03 6887164

1. All materials and workmanship to be in accordance with the NZ building code
2. The client shall verify all dimensions on site before commencing work
3. All concrete work shall comply with NZS3109
4. Cover to reinforcing is to be 50mm min or as shown. Tolerance ± 5mm

NZ Dairy Collaborative Group

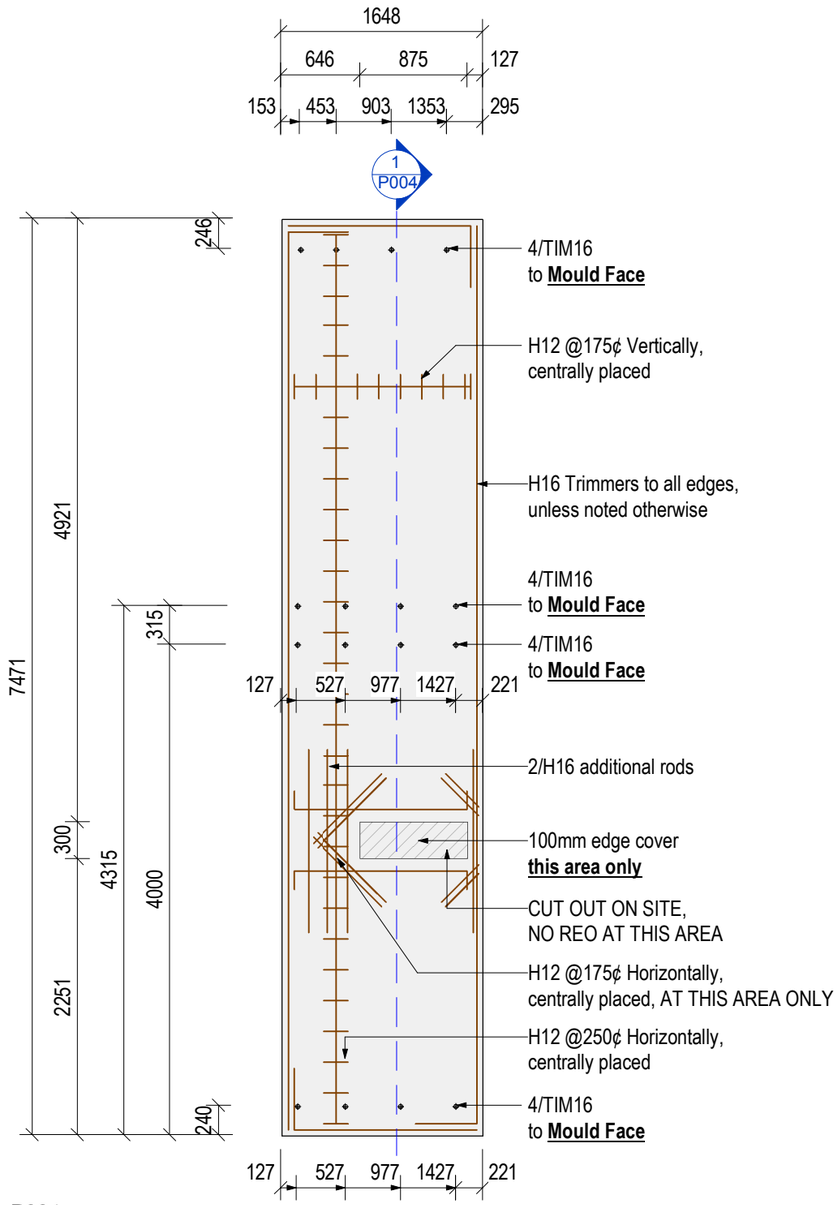
Tower

9 Ashford Ave, Ashburton

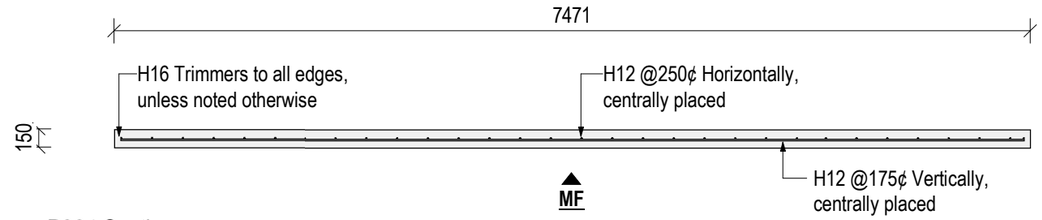
Panel Information				Approval and Date	Drawing Details	
Weight (t) 3.85	No req 1			Q A onsite	DRAWN BY T. Langr	DATE 02/12/16
Volume 1.54 m³	Finish			Operations	APPROVED BY DS, AC, CP, ML, JB, BH	Dwg Sheet P003
Thickness 150mm	MPa (at 28 days) 35MPa min.			Final	ISSUE CON B	JOB # PC11720
	MPa (at Lift) 20MPa			Special Additives	SCALE As indicated	Panel # Panel 003

Please note: All panels are drawn looking down on the trowel face, Unless noted otherwise.

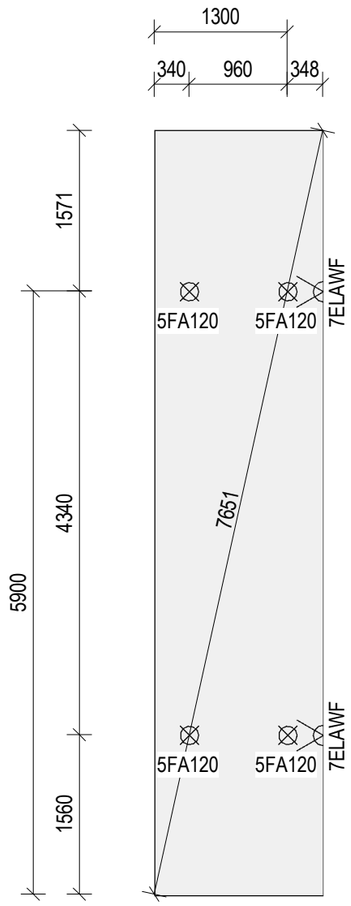
Paper size: A3



P004
1 : 50



1 P004 Section
1 : 50



P004 Lifting Design
1 : 60

PRECAST PANEL FABRICATION DRAWINGS

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148 Meadows Road, Washdyke
Office 03 6887534
Design Team 03 6887164

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2.The client shall verify all dimensions on site before commencing work
3.All concrete work shall comply with NZS3109
4. Cover to reinforcing is to be 50mm min or as shown.Tolerance ± 5mm

NZ Dairy Collaborative Group

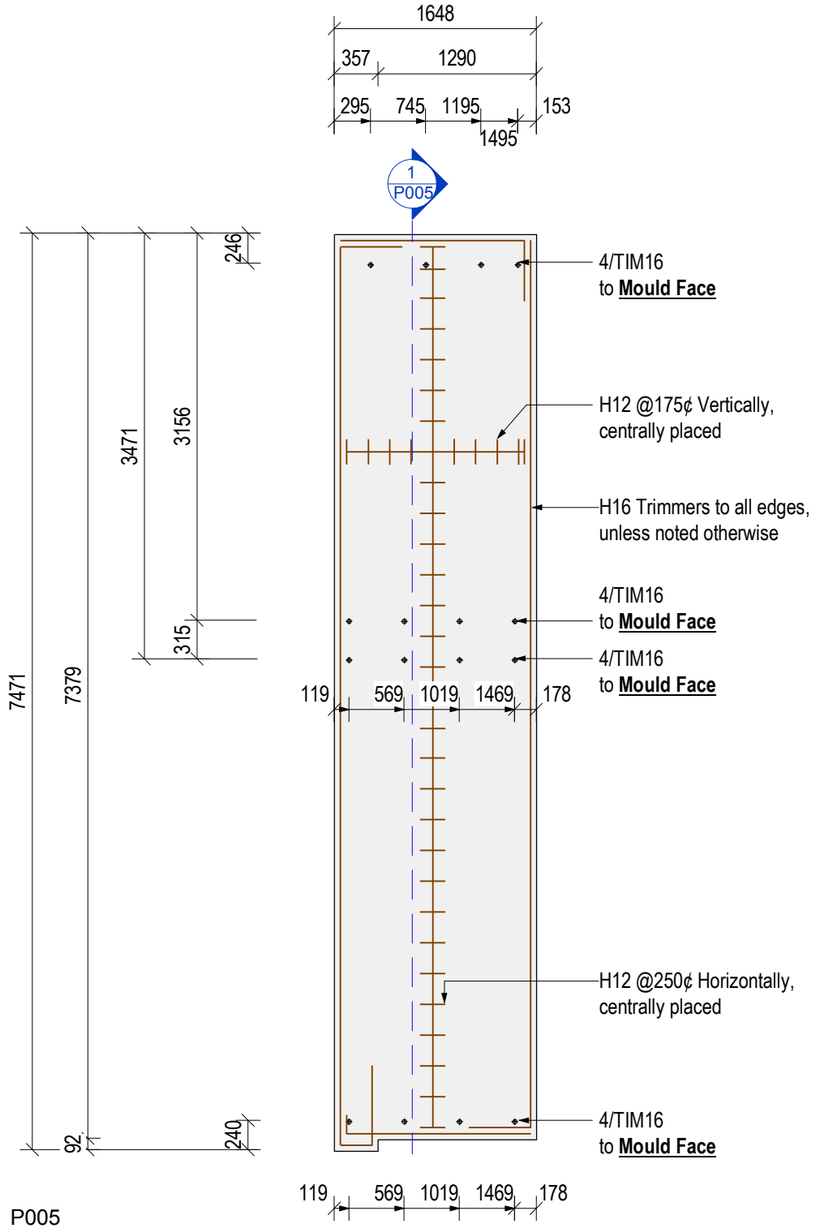
Tower

9 Ashford Ave, Ashburton

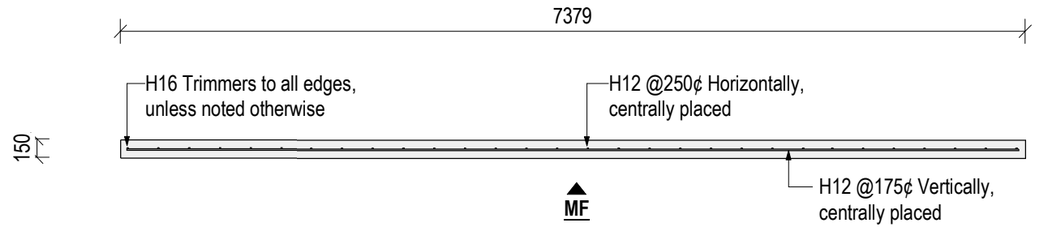
Panel Information			Approval and Date	Drawing Details	
Weight (t) 4.62	No req 1		Q A onsite	DRAWN BY T. Langr	DATE 02/12/16
Volume 1.85 m³	Finish		Operations	APPROVED BY DS, AC, CP, ML, JB, BH	Dwg Sheet P004
Thickness 150mm	MPa (at 28 days) 35MPa min.		Final	ISSUE CON B	JOB # PC11720
	MPa (at Lift) 15MPa		Special Additives	SCALE As indicated	Panel # Panel 004

Please note: All panels are drawn looking down on the trowel face, Unless noted otherwise.

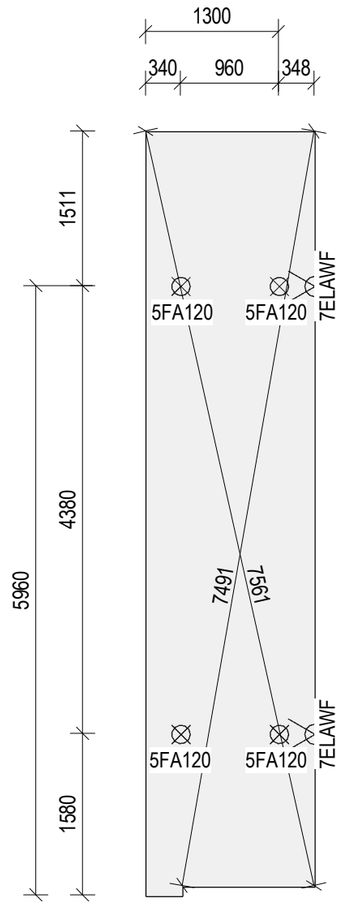
Paper size:A3



P005
1 : 50



1 P005 Section
1 : 50



P005 Lifting Design
1 : 60

PRECAST PANEL FABRICATION DRAWINGS

THOMPSON PRECAST CONCRETE

148 Meadows Road, Washdyke
Office 03 6887534
Design Team 03 6887164

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4. Cover to reinforcing is to be 50mm min or as shown.Tolerance ± 5mm

NZ Dairy Collaborative Group

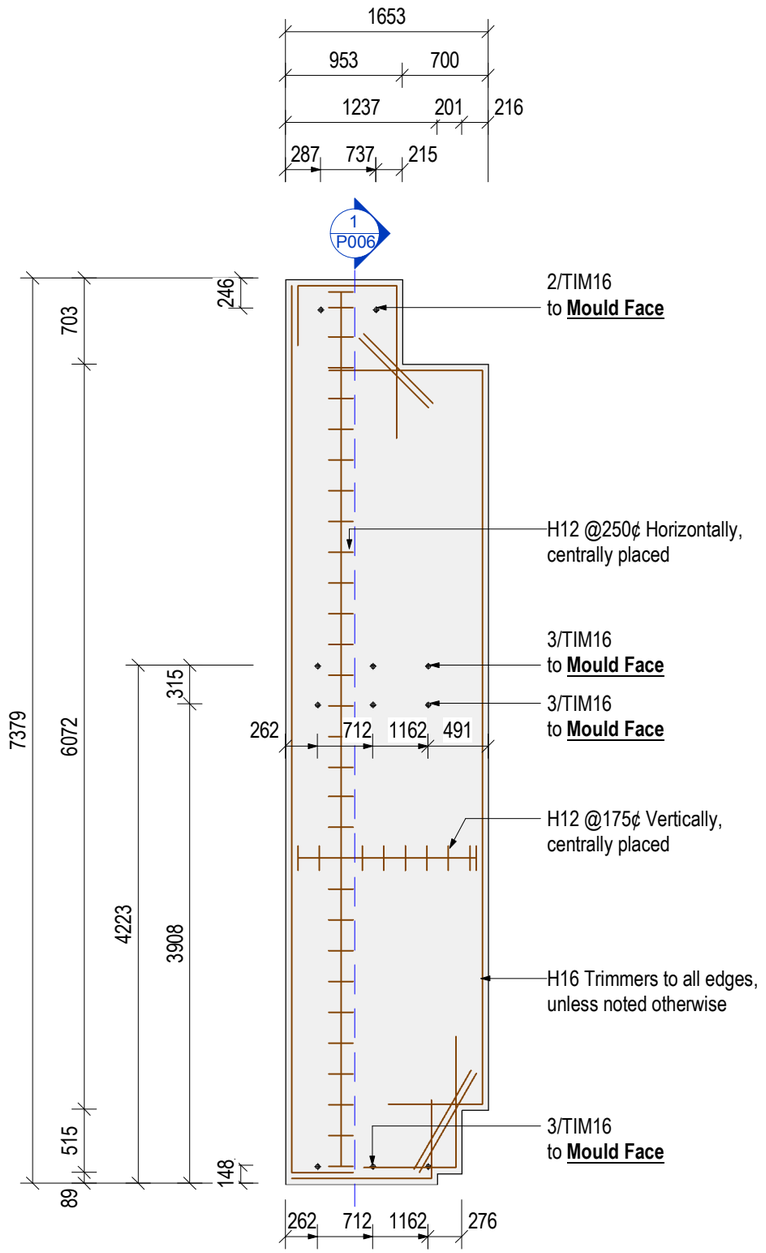
Tower

9 Ashford Ave, Ashburton

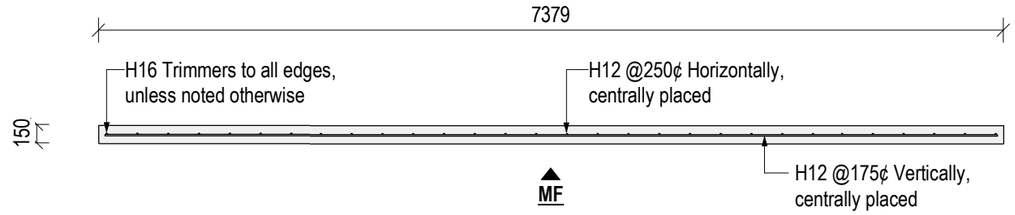
Panel Information			Approval and Date	Drawing Details	
Weight (t) 4.57	No req 1		Q A onsite	DRAWN BY T. Langr	DATE 02/12/16
Volume 1.83 m³	Finish		Operations	APPROVED BY DS, AC, CP, ML, JB, BH	Dwg Sheet P005
Thickness 150mm	MPa (at 28 days) 35MPa min.		Final	ISSUE CON B	JOB # PC11720
	MPa (at Lift) 15MPa		Special Additives	SCALE As indicated	Panel # Panel 005

Please note: All panels are drawn looking down on the trowel face, Unless noted otherwise.

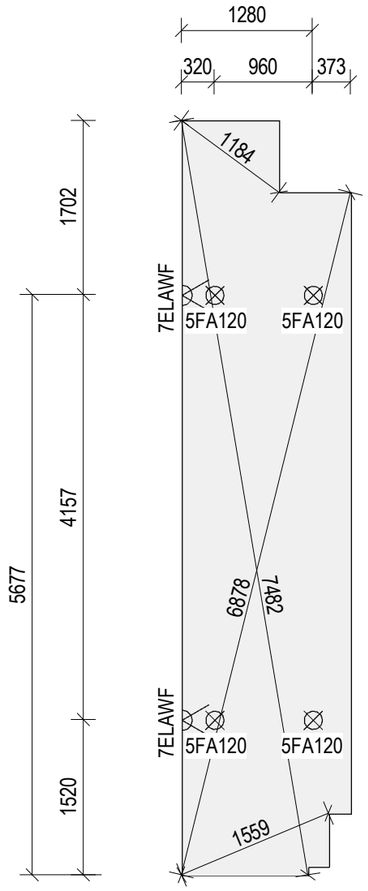
Paper size:A3



P006
1 : 50



1 P006 Section
1 : 50



P006 Lifting Design
1 : 60

PRECAST PANEL FABRICATION DRAWINGS

THOMPSON PRECAST CONCRETE

148 Meadows Road, Washdyke
Office 03 6887534
Design Team 03 6887164

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4. Cover to reinforcing is to be 50mm min or as shown. Tolerance ± 5mm

NZ Dairy Collaborative Group

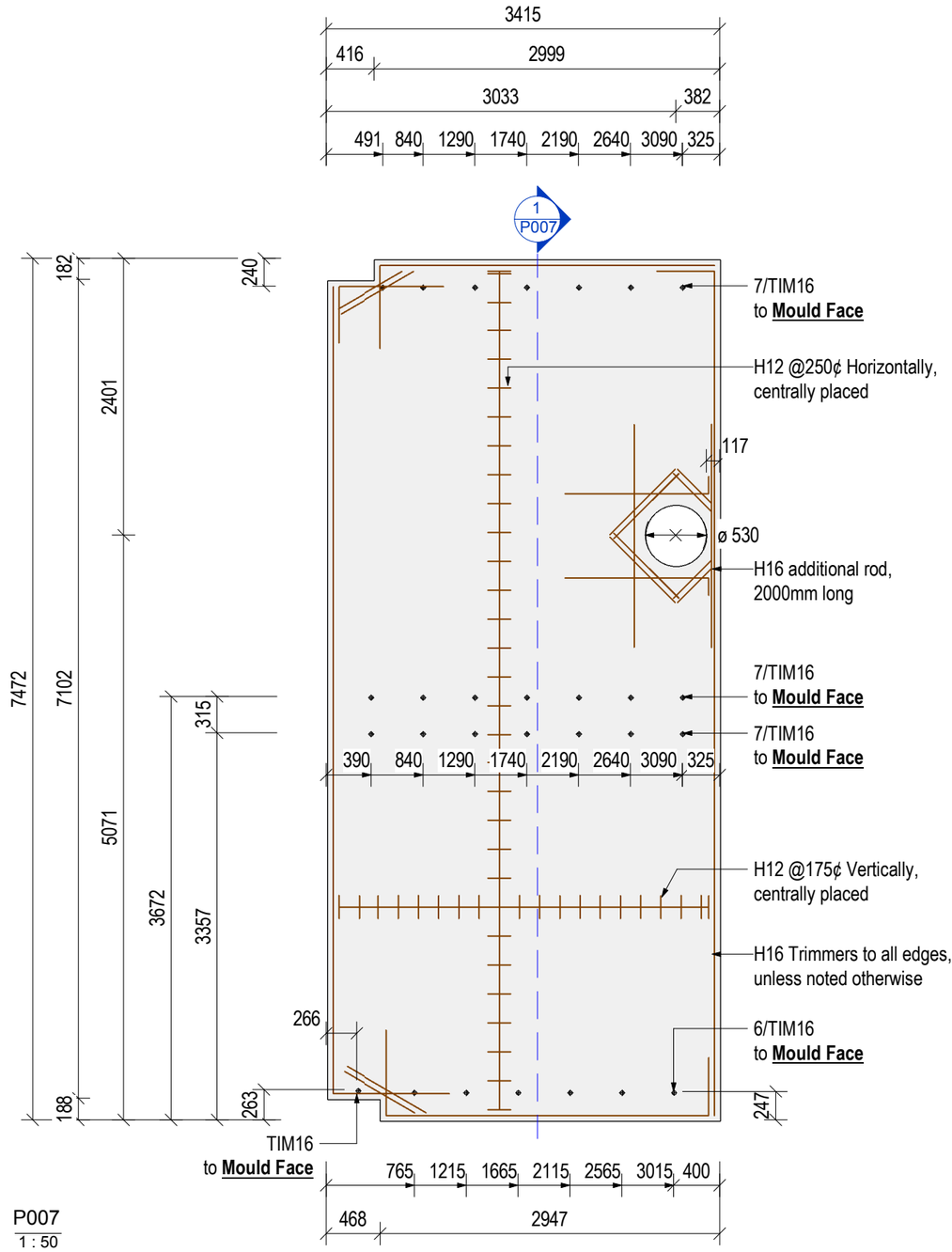
Tower

9 Ashford Ave, Ashburton

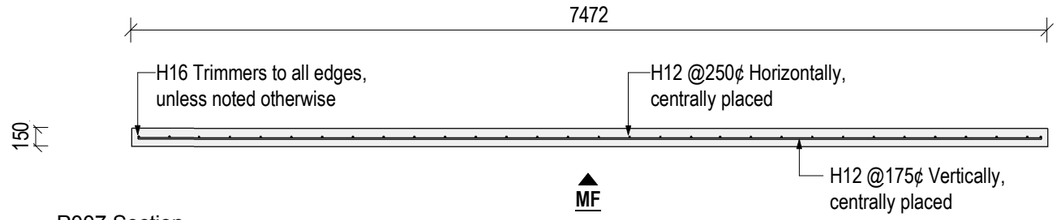
Panel Information			Approval and Date	Drawing Details	
Weight (t) 4.33	No req 1		Q A onsite	DRAWN BY T. Langr	DATE 02/12/16
Volume 1.73 m³	Finish		Operations	APPROVED BY DS, AC, CP, ML, JB, BH	Dwg Sheet P006
Thickness 150mm	MPa (at 28 days) 35MPa min.		Final	ISSUE CON B	JOB # PC11720
	MPa (at Lift) 15MPa		Special Additives	SCALE As indicated	Panel # Panel 006

Please note: All panels are drawn looking down on the trowel face, Unless noted otherwise.

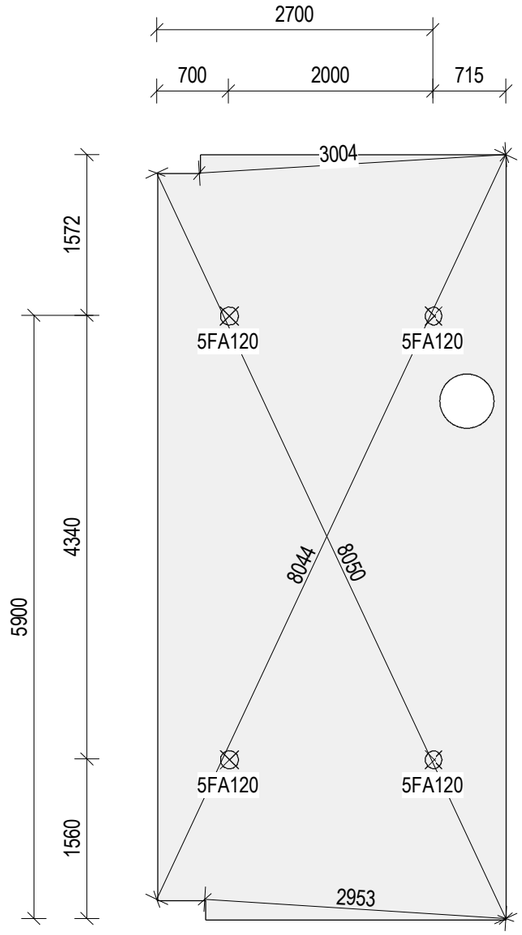
Paper size: A3



P007
1 : 50



1 P007 Section
1 : 50



P007 Lifting Design
1 : 60

PRECAST PANEL FABRICATION DRAWINGS

THOMPSON PRECAST CONCRETE

148 Meadows Road, Washdyke
Office 03 6887534
Design Team 03 6887164

1. All materials and workmanship to be in accordance with the NZ building code
2.The client shall verify all dimensions on site before commencing work
3.All concrete work shall comply with NZS3109
4. Cover to reinforcing is to be 50mm min or as shown.Tolerance ± 5mm

NZ Dairy Collaborative Group

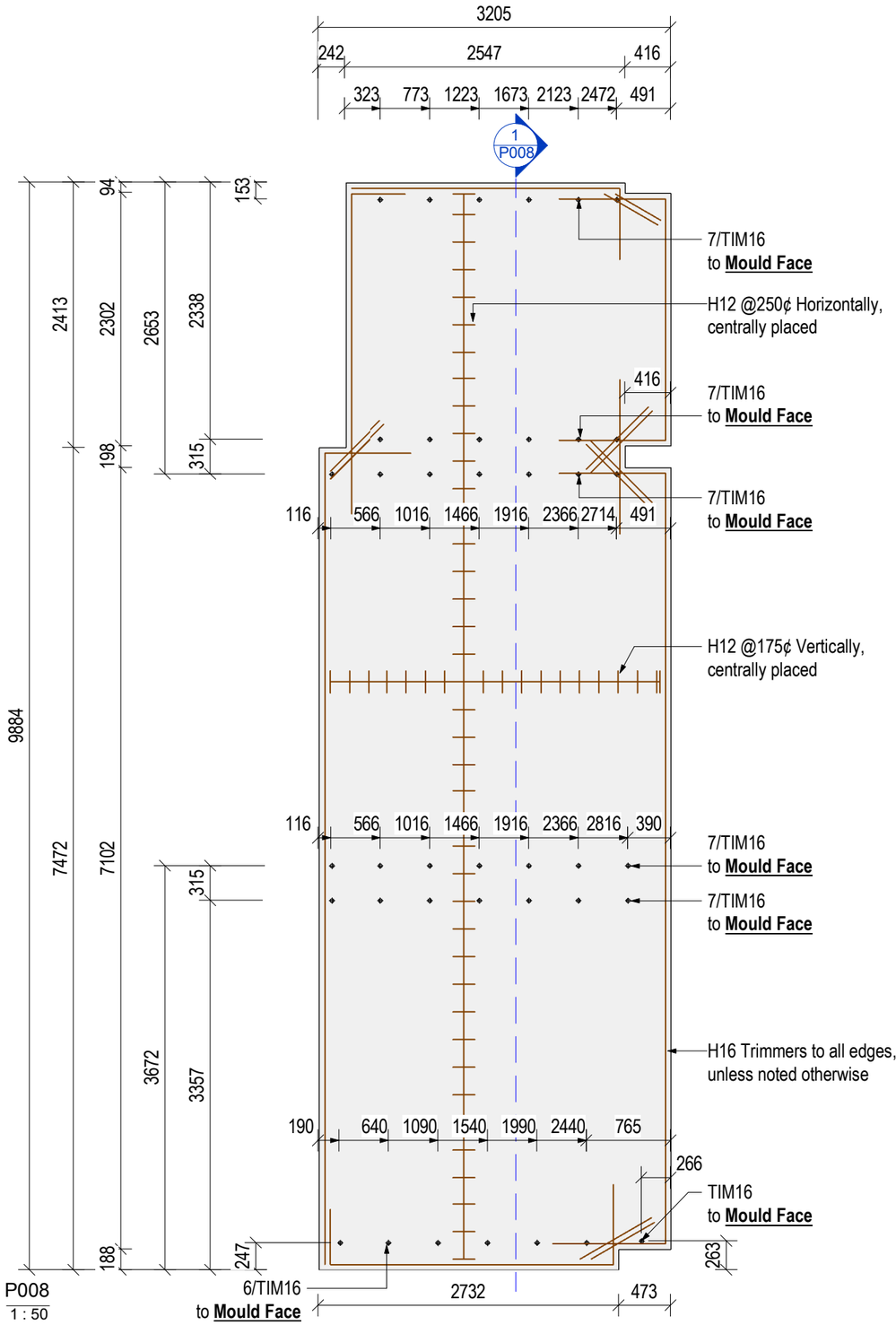
Tower

9 Ashford Ave, Ashburton

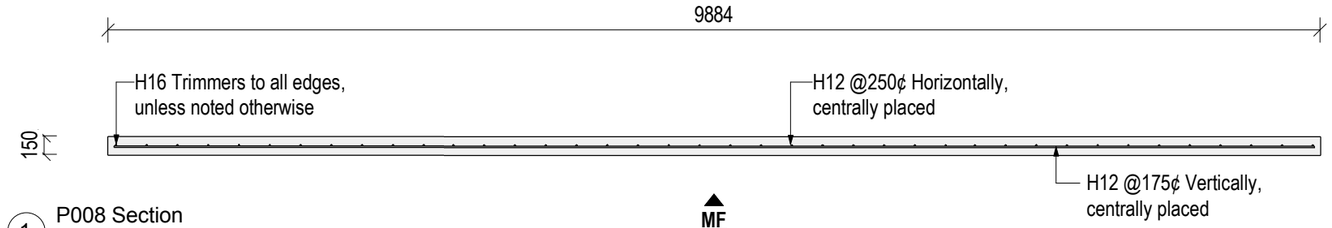
Panel Information			Approval and Date	Drawing Details	
Weight (t) 9.42	No req 1		Q A onsite	DRAWN BY T. Langr	DATE 02/12/16
Volume 3.77 m³	Finish		Operations	APPROVED BY DS, AC, CP, ML, JB, BH	Dwg Sheet P007
Thickness 150mm	MPa (at 28 days) 35MPa min.		Final	ISSUE PRELIM	JOB # PC11720
	MPa (at Lift) 15MPa		Special Additives	SCALE As indicated	Panel # Panel 007

Please note: All panels are drawn looking down on the trowel face, Unless noted otherwise.

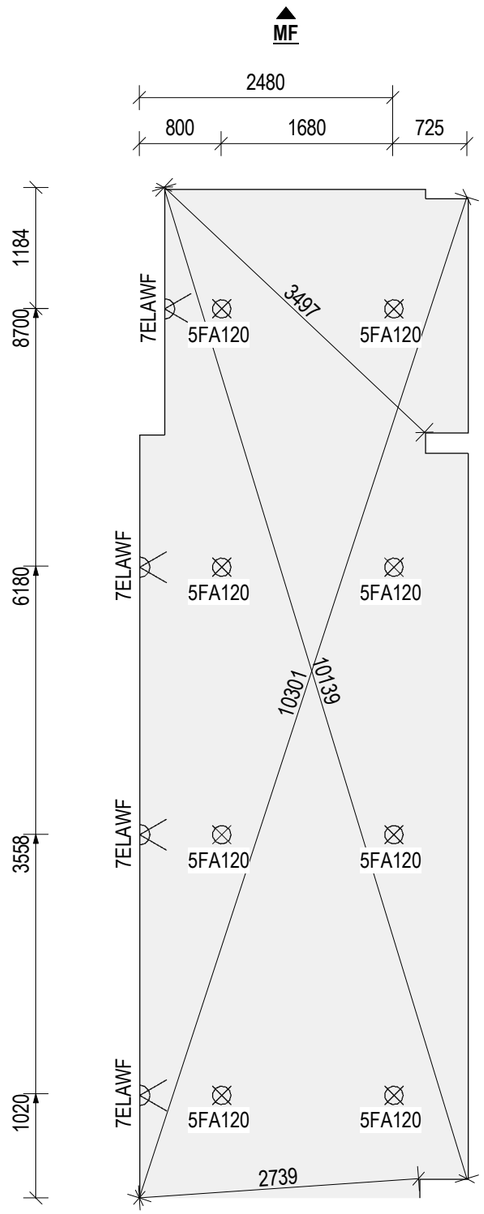
Paper size:A3



P008
1 : 50



1 P008 Section
1 : 50



P008 Lifting Design
1 : 60

PRECAST PANEL FABRICATION DRAWINGS

THOMPSON PRECAST CONCRETE

148 Meadows Road, Washdyke
Office 03 6887534
Design Team 03 6887164

1. All materials and workmanship to be in accordance with the NZ building code
2. The client shall verify all dimensions on site before commencing work
3. All concrete work shall comply with NZS3109
4. Cover to reinforcing is to be 50mm min or as shown. Tolerance ± 5mm

NZ Dairy Collaborative Group

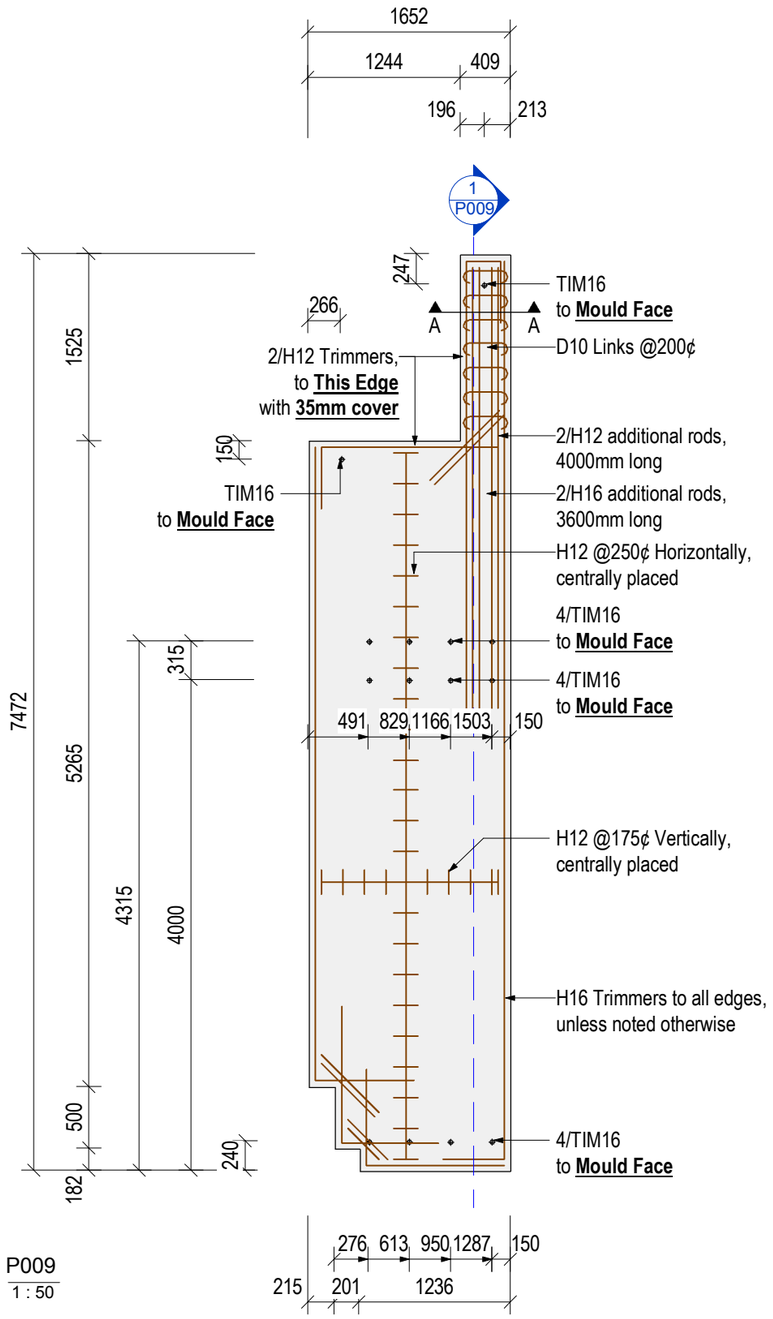
Tower

9 Ashford Ave, Ashburton

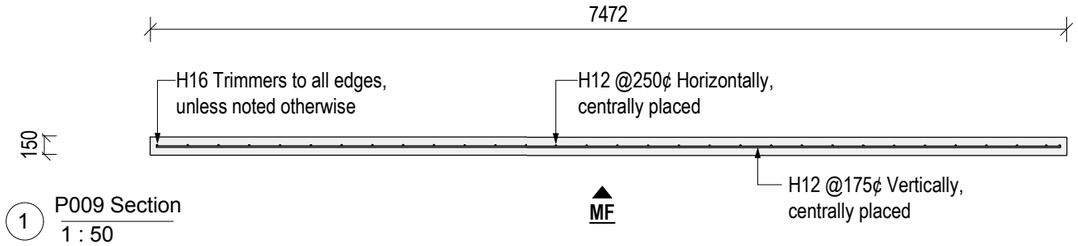
Panel Information			Approval and Date	Drawing Details	
Weight (t) 11.58	No req 1		Q A onsite	DRAWN BY T. Langr	DATE 02/12/16
Volume 4.63 m³	Finish		Operations	APPROVED BY DS, AC, CP, ML, JB, BH	Dwg Sheet P008
Thickness 150mm	MPa (at 28 days) 35MPa min.		Final	ISSUE CON B	JOB # PC11720
	MPa (at Lift) 20MPa		Special Additives	SCALE As indicated	Panel # Panel 008

Please note: All panels are drawn looking down on the trowel face, Unless noted otherwise.

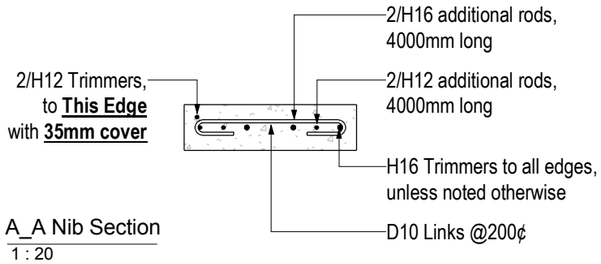
Paper size: A3



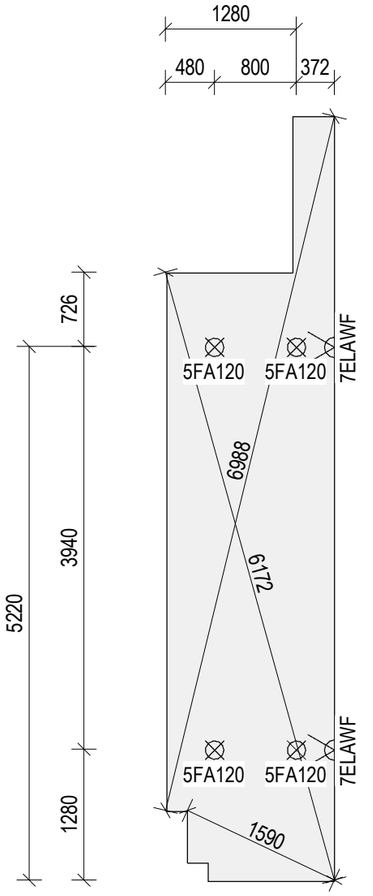
P009
1 : 50



1 P009 Section
1 : 50



A_A Nib Section
1 : 20



P009 Lifting Design
1 : 60

PRECAST PANEL FABRICATION DRAWINGS

THOMPSON PRECAST CONCRETE
148 Meadows Road, Washdyke
Office 03 6887534
Design Team 03 6887164

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2.The client shall verify all dimensions on site before commencing work
3.All concrete work shall comply with NZS3109
4. Cover to reinforcing is to be 50mm min or as shown.Tolerance ± 5mm

NZ Dairy Collaborative Group

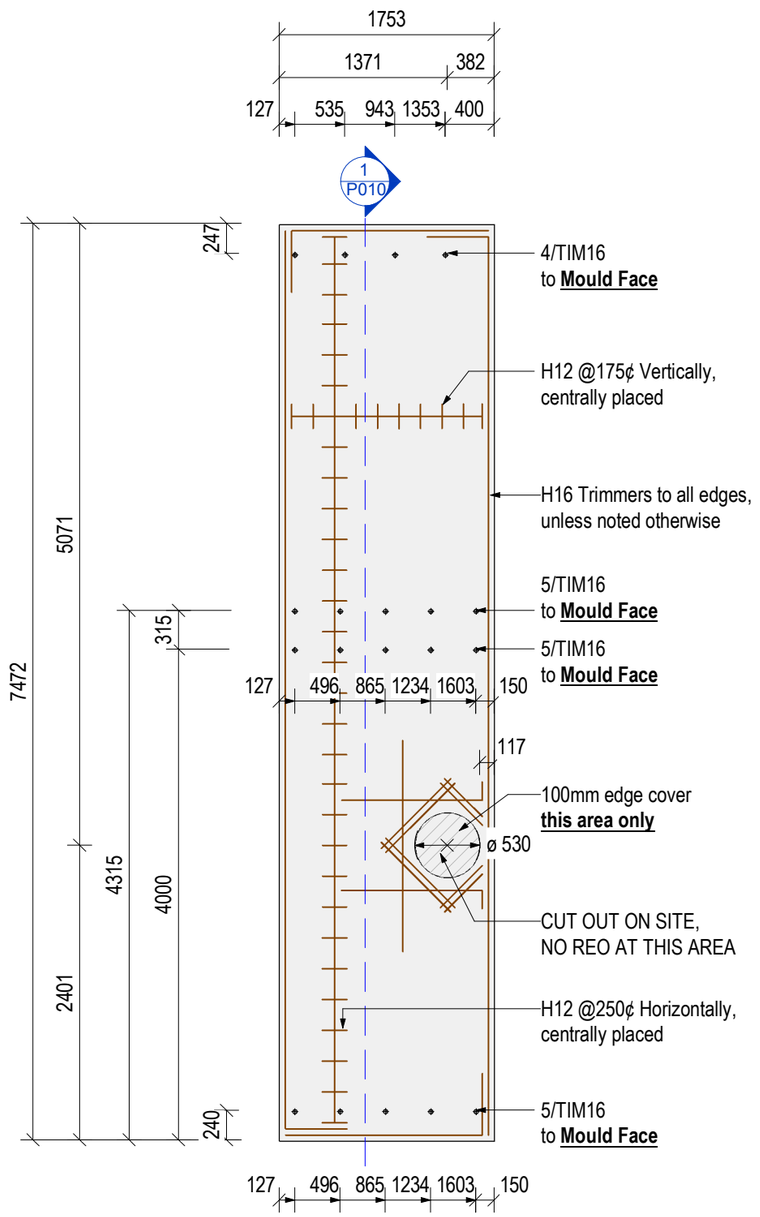
Tower

9 Ashford Ave, Ashburton

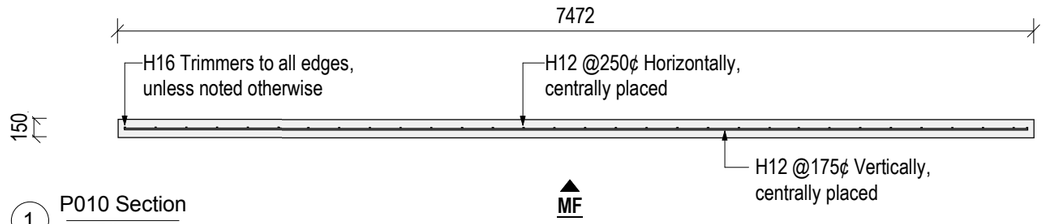
Panel Information				Approval and Date	Drawing Details	
Weight (t) 3.85	No req 1			Q A onsite	DRAWN BY T. Langr	DATE 02/12/16
Volume 1.54 m³	Finish			Operations	APPROVED BY DS, AC, CP, ML, JB, BH	Dwg Sheet P009
Thickness 150mm	MPa (at 28 days) 35MPa min.			Final	ISSUE CON B	JOB # PC11720
	MPa (at Lift) 20MPa			Special Additives	SCALE As indicated	Panel # Panel 009

Please note: All panels are drawn looking down on the trowel face, Unless noted otherwise.

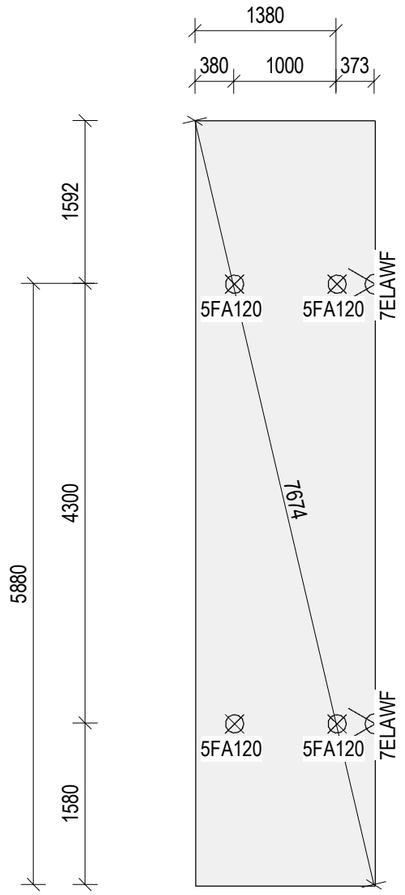
Paper size:A3



P010
1 : 50



1 P010 Section
1 : 50



P010 Lifting Design
1 : 60

PRECAST PANEL FABRICATION DRAWINGS

THOMPSON PRECAST CONCRETE
148 Meadows Road, Washdyke
Office 03 6887534
Design Team 03 6887164

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2. The client shall verify all dimensions on site before commencing work
3. All concrete work shall comply with NZS3109
4. Cover to reinforcing is to be 50mm min or as shown. Tolerance ± 5mm

NZ Dairy Collaborative Group

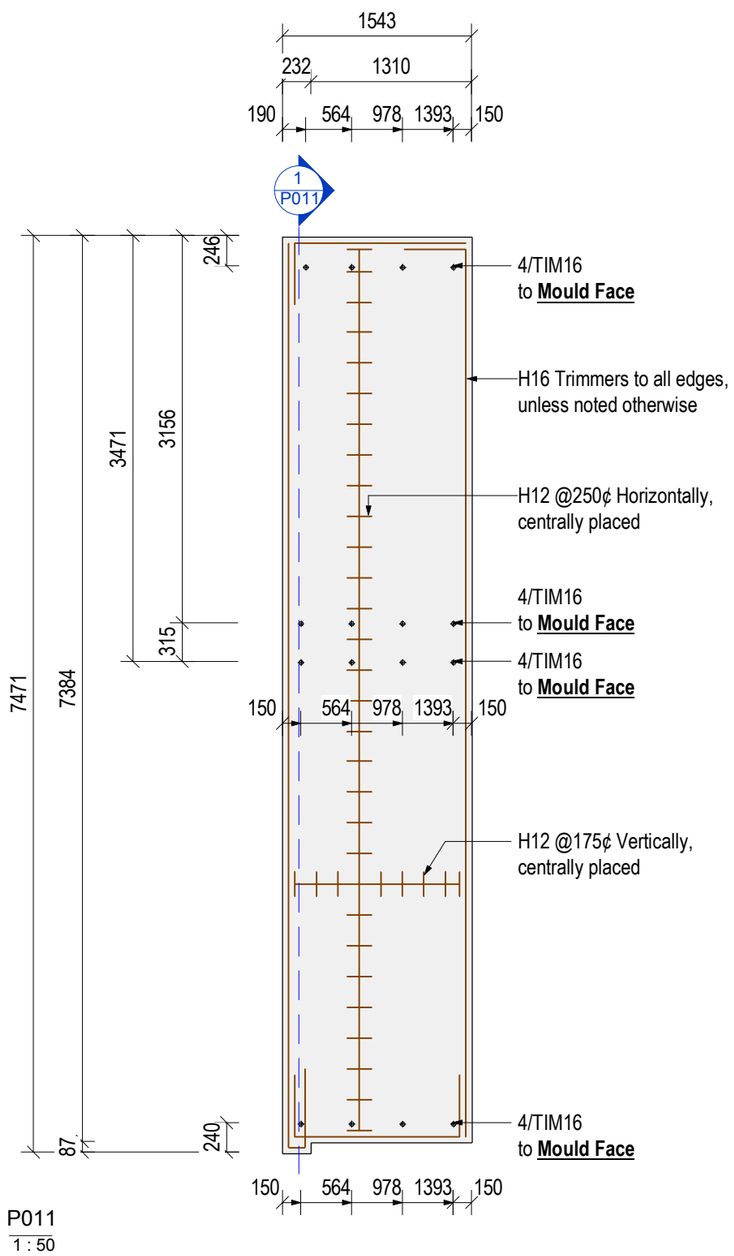
Tower

9 Ashford Ave, Ashburton

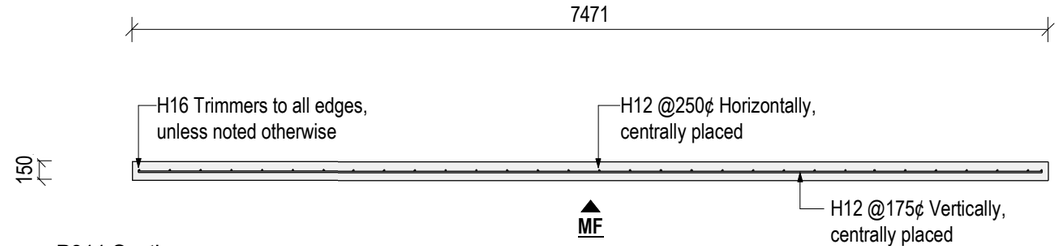
Panel Information			Approval and Date	Drawing Details	
Weight (t) 4.91	No req 1		Q A onsite	DRAWN BY T. Langr	DATE 02/12/16
Volume 1.54 m³	Finish		Operations	APPROVED BY DS, AC, CP, ML, JB, BH	Dwg Sheet P010
Thickness 150mm	MPa (at 28 days) 35MPa min.		Final	ISSUE CON B	JOB # PC11720
	MPa (at Lift) 17MPa		Special Additives	SCALE As indicated	Panel # Panel 010

Please note: All panels are drawn looking down on the trowel face, Unless noted otherwise.

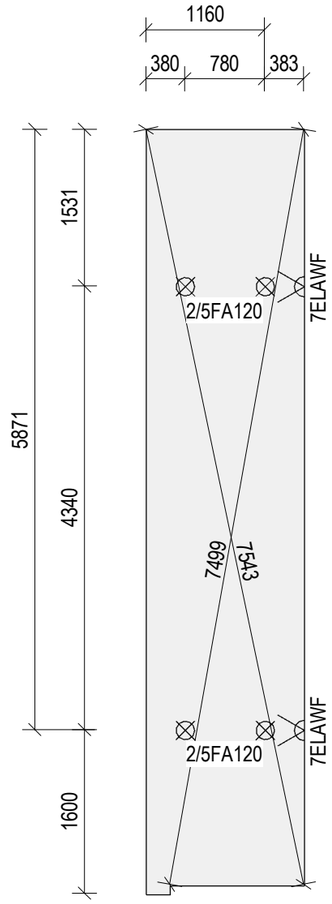
Paper size: A3



P011
1 : 50



1 P011 Section
1 : 50



P011 Lifting Design
1 : 60

PRECAST PANEL FABRICATION DRAWINGS

THOMPSON PRECAST CONCRETE

148 Meadows Road, Washdyke
Office 03 6887534
Design Team 03 6887164

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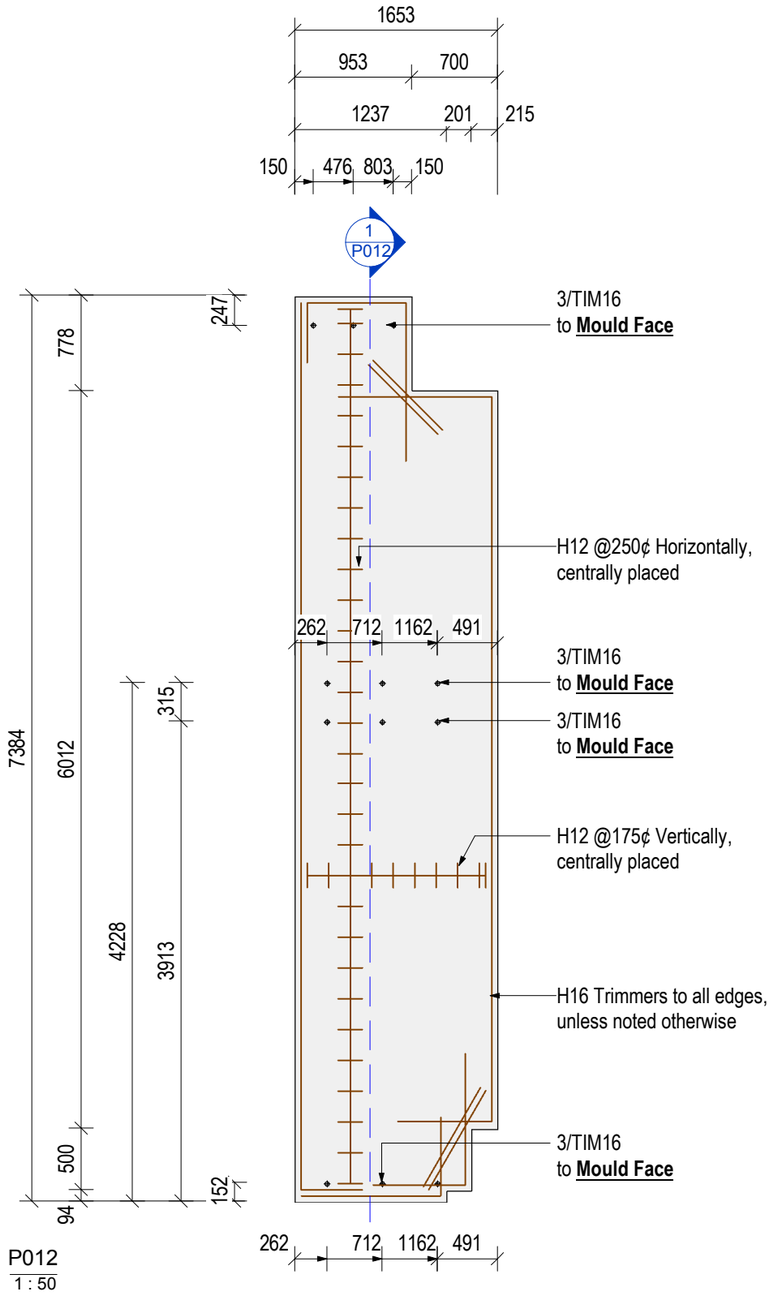
3. All concrete work shall comply with NZS3109
4. Cover to reinforcing is to be 50mm min or as shown. Tolerance ± 5mm

NZ Dairy Collaborative Group

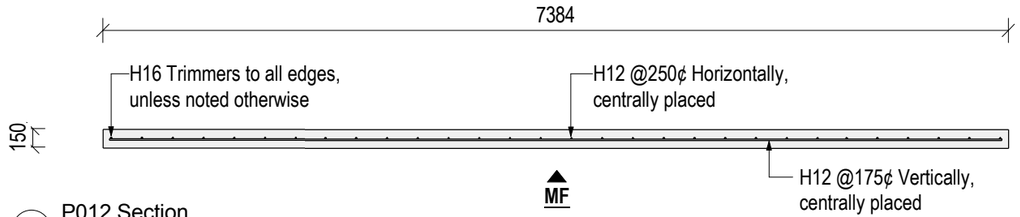
Tower

9 Ashford Ave, Ashburton

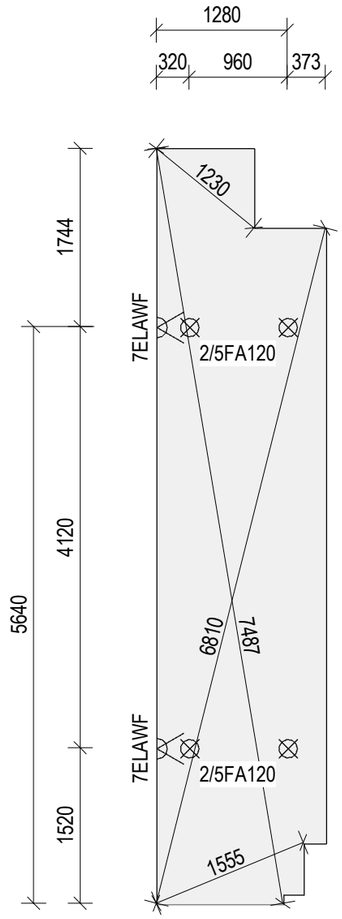
Panel Information			Approval and Date	Drawing Details	
Weight (t) 4.28	No req 1		Q A onsite	DRAWN BY T. Langr	DATE 02/12/16
Volume 1.71 m³	Finish		Operations	APPROVED BY DS, AC, CP, ML, JB, BH	Dwg Sheet P011
Thickness 150mm	MPa (at 28 days) 35MPa min.		Final	ISSUE CON B	JOB # PC11720
	MPa (at Lift) 15MPa		Special Additives	SCALE As indicated	Panel # Panel 011
Please note: All panels are drawn looking down on the trowel face, Unless noted otherwise.					Paper size: A3



P012
1 : 50



1 P012 Section
1 : 50



P012 Lifting Design
1 : 60

PRECAST PANEL FABRICATION DRAWINGS

THOMPSON PRECAST CONCRETE
148 Meadows Road, Washdyke
Office 03 6887534
Design Team 03 6887164

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NZ Dairy Collaborative Group

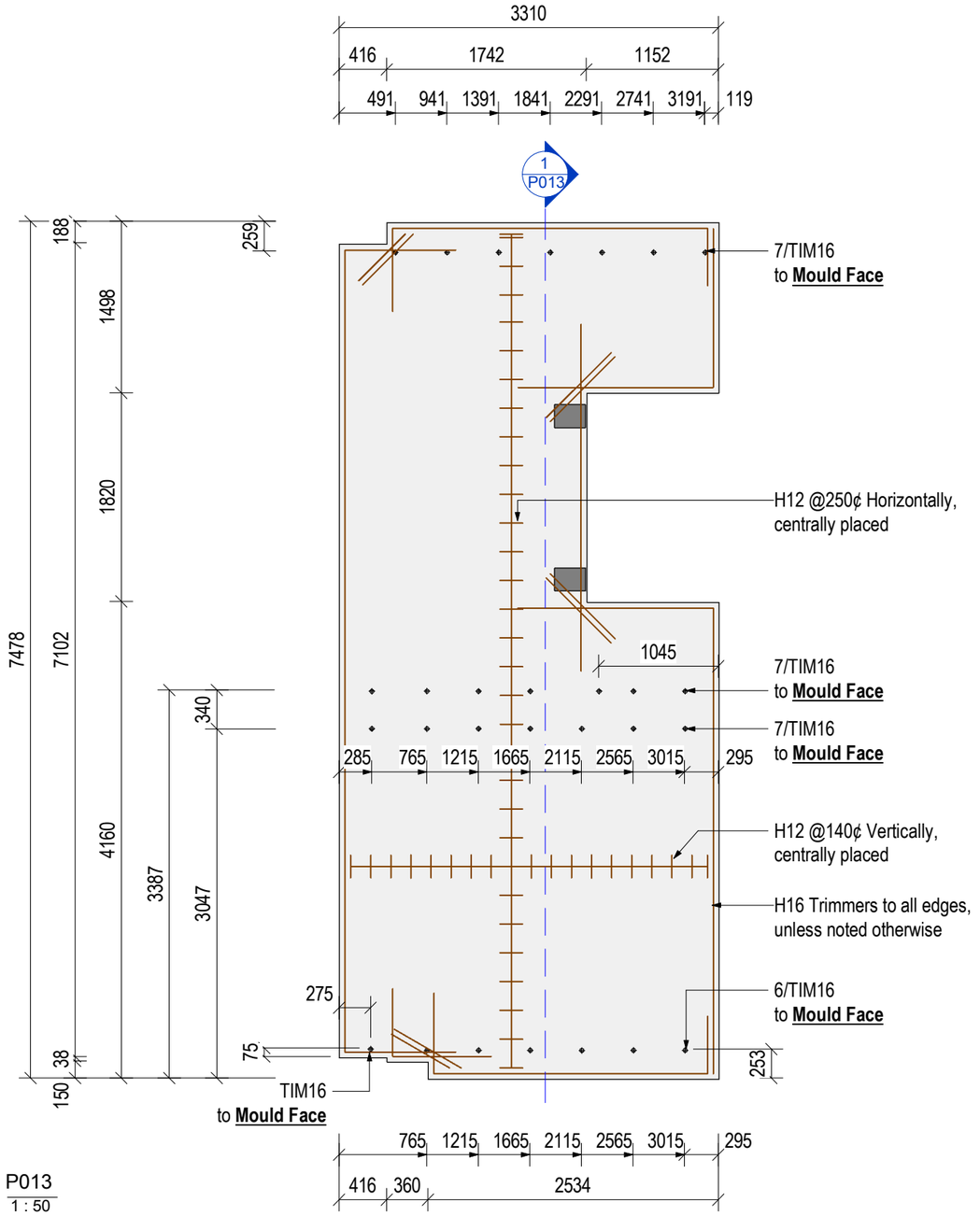
Tower

9 Ashford Ave, Ashburton

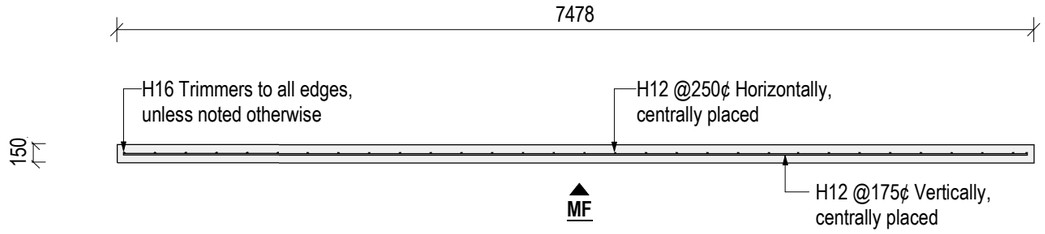
Panel Information			Approval and Date	Drawing Details	
Weight (t) 4.32	No req 1		Q A onsite	DRAWN BY T. Langr	DATE 02/12/16
Volume 1.73 m³	Finish		Operations	APPROVED BY DS, AC, CP, ML, JB, BH	Dwg Sheet P012
Thickness 150mm	MPa (at 28 days) 35MPa min.		Final	ISSUE CON B	JOB # PC11720
	MPa (at Lift) 15MPa		Special Additives	SCALE As indicated	Panel # Panel 012

Please note: All panels are drawn looking down on the trowel face, Unless noted otherwise.

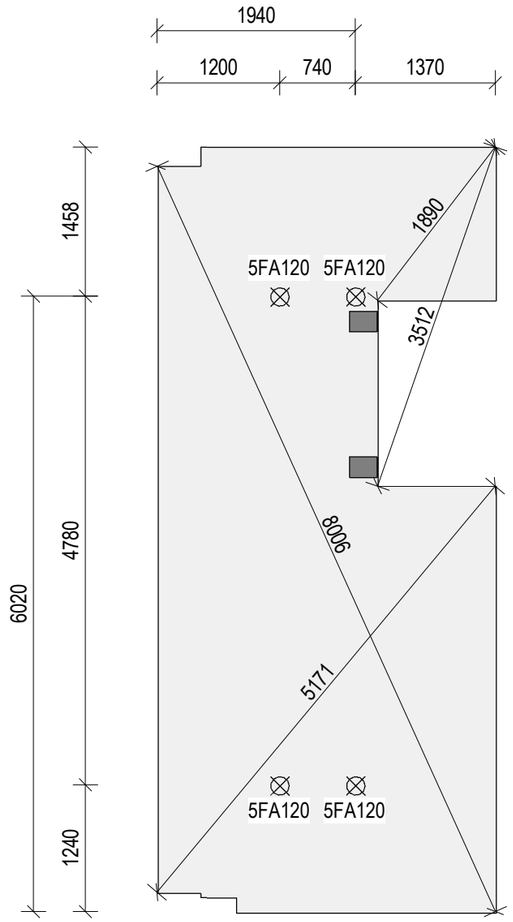
Paper size: A3



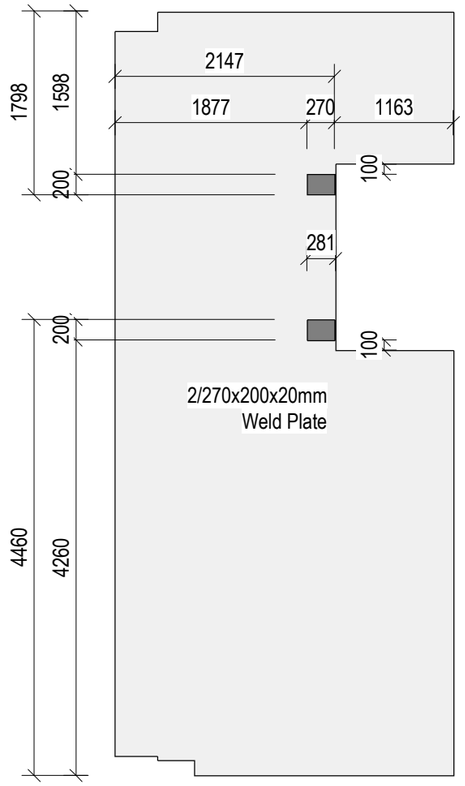
P013
1 : 50



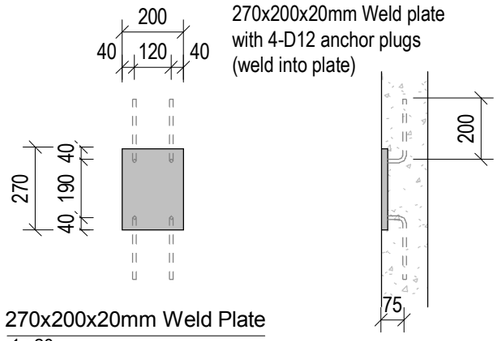
1 P013 Section
1 : 50



P013 Lifting Design
1 : 60



P013 Weld Plates Locations
1 : 60



270x200x20mm Weld Plate
1 : 20

PRECAST PANEL FABRICATION DRAWINGS

THOMPSON PRECAST CONCRETE

148 Meadows Road, Washdyke
Office 03 6887534
Design Team 03 6887164

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2.The client shall verify all dimensions on site before commencing work
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NZ Dairy Collaborative Group

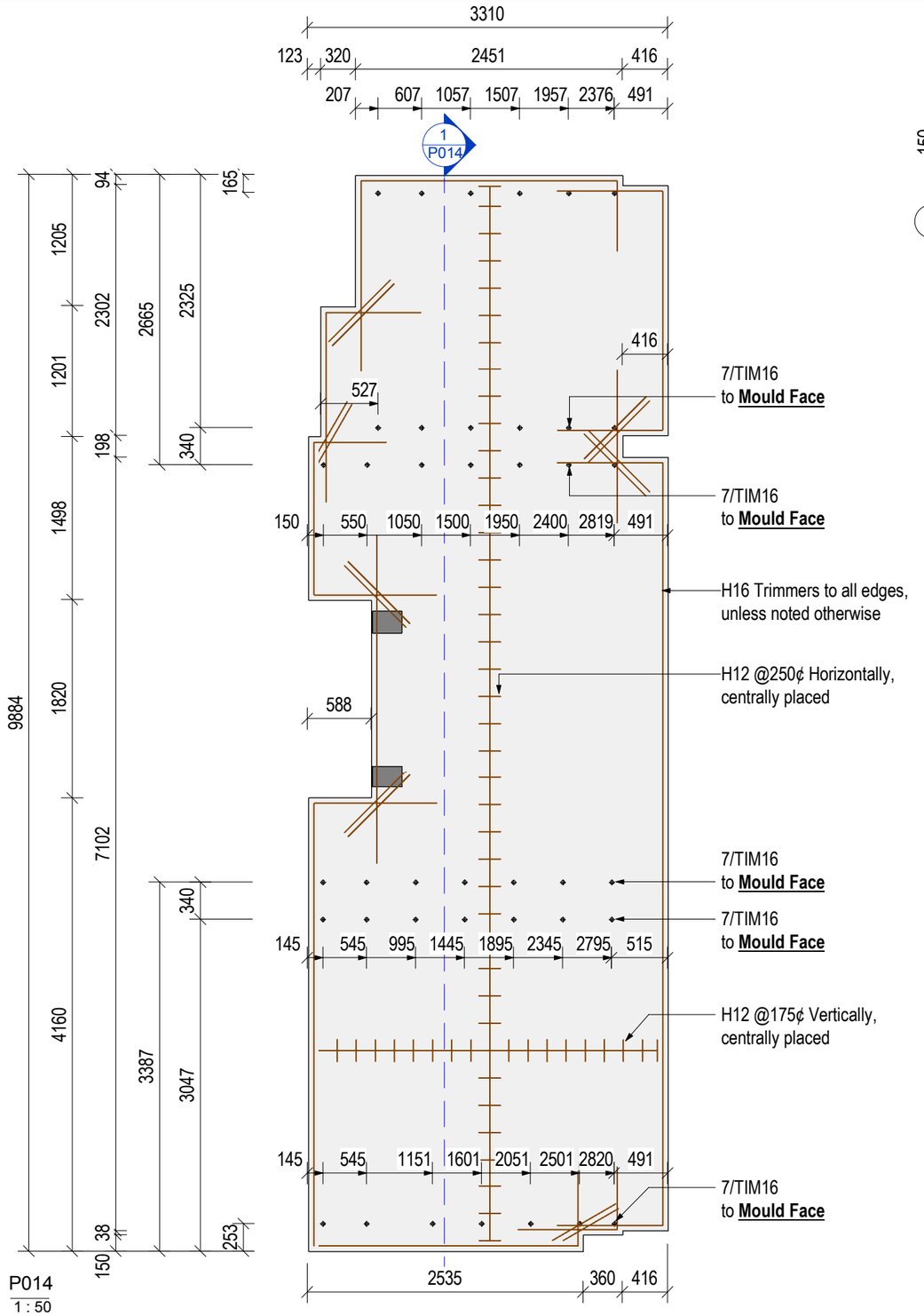
Tower

9 Ashford Ave, Ashburton

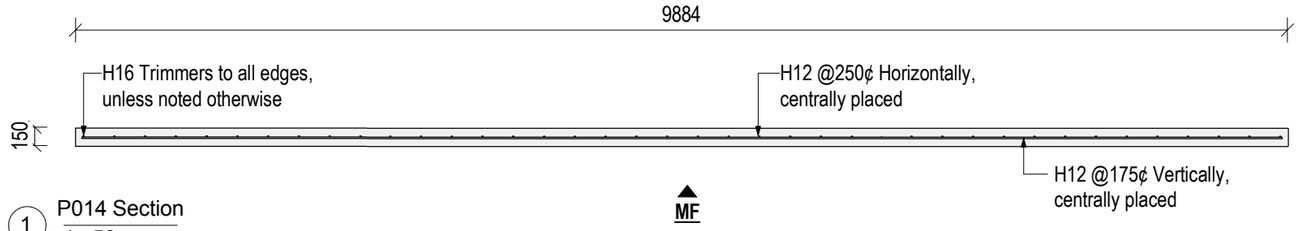
Panel Information			Approval and Date	Drawing Details	
Weight (t) 8.41	No req 1		Q A onsite	DRAWN BY T. Langr	DATE 02/12/16
Volume 3.36 m³	Finish		Operations	APPROVED BY DS, AC, CP, ML, JB, BH	Dwg Sheet P013
Thickness 150mm	MPa (at 28 days) 35MPa min.		Final	ISSUE PRELIM	JOB # PC11720
	MPa (at Lift) 20MPa		Special Additives	SCALE As indicated	Panel # Panel 013

Please note: All panels are drawn looking down on the trowel face, Unless noted otherwise.

Paper size:A3

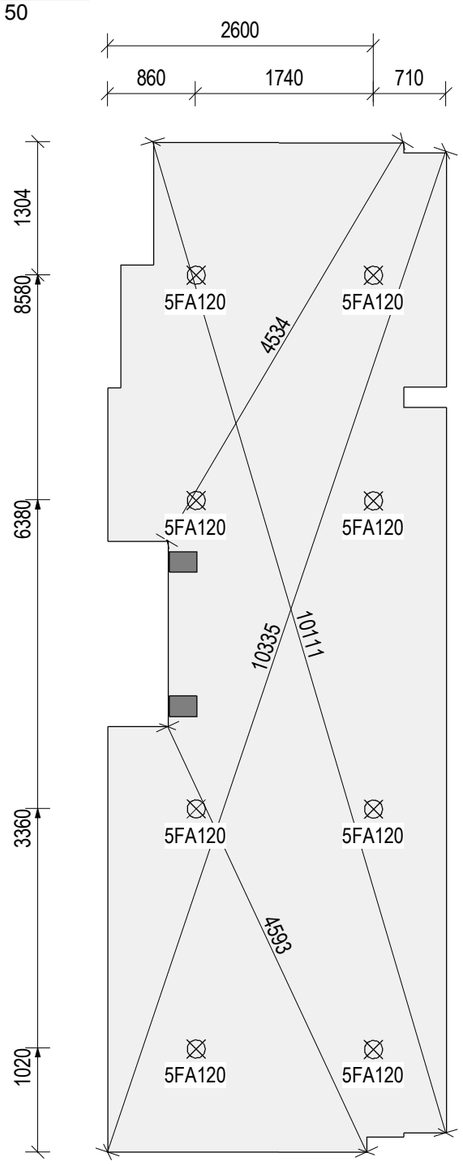


P014
1 : 50

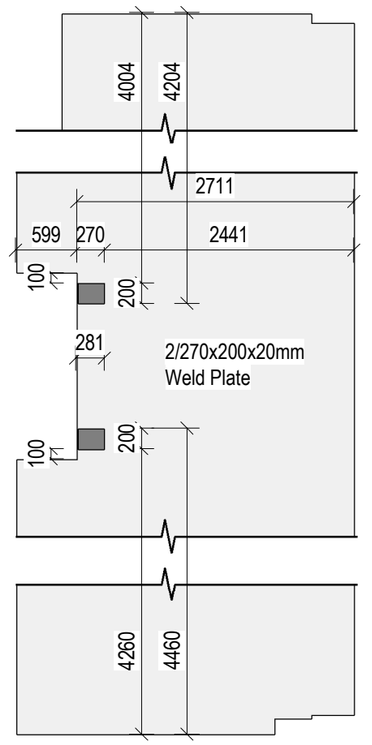


1 P014 Section
1 : 50

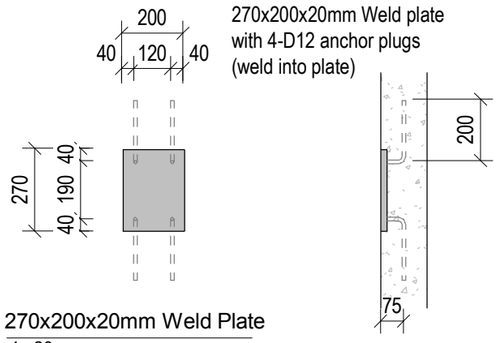
MF



P014 Lifting Design
1 : 60



P014 Weld Plates Locations
1 : 60



270x200x20mm Weld Plate
1 : 20

PRECAST PANEL FABRICATION DRAWINGS

THOMPSON PRECAST CONCRETE

148 Meadows Road, Washdyke
Office 03 6887534
Design Team 03 6887164

1. All materials and workmanship to be in accordance with the NZ building code
2. The client shall verify all dimensions on site before commencing work
3. All concrete work shall comply with NZS3109
4. Cover to reinforcing is to be 50mm min or as shown. Tolerance ± 5mm

NZ Dairy Collaborative Group

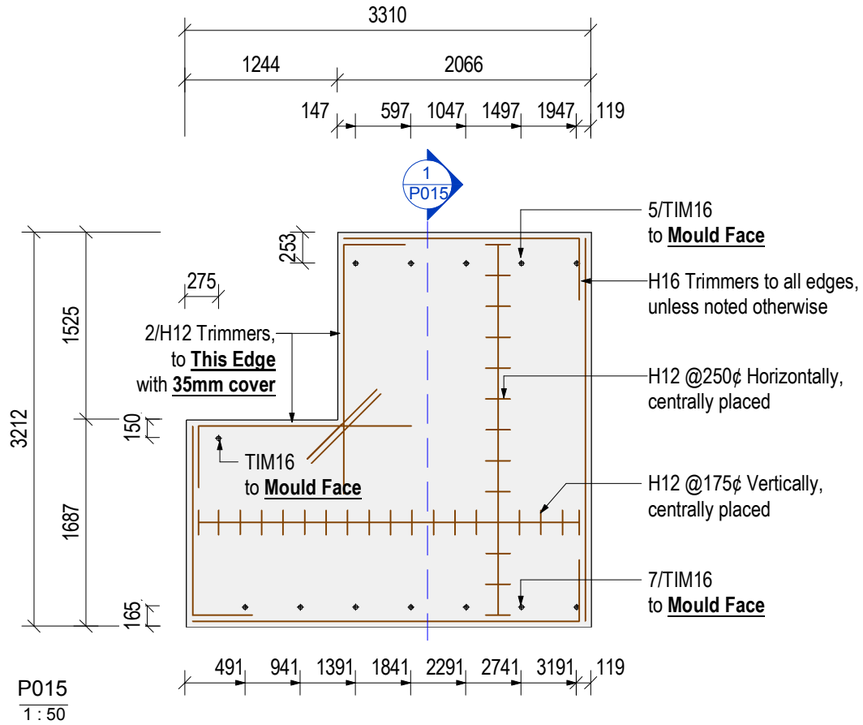
Tower

9 Ashford Ave, Ashburton

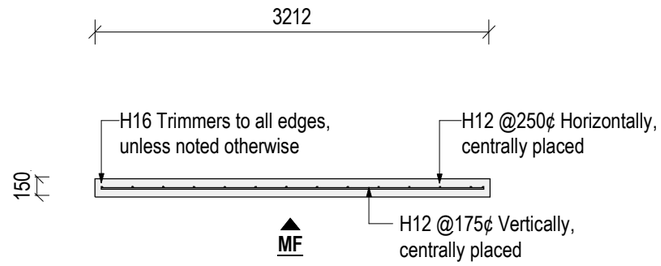
Panel Information			Approval and Date	Drawing Details	
Weight (t) 11.51	No req 1		Q A onsite	DRAWN BY T. Langr	DATE 02/12/16
Volume 4.60 m³	Finish		Operations	APPROVED BY DS, AC, CP, ML, JB, BH	Dwg Sheet P014
Thickness 150mm	MPa (at 28 days) 35MPa min.		Final	ISSUE CON B	JOB # PC11720
	MPa (at Lift) 15MPa		Special Additives	SCALE As indicated	Panel # Panel 014

Please note: All panels are drawn looking down on the trowel face, Unless noted otherwise.

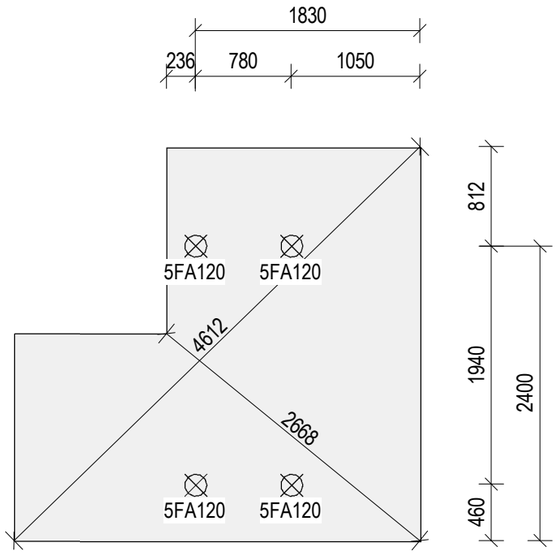
Paper size: A3



P015
1 : 50



1 P015 Section
1 : 50



P015 Lifting Design
1 : 50

PRECAST PANEL FABRICATION DRAWINGS

THOMPSON PRECAST CONCRETE

148 Meadows Road, Washdyke
Office 03 6887534
Design Team 03 6887164

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3. All concrete work shall comply with NZS3109
4. Cover to reinforcing is to be 50mm min or as shown. Tolerance ± 5mm

NZ Dairy Collaborative Group

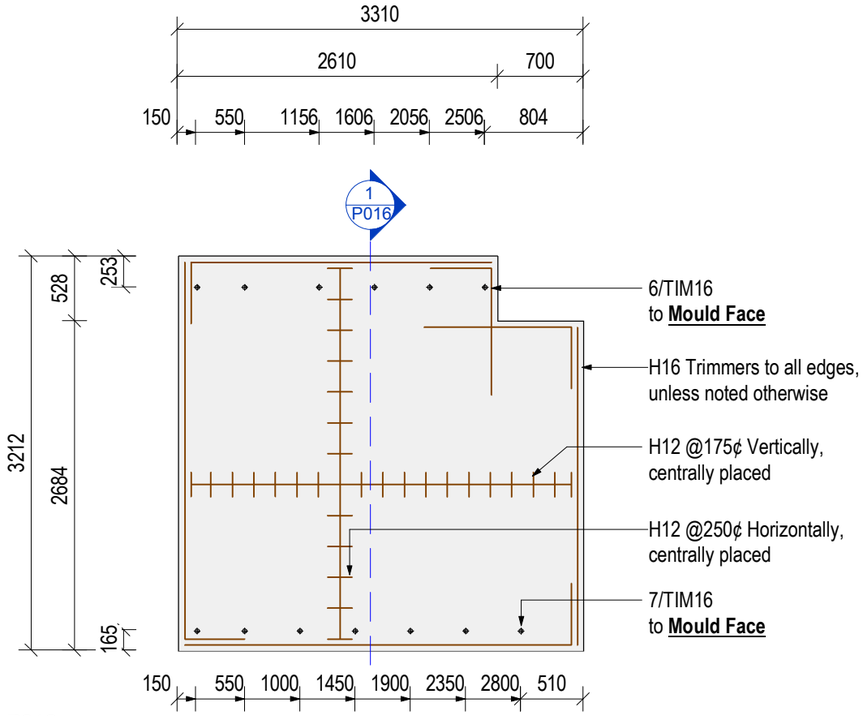
Tower

9 Ashford Ave, Ashburton

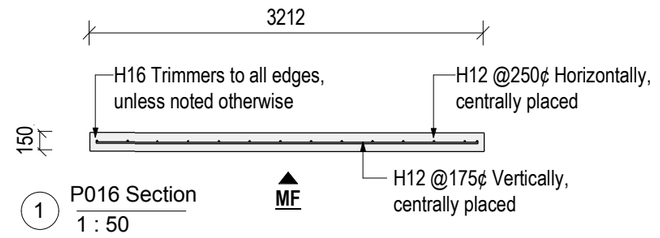
Panel Information				Approval and Date	Drawing Details	
Weight (t) 3.28	No req 1			Q A onsite	DRAWN BY T. Langr	DATE 02/12/16
Volume 1.31 m³	Finish			Operations	APPROVED BY AC, CP, ML, JB, BH	Dwg Sheet P015
Thickness 150mm	MPa (at 28 days) 35MPa min.			Final	ISSUE CON A	JOB # PC11720
	MPa (at Lift) 15MPa			Special Additives	SCALE 1 : 50	Panel # Panel 015

Please note: All panels are drawn looking down on the trowel face, Unless noted otherwise.

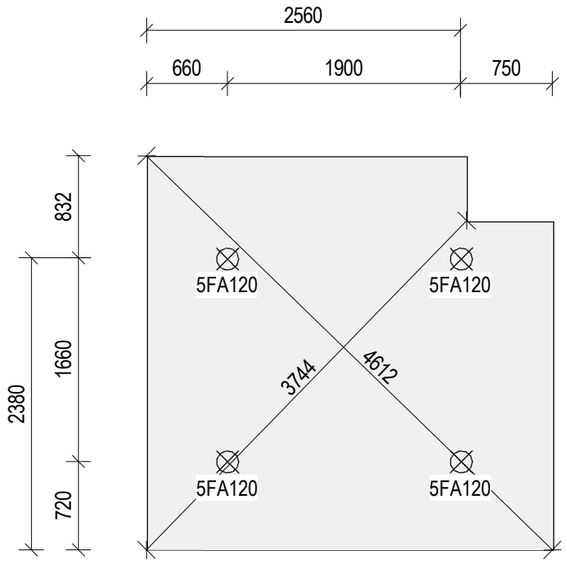
Paper size: A3



P016
1 : 50



P016 Section
1 : 50



P016 Lifting Design
1 : 50

PRECAST PANEL FABRICATION DRAWINGS

THOMPSON PRECAST CONCRETE

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Office 03 6887534
Design Team 03 6887164

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3. All concrete work shall comply with NZS3109
4. Cover to reinforcing is to be 50mm min or as shown. Tolerance ± 5mm

NZ Dairy Collaborative Group

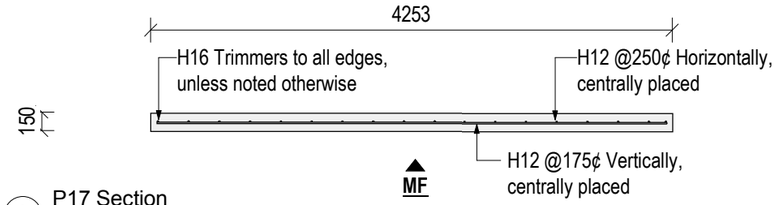
Tower

9 Ashford Ave, Ashburton

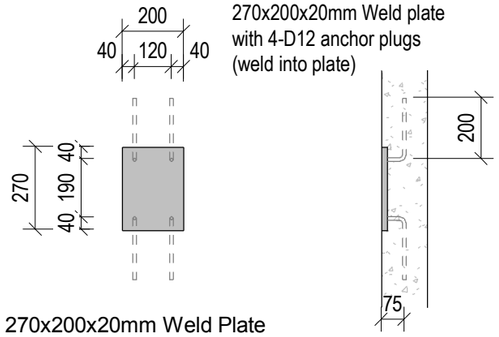
Panel Information			Approval and Date	Drawing Details	
Weight (t) 3.85	No req 1		Q A onsite	DRAWN BY T. Langr	DATE 02/12/16
Volume 1.54 m³	Finish		Operations	APPROVED BY AC, CP, ML, JB, BH	Dwg Sheet P016
Thickness 150mm	MPa (at 28 days) 35MPa min.		Final	ISSUE CON A	JOB # PC11720
	MPa (at Lift) 15MPa		Special Additives	SCALE 1 : 50	Panel # Panel 016

Please note: All panels are drawn looking down on the trowel face, Unless noted otherwise.

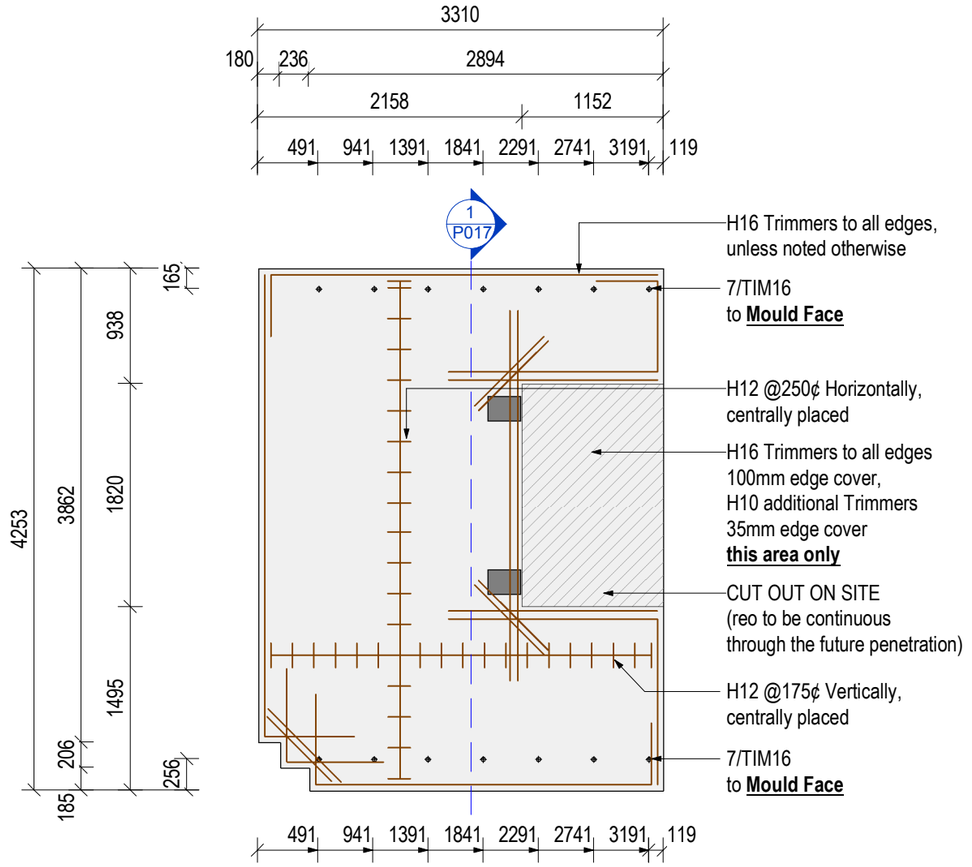
Paper size: A3



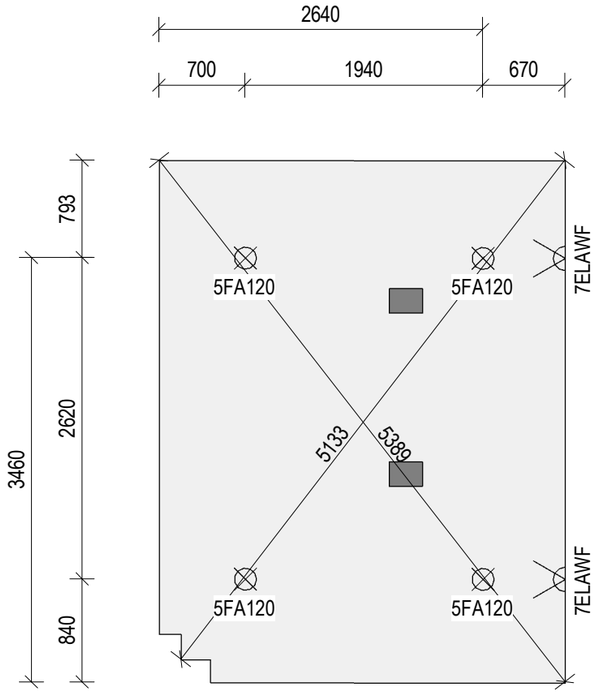
1 P17 Section
1 : 50



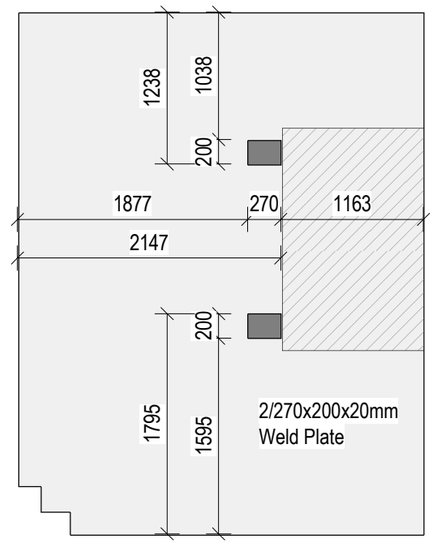
270x200x20mm Weld Plate
1 : 20



P017
1 : 50



P017 Lifting Design
1 : 50



P017 Weld Plates Locations
1 : 50

PRECAST PANEL FABRICATION DRAWINGS

THOMPSON PRECAST CONCRETE
148 Meadows Road, Washdyke
Office 03 6887534
Design Team 03 6887164

1. All materials and workmanship to be in accordance with the NZ building code
2. The client shall verify all dimensions on site before commencing work
3. All concrete work shall comply with NZS3109
4. Cover to reinforcing is to be 50mm min or as shown. Tolerance ± 5mm

NZ Dairy Collaborative Group

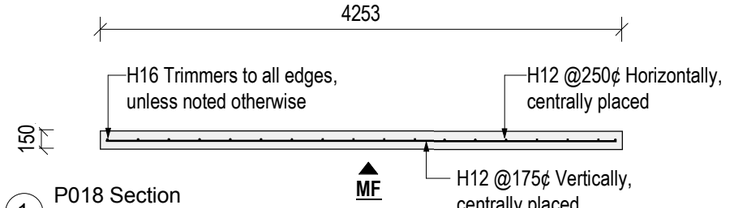
Tower

9 Ashford Ave, Ashburton

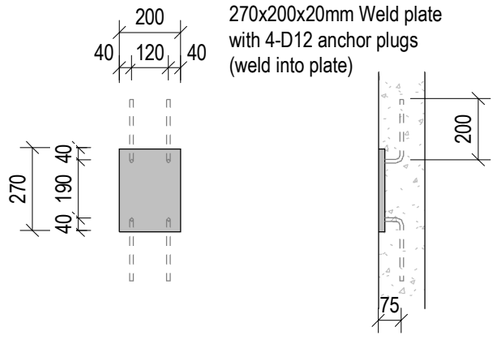
Panel Information			Approval and Date	Drawing Details	
Weight (t) 5.23	No req 1		Q A onsite	DRAWN BY T. Langr	DATE 02/12/16
Volume 2.09 m³	Finish		Operations	APPROVED BY DS, AC, CP, ML, JB, BH	Dwg Sheet P017
Thickness 150mm	MPa (at 28 days) 35MPa min.		Final	ISSUE CON B	JOB # PC11720
	MPa (at Lift) 15MPa		Special Additives	SCALE As indicated	Panel # Panel 017

Please note: All panels are drawn looking down on the trowel face, Unless noted otherwise.

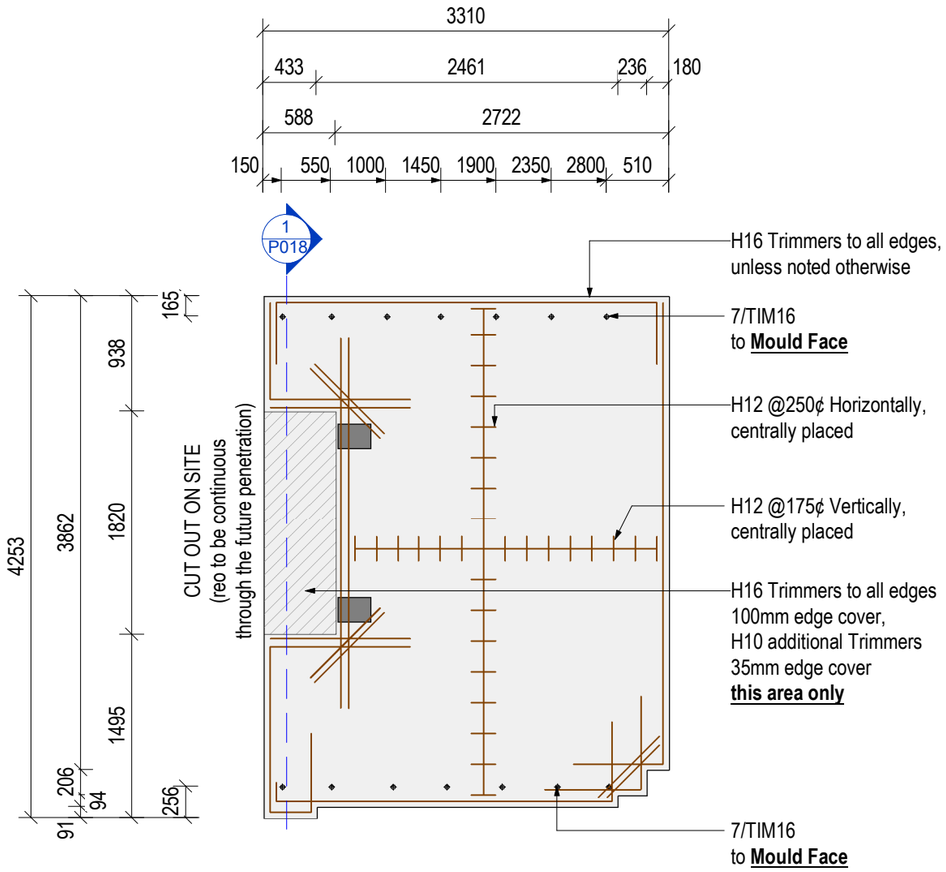
Paper size: A3



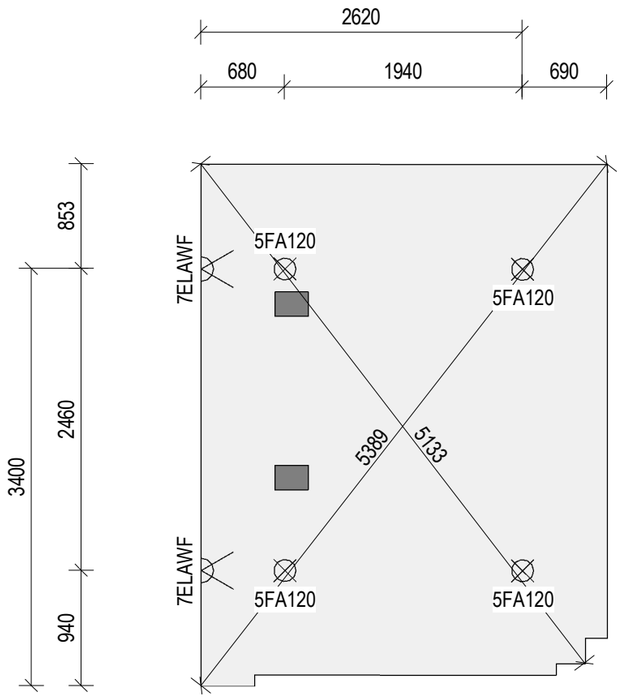
1 P018 Section
1 : 50



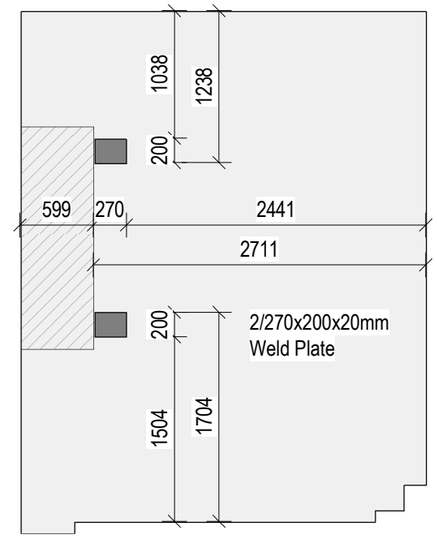
270x200x20mm Weld Plate
1 : 20



P018
1 : 50



P018 Lifting Design
1 : 50



P018 Weld Plates Locations
1 : 50

PRECAST PANEL FABRICATION DRAWINGS

THOMPSON PRECAST CONCRETE
148 Meadows Road, Washdyke
Office 03 6887534
Design Team 03 6887164

1. All materials and workmanship to be in accordance with the NZ building code
2. The client shall verify all dimensions on site before commencing work
3. All concrete work shall comply with NZS3109
4. Cover to reinforcing is to be 50mm min or as shown. Tolerance ± 5mm

NZ Dairy Collaborative Group

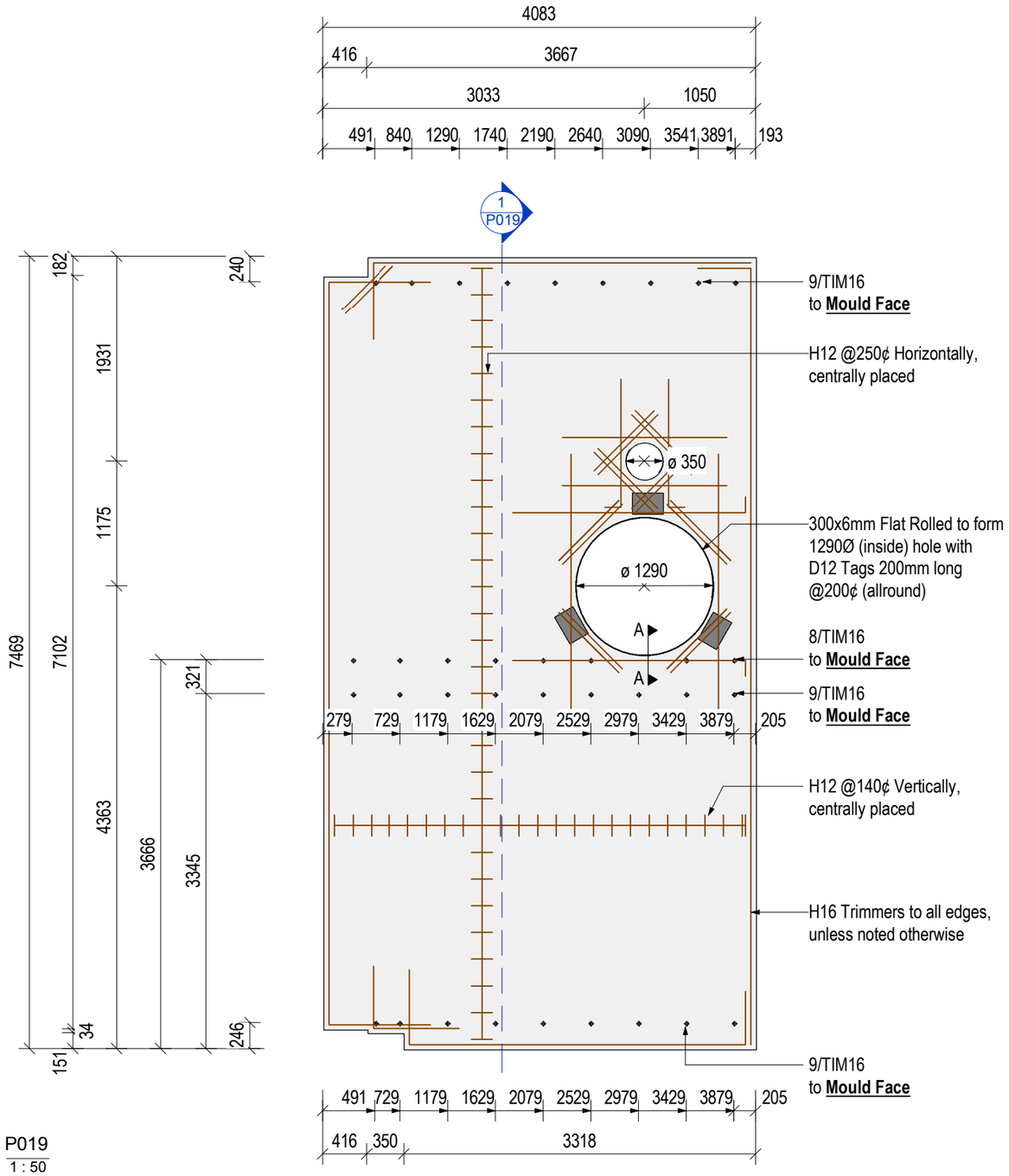
Tower

9 Ashford Ave, Ashburton

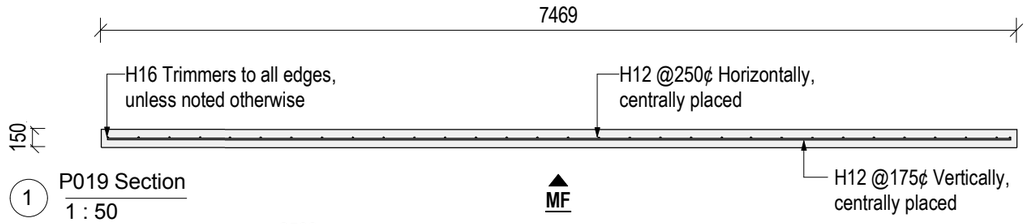
Panel Information			Approval and Date	Drawing Details	
Weight (t) 5.15	No req 1		Q A onsite	DRAWN BY T. Langr	DATE 02/12/16
Volume 2.06 m³	Finish		Operations	APPROVED BY DS, AC, CP, ML, JB, BH	Dwg Sheet P018
Thickness 150mm	MPa (at 28 days) 35MPa min.		Final	ISSUE CON B	JOB # PC11720
	MPa (at Lift) 15MPa		Special Additives	SCALE As indicated	Panel # Panel 018

Please note: All panels are drawn looking down on the trowel face, Unless noted otherwise.

Paper size: A3

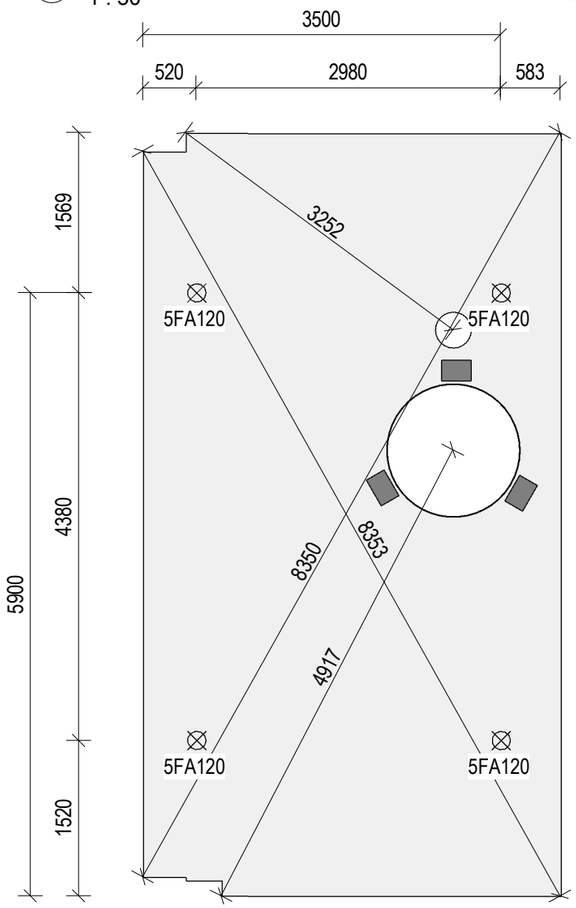


P019
1 : 50

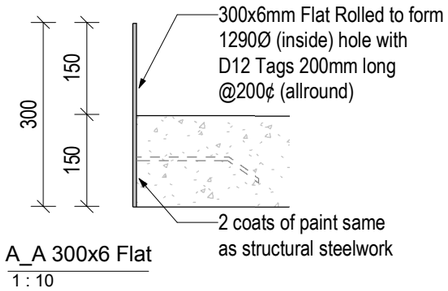


1 P019 Section
1 : 50

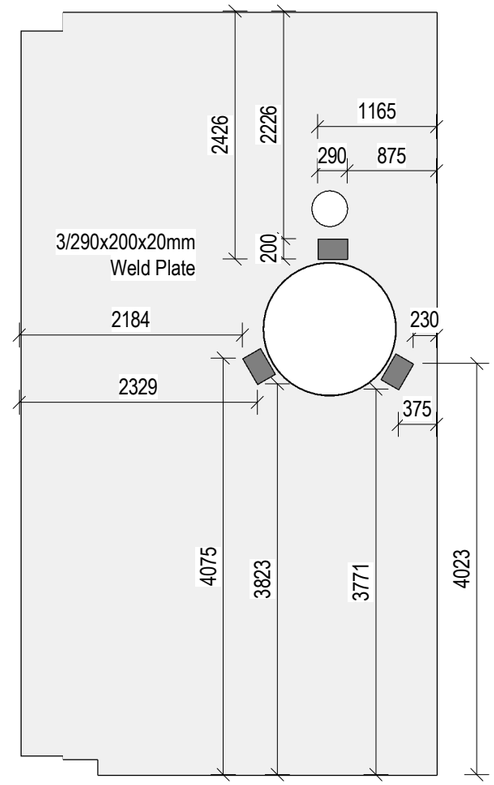
MF



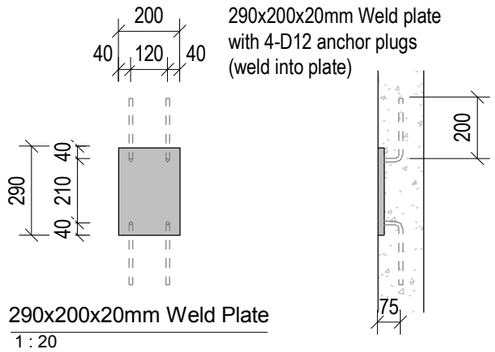
P019 Lifting Design
1 : 60



A_A 300x6 Flat
1 : 10



P019 Weld Plates locations
1 : 60



290x200x20mm Weld Plate
1 : 20

PRECAST PANEL FABRICATION DRAWINGS

THOMPSON PRECAST CONCRETE
148 Meadows Road, Washdyke
Office 03 6887534
Design Team 03 6887164

1. All materials and workmanship to be in accordance with the NZ building code
2. The client shall verify all dimensions on site before commencing work
3. All concrete work shall comply with NZS3109
4. Cover to reinforcing is to be 50mm min or as shown. Tolerance ± 5mm

NZ Dairy Collaborative Group

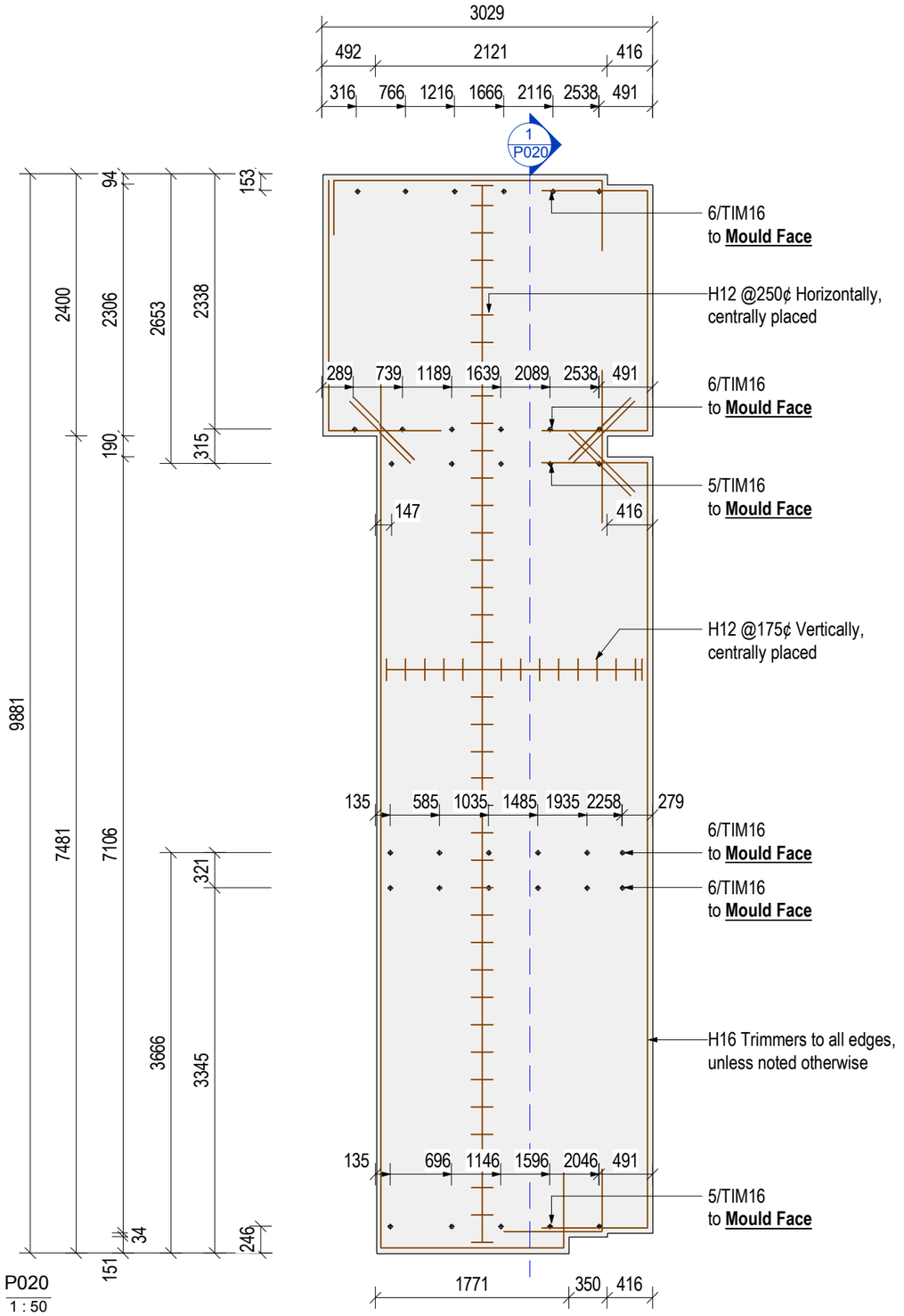
Tower

9 Ashford Ave, Ashburton

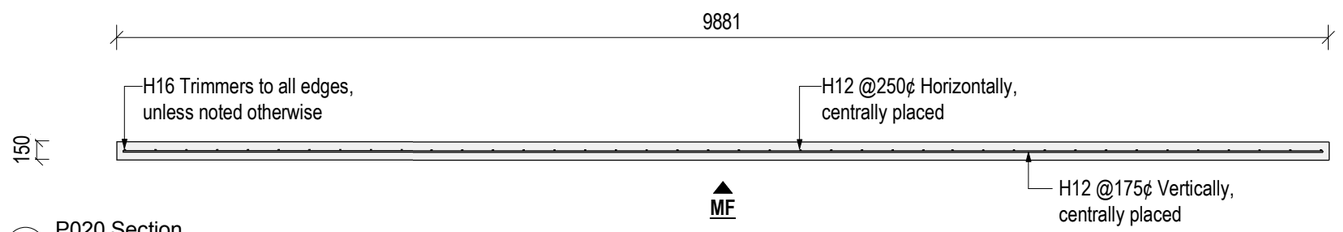
Panel Information			Approval and Date	Drawing Details	
Weight (t) 10.81	No req 1		Q A onsite	DRAWN BY T. Langr	DATE 02/12/16
Volume 4.33 m³	Finish		Operations	APPROVED BY DS, AC, CP, ML, JB, BH	Dwg Sheet P019
Thickness 150mm	MPa (at 28 days) 35MPa min.		Final	ISSUE PRELIM	JOB # PC11720
	MPa (at Lift) 20MPa		Special Additives	SCALE As indicated	Panel # Panel 019

Please note: All panels are drawn looking down on the trowel face, Unless noted otherwise.

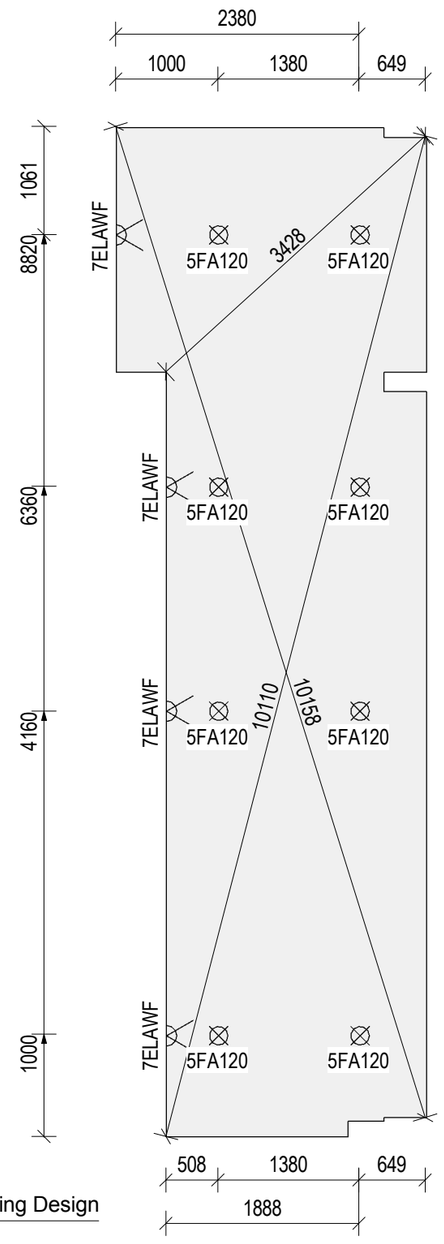
Paper size: A3



P020
1 : 50



1 P020 Section
1 : 50



P020 Lifting Design
1 : 60

PRECAST PANEL FABRICATION DRAWINGS

THOMPSON PRECAST CONCRETE
148 Meadows Road, Washdyke
Office 03 6887534
Design Team 03 6887164

1. All materials and workmanship to be in accordance with the NZ building code
2. The client shall verify all dimensions on site before commencing work
3. All concrete work shall comply with NZS3109
4. Cover to reinforcing is to be 50mm min or as shown. Tolerance ± 5mm

NZ Dairy Collaborative Group

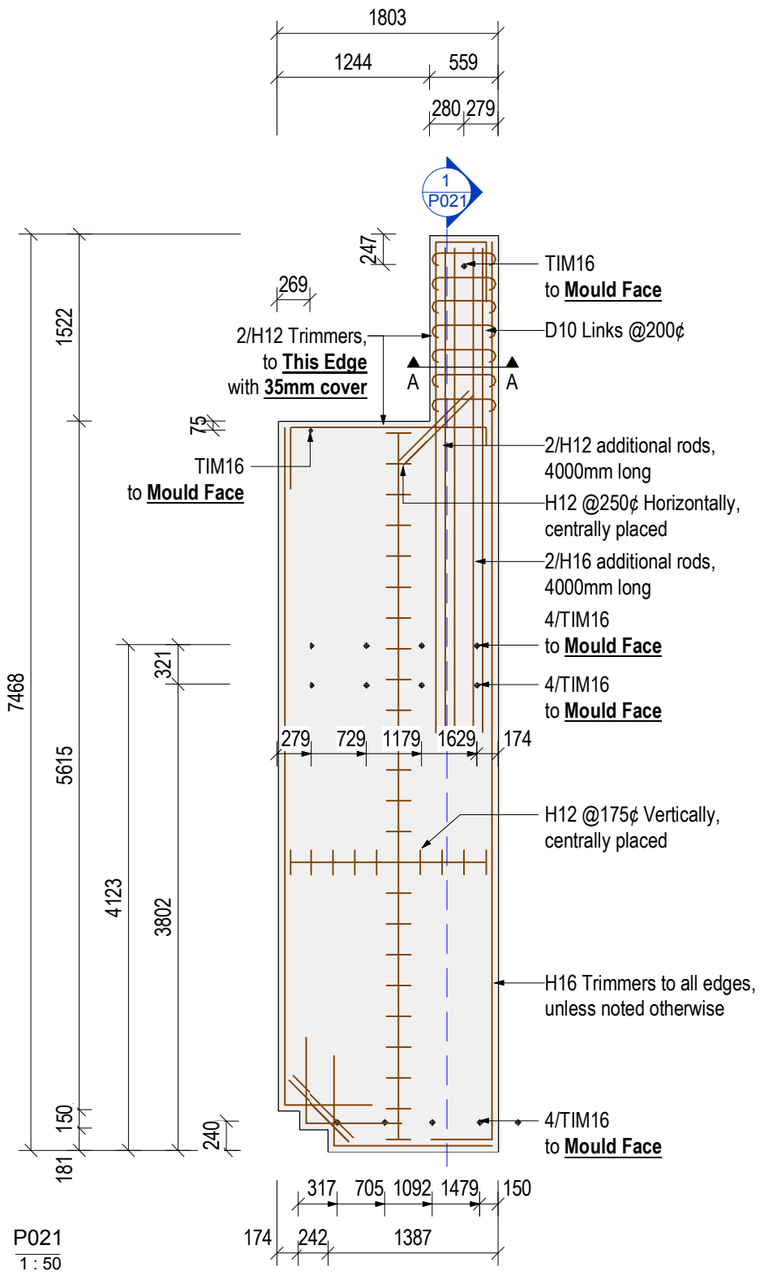
Tower

9 Ashford Ave, Ashburton

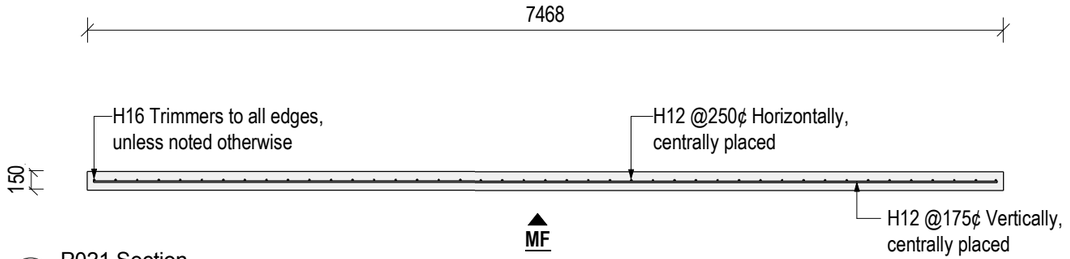
Panel Information			Approval and Date	Drawing Details	
Weight (t) 9.75	No req 1		Q A onsite	DRAWN BY T. Langr	DATE 02/12/16
Volume 3.90 m³	Finish		Operations	APPROVED BY DS, AC, CP, ML, JB, BH	Dwg Sheet P020
Thickness 150mm	MPa (at 28 days) 35MPa min.		Final	ISSUE CON B	JOB # PC11720
	MPa (at Lift) 20MPa		Special Additives	SCALE As indicated	Panel # Panel 020

Please note: All panels are drawn looking down on the trowel face, Unless noted otherwise.

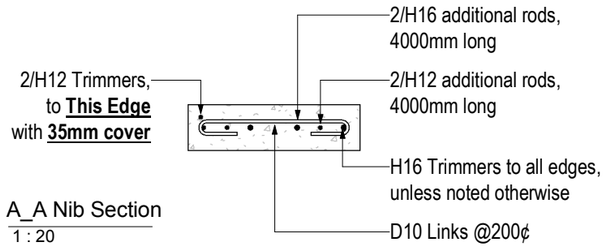
Paper size: A3



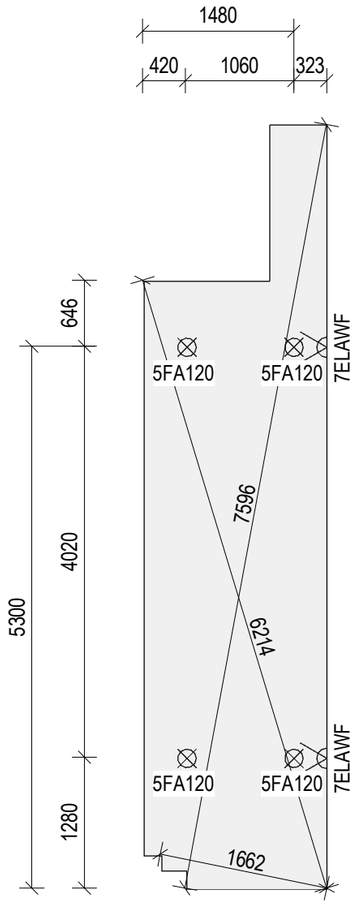
P021
1 : 50



1 P021 Section
1 : 50



A_A Nib Section
1 : 20



P021 Lifting Design
1 : 60

PRECAST PANEL FABRICATION DRAWINGS

THOMPSON PRECAST CONCRETE

148 Meadows Road, Washdyke
Office 03 6887534
Design Team 03 6887164

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2.The client shall verify all dimensions on site before commencing work
3.All concrete work shall comply with NZS3109
4. Cover to reinforcing is to be 50mm min or as shown.Tolerance ± 5mm

NZ Dairy Collaborative Group

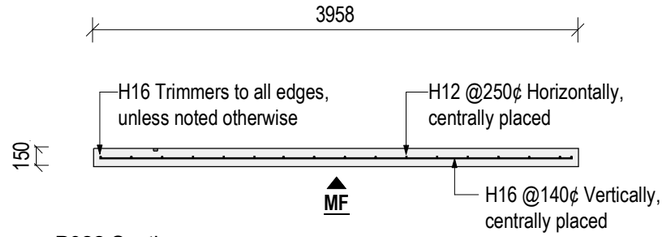
Tower

9 Ashford Ave, Ashburton

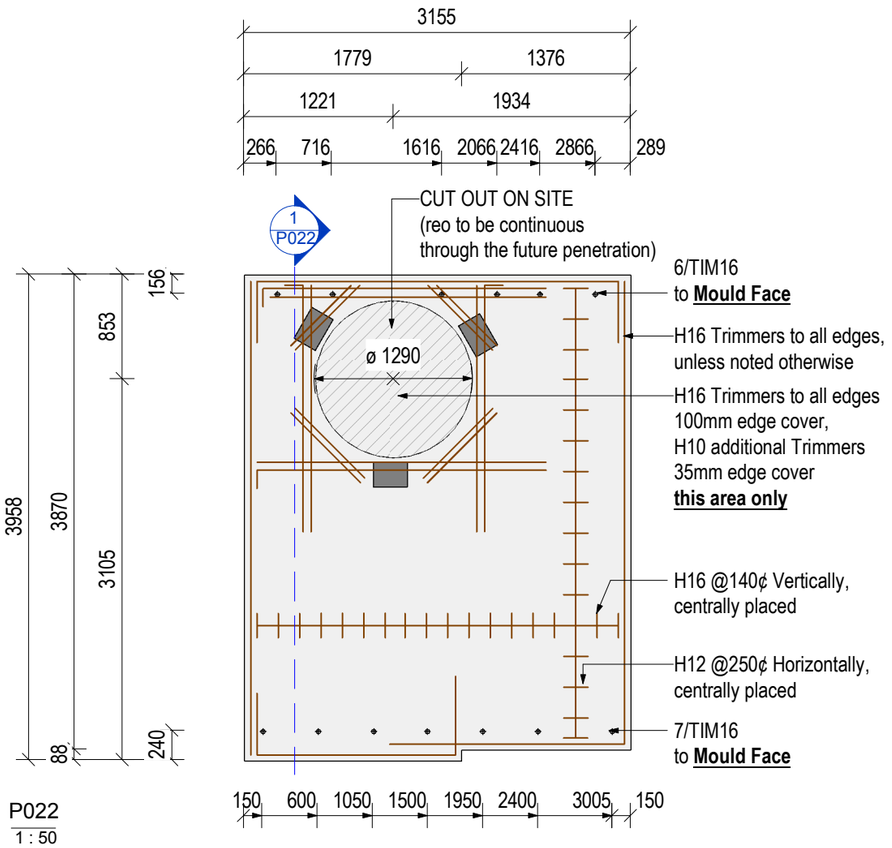
Panel Information				Approval and Date	Drawing Details	
Weight (t) 4.3	No req 1			Q A onsite	DRAWN BY T. Langr	DATE 02/12/16
Volume 1.72 m³	Finish			Operations	APPROVED BY DS, AC, CP, ML, JB, BH	Dwg Sheet P021
Thickness 150mm	MPa (at 28 days) 35MPa min.			Final	ISSUE CON B	JOB # PC11720
	MPa (at Lift) 20MPa			Special Additives	SCALE As indicated	Panel # Panel 021

Please note: All panels are drawn looking down on the trowel face, Unless noted otherwise.

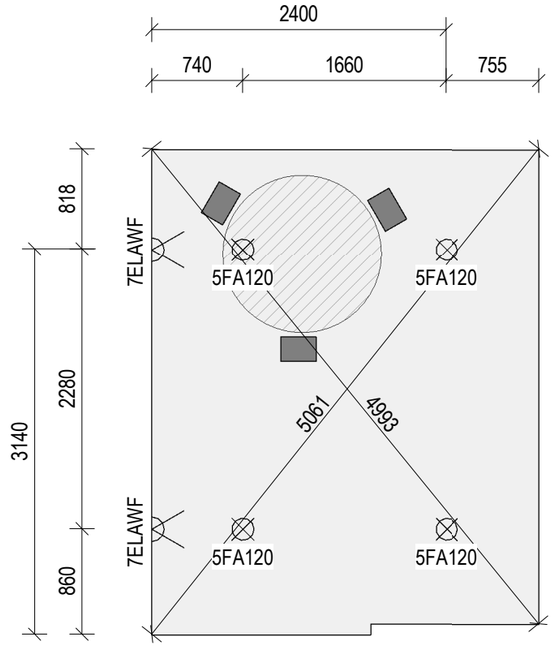
Paper size:A3



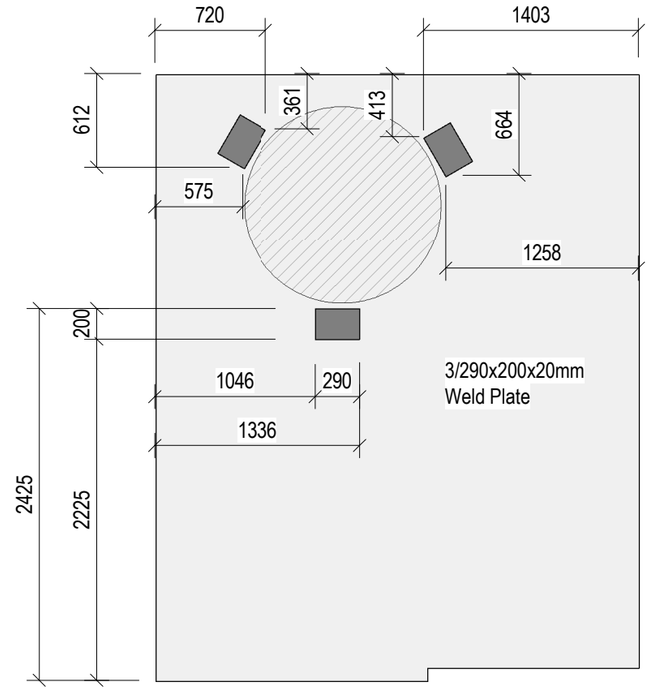
1 P022 Section
1 : 50



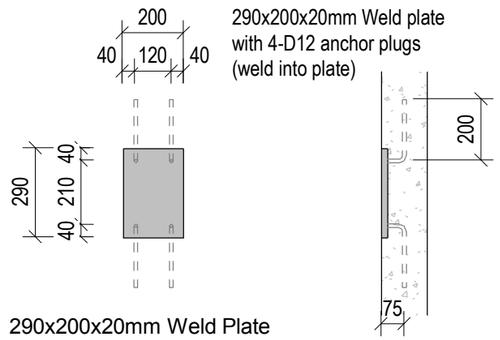
P022
1 : 50



P022 Lifting Design
1 : 50



P022 Weld Plates locations
1 : 40



290x200x20mm Weld Plate
1 : 20

PRECAST PANEL FABRICATION DRAWINGS

THOMPSON PRECAST CONCRETE
148 Meadows Road, Washdyke
Office 03 6887534
Design Team 03 6887164

1. All materials and workmanship to be in accordance with the NZ building code
2.The client shall verify all dimensions on site before commencing work
3.All concrete work shall comply with NZS3109
4. Cover to reinforcing is to be 50mm min or as shown.Tolerance ± 5mm

NZ Dairy Collaborative Group

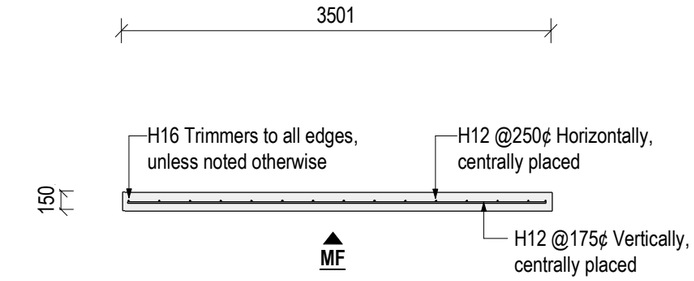
Tower

9 Ashford Ave, Ashburton

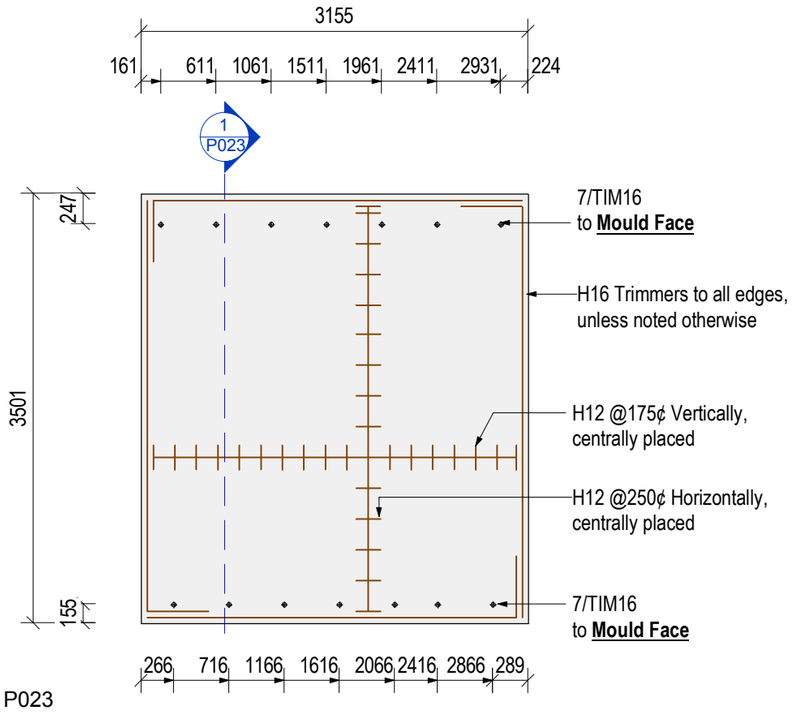
Panel Information				Approval and Date	Drawing Details	
Weight (t) 4.63	No req 1			Q A onsite	DRAWN BY T. Langr	DATE 02/12/16
Volume 1.85 m³	Finish			Operations	APPROVED BY DS, AC, CP, ML, JB, BH	Dwg Sheet P022
Thickness 150mm	MPa (at 28 days) 35MPa min.			Final	ISSUE CON B	JOB # PC11720
	MPa (at Lift) 15MPa			Special Additives	SCALE As indicated	Panel # Panel 022

Please note: All panels are drawn looking down on the trowel face, Unless noted otherwise.

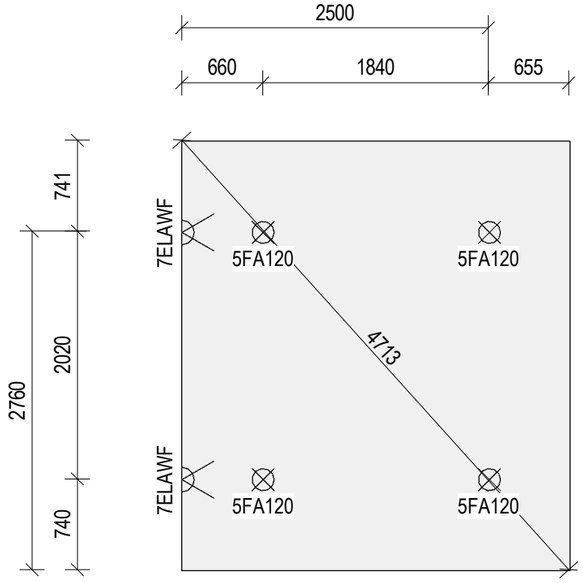
Paper size:A3



1 P023 Section
1 : 50



P023
1 : 50



P023 Lifting Design
1 : 50

PRECAST PANEL FABRICATION DRAWINGS

THOMPSON PRECAST CONCRETE

148 Meadows Road, Washdyke
Office 03 6887534
Design Team 03 6887164

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2.The client shall verify all dimensions on site before commencing work
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4. Cover to reinforcing is to be 50mm min or as shown.Tolerance ± 5mm

NZ Dairy Collaborative Group

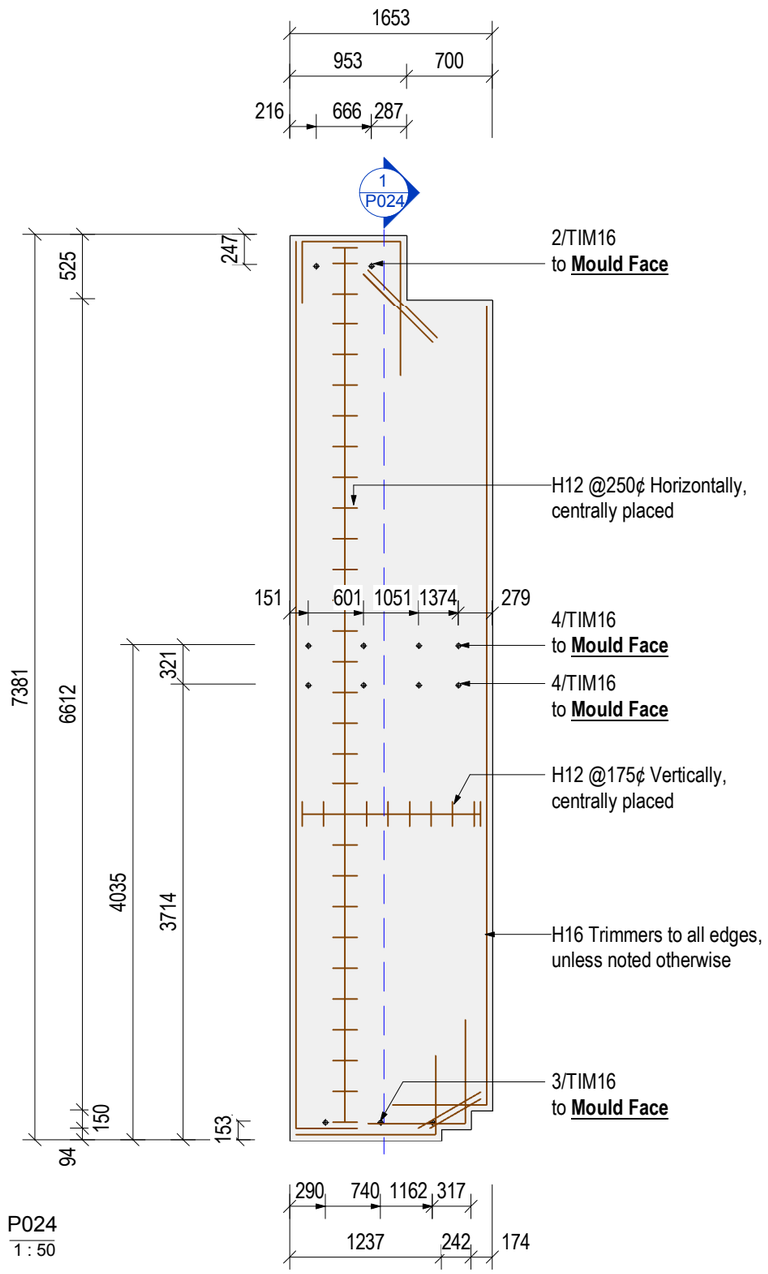
Tower

9 Ashford Ave, Ashburton

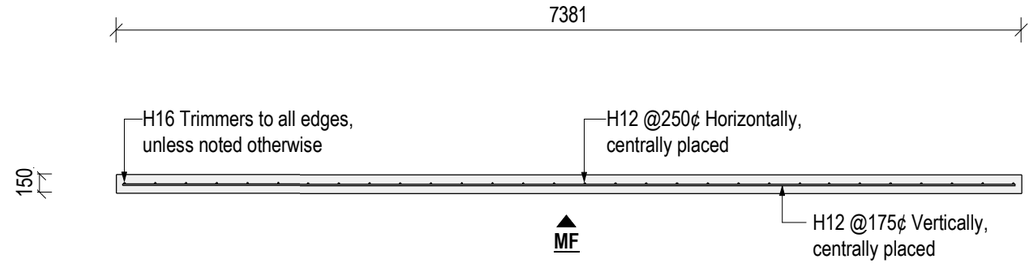
Panel Information			Approval and Date	Drawing Details	
Weight (t) 4.14	No req 1		Q A onsite	DRAWN BY T. Langr	DATE 02/12/16
Volume 1.66 m³	Finish		Operations	APPROVED BY DS, AC, CP, ML, JB, BH	Dwg Sheet P023
Thickness 150mm	MPa (at 28 days) 35MPa min.		Final	ISSUE CON B	JOB # PC11720
	MPa (at Lift) 15MPa		Special Additives	SCALE 1 : 50	Panel # Panel 023

Please note: All panels are drawn looking down on the trowel face, Unless noted otherwise.

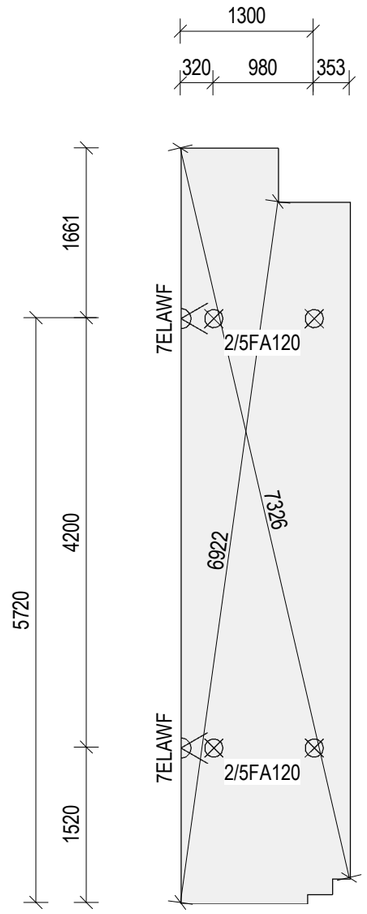
Paper size:A3



P024
1 : 50



1 P024 Section
1 : 50



P024 Lifting Design
1 : 60

PRECAST PANEL FABRICATION DRAWINGS

THOMPSON PRECAST CONCRETE

148 Meadows Road, Washdyke
Office 03 6887534
Design Team 03 6887164

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3.All concrete work shall comply with NZS3109
4. Cover to reinforcing is to be 50mm min or as shown.Tolerance ± 5mm

NZ Dairy Collaborative Group

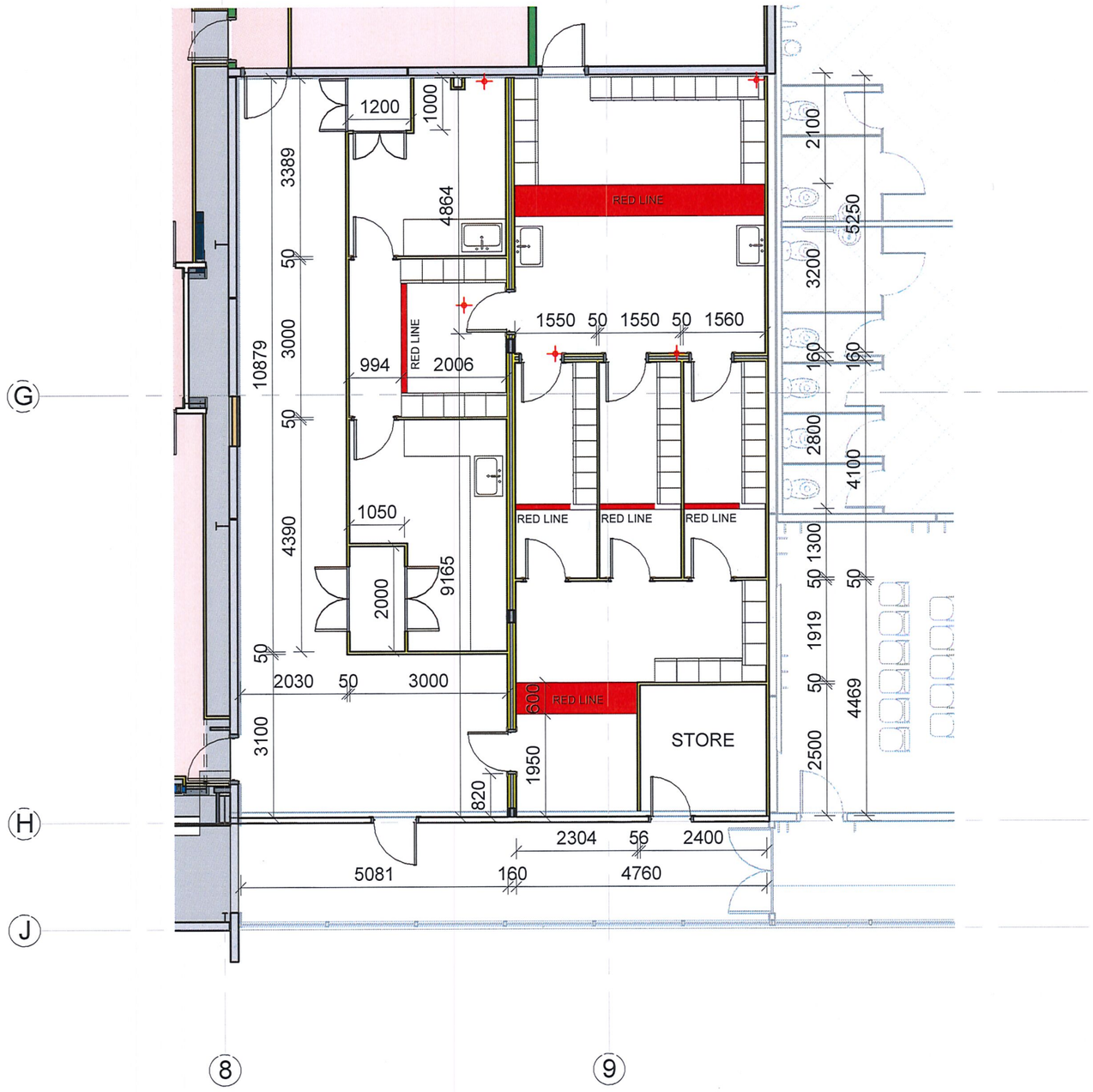
Tower

9 Ashford Ave, Ashburton

Panel Information			Approval and Date	Drawing Details	
Weight (t) 4.41	No req 1		Q A onsite	DRAWN BY T. Langr	DATE 02/12/16
Volume 1.76 m³	Finish		Operations	APPROVED BY DS, AC, CP, ML, JB, BH	Dwg Sheet P024
Thickness 150mm	MPa (at 28 days) 35MPa min.		Final	ISSUE CON B	JOB # PC11720
	MPa (at Lift) 15MPa		Special Additives	SCALE As indicated	Panel # Panel 024

Please note: All panels are drawn looking down on the trowel face, Unless noted otherwise.

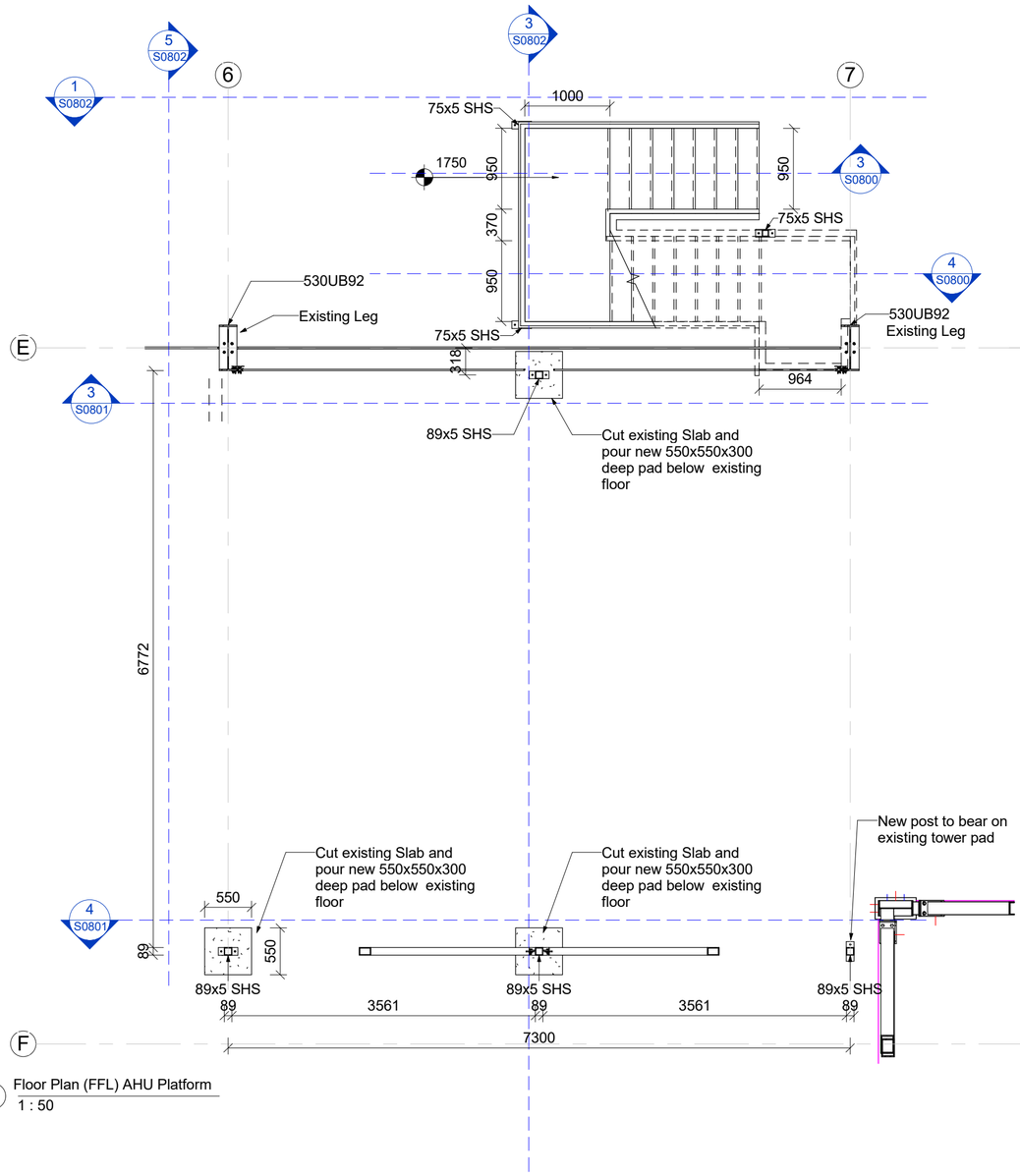
Paper size:A3



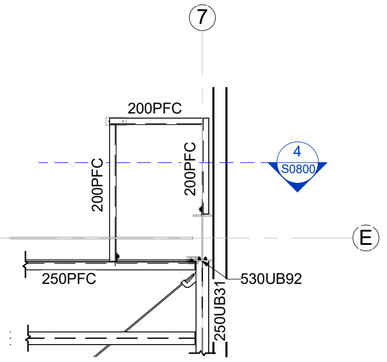
Red Line Setout
1 : 100

Red Line Setout	SCALE 1 : 100	JOB # 12630	PROJECT NZ Dairy Collaborative Group Tower Extension 9 Ashford Ave, Ashburton
DWG NO A1304	DRAWN BY D. Shand	DATE 06/09/17	
	CHECKED BY		
	Please note: All dimensions to be verified on si	Paper size: A3	

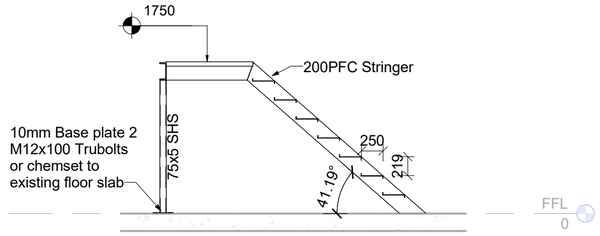
THOMPSON
CONSTRUCTION & ENGINEERING
Thompson Engineering 2002 Ltd
PO Box 2081, Washdyke - Timaru | 9b Meadows Road - Timaru
PH 0800 688 716 | F (03) 688 7168
www.thompsonengineering.co.nz | Design@thompsonengineering.co.nz



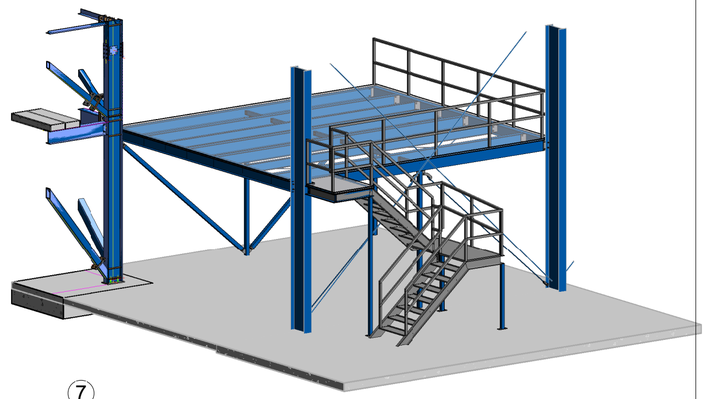
1 Floor Plan (FFL) AHU Platform
1 : 50

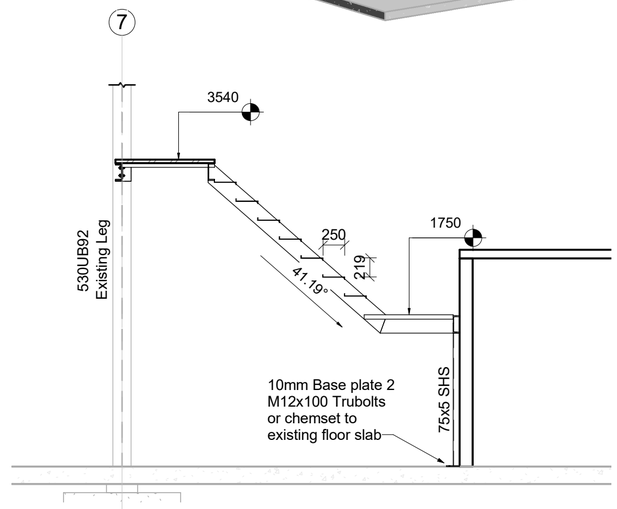


2 AHU Platform Stair landing
1 : 50



3 AHU lower stair
1 : 50





4 AHU Upper stair
1 : 50

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PROJECT

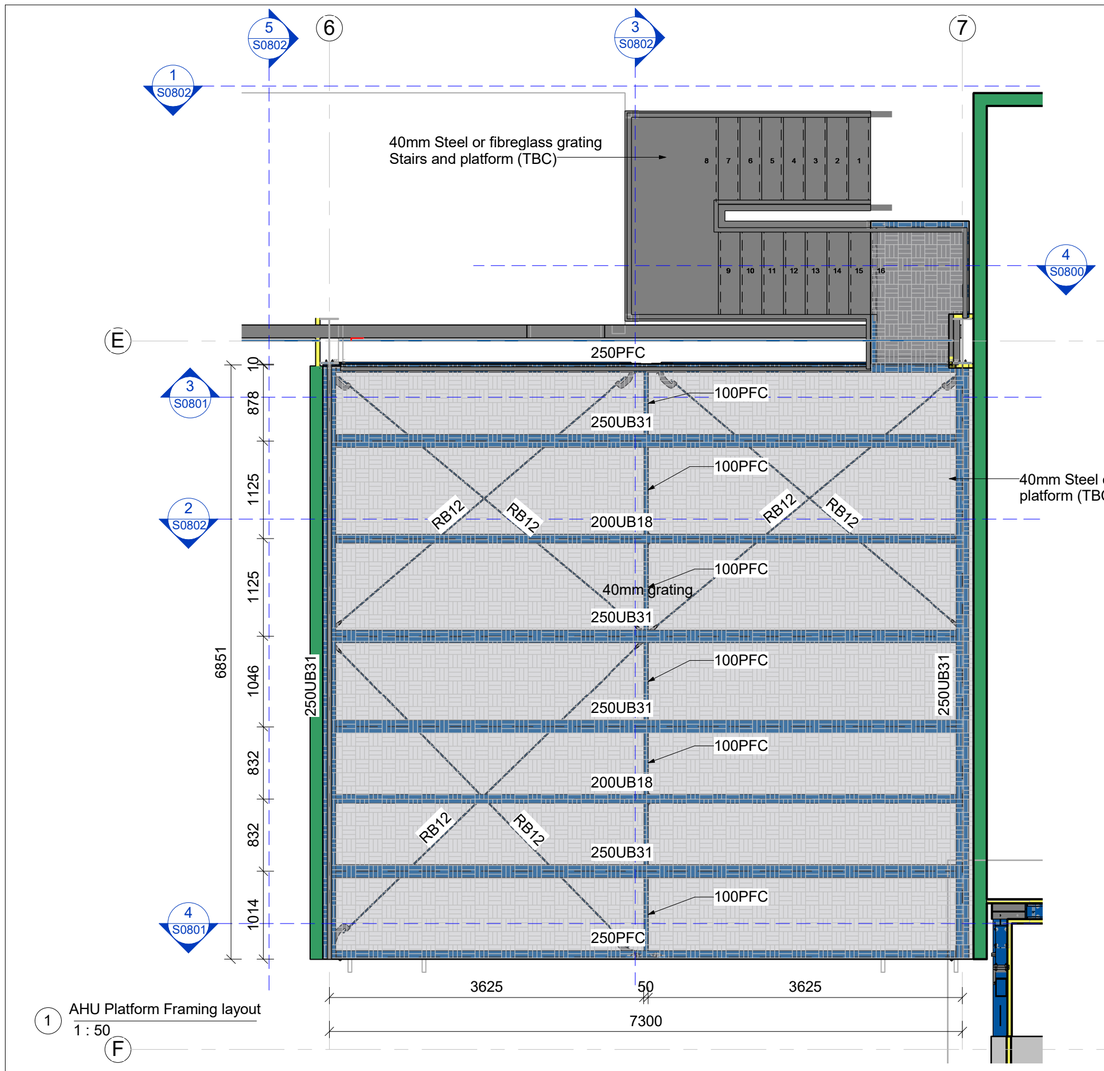
NZ Dairy Collaborative Group
Tower Extension

9 Ashford Ave, Ashburton

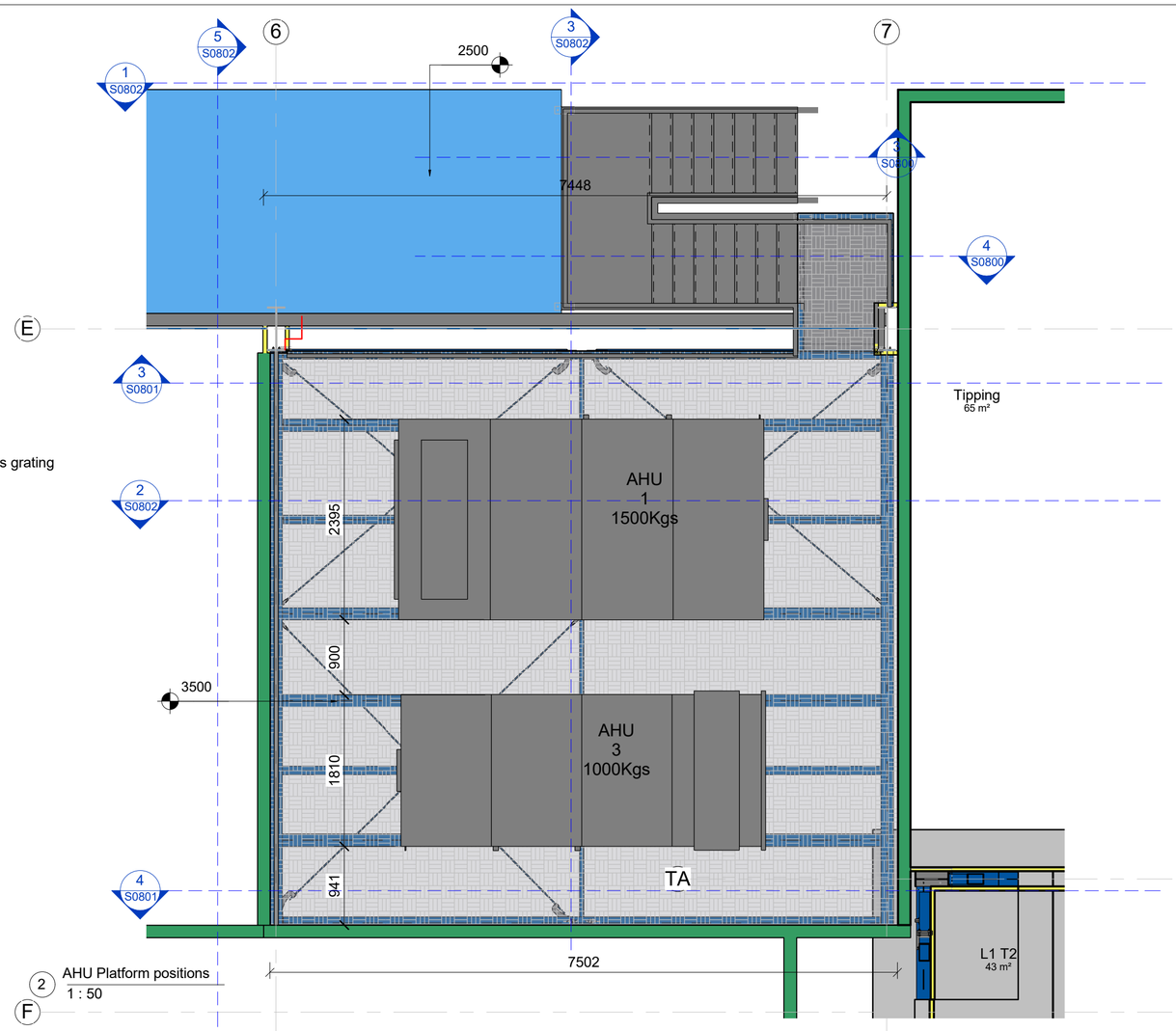
Preliminary
Subject to Structural Engineering

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

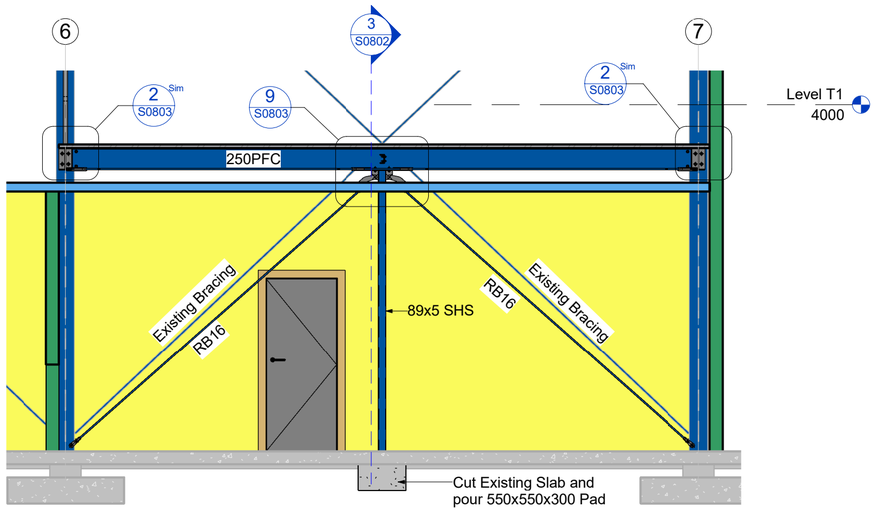
SCALE	1 : 50 @ A2	JOB #	12630
DRAWN BY	C. White	DATE	27/10/16
CHECKED BY	Checker	REV	5
AHU Floor plan and stairs			**S0800**
Please note: All dimensions to be verified on site		Paper size:	**A2**



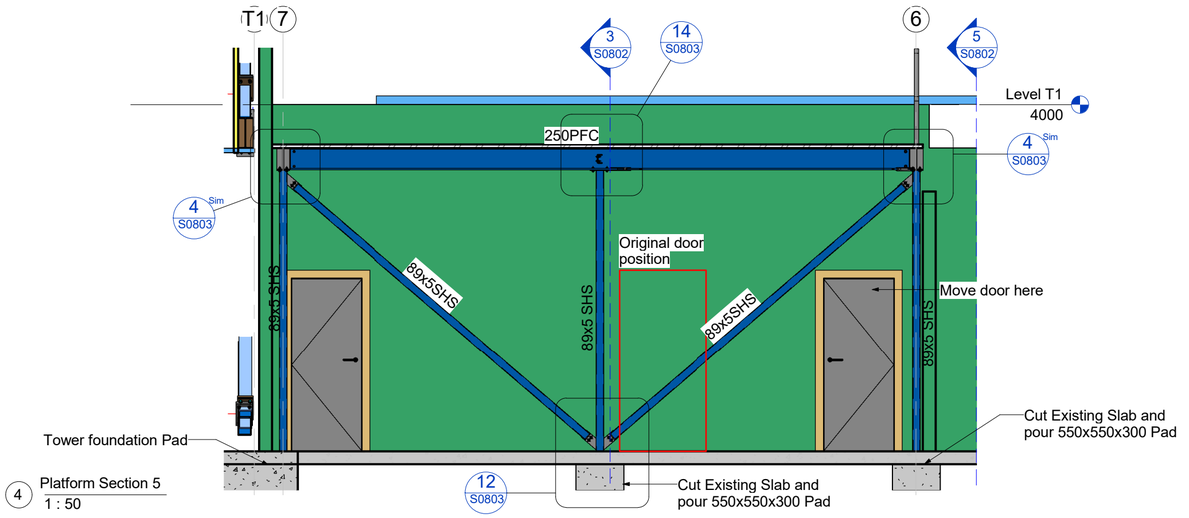
1 AHU Platform Framing layout
1 : 50



2 AHU Platform positions
1 : 50



3 Platform Section 6
1 : 50



4 Platform Section 5
1 : 50

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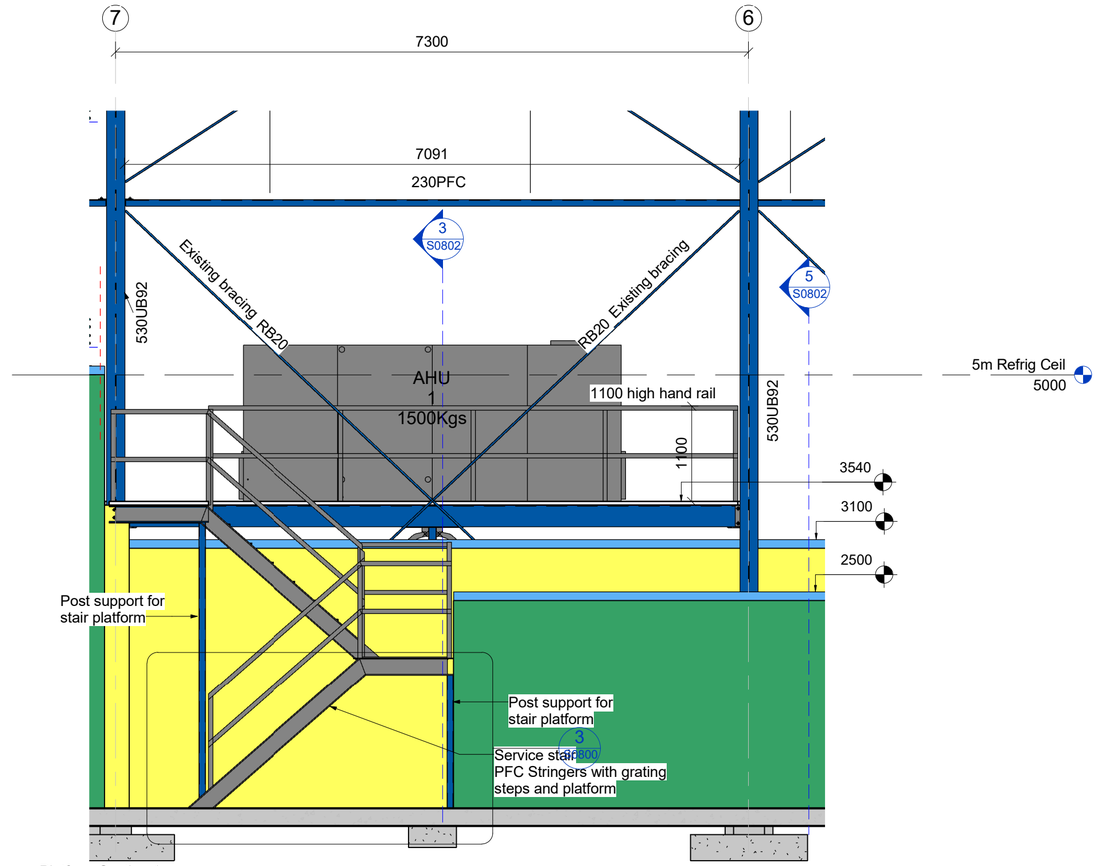
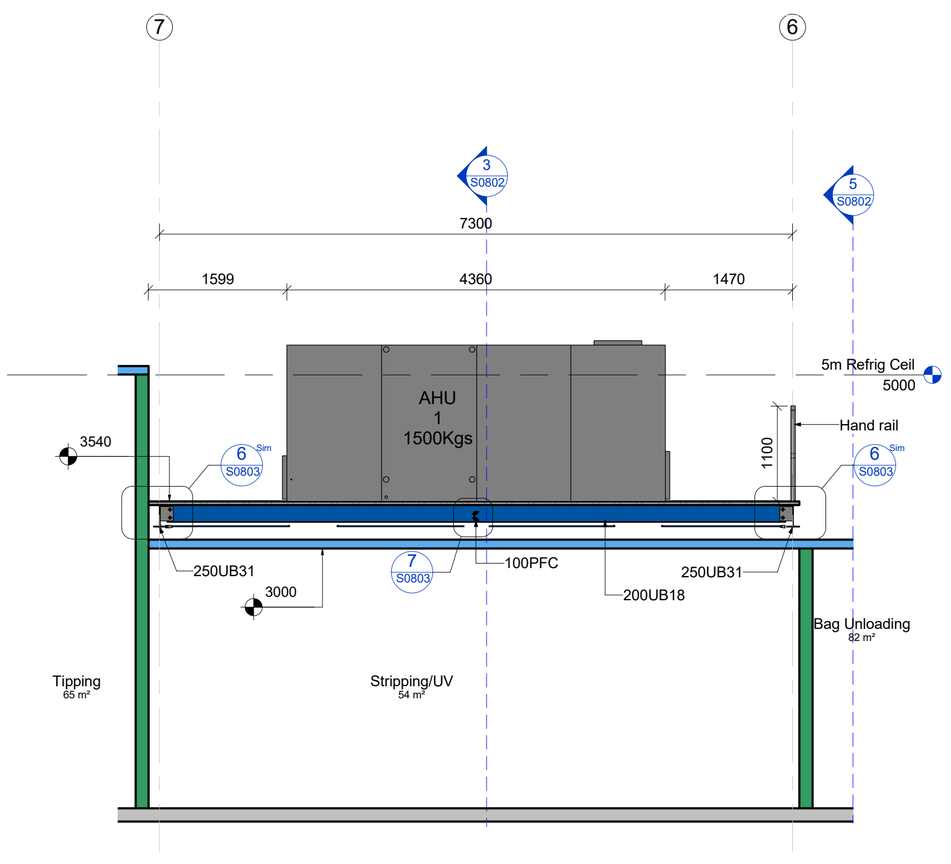
Rev#	Amendments	Date
5	AHU Platform and Stairs	20/03/16

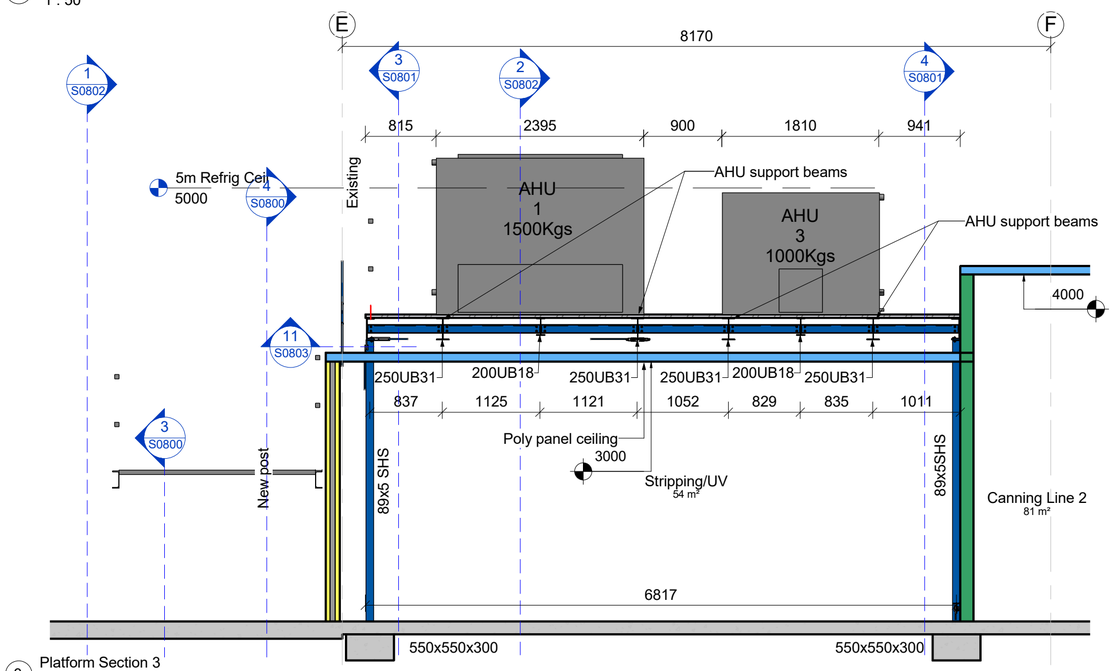
SCALE	1 : 50 @ A2	JOB #	12630
DRAWN BY	C. White	DATE	27/10/16
CHECKED BY	For Review	REV	5
AHU Platform		S0801	
Please note: All dimensions to be verified on site		Paper size: A2	



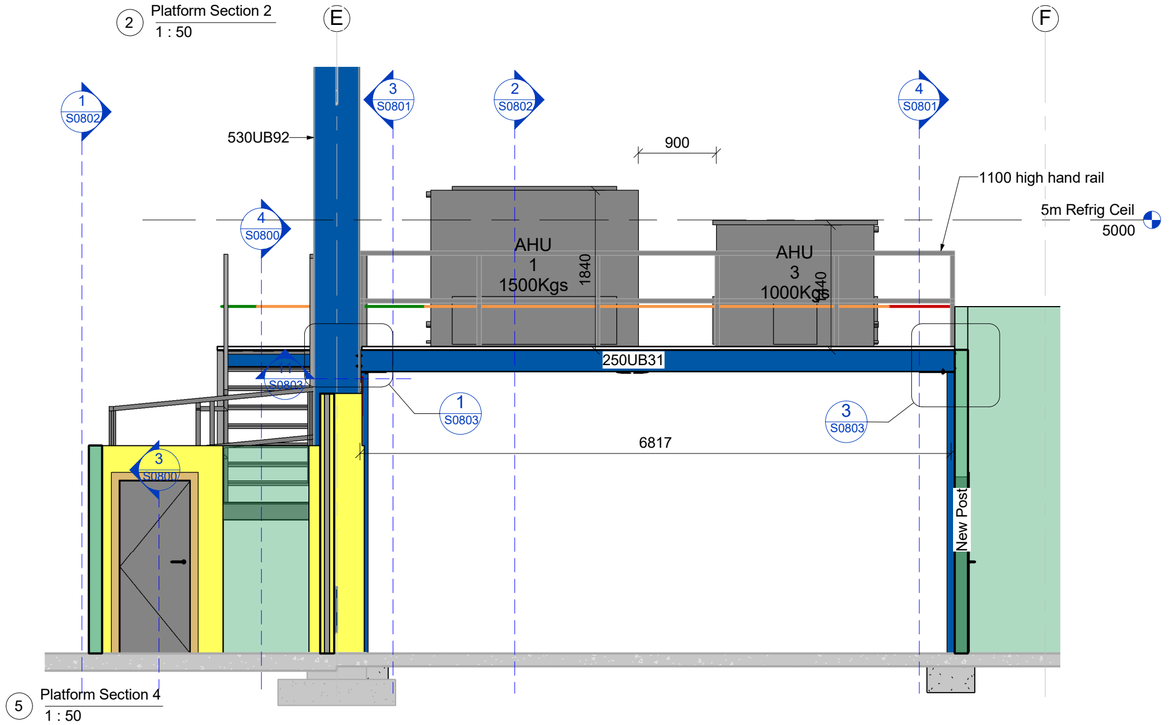
1 Platform Section 1
1 : 50



2 Platform Section 2
1 : 50



3 Platform Section 3
1 : 50



5 Platform Section 4
1 : 50

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NZ Dairy Collaborative Group
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9 Ashford Ave, Ashburton

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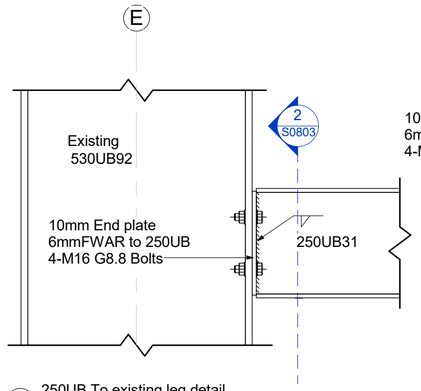
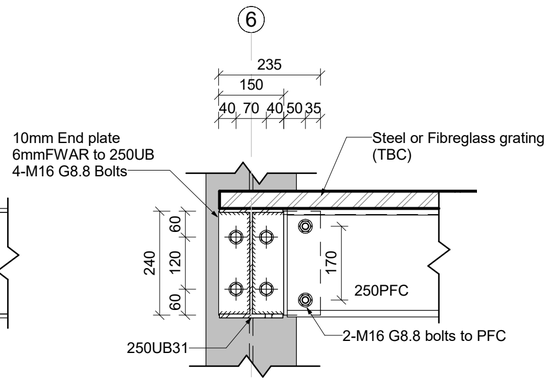
Rev#	Amendments	Date
5	AHU Platform and Stairs	20/03/16

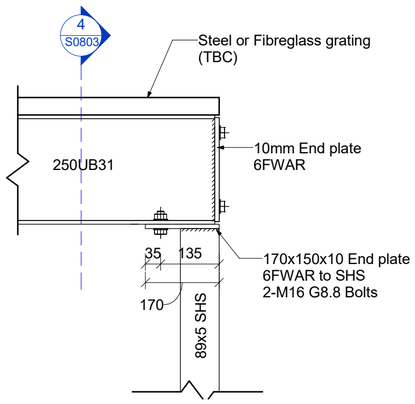
SCALE	1 : 50 @ A2	JOB #	12630
DRAWN BY	C. White	DATE	27/10/16
CHECKED BY	For Review	REV	5
AHU Platform Sections			**S0802**
Please note: All dimensions to be verified on site		Paper size:	**A2**



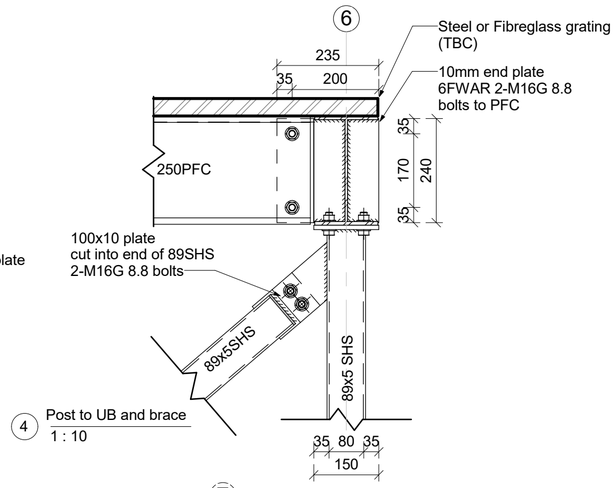
1 250UB To existing leg detail
1 : 10



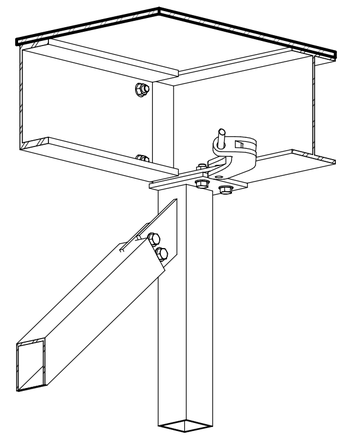
2 PFC to UB Connection
1 : 10

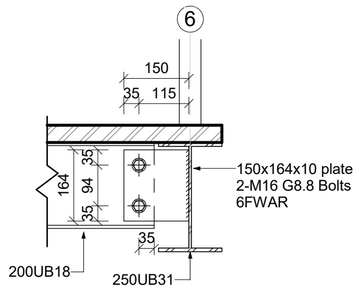


3 Post to 250UB detail
1 : 10

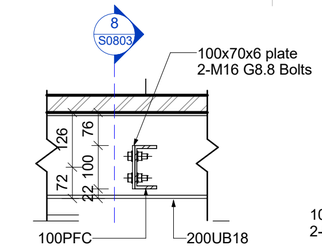


4 Post to UB and brace
1 : 10

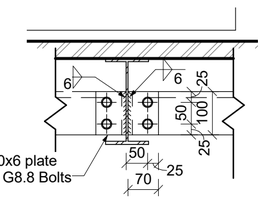




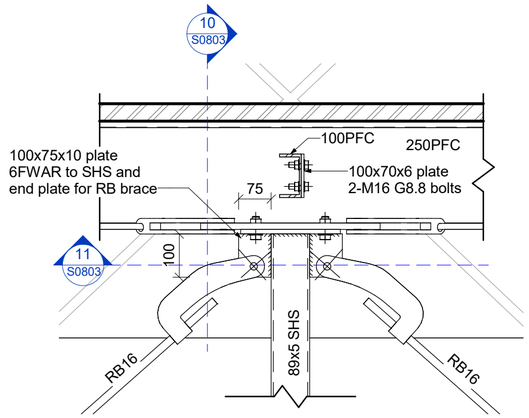
6 Typ.250-200UB Share plate connection
1 : 10



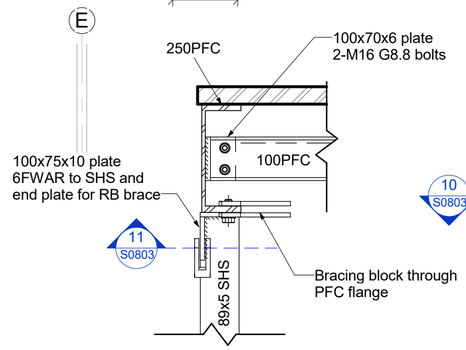
7 100PFC brace connection
1 : 10



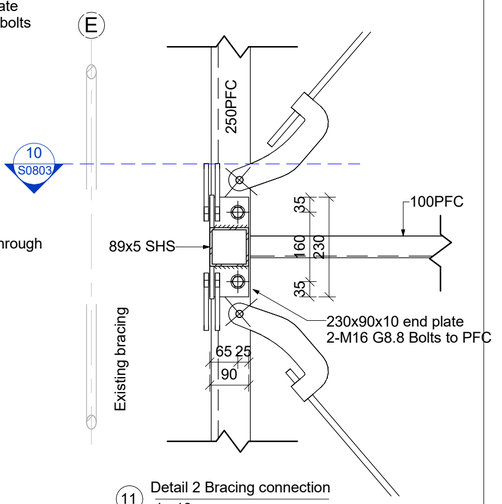
8 100PFC Brace connection detail
1 : 10



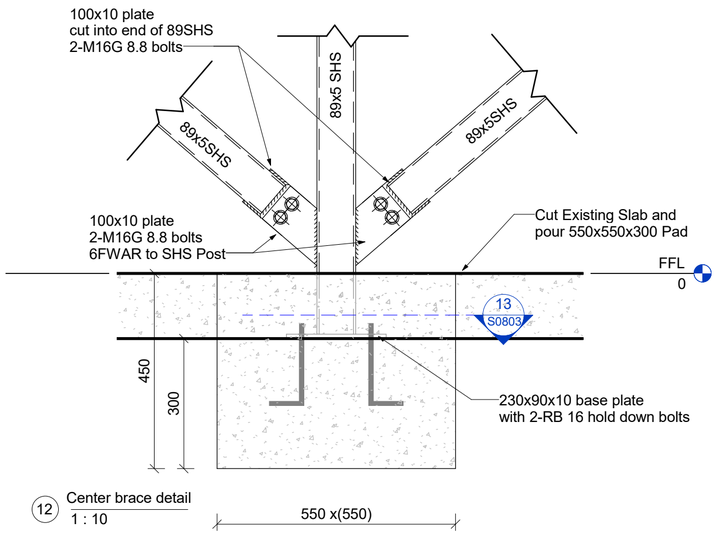
9 GL E Bracing connection
1 : 10



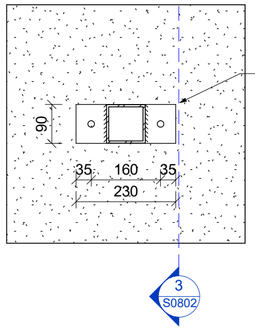
10 Detail Bracing connection
1 : 10



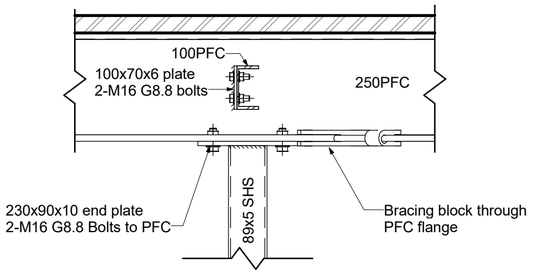
11 Detail 2 Bracing connection
1 : 10



12 Center brace detail
1 : 10



13 89SHS Base plate
1 : 10



14 89SHS End plate
1 : 10

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PROJECT

NZ Dairy Collaborative Group
Tower Extension

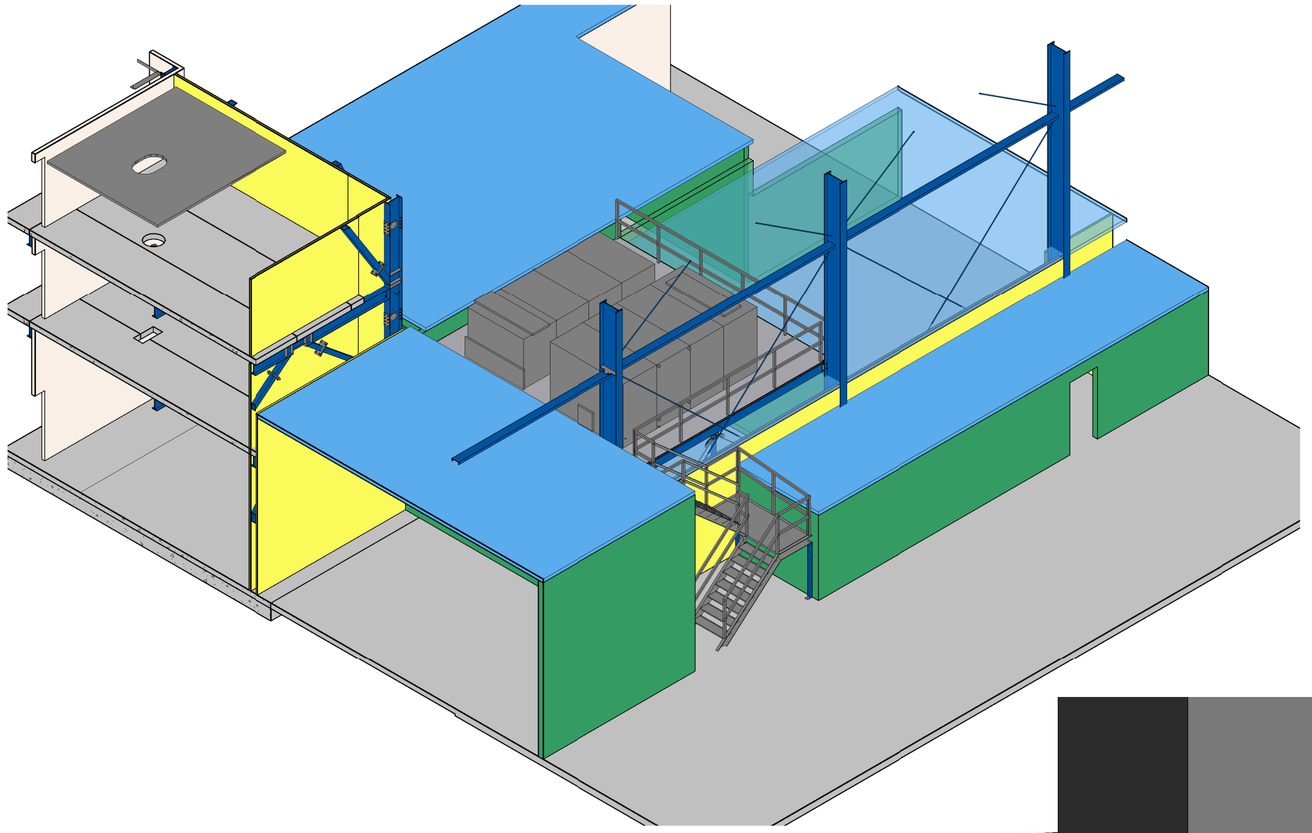
9 Ashford Ave, Ashburton

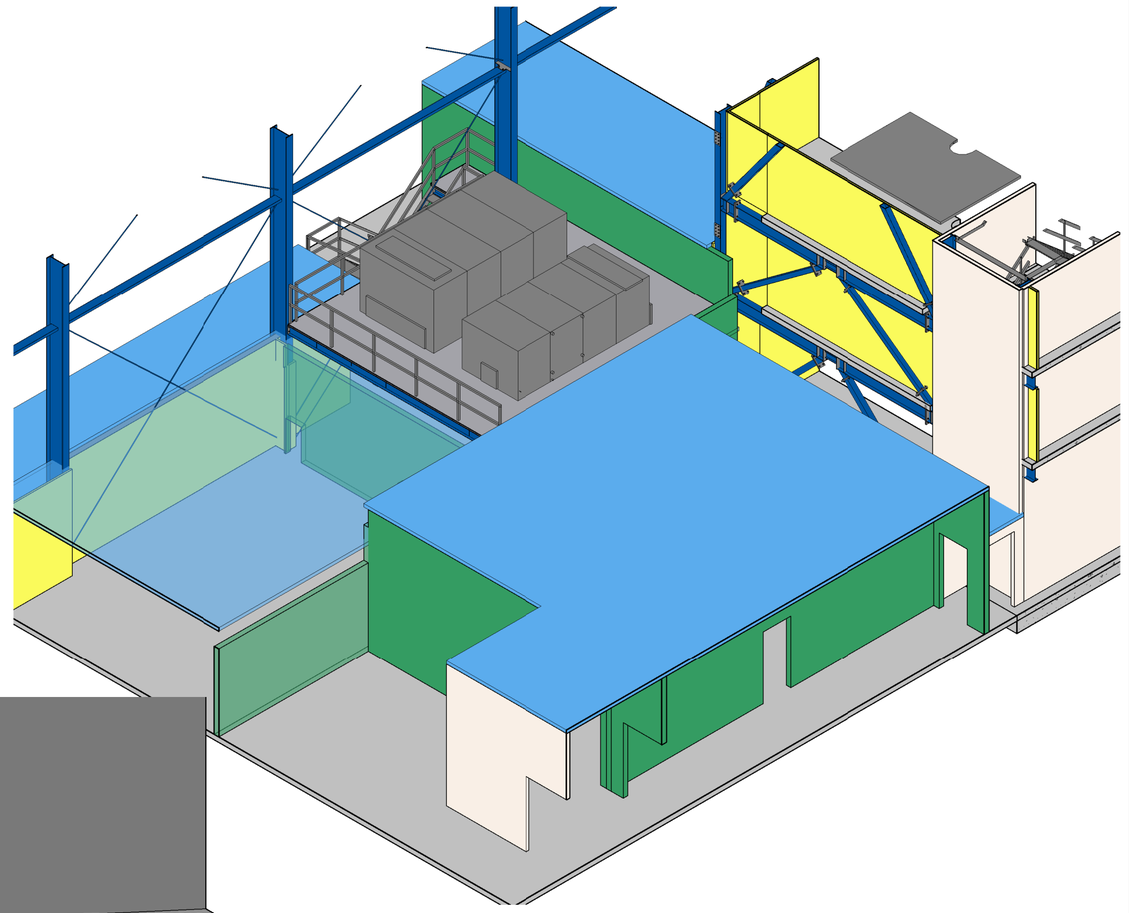
Preliminary
Subject to Structural Engineering

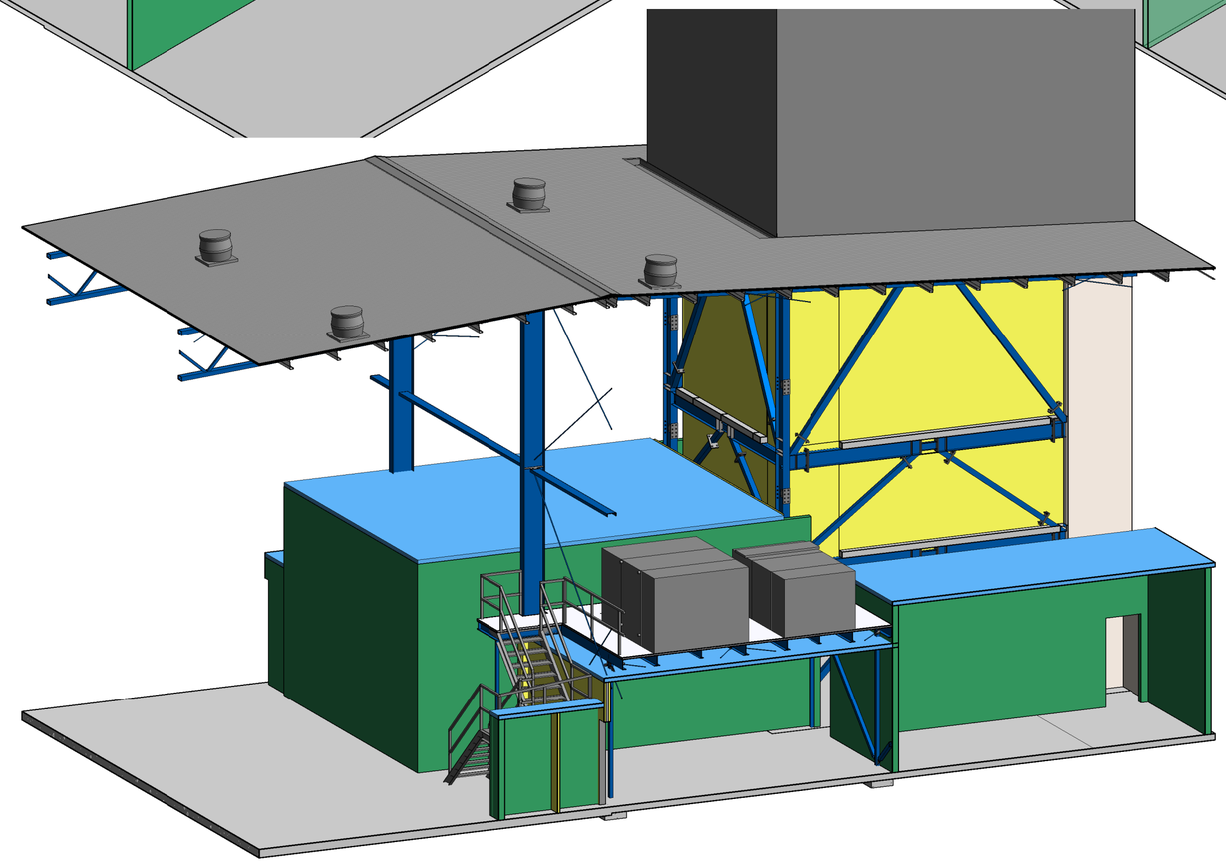
Rev#	Amendments	Date
5	AHU Platform and Stairs	20/03/16

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

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

Preliminary
Subject to Structural Engineering

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	For Review	REV	5
AHU 3D		S0804	
Please note: All dimensions to be verified on site		Paper size: A2	

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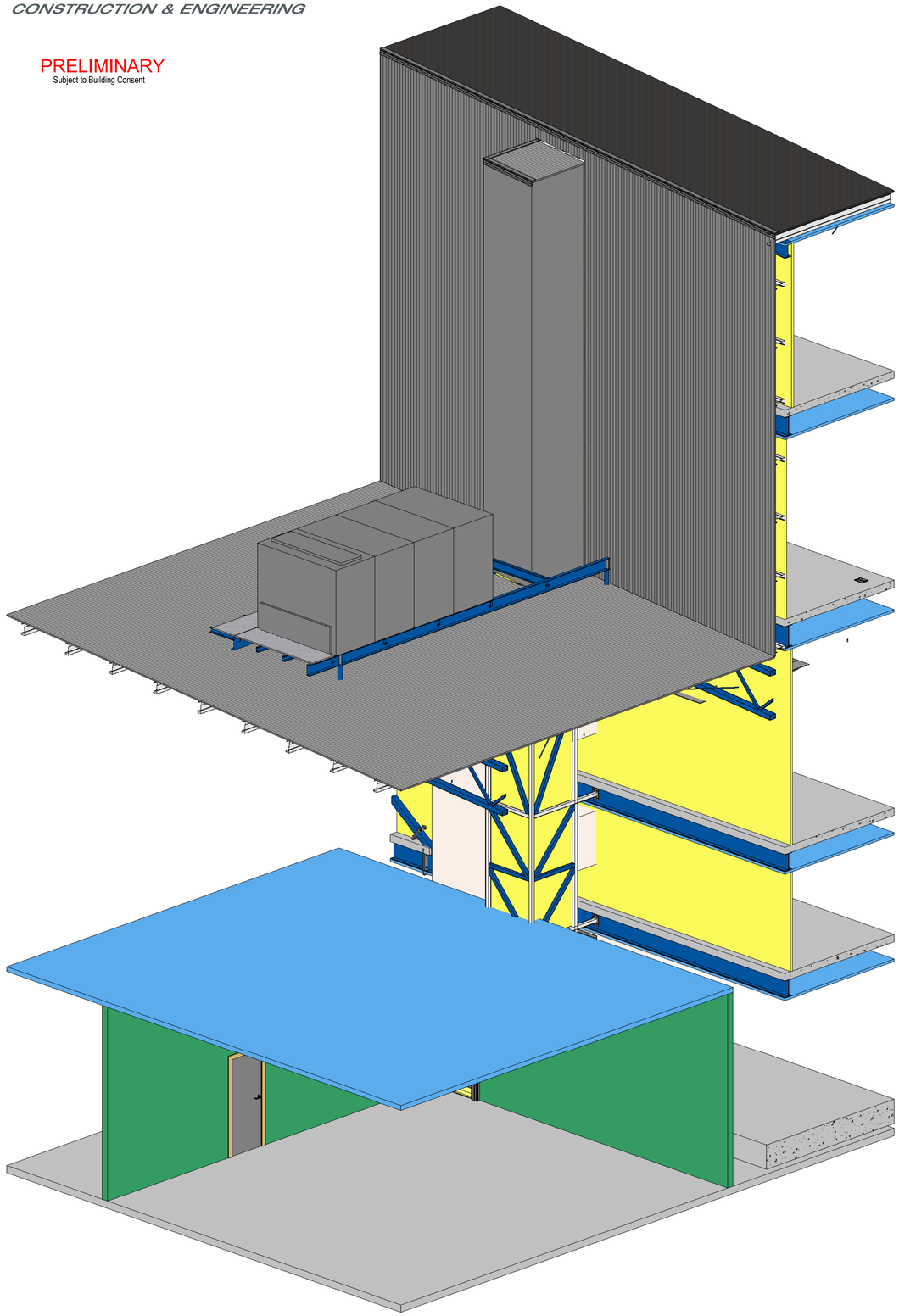
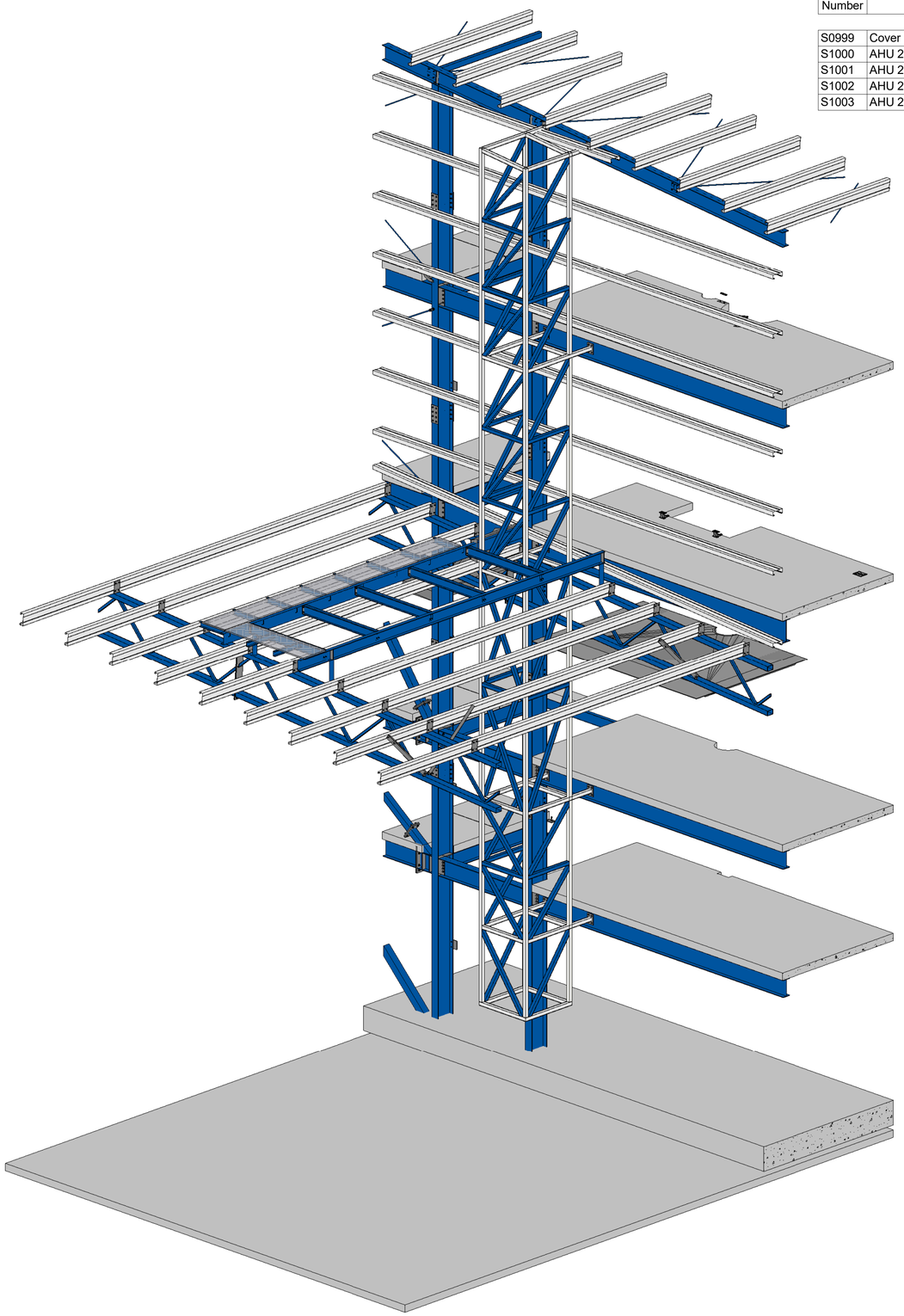
PRELIMINARY
Subject to Building Consent



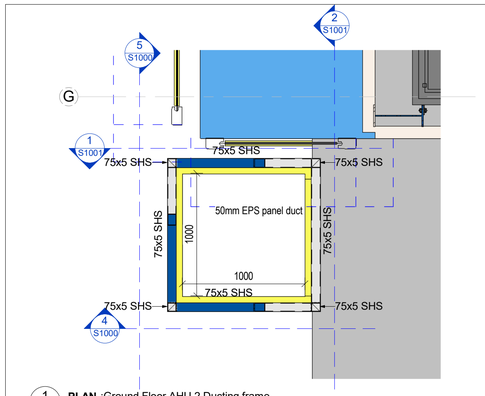


AHU-2 Sheet List

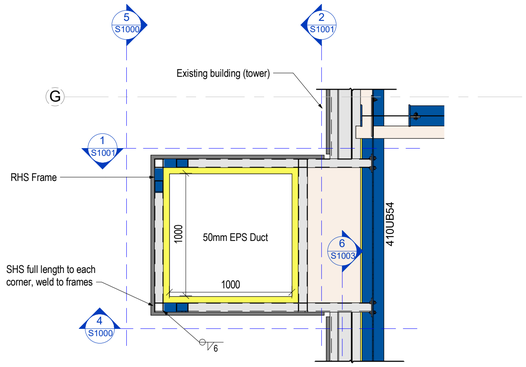
Sheet Number	Sheet Name	Current Revision	Current Revision Date
S0999	Cover	16	10/05/17
S1000	AHU 2 Ducting Frame	16	10/05/17
S1001	AHU 2 Ducting Frame Details	16	10/05/17
S1002	AHU 2 Frame	16	10/05/17
S1003	AHU 2 Frame Details	16	10/05/17

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

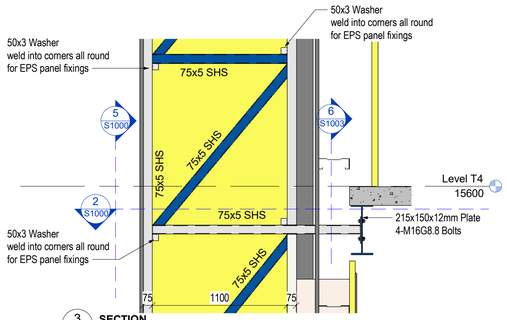
12412
23/05/2017



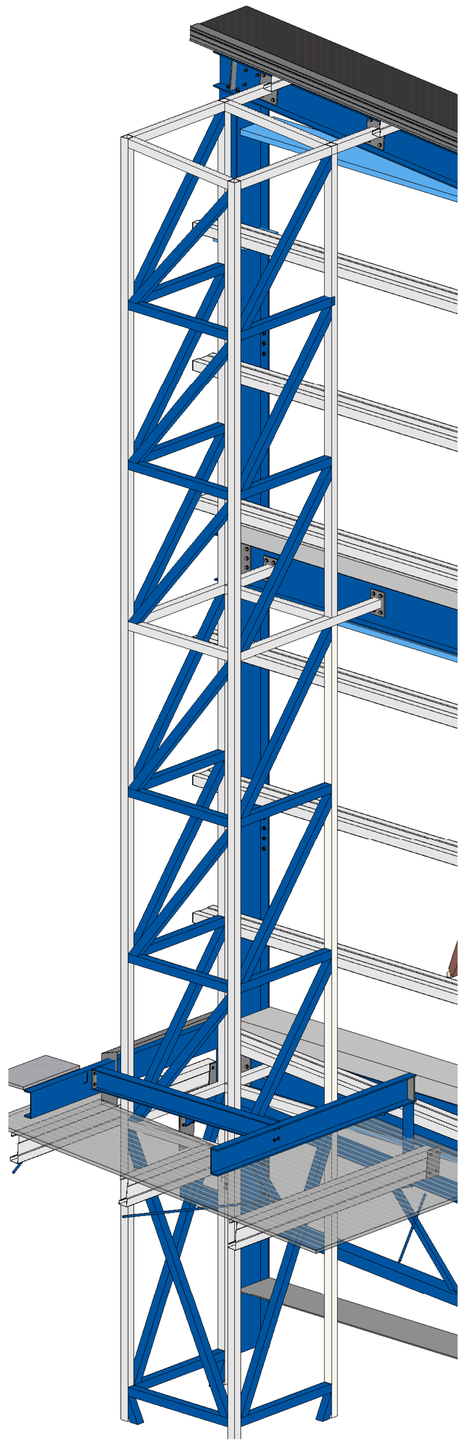
1 A0300 **PLAN** :Ground Floor AHU 2 Ducting frame
1 : 25

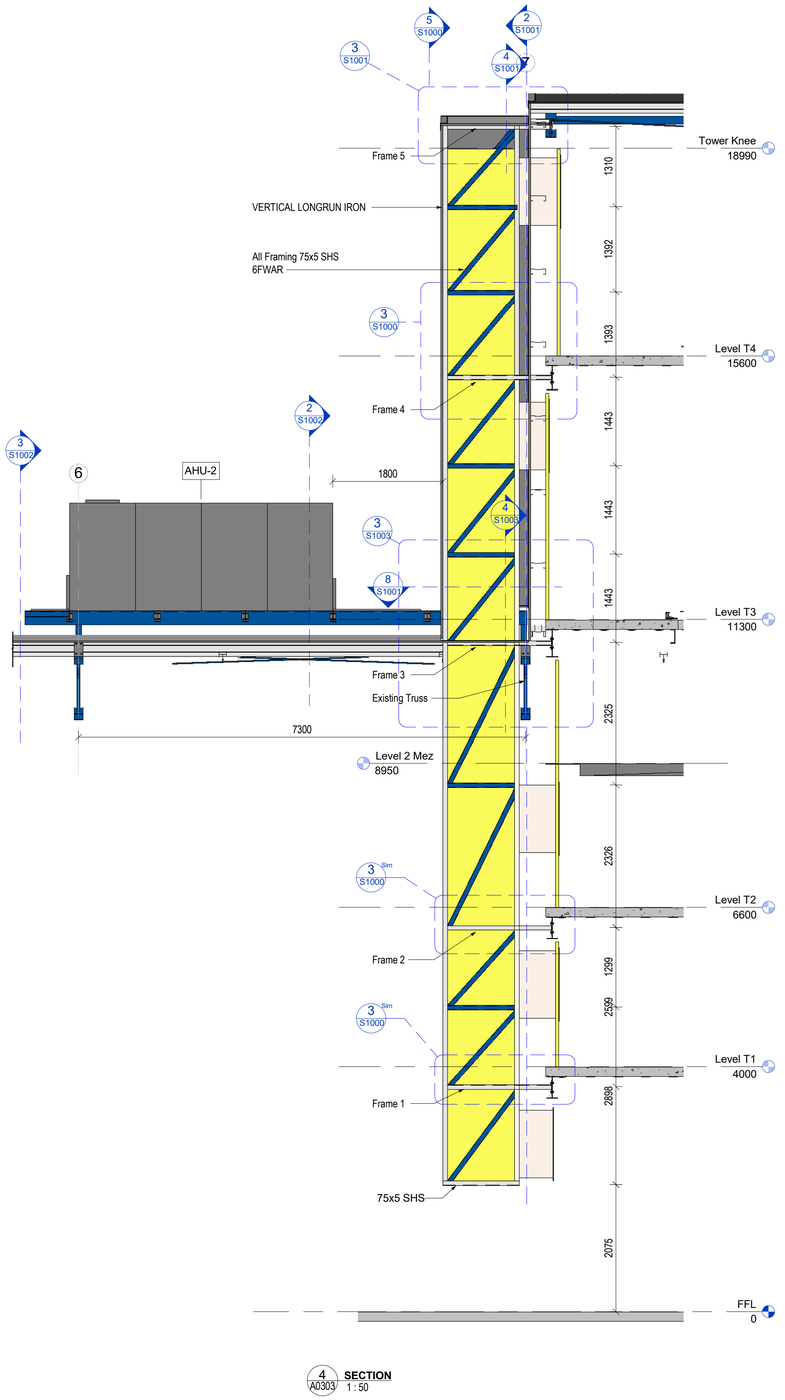


2 S1000 **SECTION** :T4
1 : 25

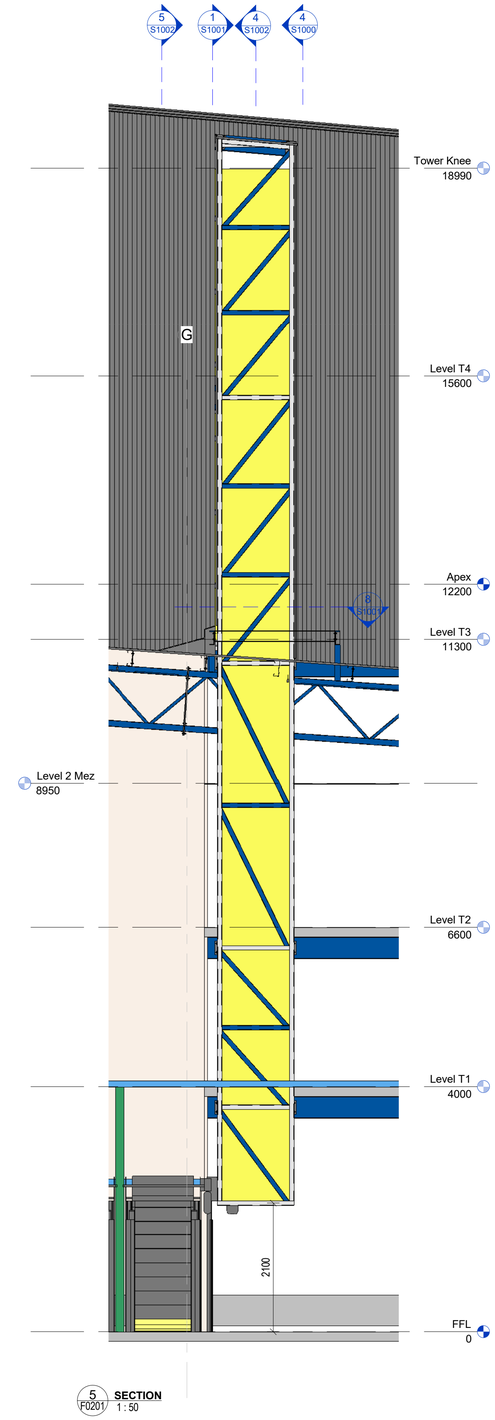


3 S1000 **SECTION**
1 : 25





4 A0303 **SECTION**
1 : 50



5 F0201 **SECTION**
1 : 50

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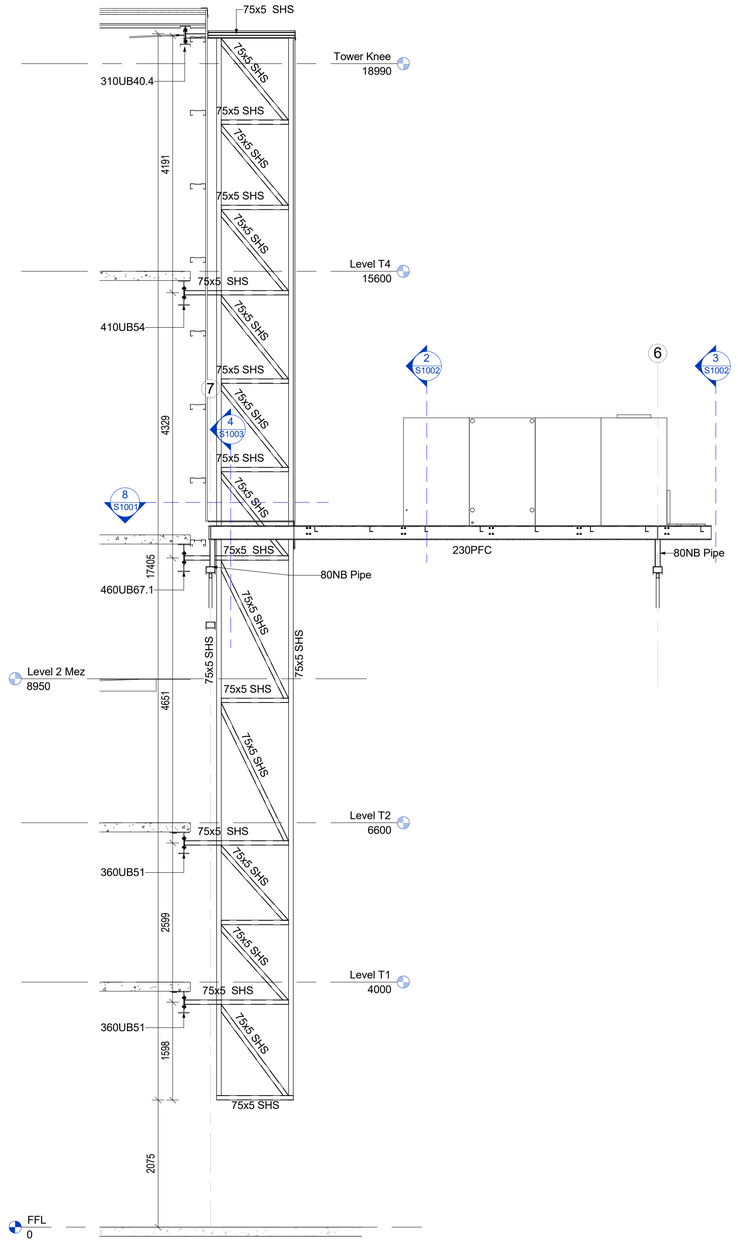
PROJECT

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

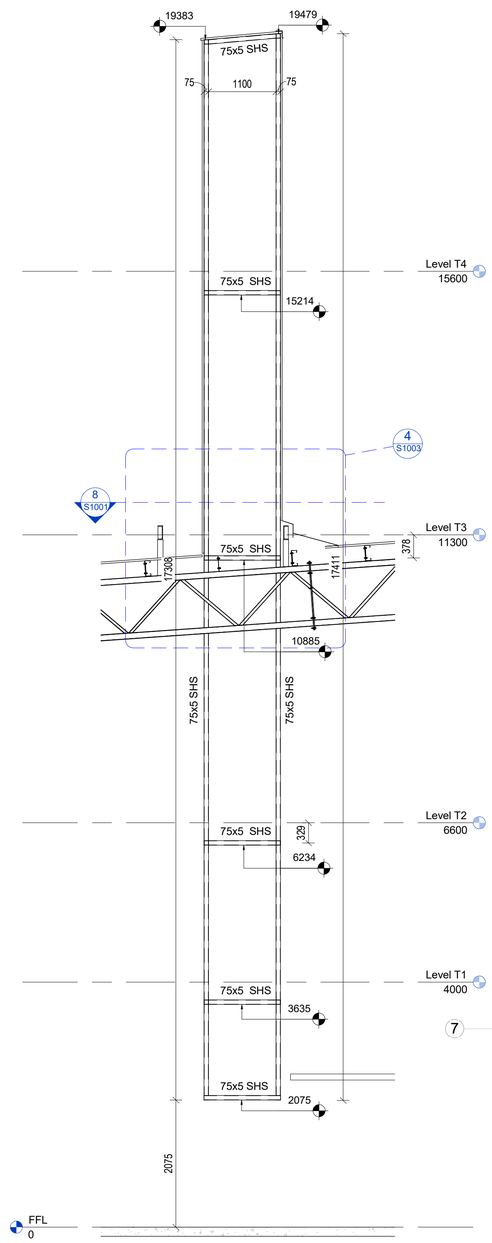
PRELIMINARY
Subject to Building Consent

Rev#	Ammendments	Date
16	AHU-2 platform and Ducting	10/05/17

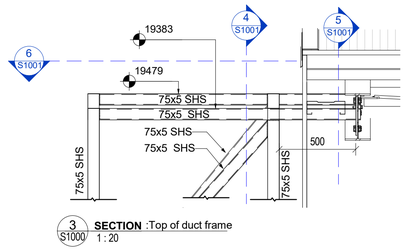
SCALE	As indicated	JOB #	12412
DRAWN BY	C. White	DATE	23/05/2017
CHECKED BY	R. Qadeer		16
AHU 2 Ducting Frame			S1000
Please note: All dimensions to be verified on site		Paper size	A1



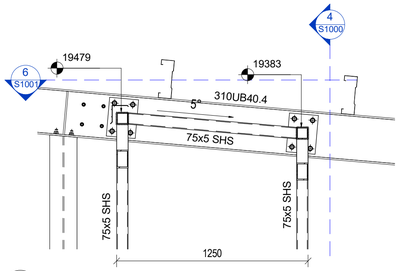
1 Duct fame side elevation
1 : 50



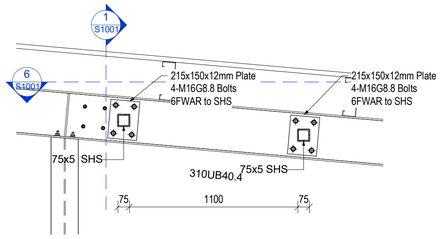
2 Duct frame Back Elevation
1 : 50



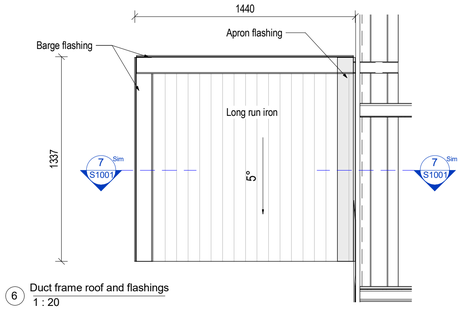
3 S1000 **SECTION** :Top of duct frame
1 : 20



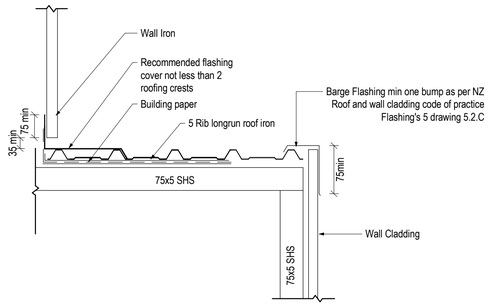
4 S1000 **DETAIL** :Top frame
1 : 20



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

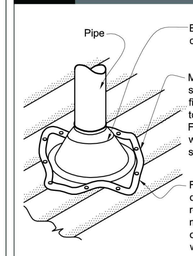


6 Duct frame roof and flashings
1 : 20

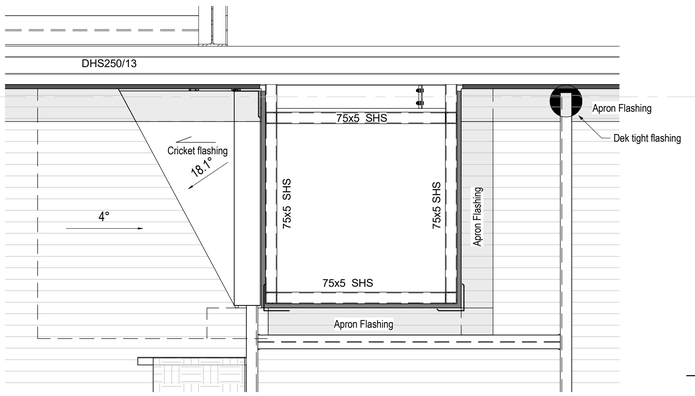


7 Barge and Apron Flashing Detail
1 : 10

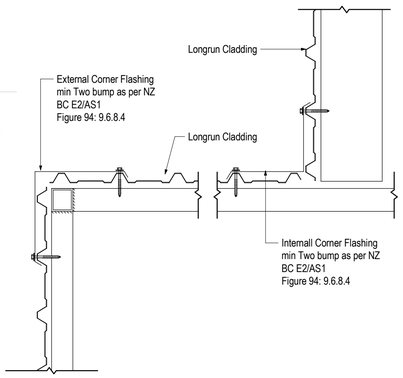
Figure 53: **Flashing for small pipes**
Paragraphs 8.3.10, 8.4.17, 9.6.8.5 and 9.6.9.6



NOTE:
(1) Max. roof pitch for this flashing 45°, minimum pitch 10° if base of flange covers one or more complete troughs.
(2) For pipes up to 85 mm diameter.



8 Duct Frame flashings
1 : 20



Corner Flashings for profiled metal
1 : 10

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PH 0800 688 716 F (03) 688 7168
www.thompsonengineering.co.nz Design@thompsonengineering.co.nz

PROJECT

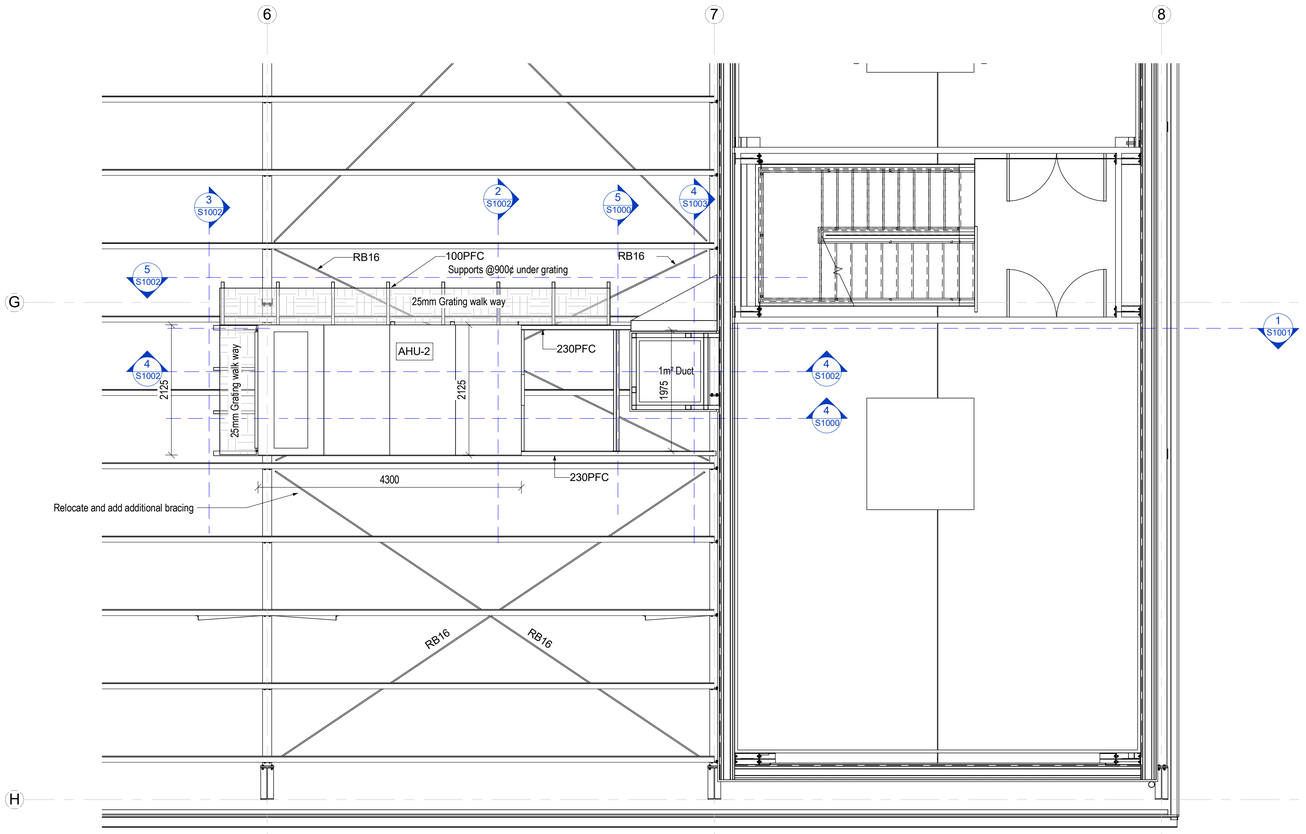
NZ Dairy Collaborative Group
Infant Formula Blending Plant
9 Ashford Ave., Ashburton

PRELIMINARY
Subject to Building Consent

Rev#	Ammendments	Date
16	AHU-2 platform and Ducting	10/05/17

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

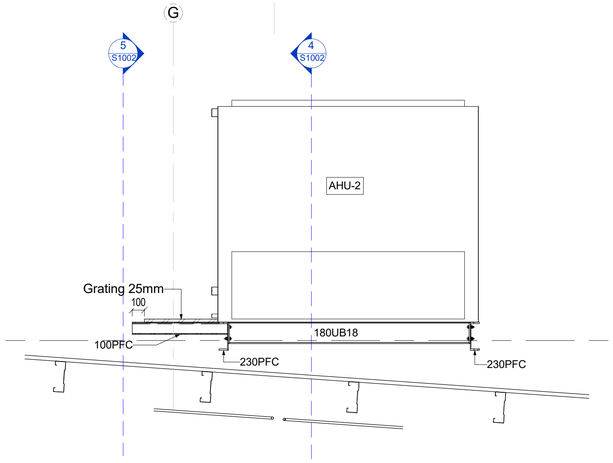
Please note: All dimensions to be verified on site — Paper size A1



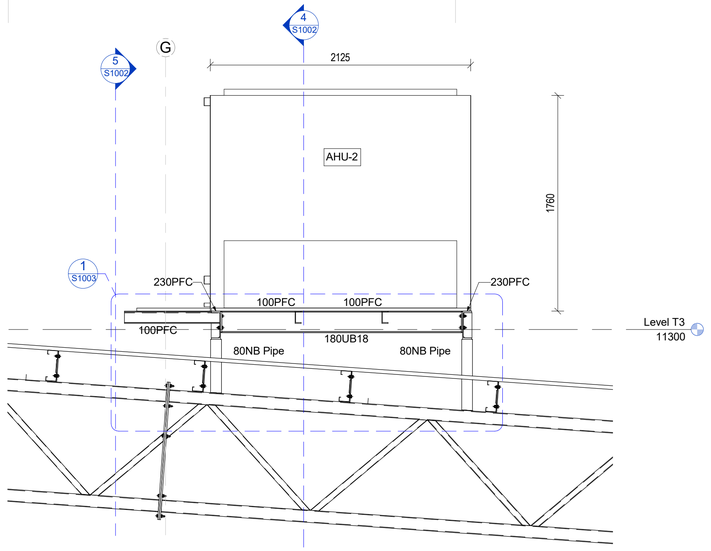
1 Roof Plan AHU 2
1 : 50

4 A0303 **SECTION**
1 : 50

5 A0303 **SECTION**
1 : 50



2 S1000 **SECTION**
1 : 25



3 S1000 **SECTION**
1 : 25

NOTE:
All External Steel to be
Hot Dipped Galvanized

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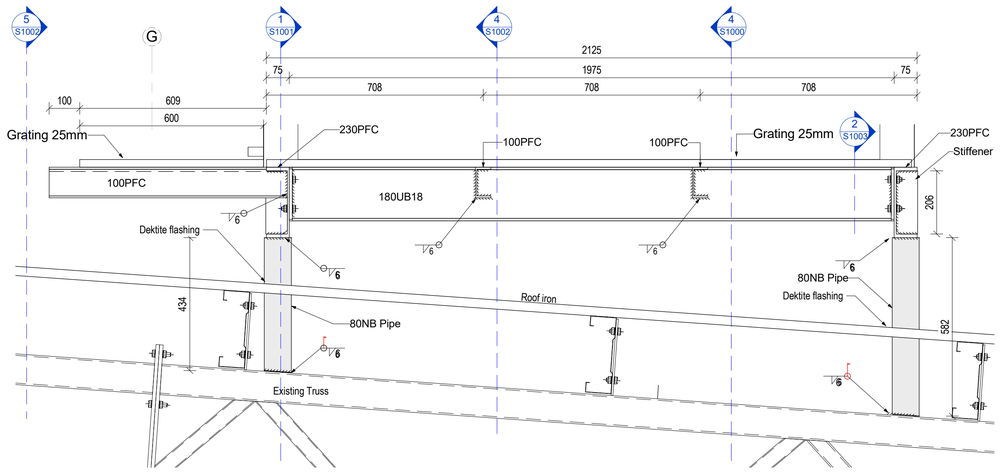
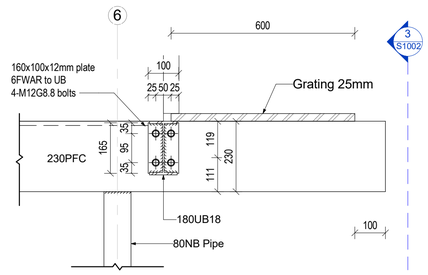
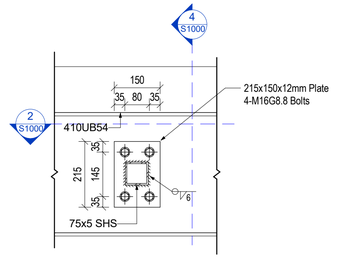
DRAWN BY	C. White	DATE	23/05/2017
CHECKED BY	R. Qadeer		16
	AHU 2 Frame		S1002
Please note: All dimensions to be verified on site		Paper size	A1



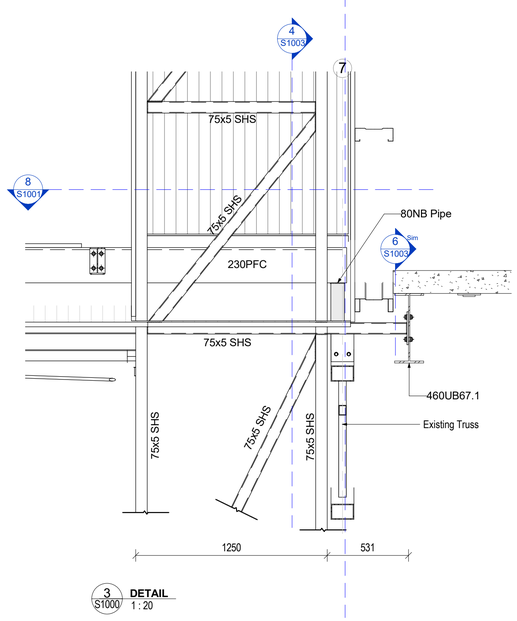
1 S1002 **DETAIL** :AHU 2 Frame to truss
1 : 10



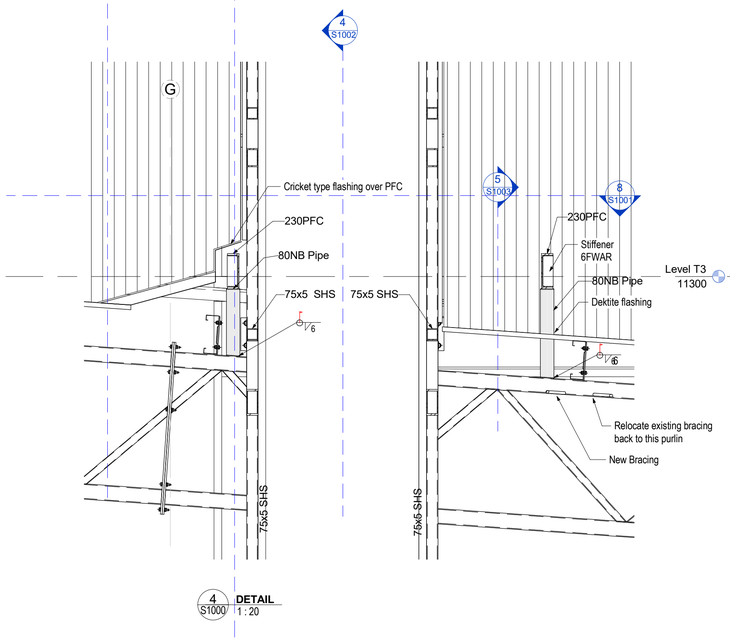
2 S1003 **DETAIL** :180UB End plate typ.
1 : 10



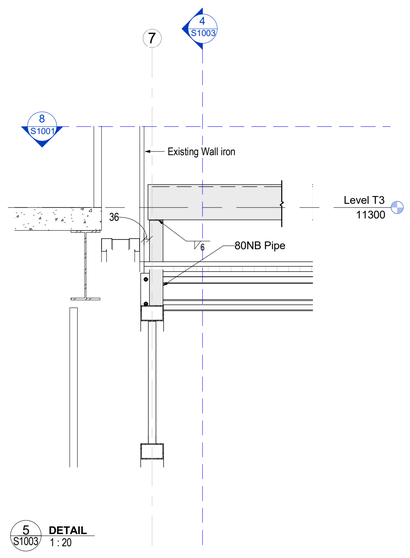
6 S1000 **DETAIL** :75x5 SHS End plate typ.
1 : 10



3 S1000 **DETAIL**
1 : 20



4 S1000 **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	586	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	16405	0.03 m³	411.97
Grand total: 92	92	147791		1892.53

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PROJECT

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Infant Formula Blending Plant
9 Ashford Ave., Ashburton

PRELIMINARY
Subject to Building Consent

Rev#	Ammendments	Date
16	AHU-2 platform and Ducting	10/05/17

SCALE As indicated | JOB # 12412
DRAWN BY C. White | DATE 23/05/2017
CHECKED BY R. Qadeer | 16
AHU 2 Frame Details | S1003
Please note: All dimensions to be verified on site | Paper size A1

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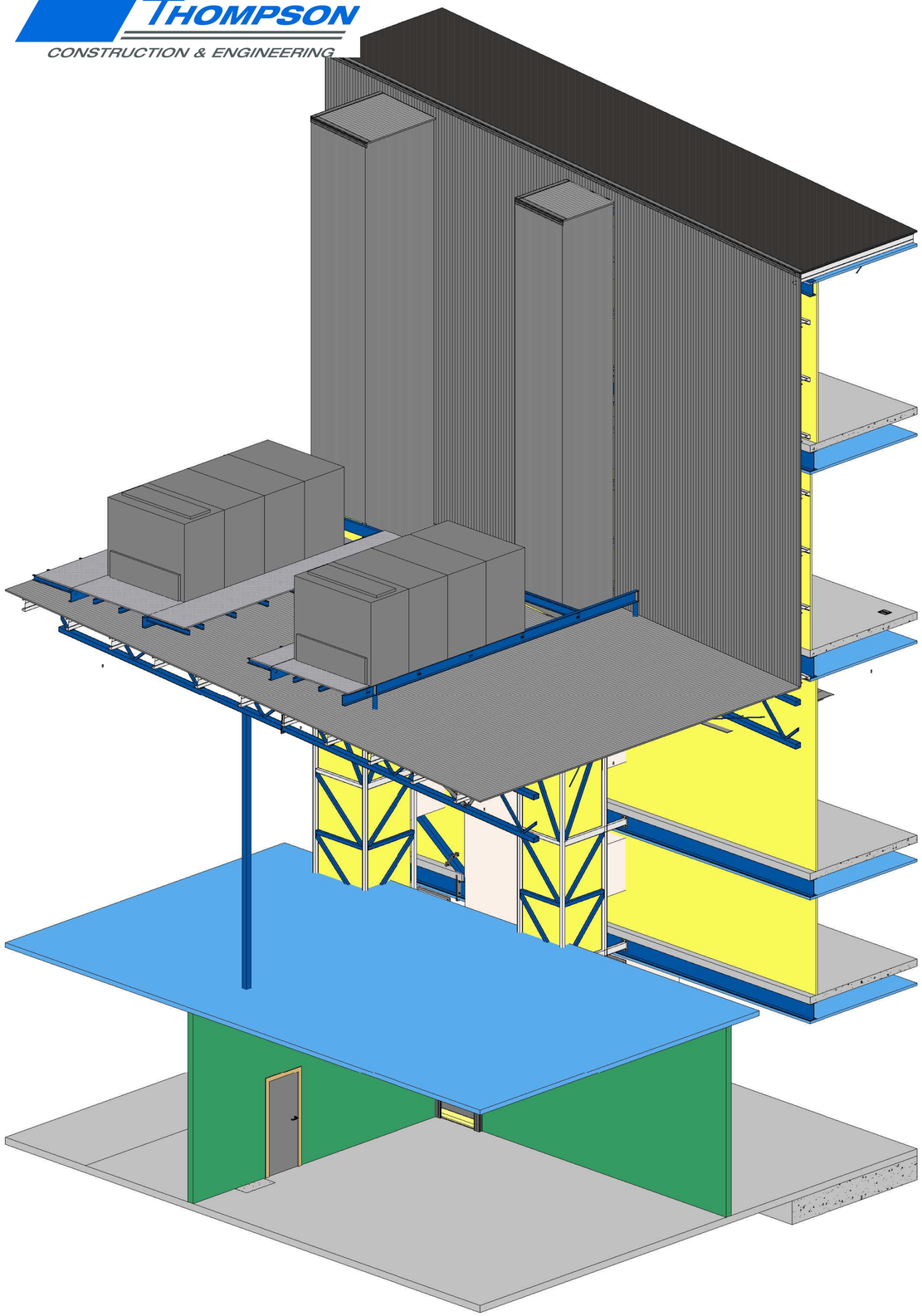
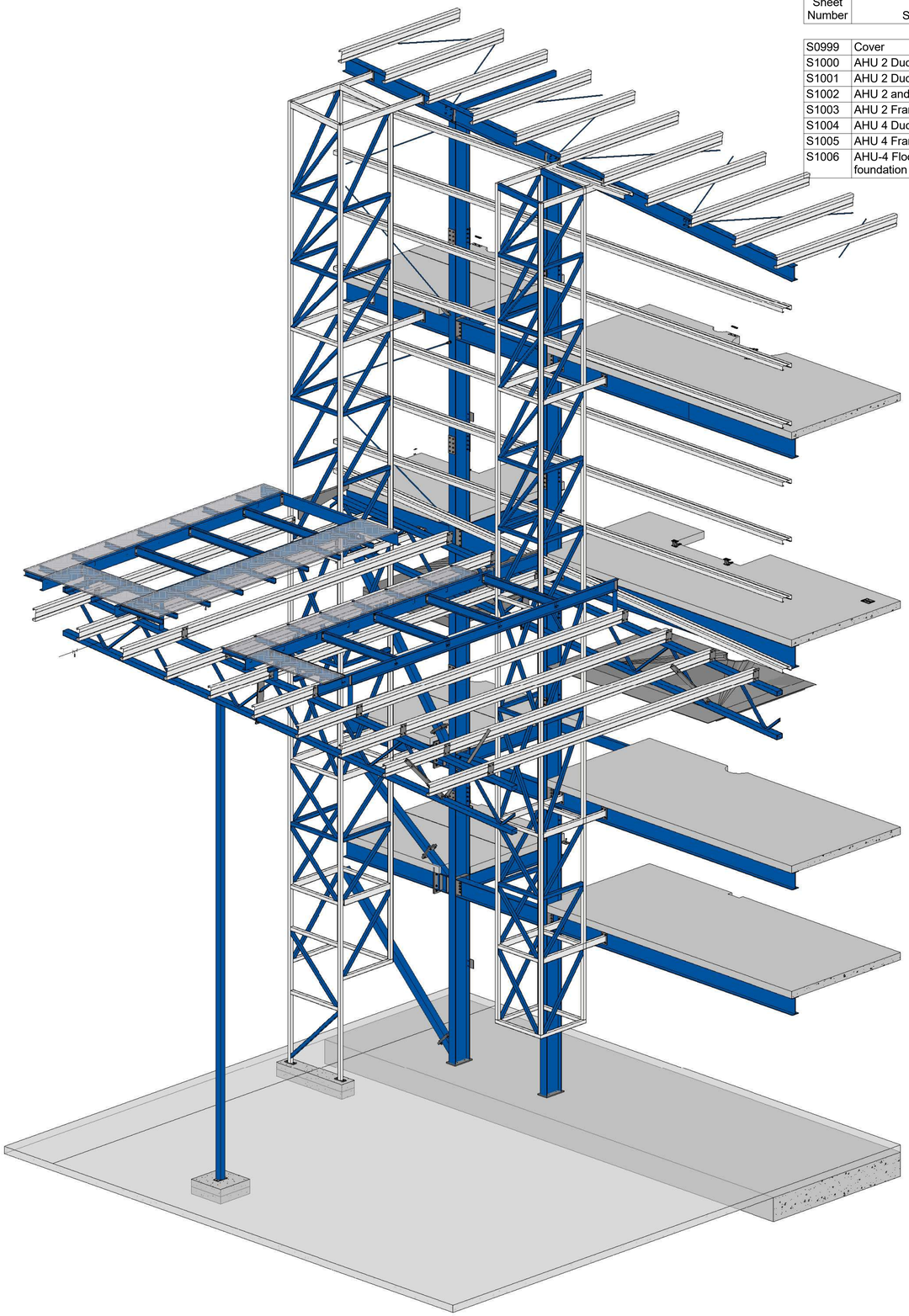
AHU-2 and 4 Sheet List

Sheet Number	Sheet Name	Current Revision	Current Revision Date
S9999	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

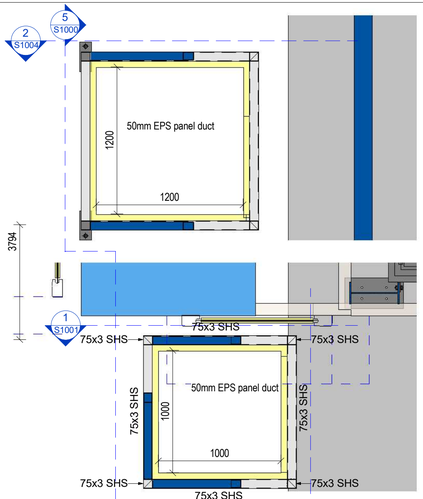
PRELIMINARY
Subject to Structural Engineering and Building Consent



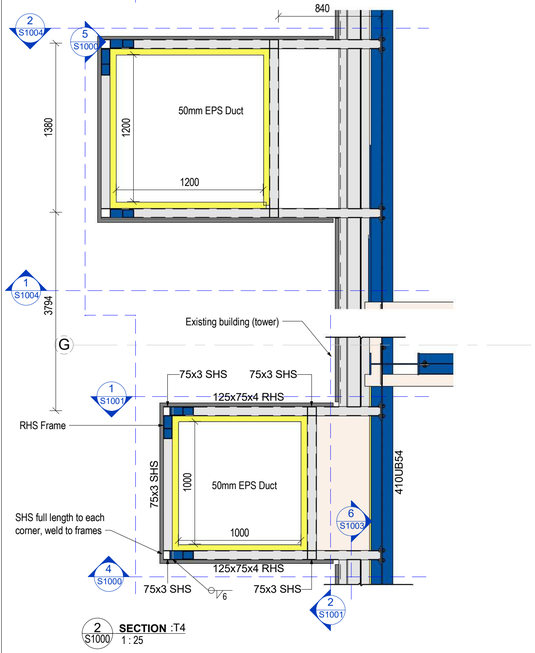


NZ Dairy Collaborative Group
Infant Formula Blending Plant
9 Ashford Ave., Ashburton

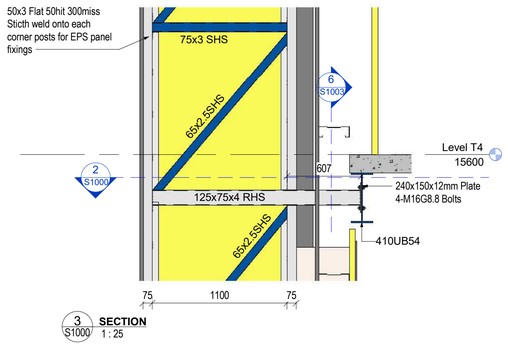
12412
23/05/2017



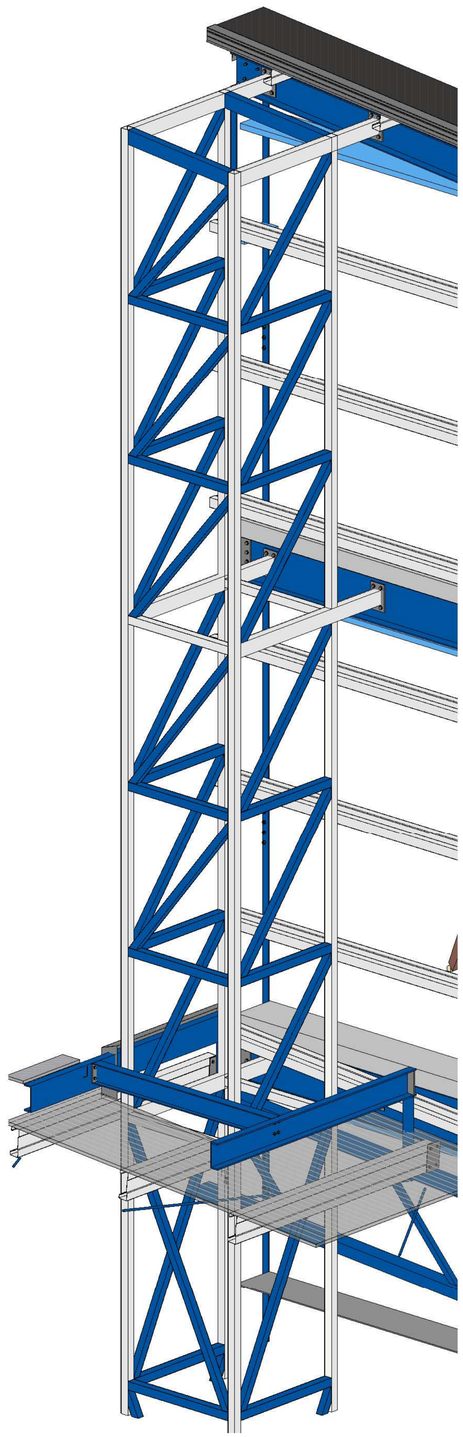
1 A0300 **PLAN** :Ground Floor AHU 2 Ducting frame
1 : 25

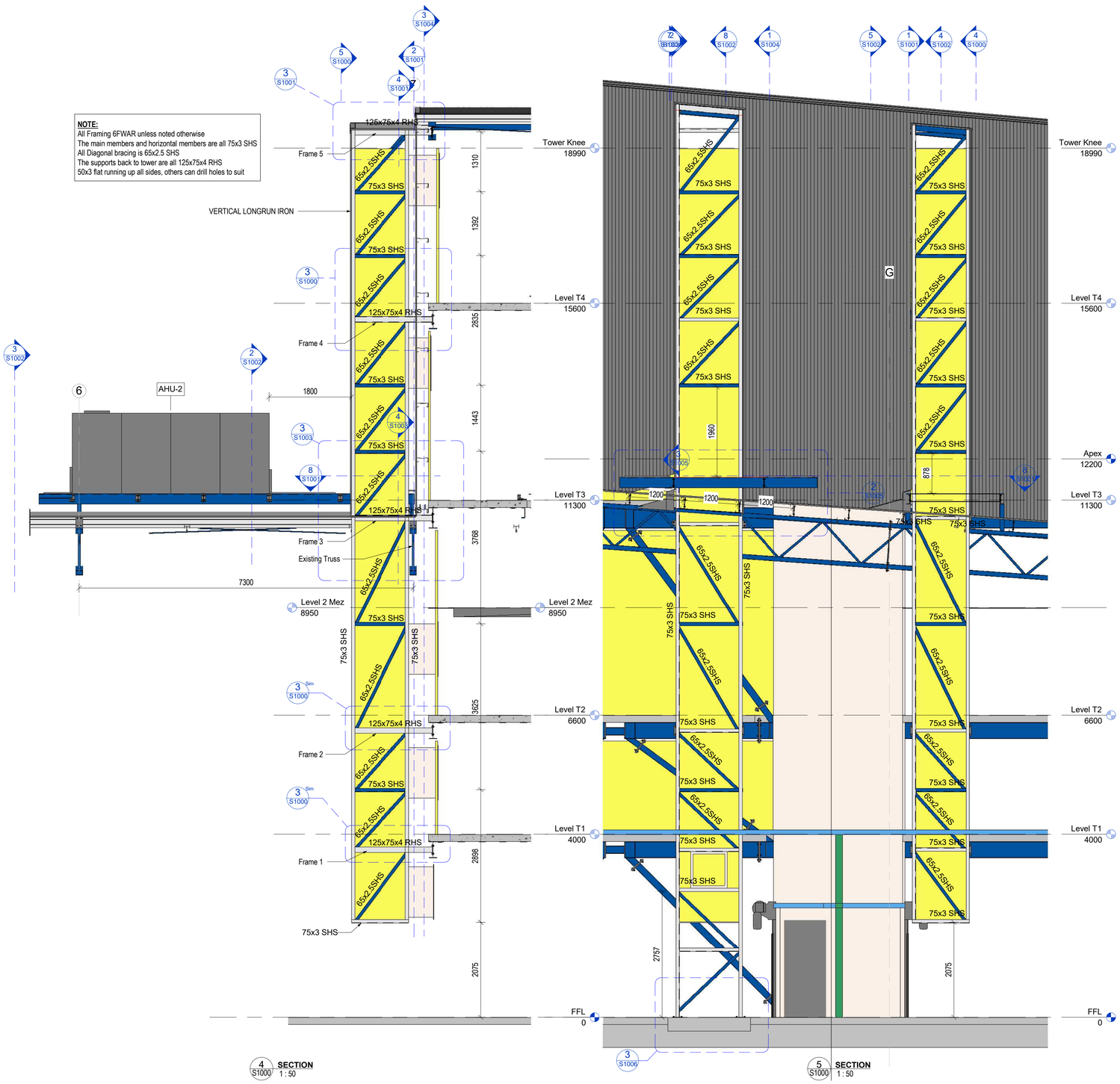


2 S1000 **SECTION** :T4
1 : 25



3 S1000 **SECTION**
1 : 25





4 S1000 **SECTION**
1 : 50

5 S1000 **SECTION**
1 : 50

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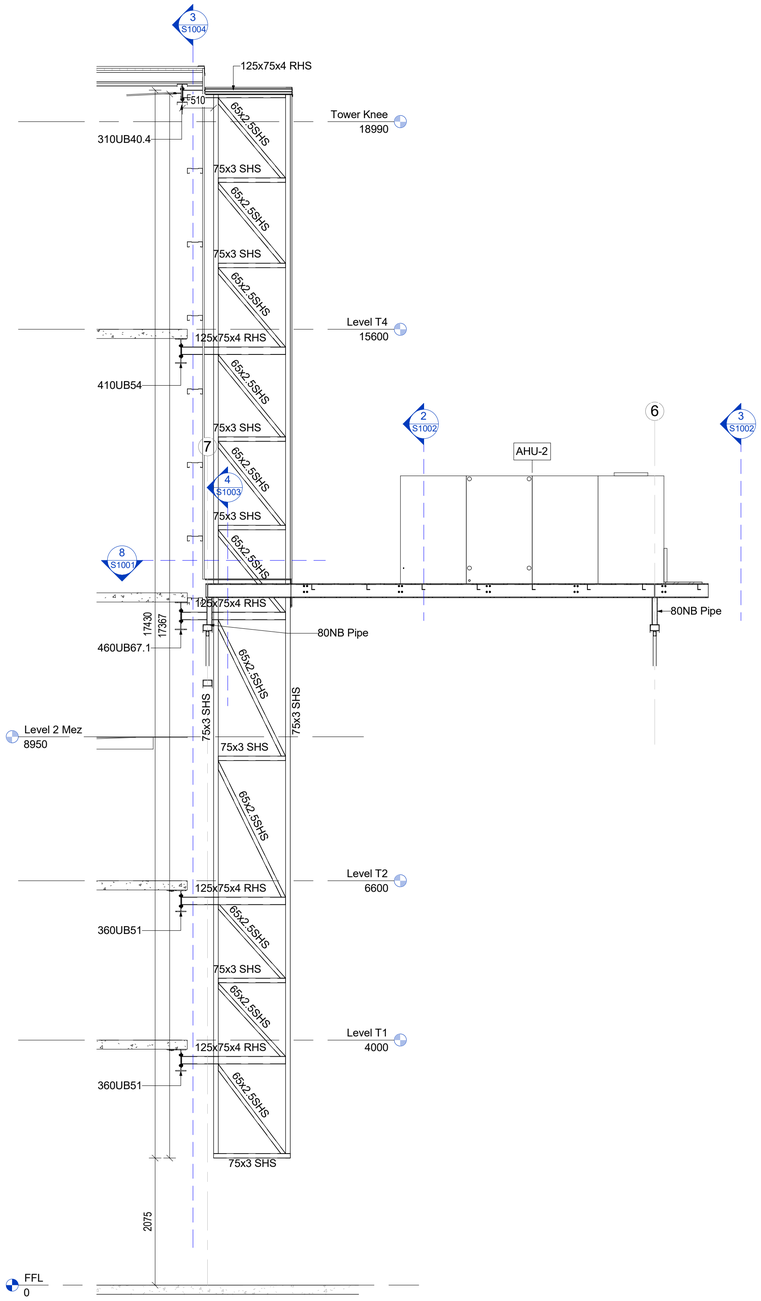
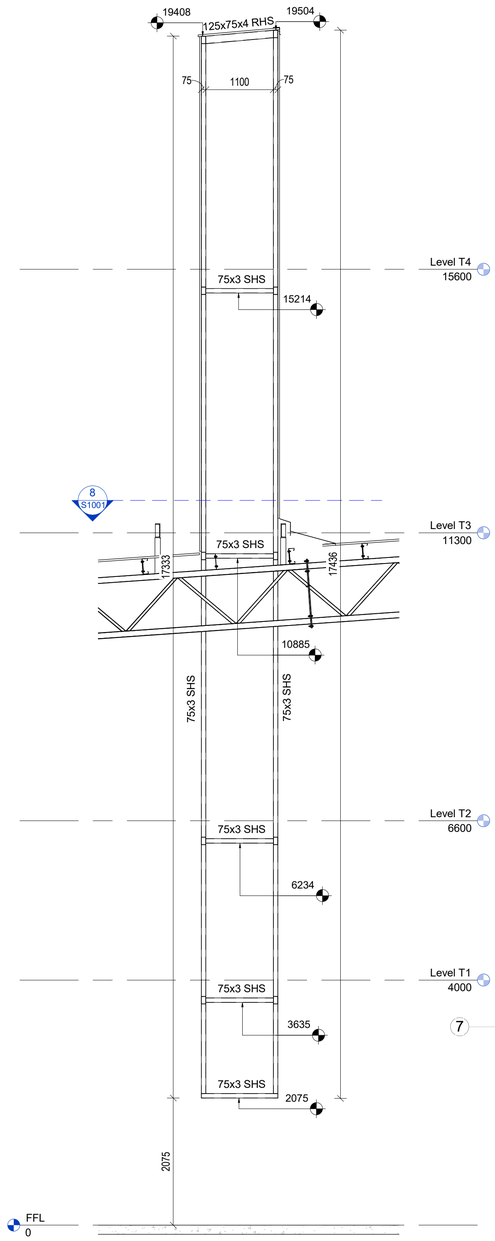
18	AHU-4 Platform and Ducting	7/7/17

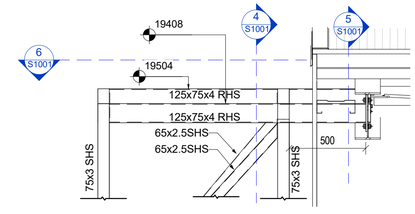
SCALE	As indicated	JOB #	12412
DRAWN BY	C. White	DATE	23/05/2017
CHECKED BY	R. Qadeer		18
AHU 2 Ducting Frame			S1000
Please note: All dimensions to be verified on site		Paper size	A1



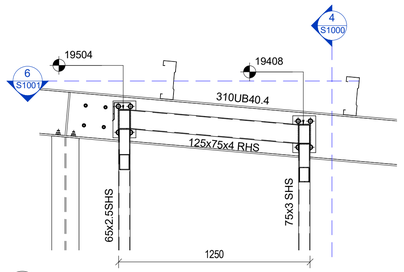
1 Duct fame side elevation
1 : 50



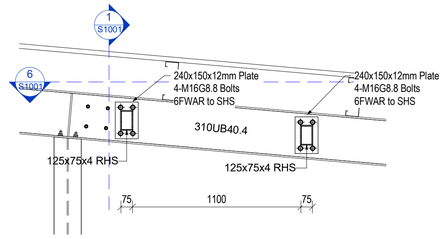
2 Duct frame Back Elevation
1 : 50



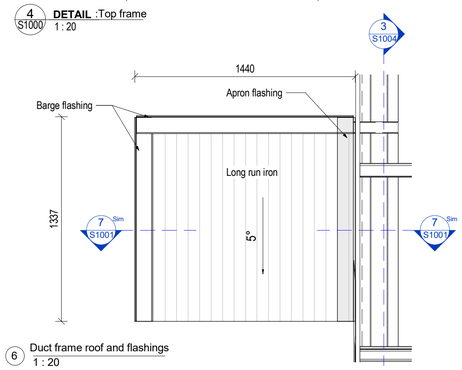
3 S1000 **SECTION** :Top of duct frame
1 : 20



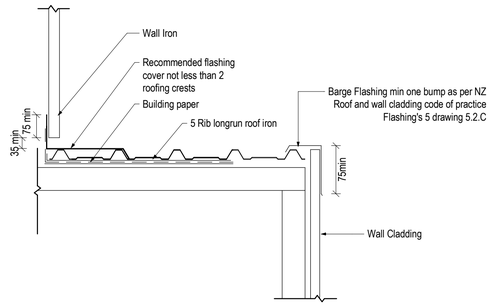
4 S1000 **DETAIL** :Top frame
1 : 20



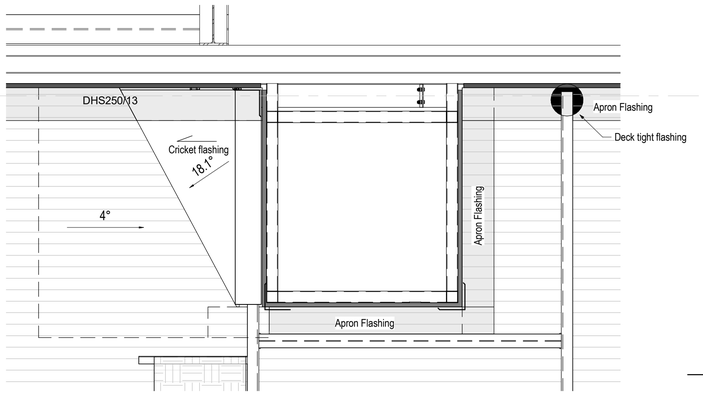
5 S1001 **DETAIL** :Top of duct frame connection
1 : 20



6 Duct frame roof and flashings
1 : 20

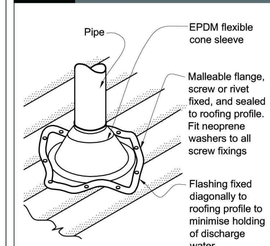


7 Barge and Apron Flashing Detail
1 : 10

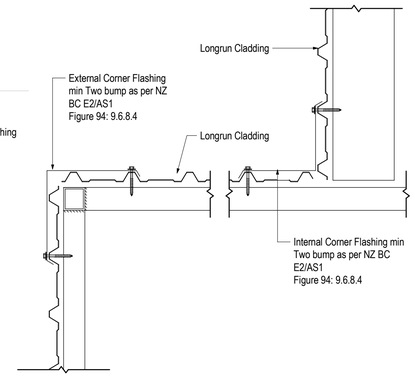


8 Duct Frame flashings
1 : 20

Figure 53: Flashing for small pipes
Paragraphs 8.3.10, 8.4.17, 9.6.8.5 and 9.6.9.6



NOTE:
(1) Max. roof pitch for this flashing 45°, minimum pitch 10° if base of flange covers one or more complete troughs.
(2) For pipes up to 85 mm diameter.



Corner Flashings for profiled metal
1 : 10

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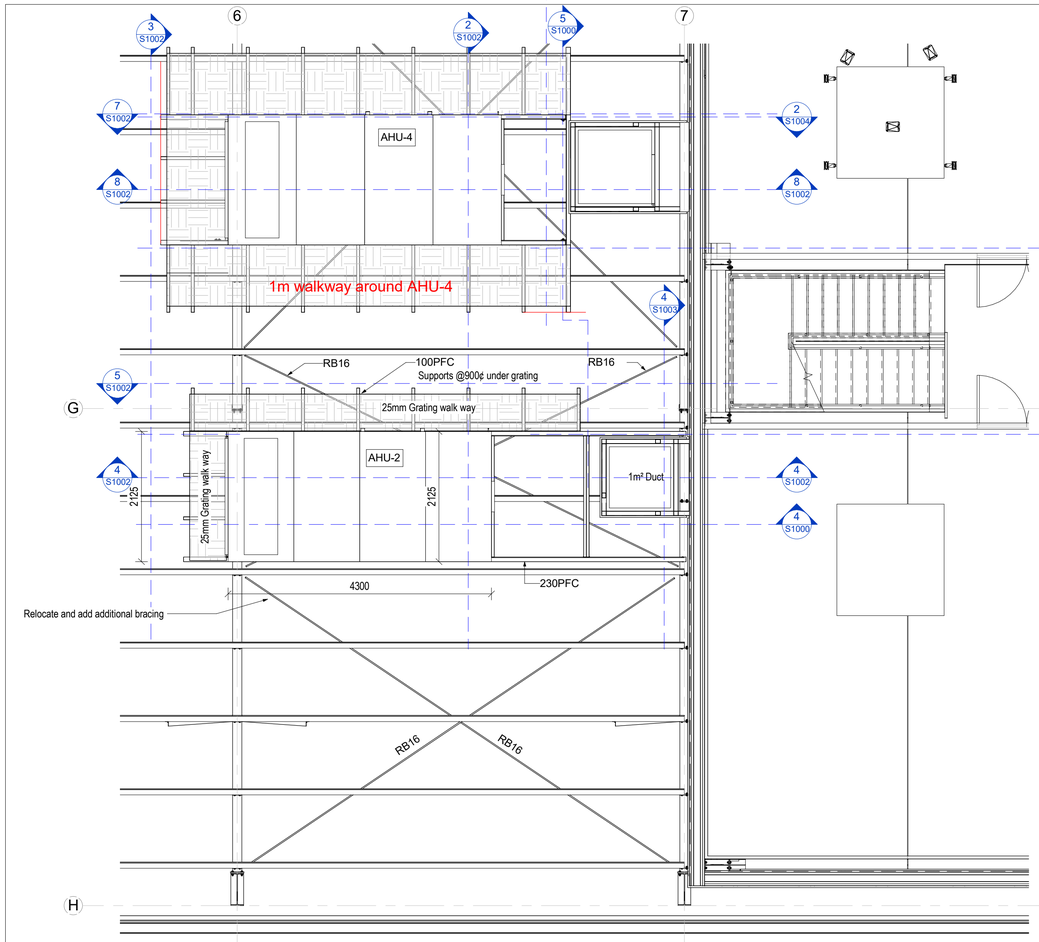
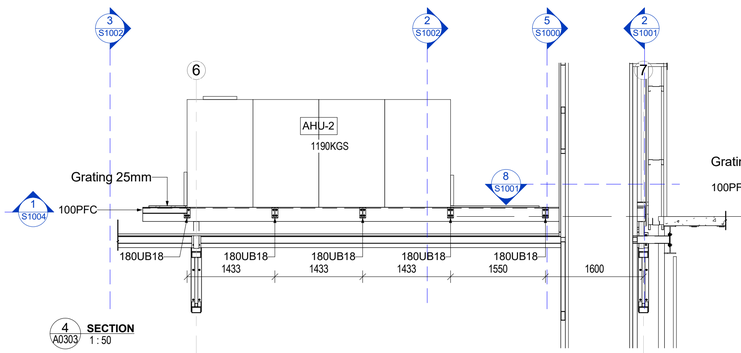
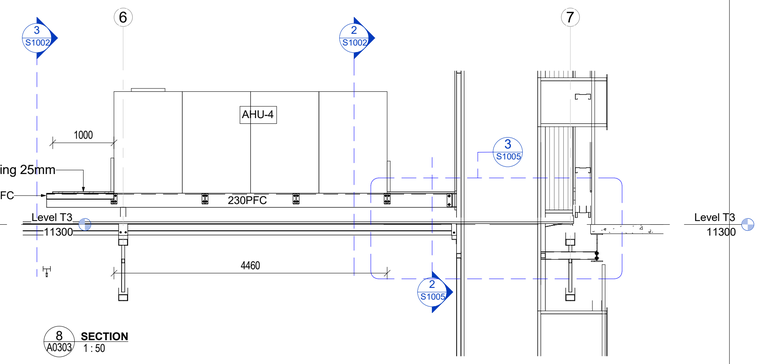
DRAWN BY	C. White	DATE	23/05/2017
CHECKED BY	R. Qadeer		18
AHU 2 Ducting Frame Details			S1001
Please note: All dimensions to be verified on site		Paper size	A1



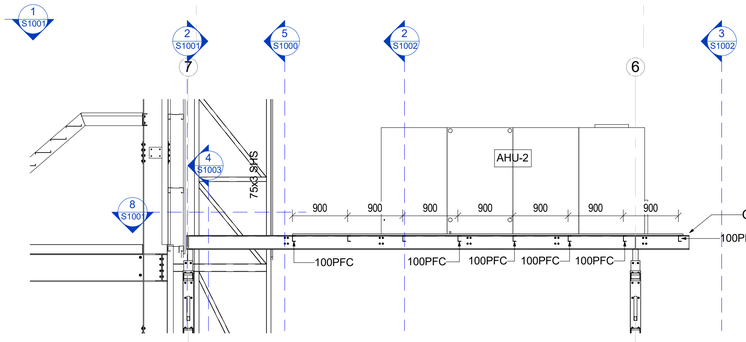
1 Roof Plan AHU 2
1 : 50



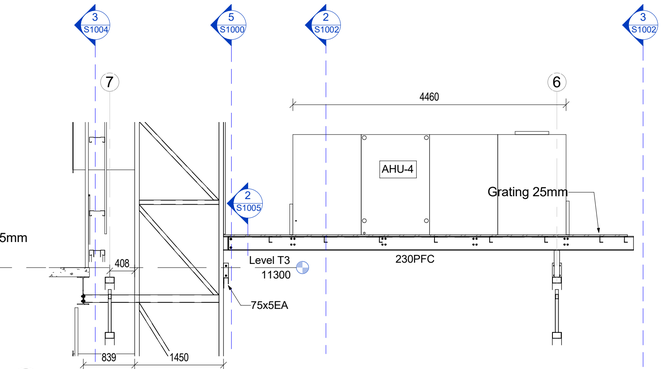
4 SECTION A0303 1 : 50



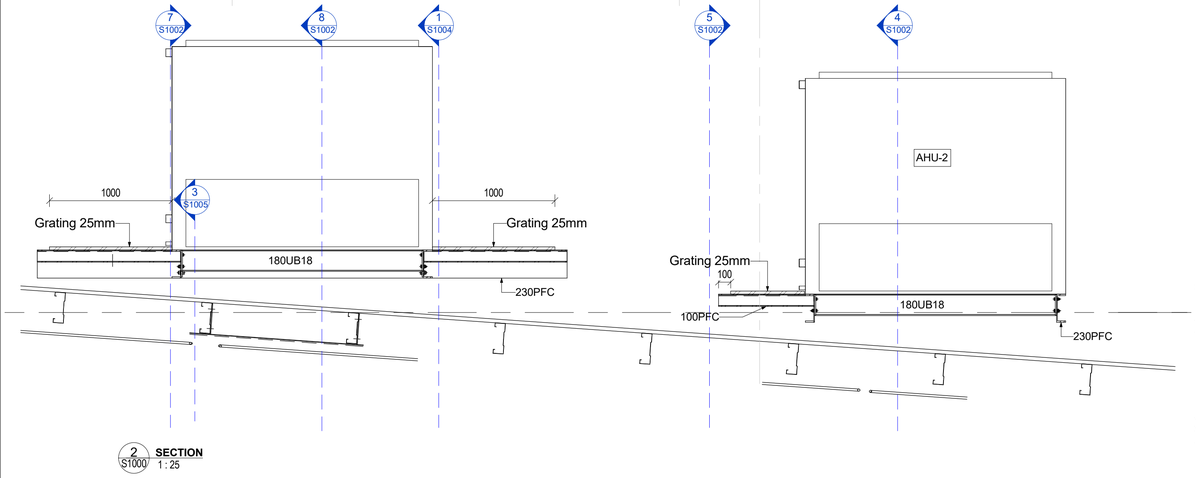
8 SECTION A0303 1 : 50



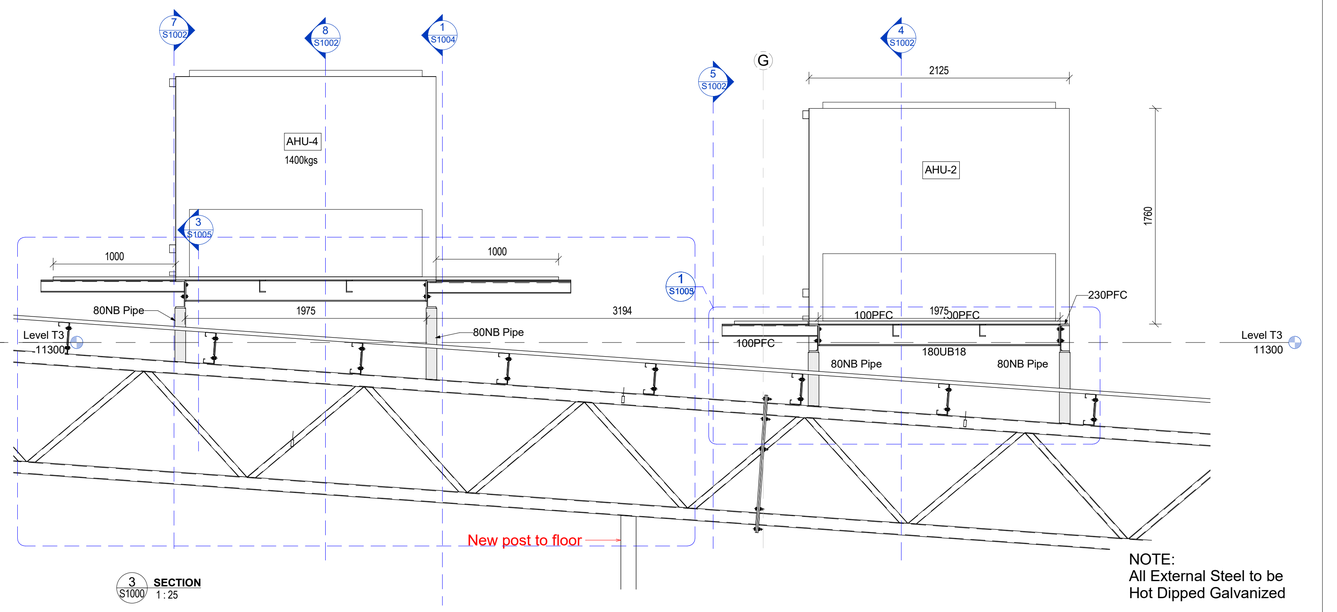
5 SECTION A0303 1 : 50



7 SECTION A0303 1 : 50



2 S1000 SECTION 1 : 25



3 S1000 SECTION 1 : 25

NOTE:
All External Steel to be Hot Dipped Galvanized

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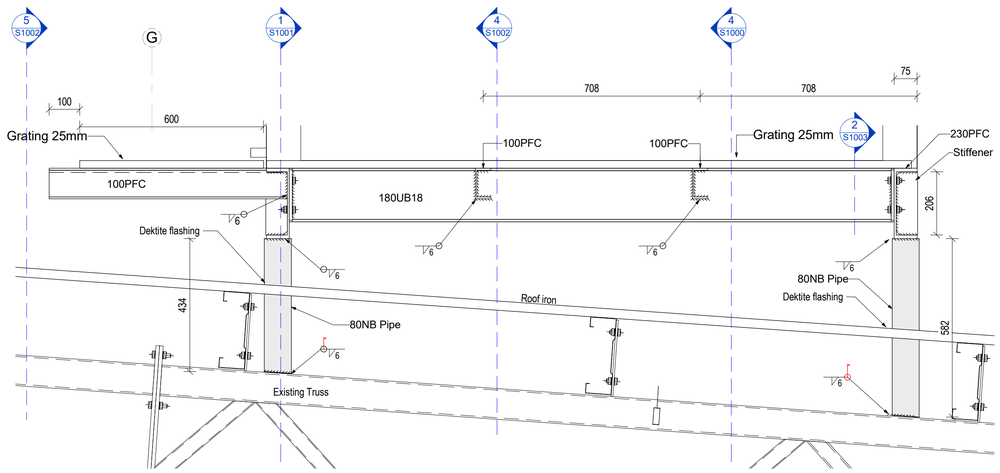
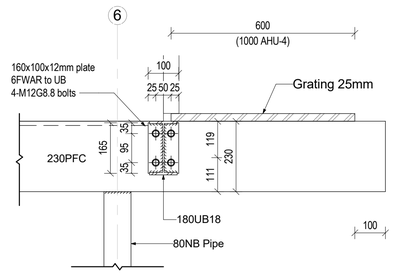
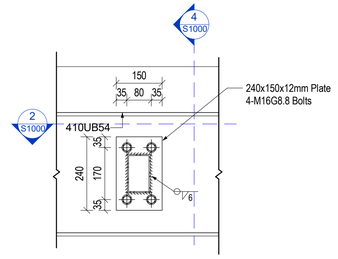
CHECKED BY	R. Qadeer		18
AHU 2 and 4 Frames			S1002
Please note: All dimensions to be verified on site		Paper size	A1



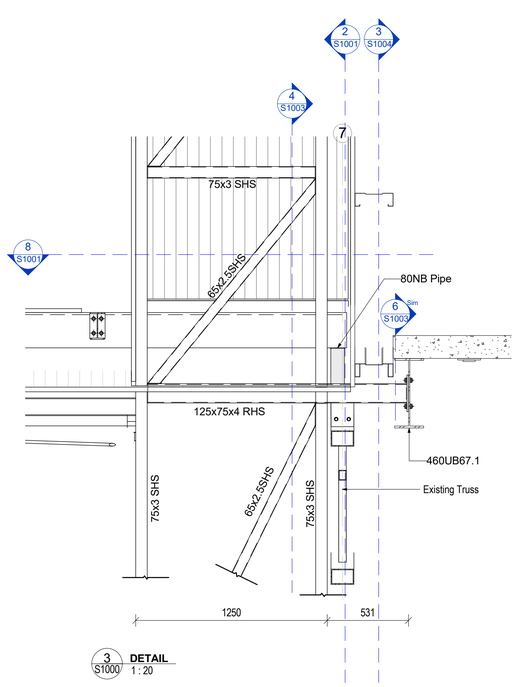
1 S1002 **DETAIL** :AHU 2 Frame to truss
1 : 10



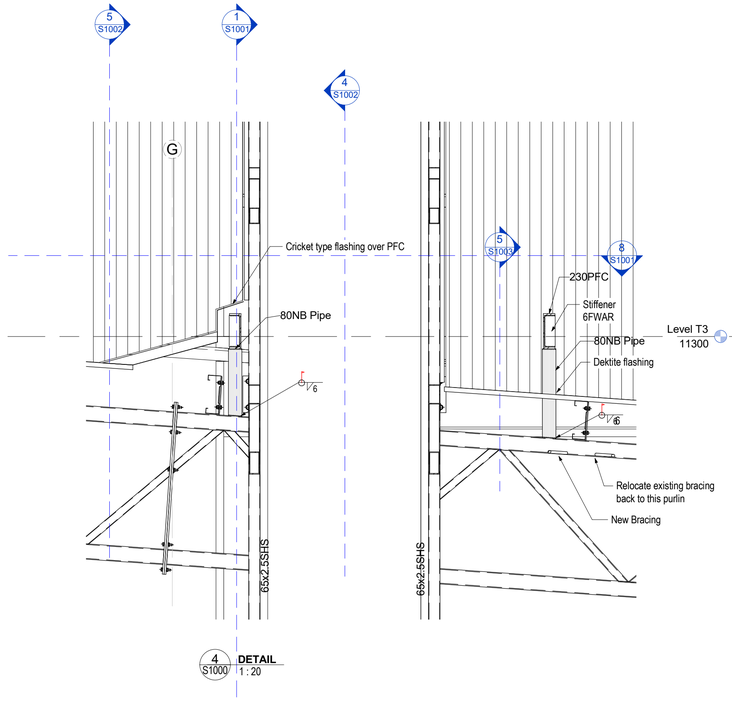
2 S1003 **DETAIL** :180UB End plate typ.
1 : 10



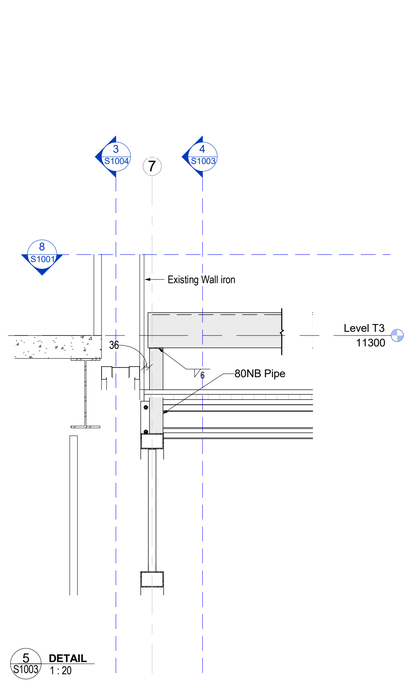
6 S1000 **DETAIL** :125x75x4 SHS End plate typ.
1 : 10



3 S1000 **DETAIL**
1 : 20



4 S1000 **DETAIL**
1 : 20



5 S1003 **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
75x3 SHS	17564	0.02 m³	121.4
75x3 SHS	17685	0.02 m³	122.24
75x3 SHS	19960	0.02 m³	137.96
75x3 SHS	19839	0.02 m³	137.13
80NB Pipe	446	0.00 m³	4.57
80NB Pipe	586	0.00 m³	6.06
80NB Pipe	446	0.00 m³	4.59

AHU- 2 Structural Framing Schedule

Type	Count	Cut length	Volume	Weight (Kgs)
80NB Pipe	947	0.00 m³	0.00	
Grand total: 15	147961	0.13 m³	1028.34	
65x2.5SHS	32	59677	0.00 m³	287.35
75x3 SHS	49	58400	0.00 m³	400.55
100PFC	28	28588	0.00 m³	230.96
125x75x4 RHS	24	42246	0.00 m³	518.58
180UB18	9	17755	0.00 m³	317.46
230PFC	5	33944		852.39
Grand total: 147	147	240609		2607.29

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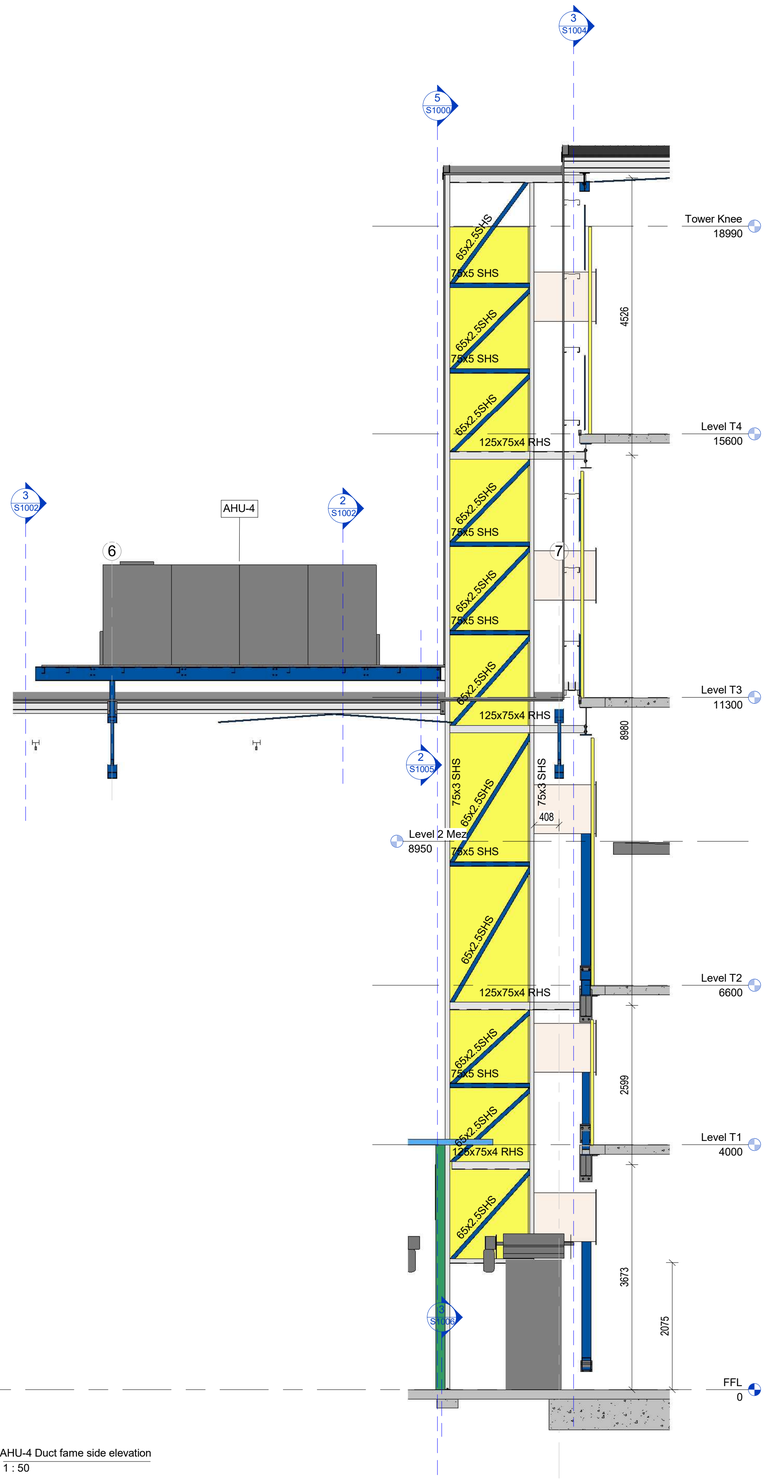
PROJECT

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

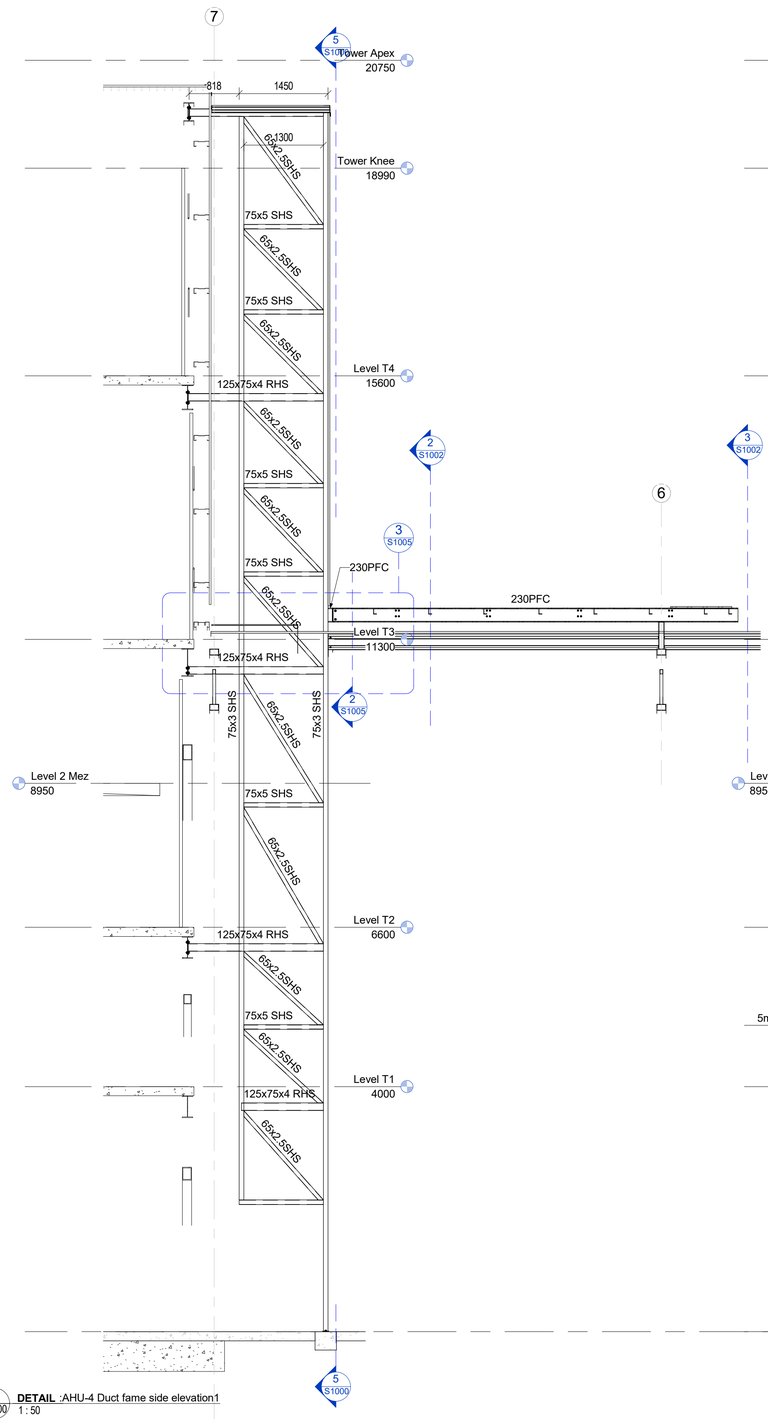
PRELIMINARY
Subject to Structural Engineering and Building Consent

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

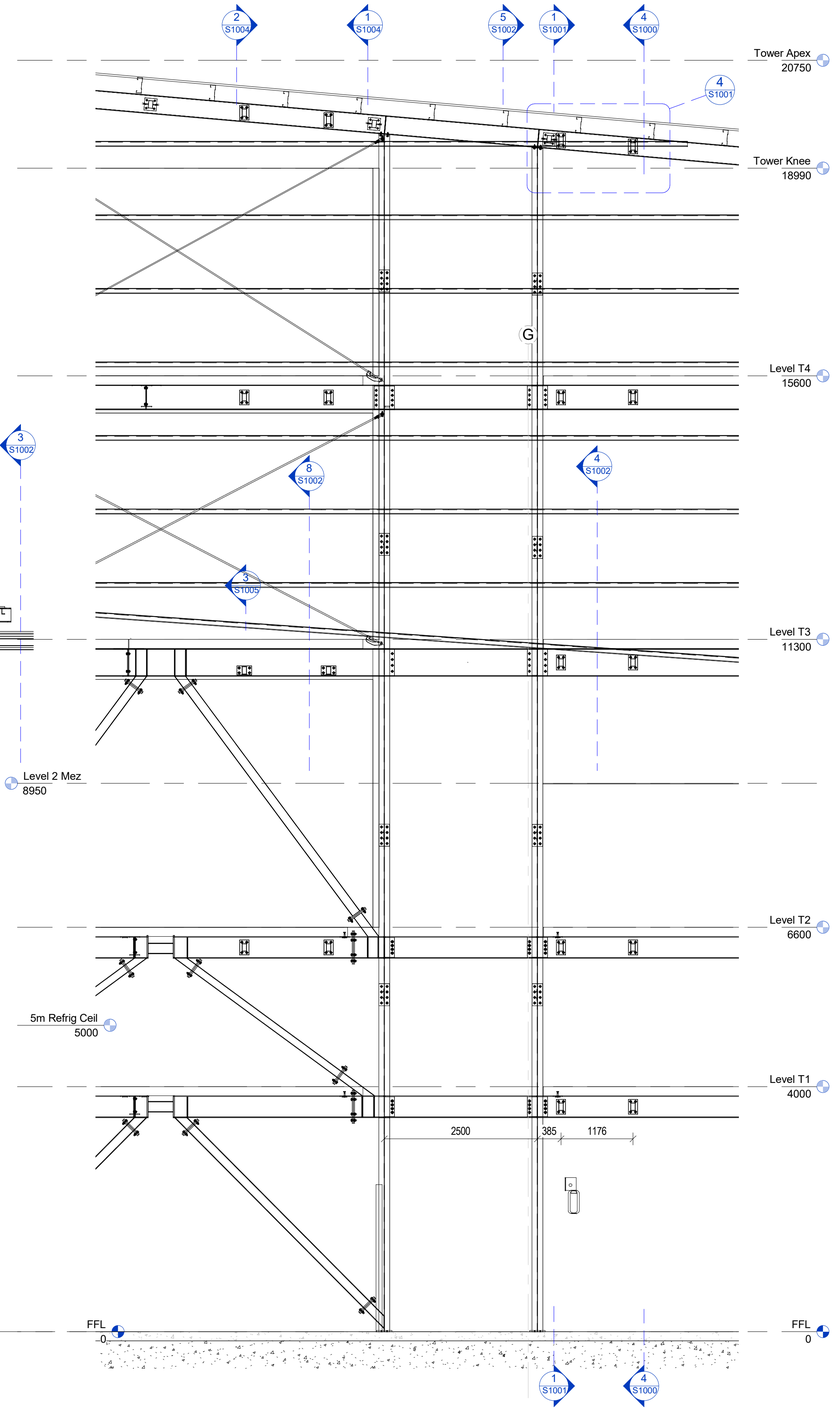
SCALE	As indicated	JOB #	12412
DRAWN BY	C. White	DATE	23/05/2017
CHECKED BY	R. Qadeer		18
AHU 2 Frame Details			S1003
Please note: All dimensions to be verified on site		Paper size	A1



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

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PROJECT

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Infant Formula Blending Plant
9 Ashford Ave., Ashburton

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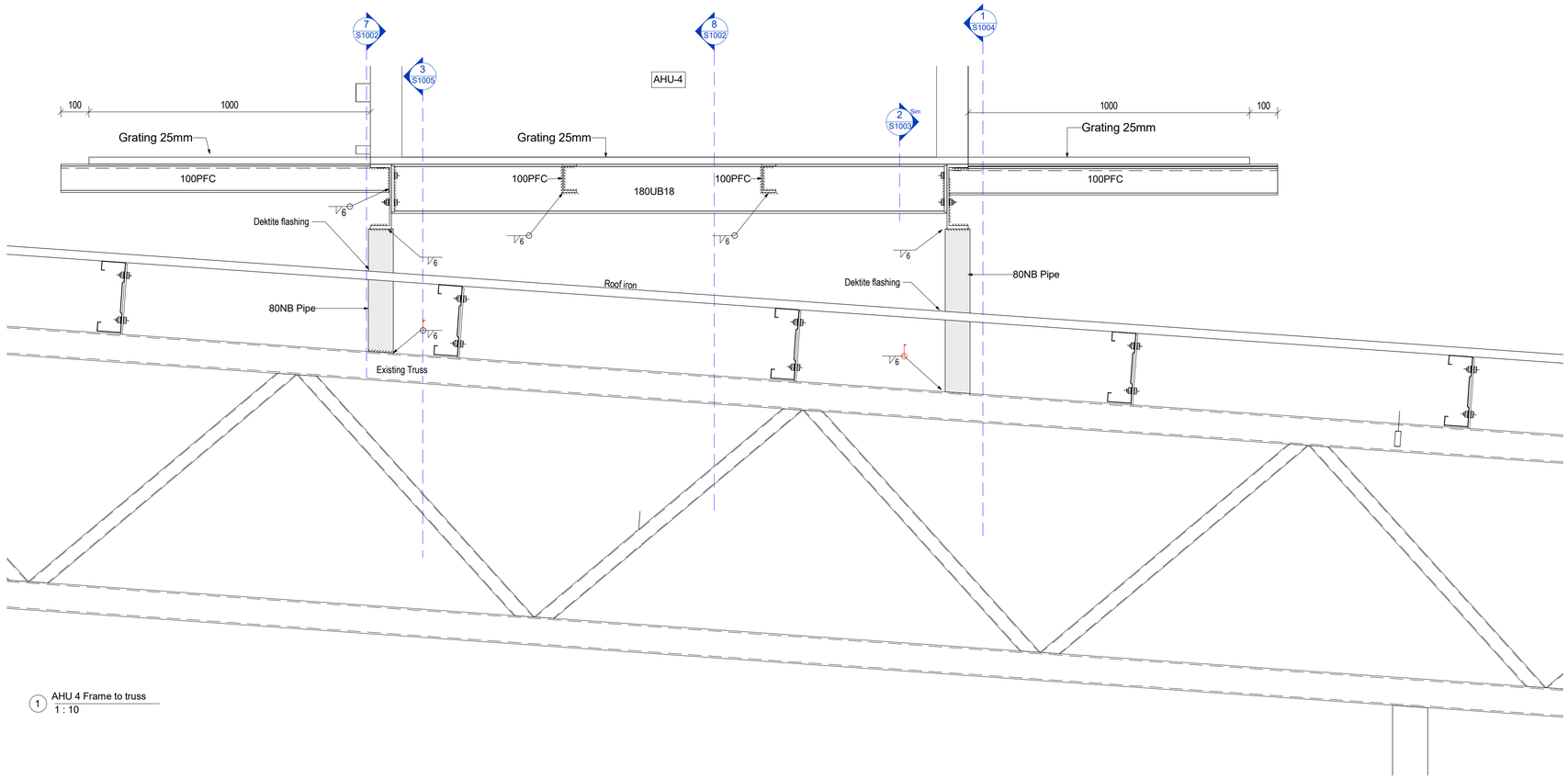
Subject to Structural Engineering and Building Consent

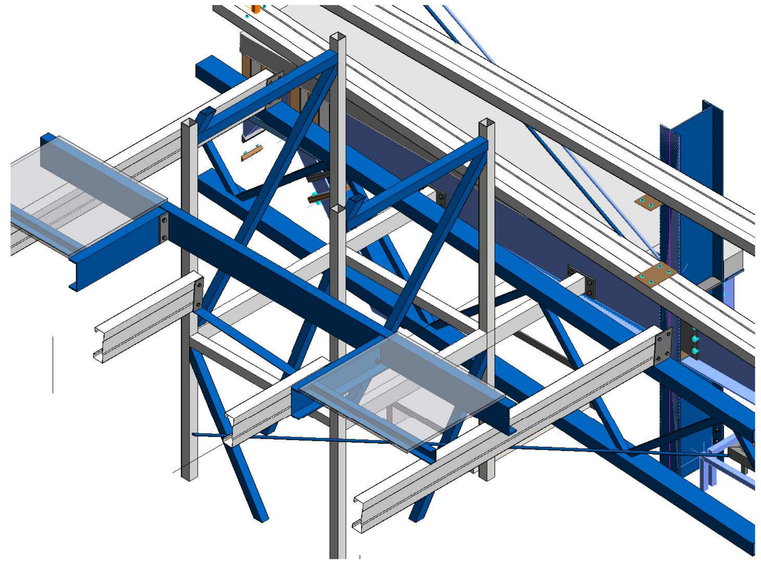
Rev#	Ammendments	Date
18	AHU-4 Platform and Ducting	7/7/17

SCALE	As indicated	JOB #	12412
DRAWN BY	C. White	DATE	23/01/16
CHECKED BY	Checker		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



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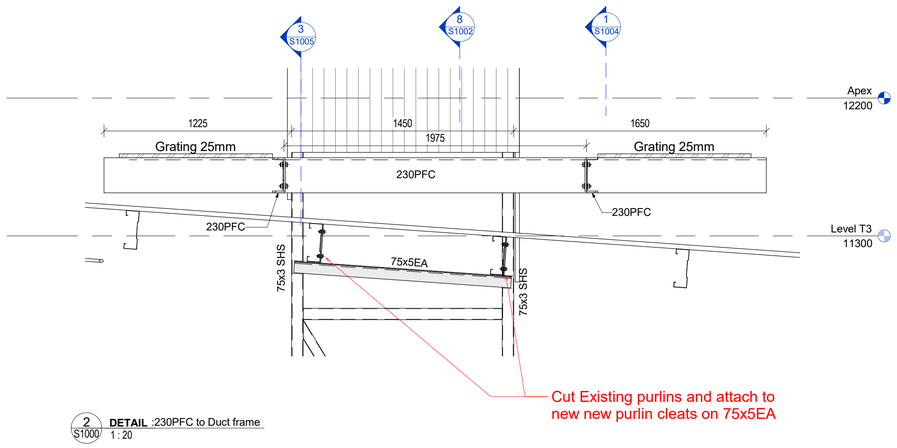
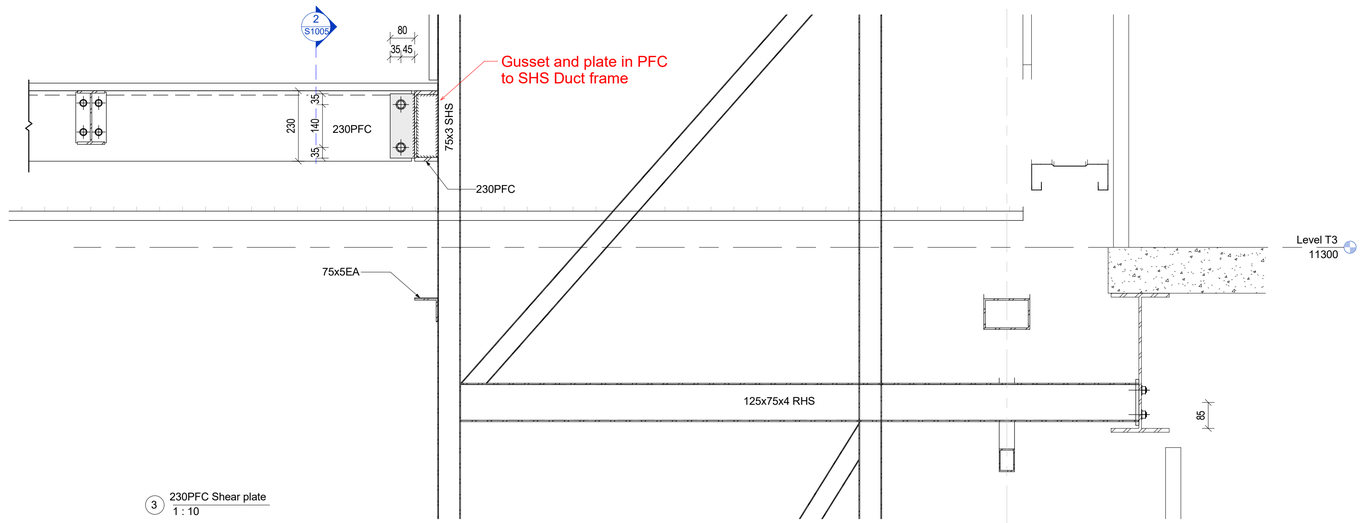


2 S1000 **DETAIL** :230PFC to Duct frame
1 : 20



3 230PFC Shear plate
1 : 10

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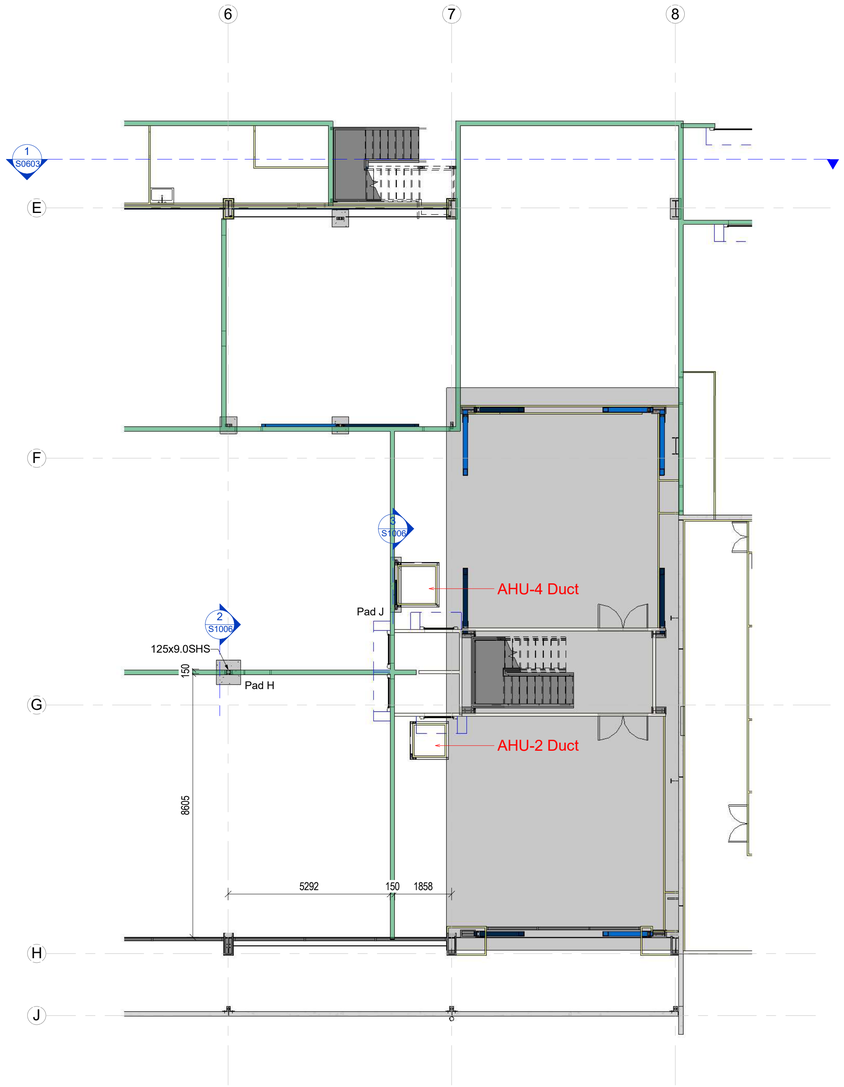
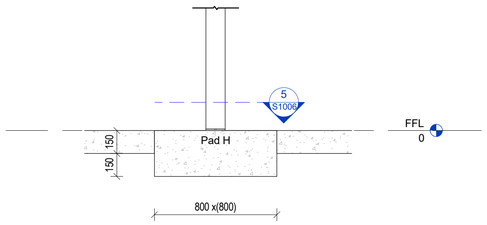
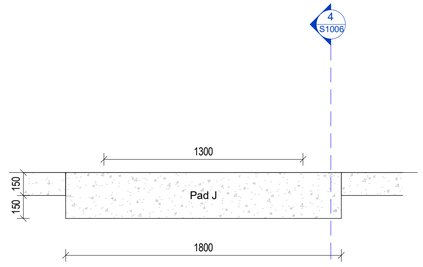


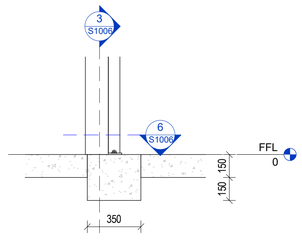
1 Floor Plan AHU4
1 : 100



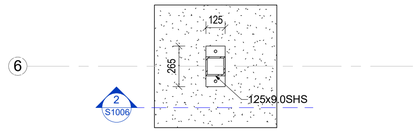
2 Pad H Detail
1 : 20



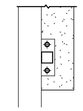
3 Pad J detail
1 : 20



4 Pad J Section
1 : 20



5 125SHS Base plate
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

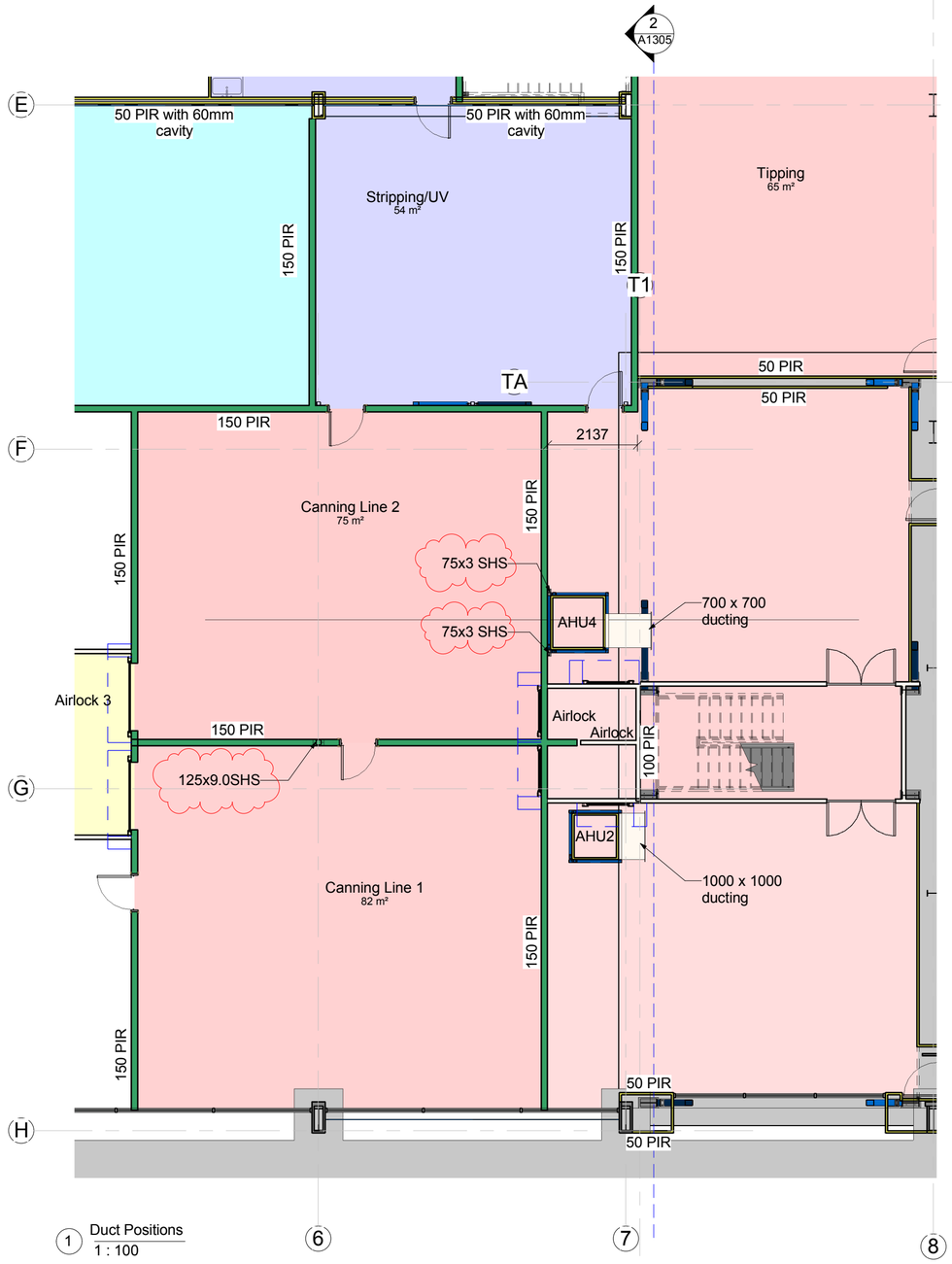
PRELIMINARY
Subject to Structural Engineering and Building Consent

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

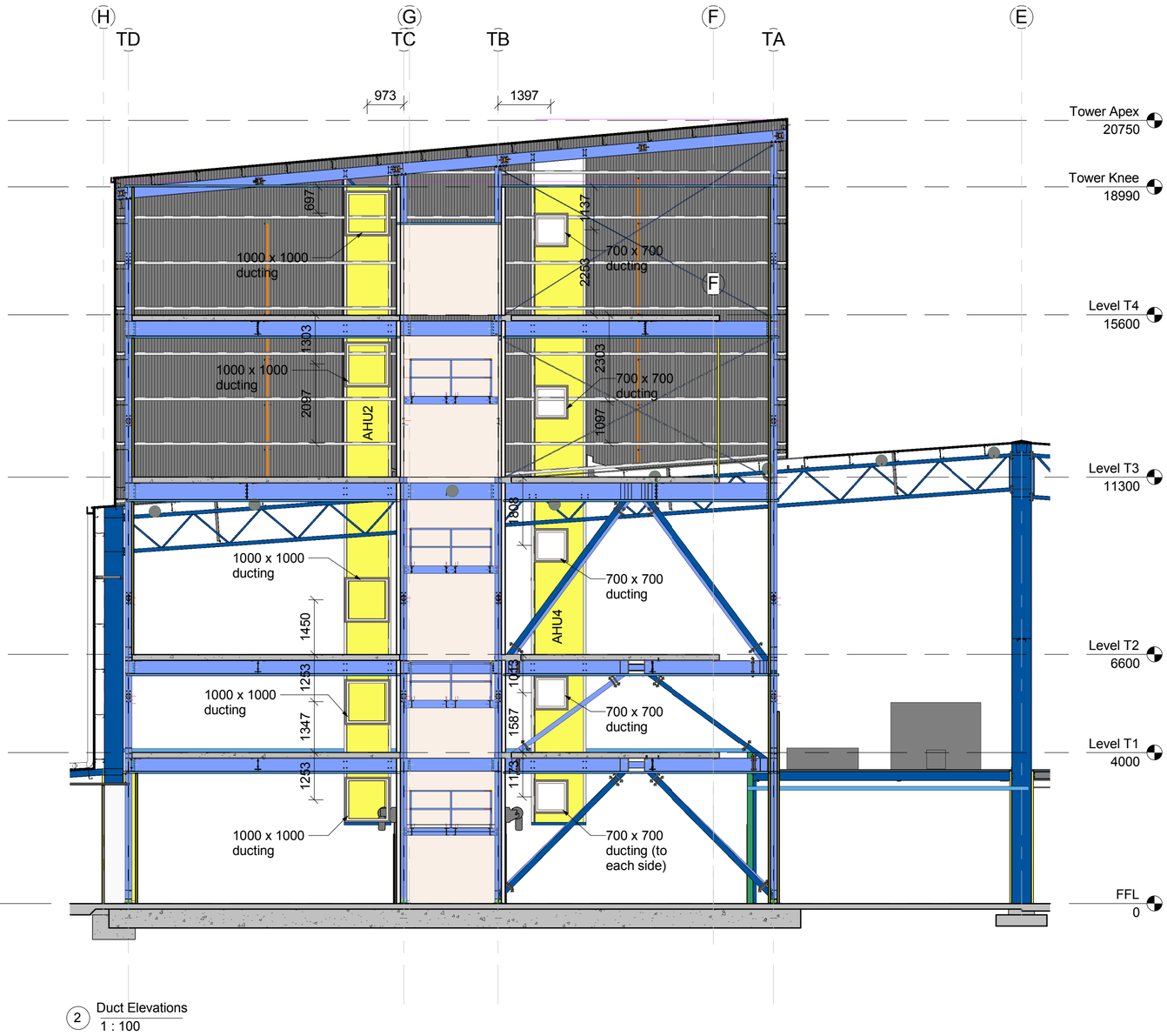
SCALE	As indicated	JOB #	12412
DRAWN BY	C. White	DATE	23/01/16
CHECKED BY	Checker		18
AHU-4 Floor plan and foundation details			S1006

Please note: All dimensions to be verified on site

Paper size A1



1 Duct Positions
1 : 100



2 Duct Elevations
1 : 100

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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 : 100 @ A2	JOB #	12630
DRAWN BY	D. Shand	DATE	17/07/17
CHECKED BY		REV	5
Duct Positions			A1305
Please note: All dimensions to be verified on site		Paper size	A2

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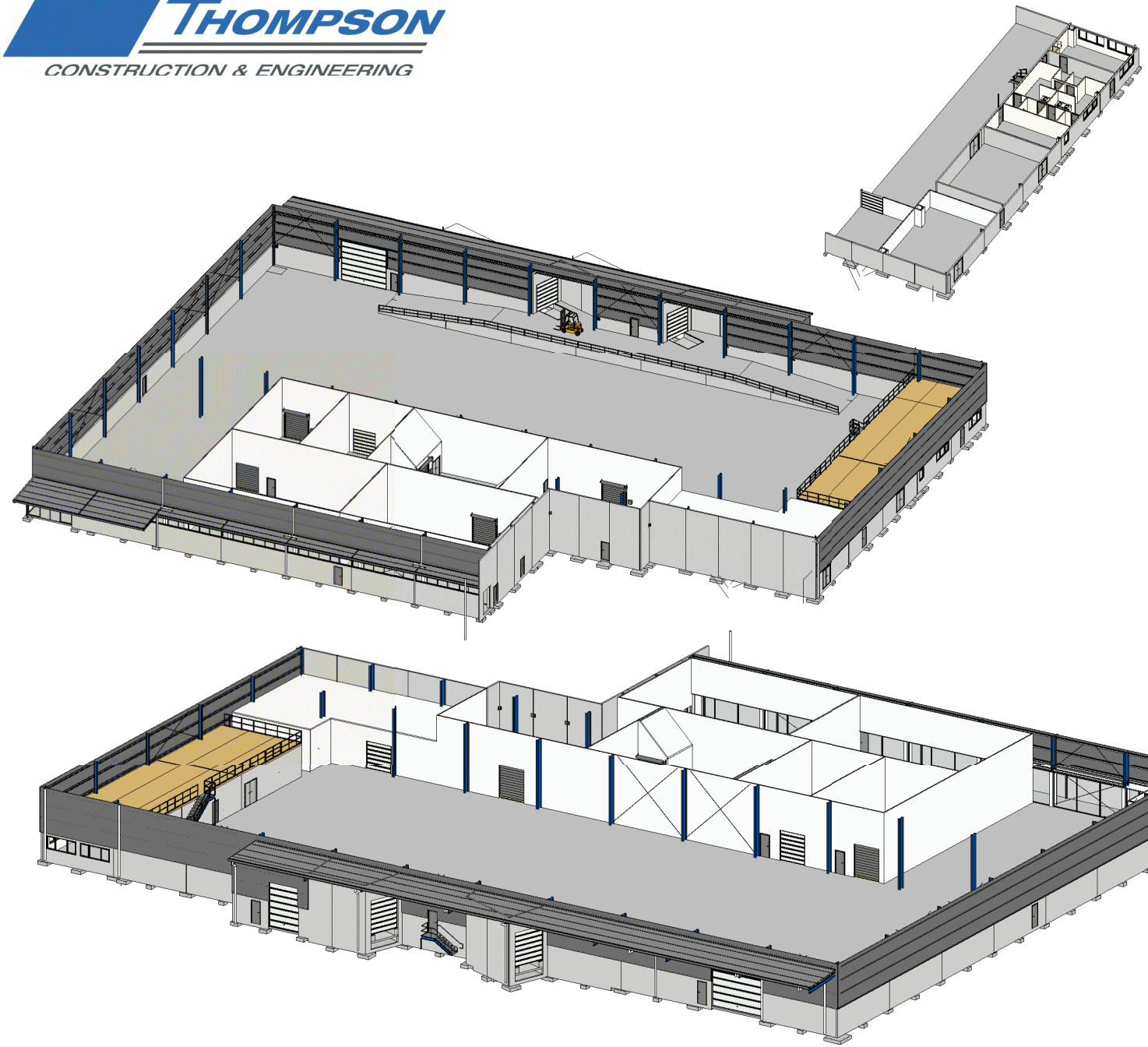


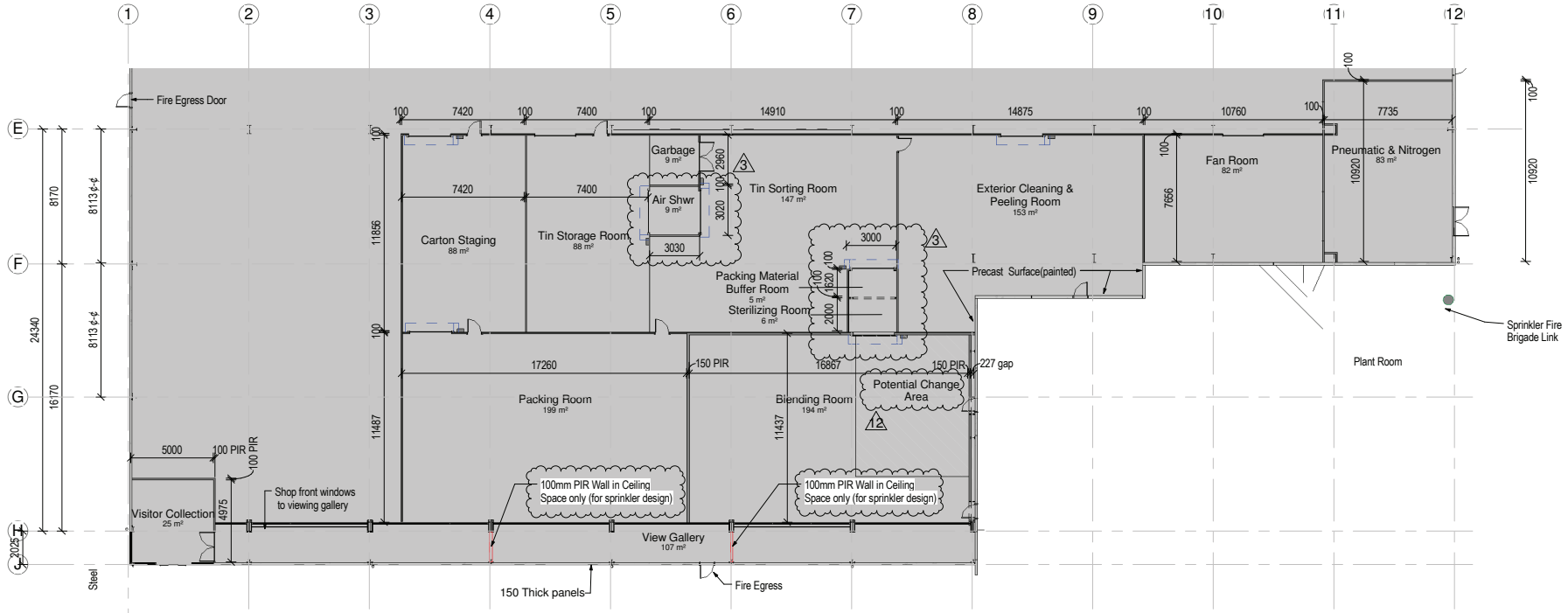
Architectural Sheet List

Sheet Number	Sheet Name	Current Revision	Current Revision Date
A0100	Site Plan	11	15/06/16
A0101	Site Plan Office		
A0200	Ground Floor	12	28/07/16
A0202	Ground floor callouts	12	28/07/16
A0300	Cross Sections	5	18/02/16
A0301	Cross Sections	12	28/07/16
A0303	Refrig Fitout Plan and Sections	12	28/07/16
A0304	Refrig Fitout Sections	3	09/02/16
A0305	Refrig Fitout Sections	12	28/07/16
A0400	Elevations A and C	9	02/05/16
A0401	Elevations B and D	9	02/05/16
A0500	Plumbing Ground Floor		
A0600	D W Ground Floor Plan	12	28/07/16
A0601	D W External		
A0602	D W Internal		
A0603	Balustrades		
A0800	Stairs and Decks		
A1300	Roof Plan	9	02/05/16
A1301	Flashing Details	4	16/02/16
A1302	Flashing Details 2	9	02/05/16
A1400	H1 Compliance		

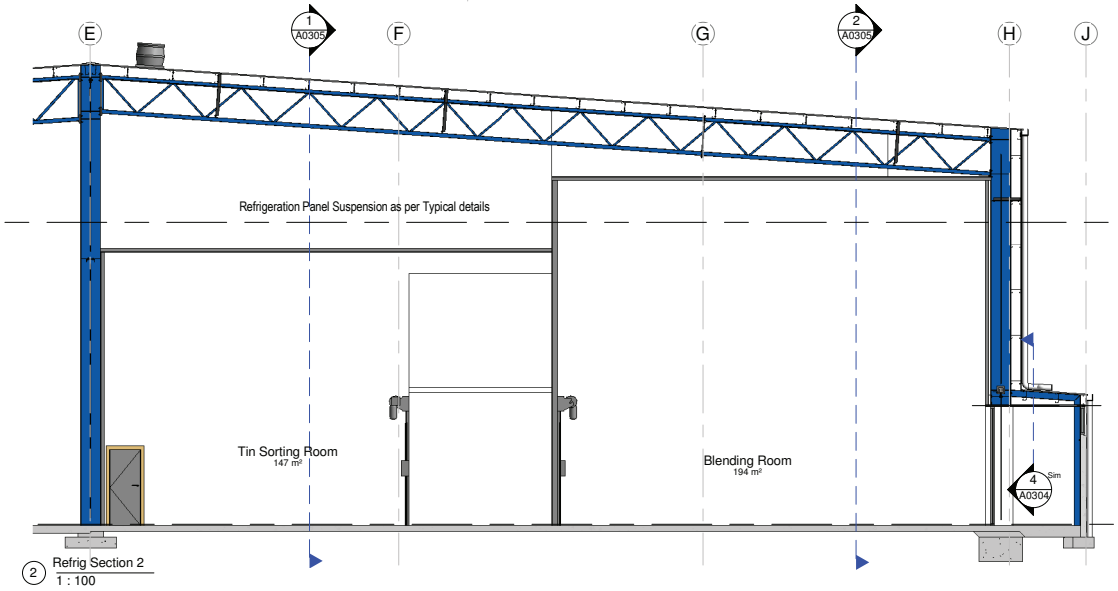
NZ Dairy Collaborative Group
Infant Formula Blending Plant

9 Ashford Ave., Ashburton

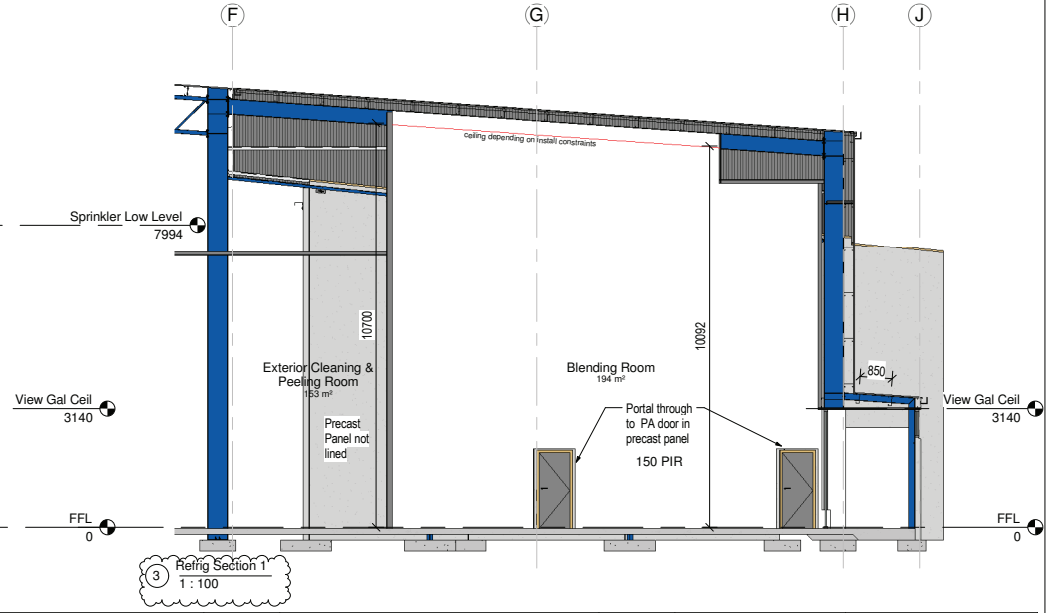
JOB #	12412
DATE:	23/01/16



1 Floor Plan (FFL) PIR Fitout
1 : 200



2 Refrig Section 2
1 : 100



3 Refrig Section 1
1 : 100

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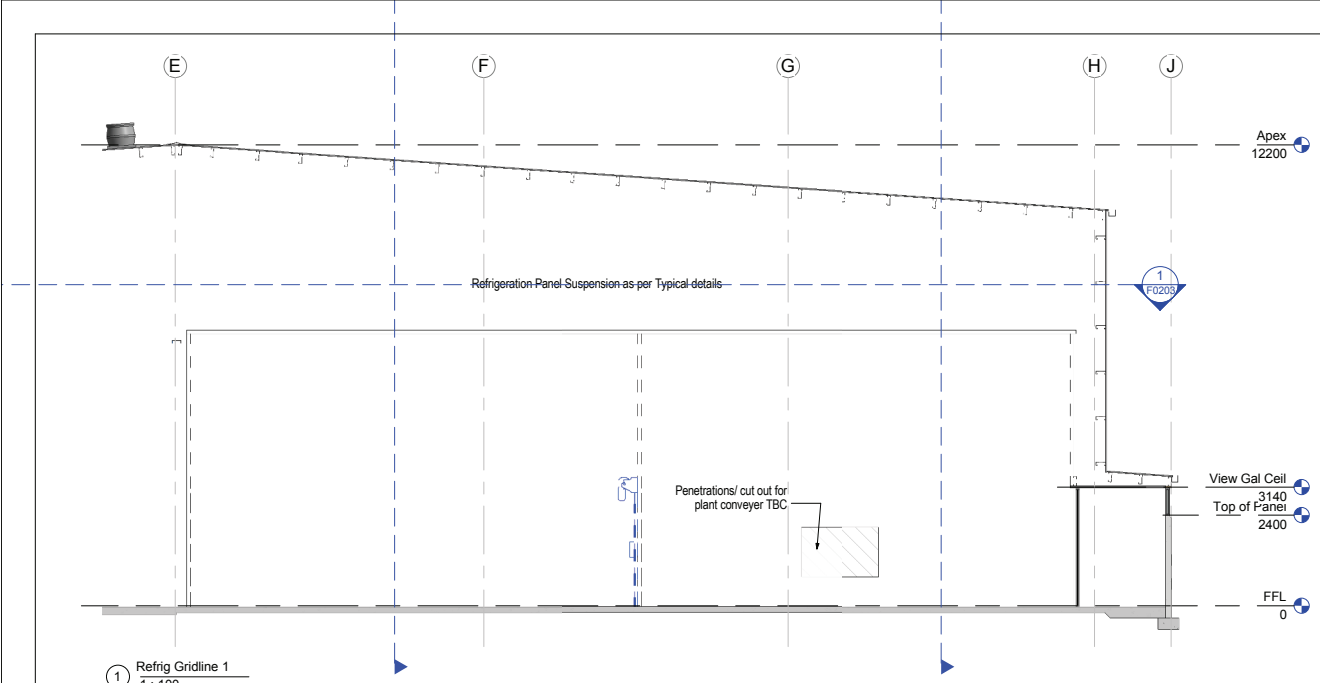
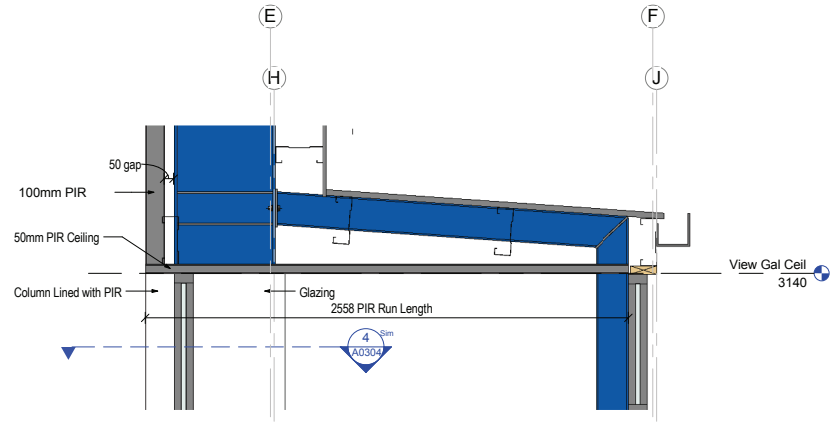
Rev#	Amendments	Date
3	Mods to Operational Fitout	09/02/16
12	Mods to operational fitout	28/07/16

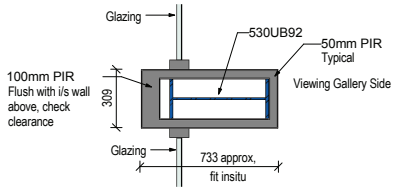
SCALE	As indicated@ A2	JOB #	12412
DRAWN BY	B.Holloway	DATE	23/01/16
APPROVED BY		REV	12
Refrig Fitout Plan and Sections			A0303
Please note: All dimensions to be verified on site		Paper size:	A2



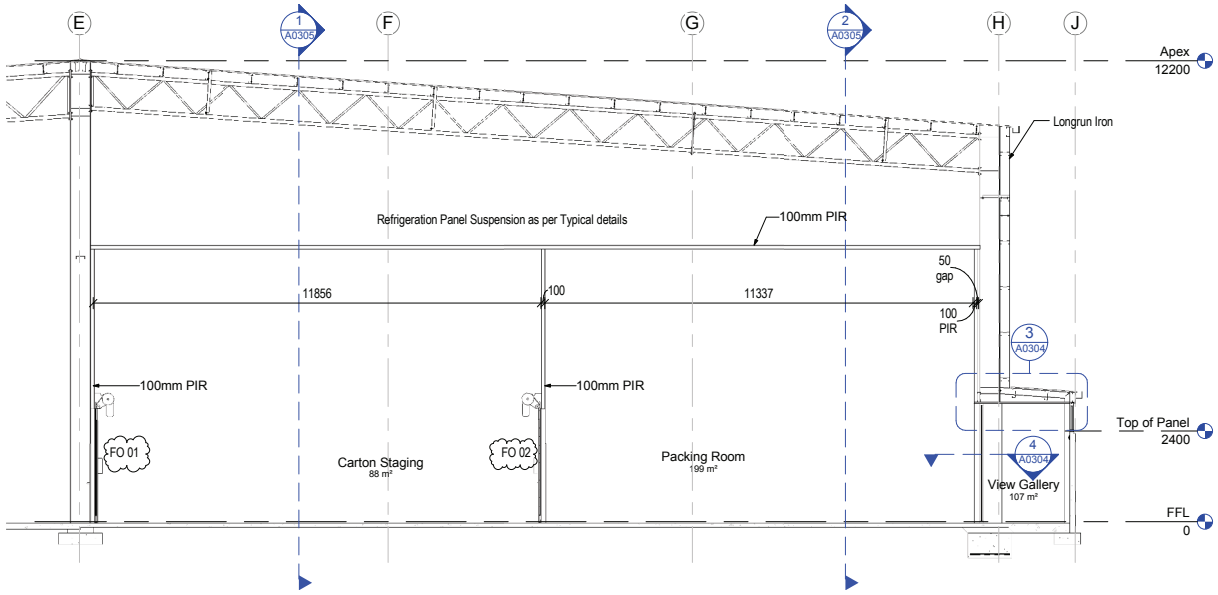
1 Refrig Gridline 1
1 : 100



3 Viewing Gallery Ceiling
1 : 20



4 530UB92 Lining
1 : 20



2 Refrig Gridline 4
1 : 100

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PROJECT

Arch

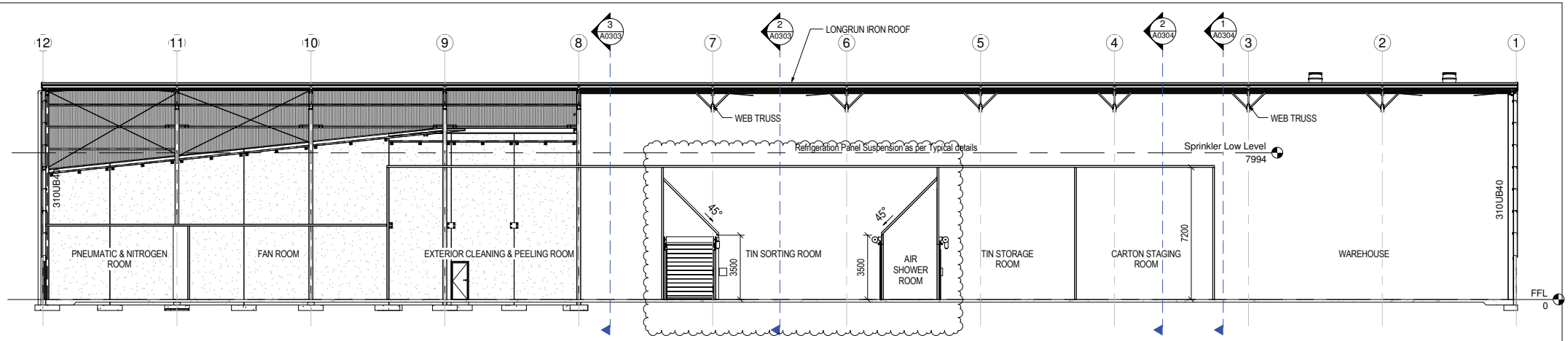
NZ Dairy Collaborative Group

Infant Formula Blending Plant

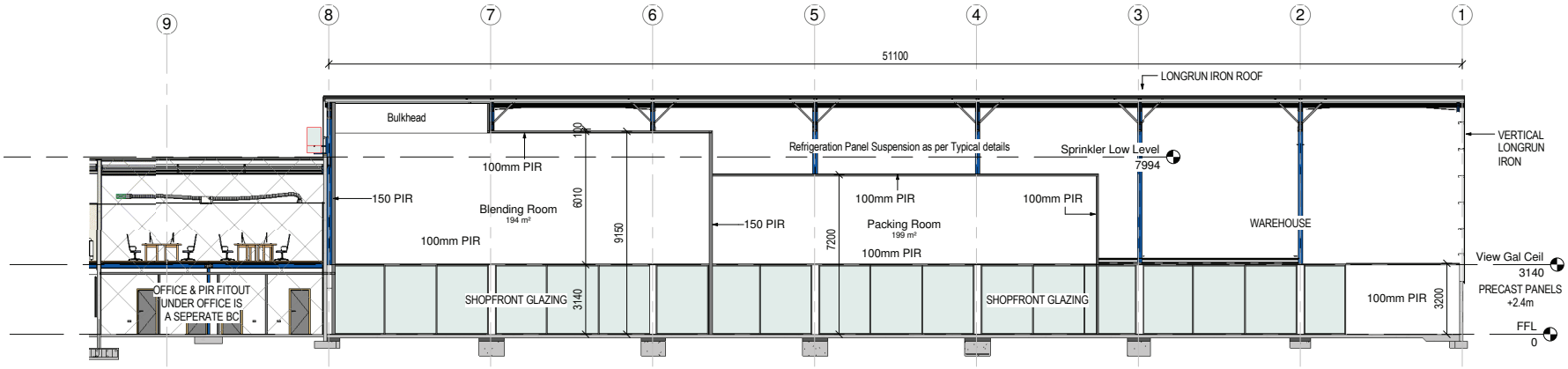
9 Ashford Ave., Ashburton

Rev#	Amendments	Date
3	Mods to Operational Fitout	09/02/16

SCALE	As indicated@ A2	JOB #	12412
DRAWN BY	B.Holloway	DATE	23/01/16
APPROVED BY		REV	3
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
12

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Rev#	Amendments	Date
3	Mods to Operational Fitout	09/02/16
12	Mods to operational fitout	28/07/16

SCALE	1 : 150 @ A2	JOB #	12412
DRAWN BY	B.Holloway	DATE	23/01/16
APPROVED BY		REV	12
Refrig Fitout Sections			A0305
Please note: All dimensions to be verified on site		Paper size:	A2