

(C)

(B)

(A)

Armstrong Eris
Suspended Tile
Ceiling 1200 x 600

Armstrong Eris
Suspended Tile
Ceiling 1200 x 600

Armstrong Eris
Suspended Tile
Ceiling 1200 x 600

Armstrong Eris
Suspended Tile
Ceiling 1200 x 600

1st Floor (Mezzanine)
3300

40mm Goldfoam
poly line with
10mm Gib

FFL
0

GL 12
1 : 100

EX W3

Lunch Room

EXIT

H1.2 90x45 @
600 φ 10mm Gib
Both sides

EX W4

Female Change Room

H1.2 90x45 @
600 φ 10mm Gib
Both sides

EX W5

Warehouse Office

40mm Goldfoam
poly line with
10mm Gib

D2

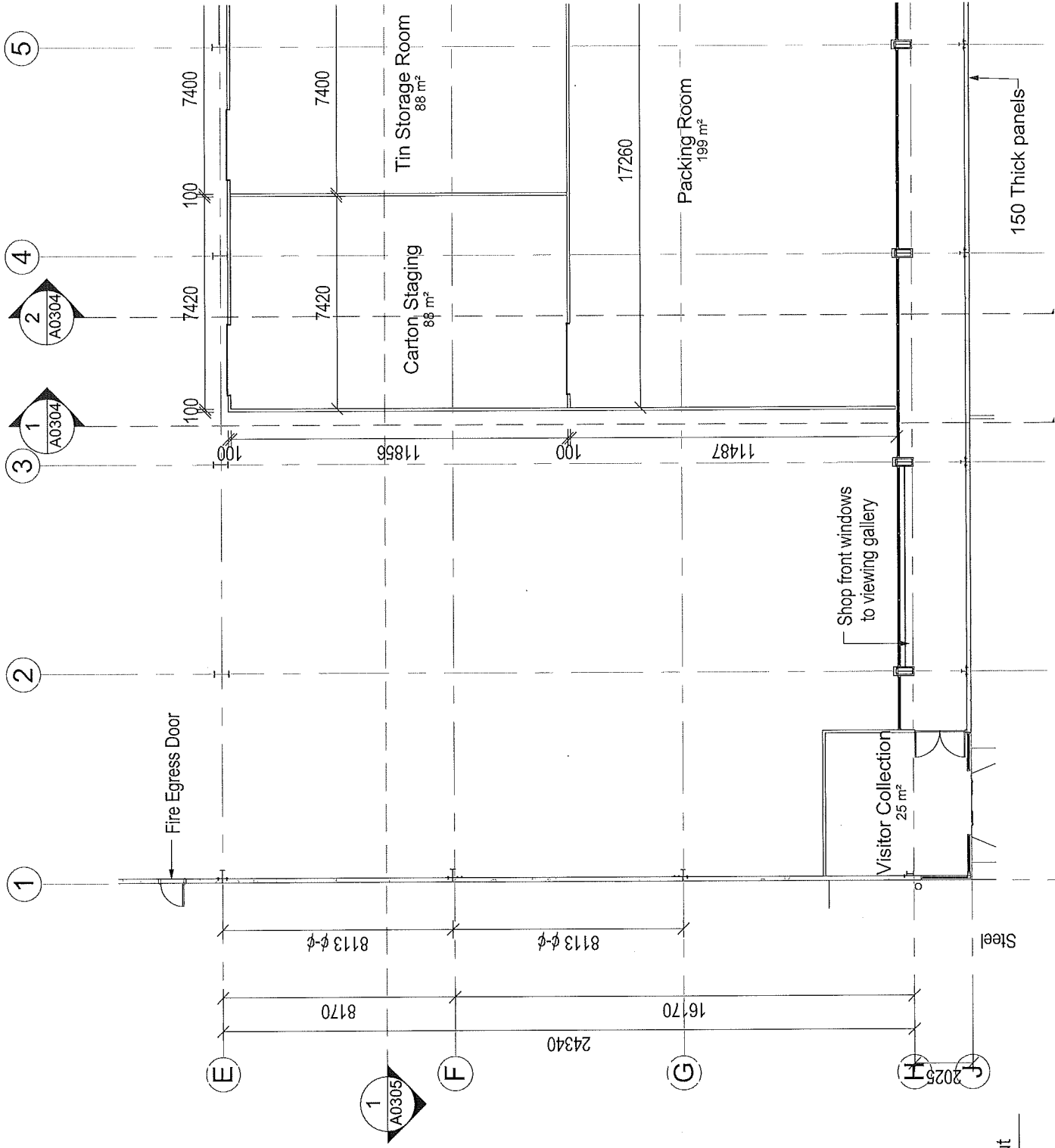
Storage

150 Thick panel

(D)

(E)

(F)



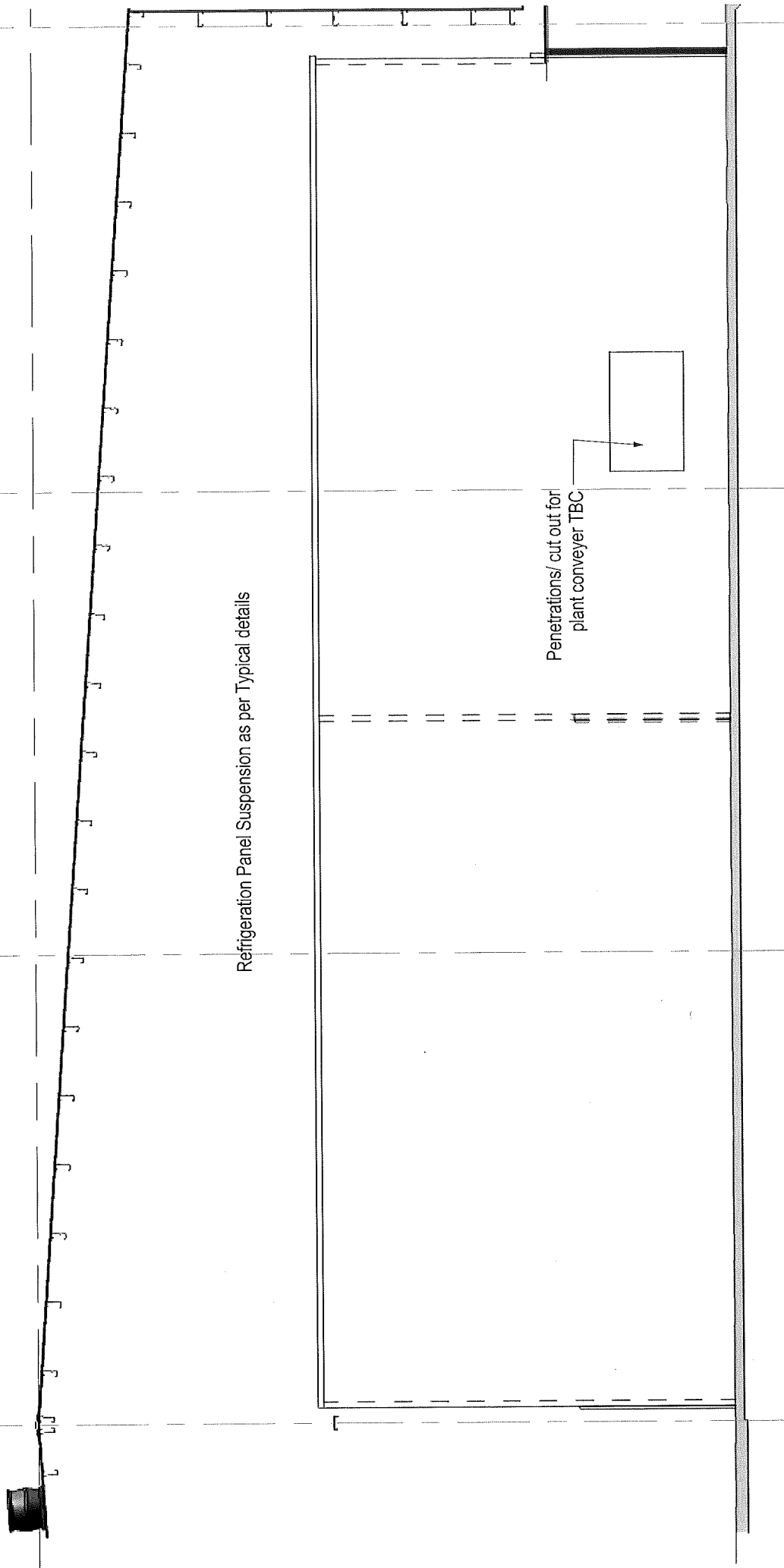
1 Floor Plan (FFL) PIR Fitout
1 : 200

(H)

(G)

(F)

(E)



Refrigeration Panel Suspension as per Typical details

Penetrations/ cut out for plant conveyer TBC

Refrig Gridline 1

1 : 100

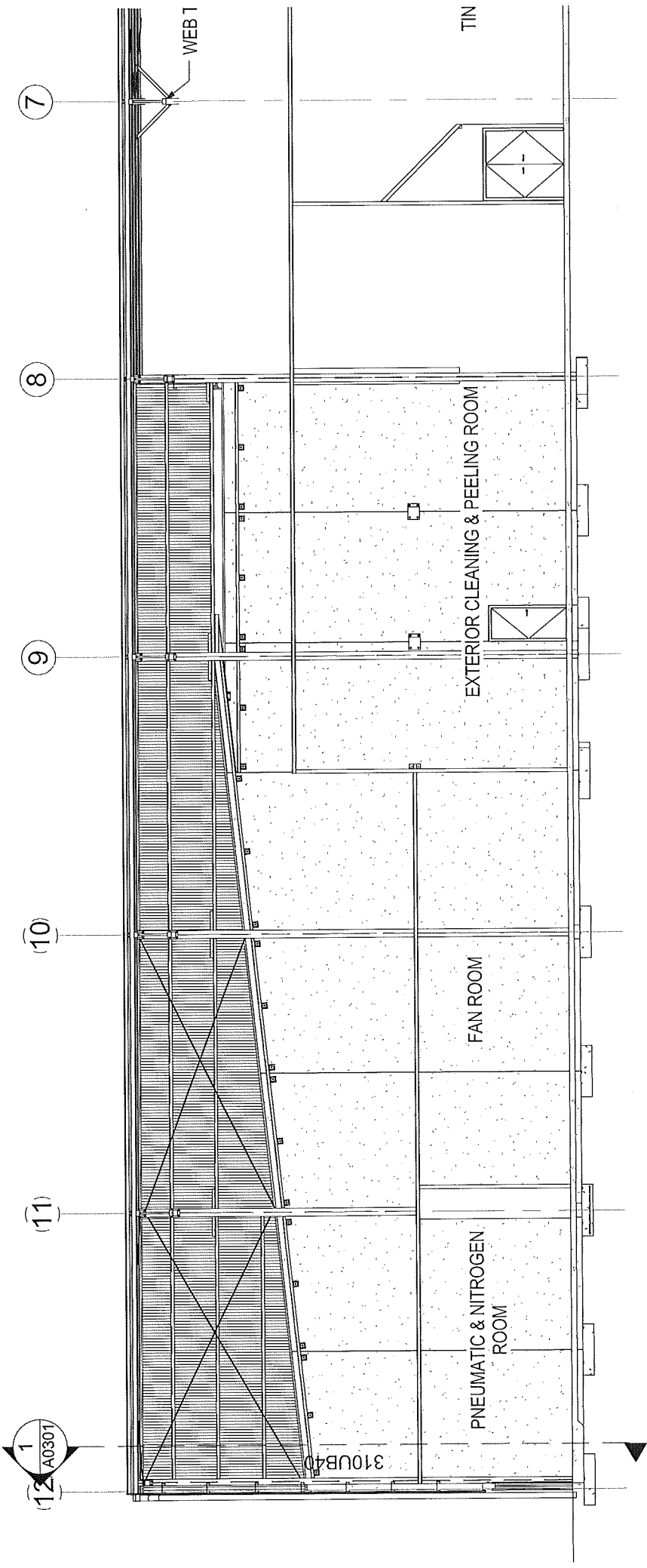
1

(H)

(G)

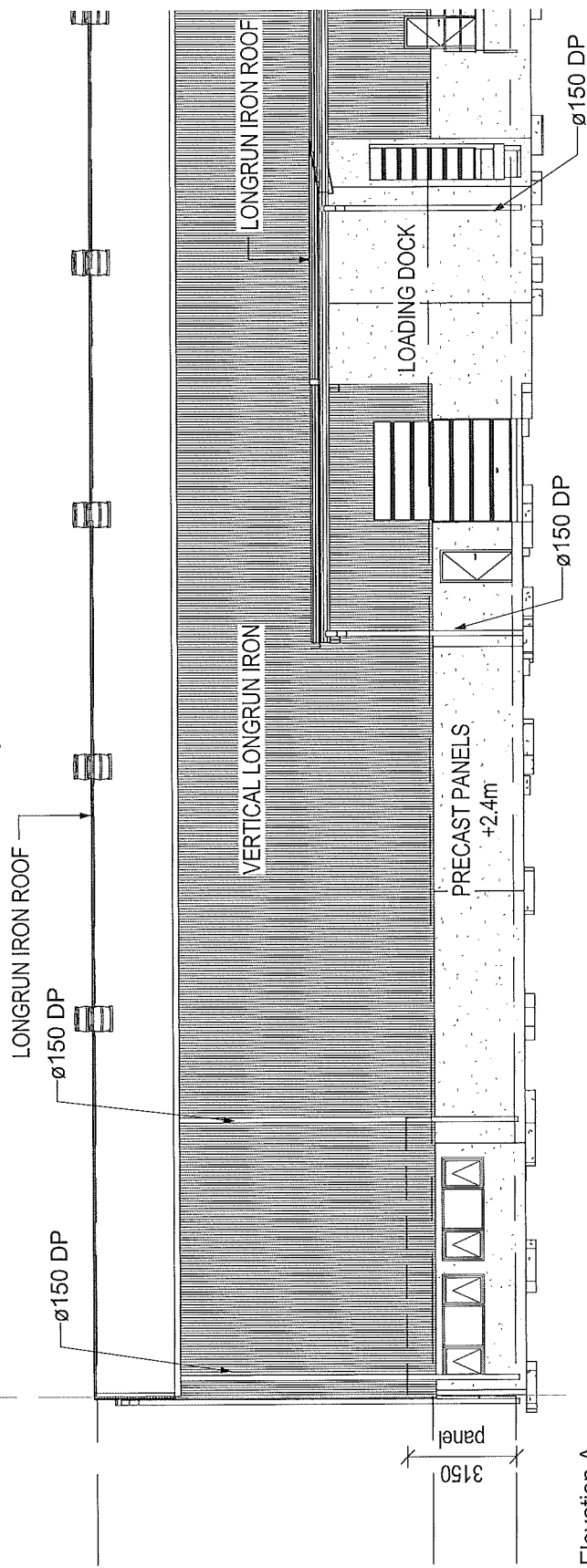
(F)

(E)

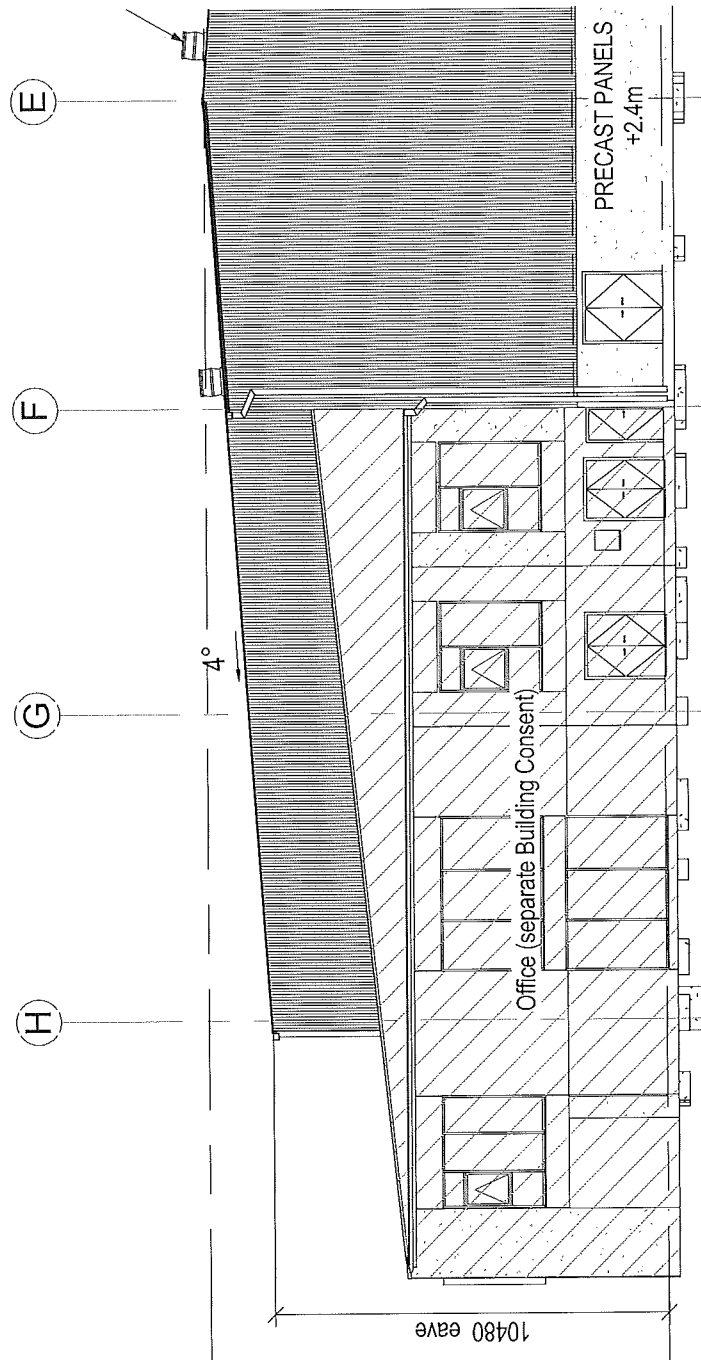


1 Refrig Gridline D
1 : 150

(12)



Elevation A
1 : 200

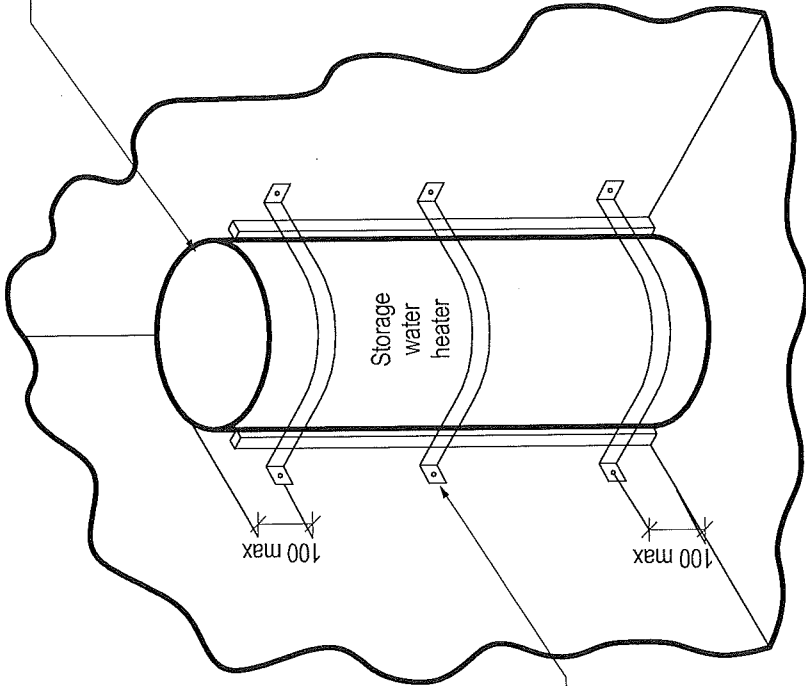


Elevation B
1 : 200

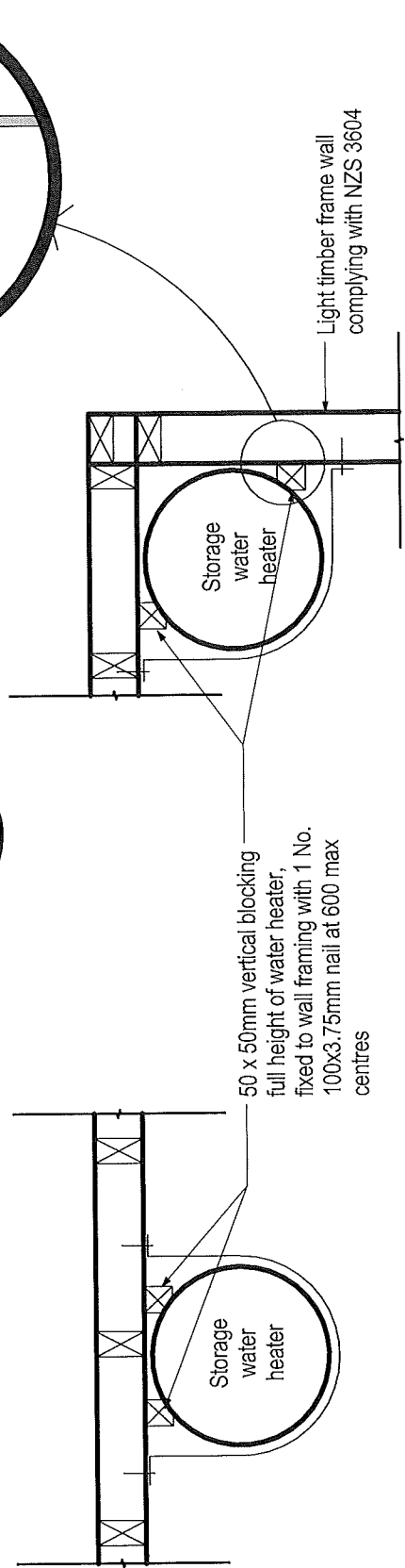
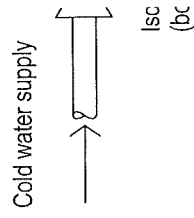
Storage water heaters to be restrained with 24 x 1mm galvanised steel straps tensioned when fixed in place. Straps to be fixed to wall framing with:

- 1 No. 8mm coach screw with 30x2mm thick washer, or
- 2 No. 20x2.5mm thick washers.

Screws to penetrate timber framing a minimum of 50mm.



Extra centre strap for water heaters exceeding 200 litres



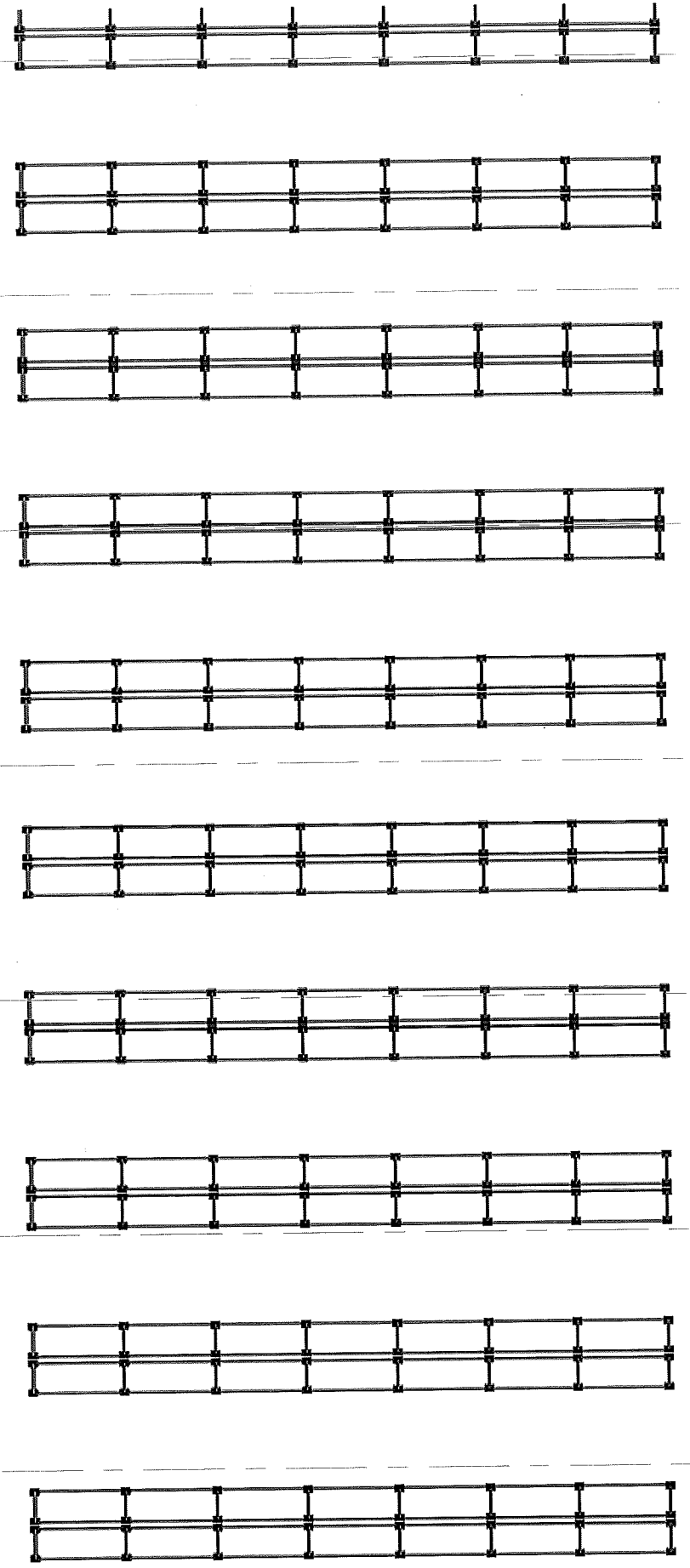
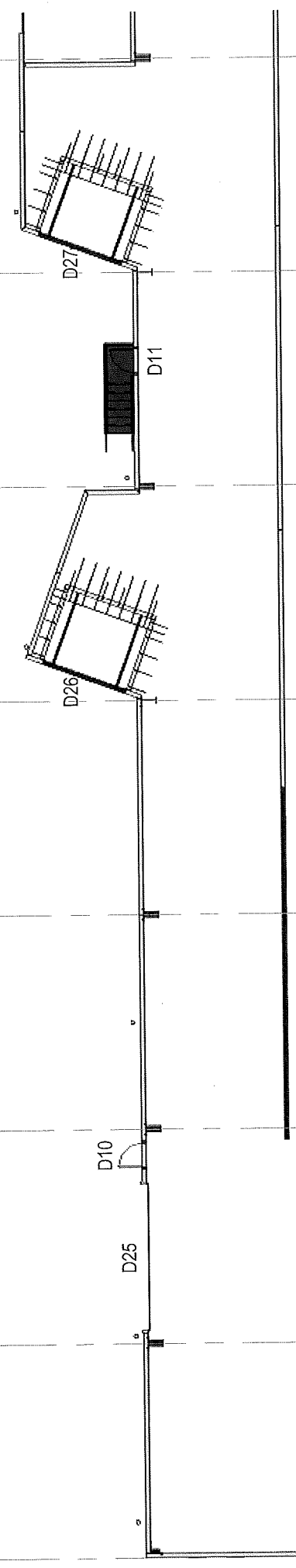
50 x 50mm vertical blocking full height of water heater, fixed to wall framing with 1 No. 100x3.75mm nail at 600 max centres

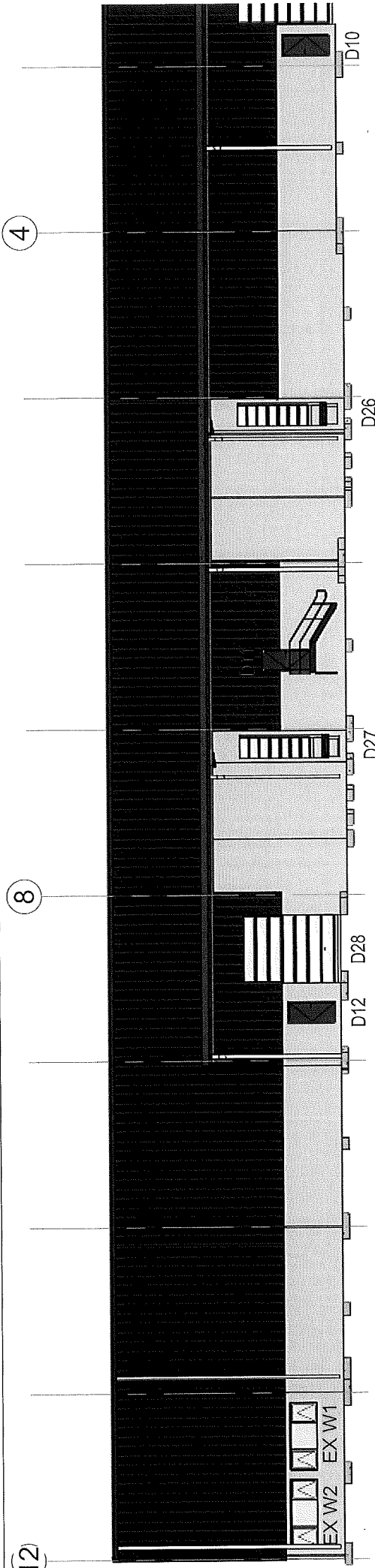
Light timber frame wall complying with NZS 3604

2 HWC (unvented)
1 : 10

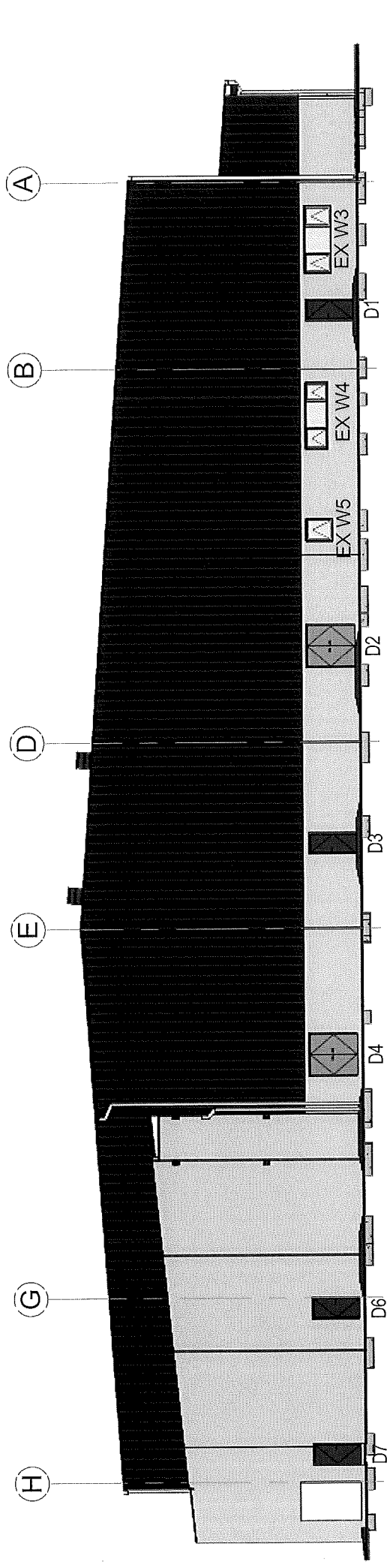
1 HWC restraint
1 : 10

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

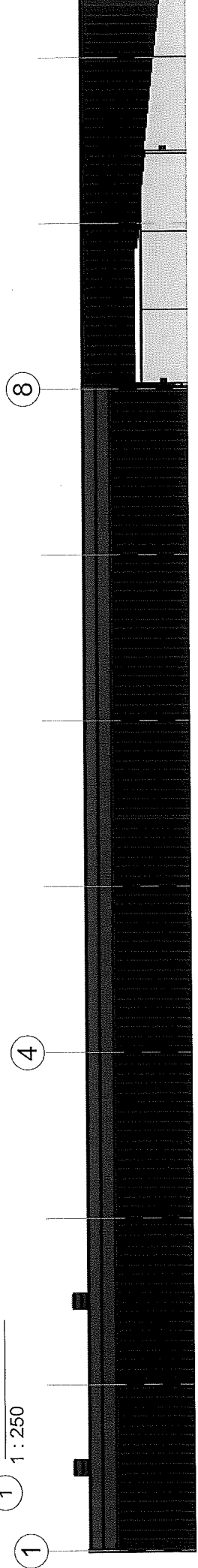


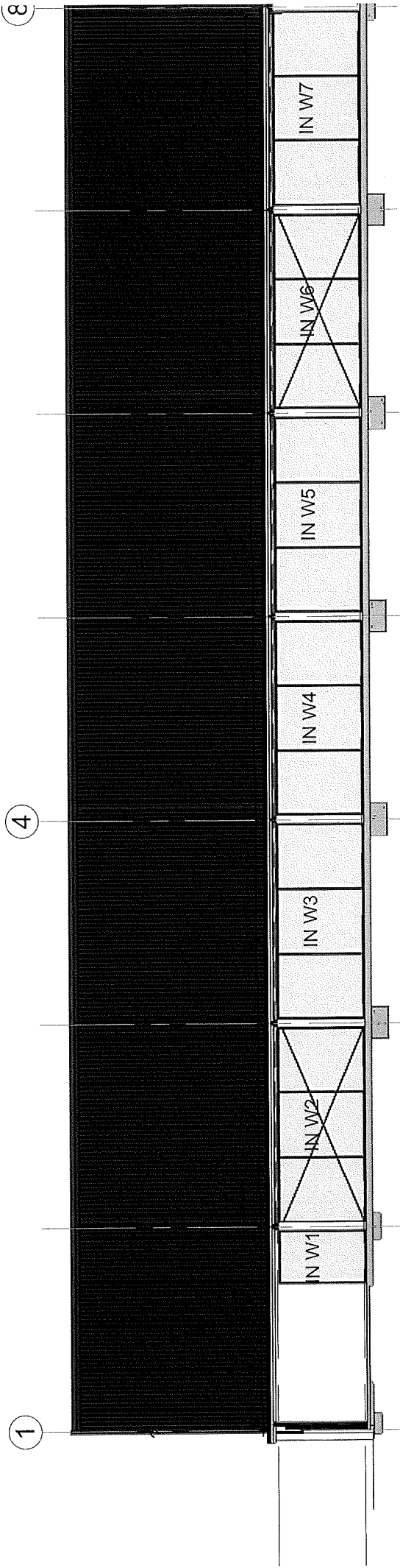


7 D&W Elevation A
1 : 250

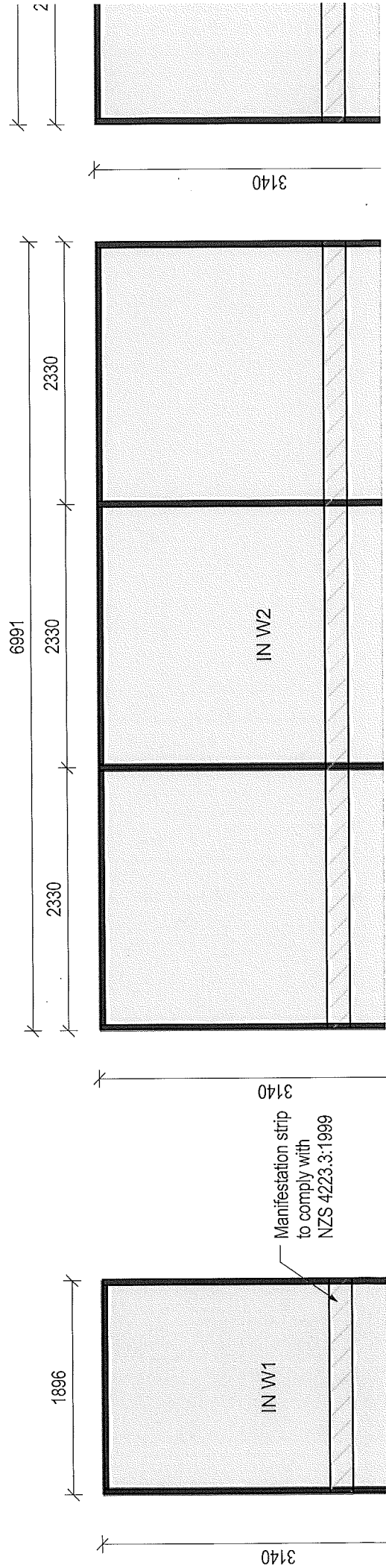


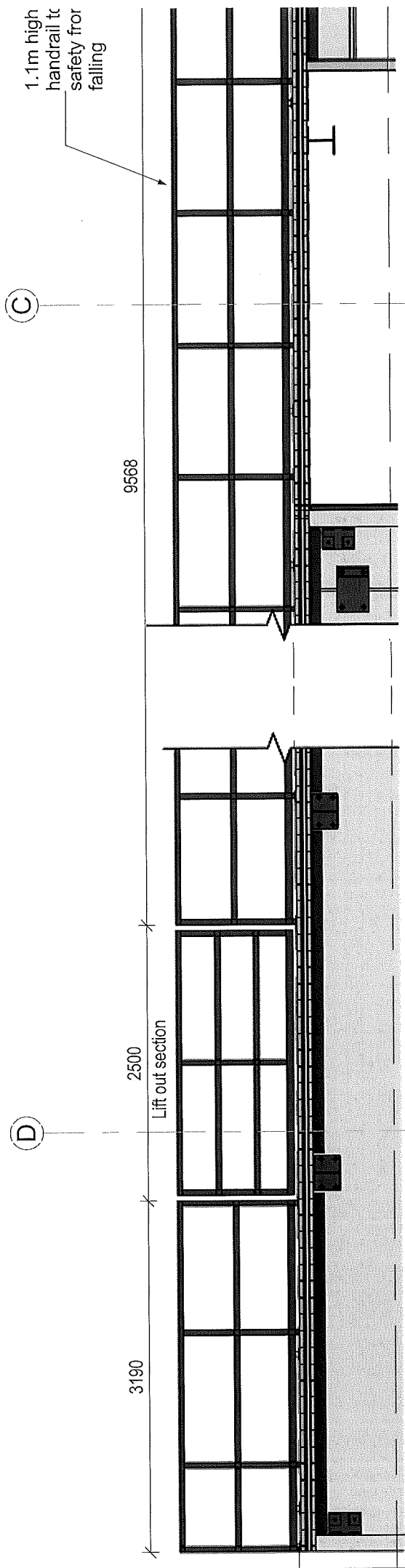
1 D&W Elevation B
1 : 250





1 Internal window elevations
1 : 200

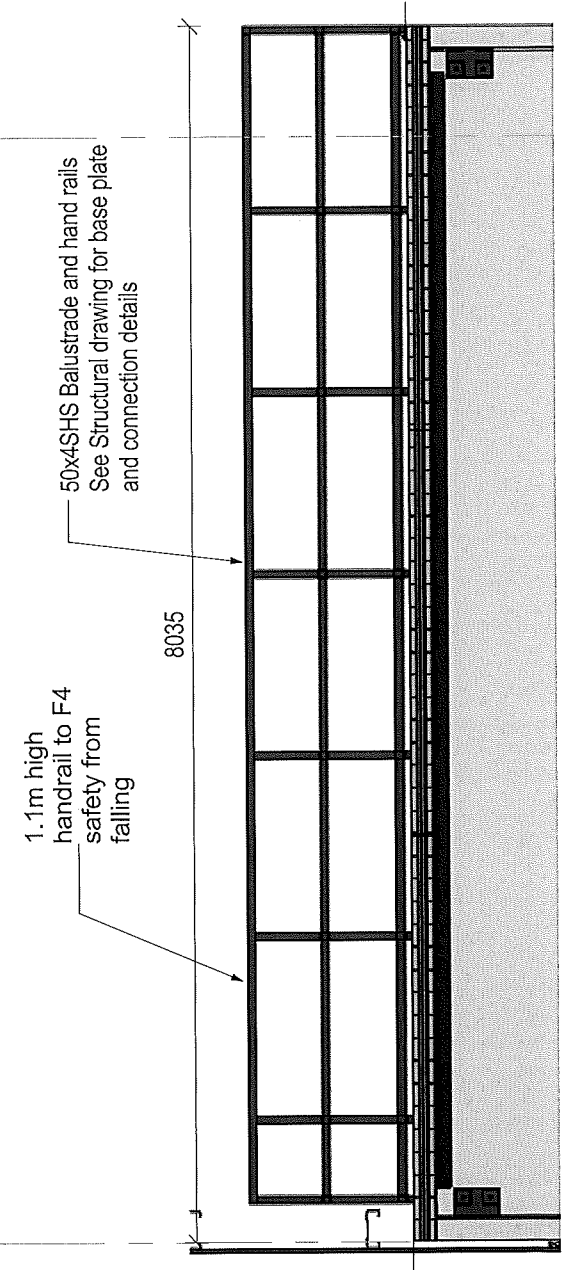




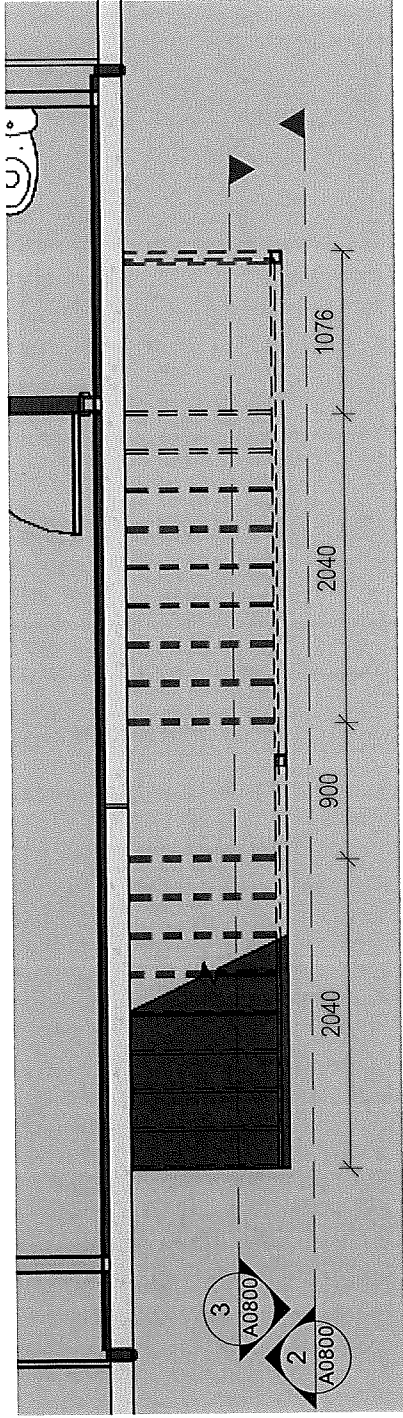
1 Handrail 1
1 : 50

(11)

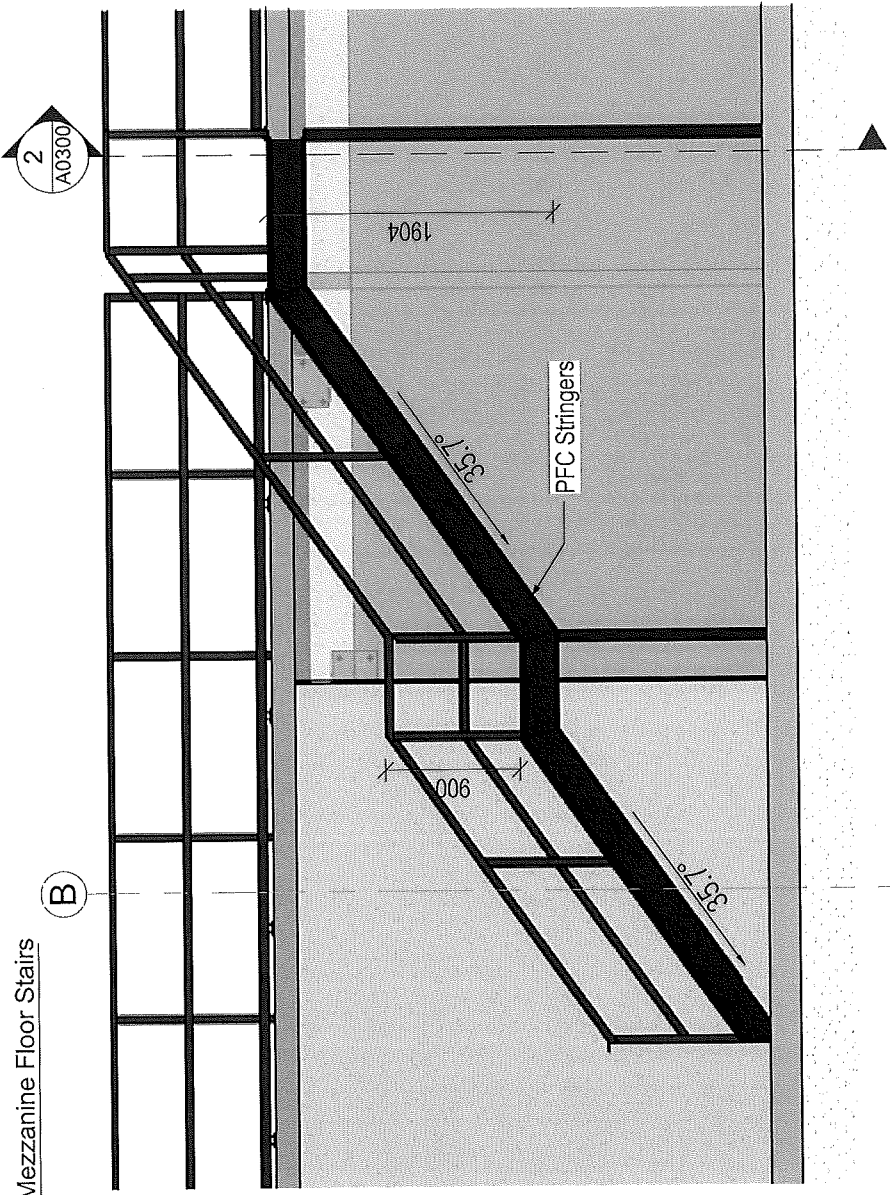
(12)



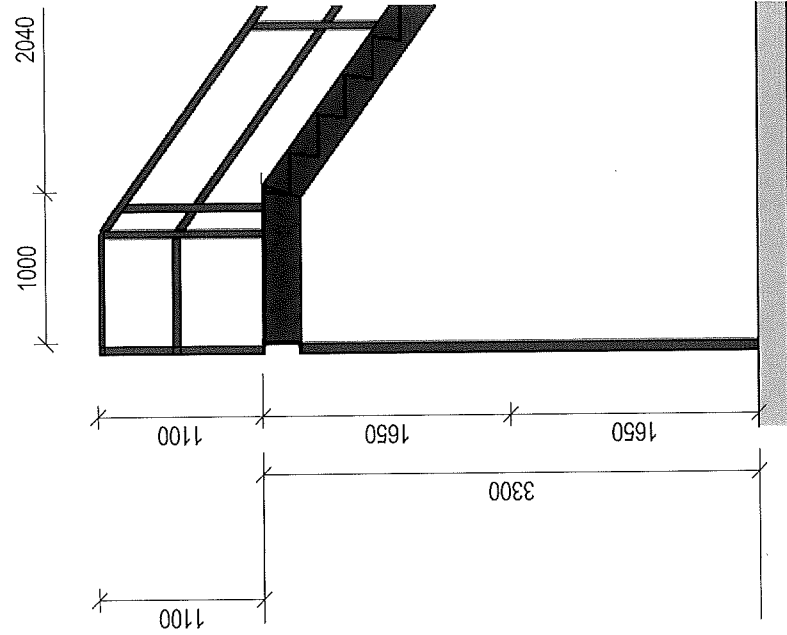
1st Floor (Mezzanine)
3300



1 PLAN : Mezzanine Floor Stairs
A0200 1 : 50



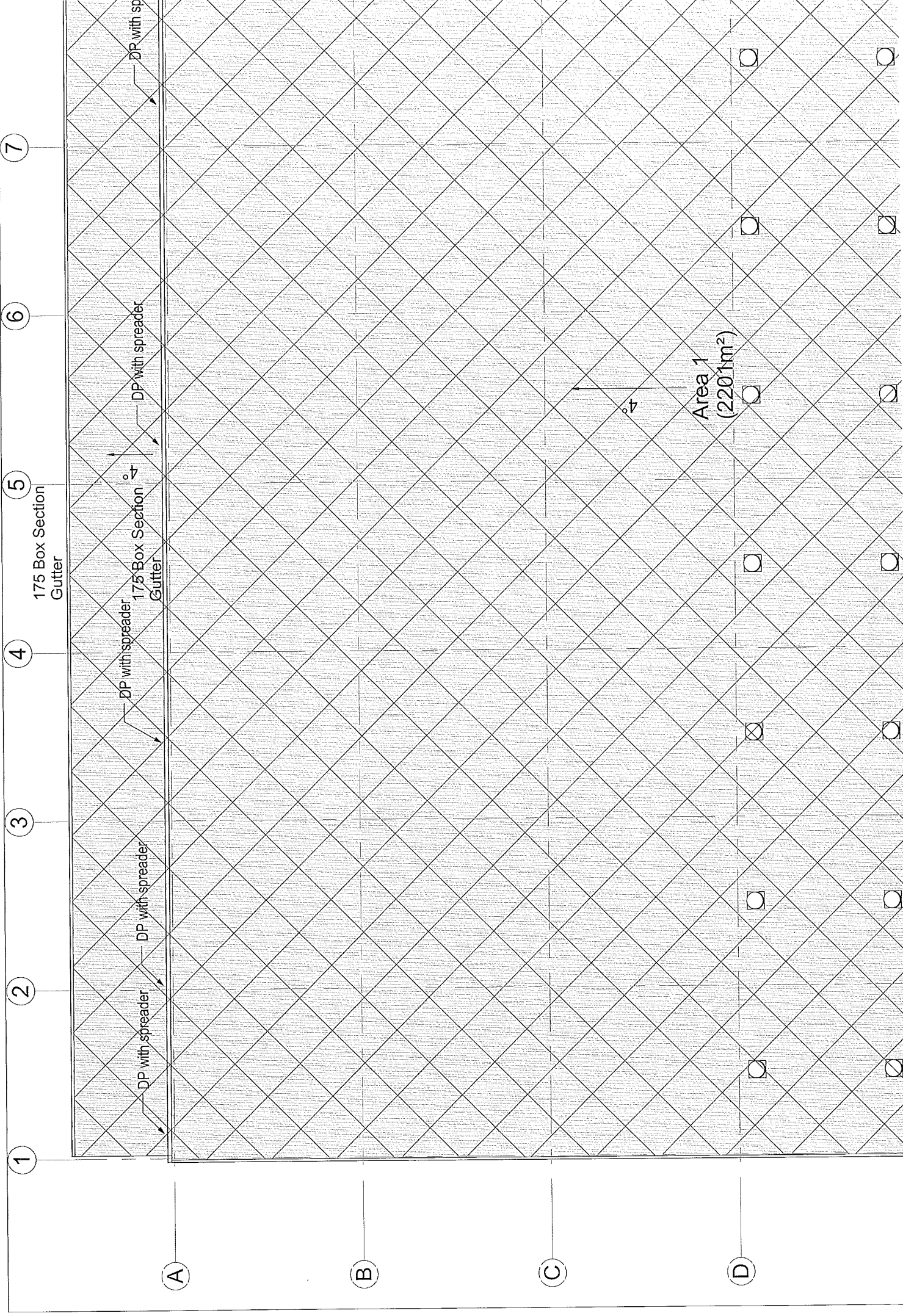
2 DETAIL : Mezzanine Floor Stairs
A0800 1 : 50



3 SECTION
A0300 1 : 50

1st Floor (Mezzanine)
3300

FFL
0



7

6

5

4

3

2

1

175 Box Section
Gutter

175 Box Section
Gutter

DP with spreader

DP with sp

DP with spreader

DP with spreader

DP with spreader

Area 1
(2201m²)

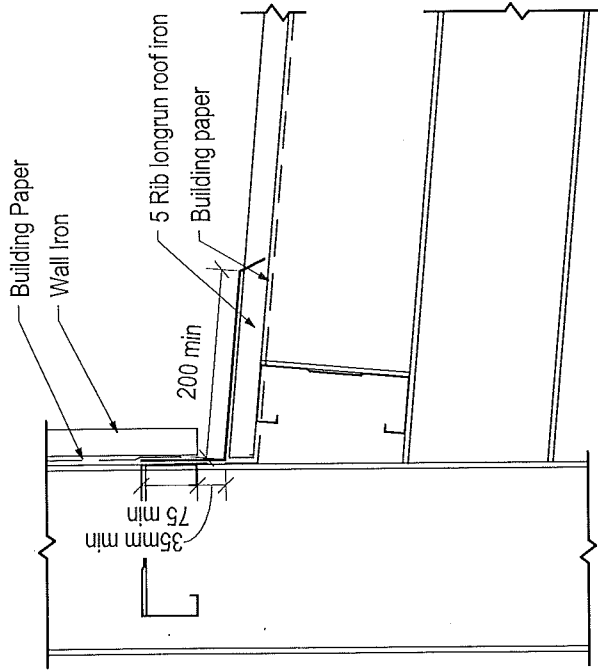
2%

A

B

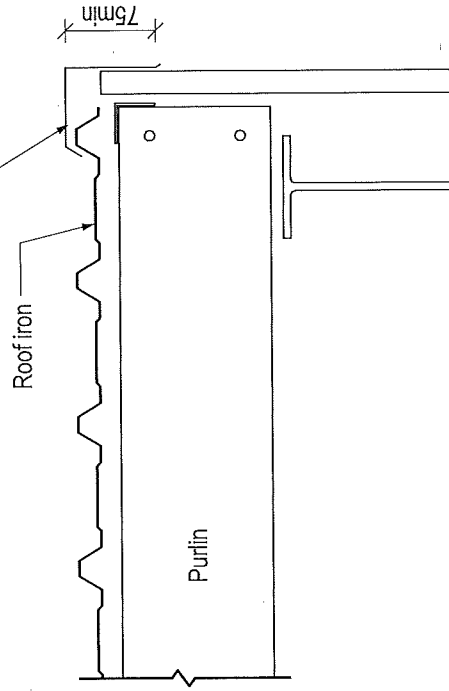
C

D

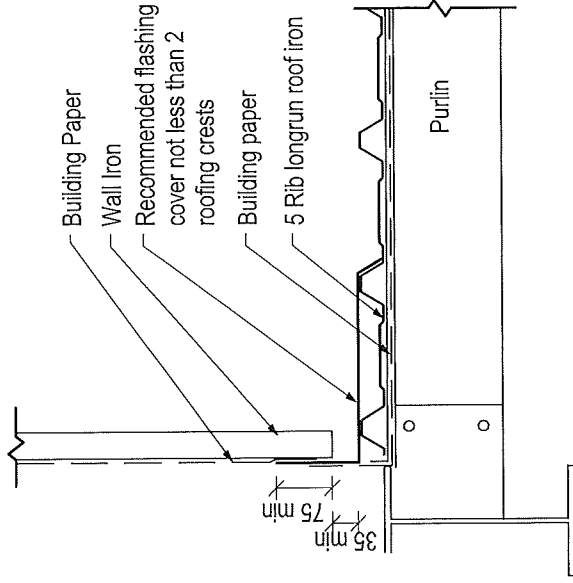


1 Apron Flashing to iron away
1 : 10

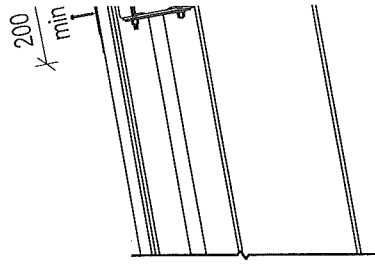
Barge Flashing min one bump as per NZ
Roof and wall cladding code of practice
Flashing's 5 drawing 5.2.C



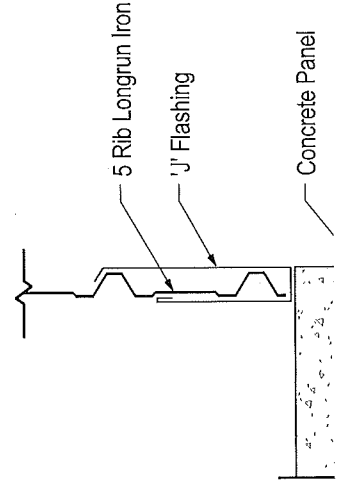
2 Apron Flashing to iron
1 : 10



3 Ridge Flashing Detail
1 : 20



DPC on
compactec
hardfill to S

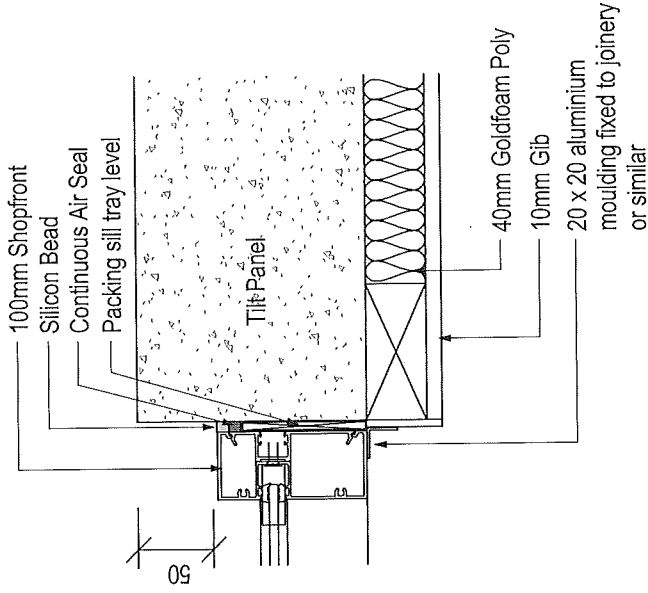


10mm G
40mm G

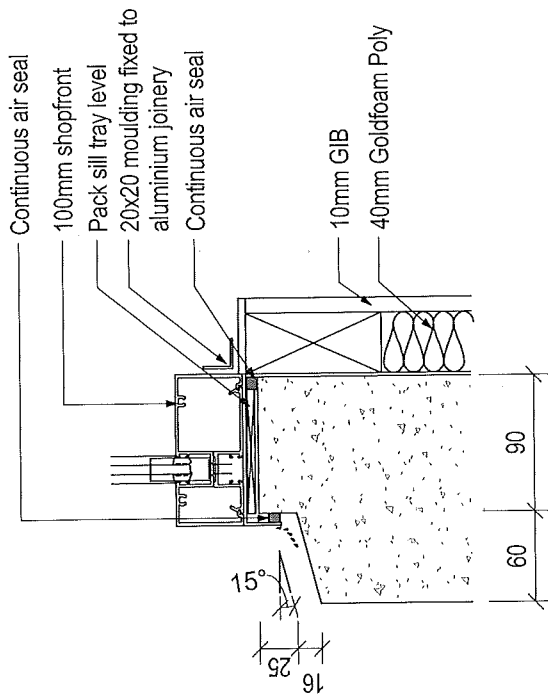
20 x 20 aluminium
moulding
or similar

Packing
Continuc
Drip Edg
Silicon B
100mm :

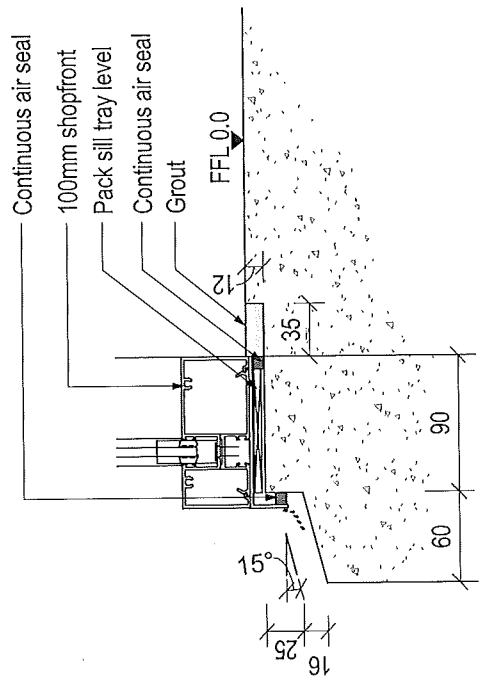
COMME



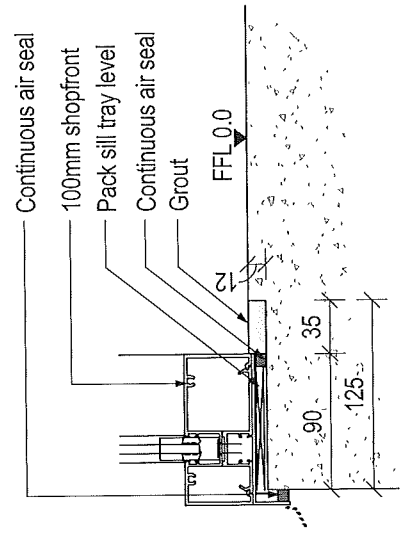
COMMERCIAL JAMB DETAIL



COMMERCIAL SILL DETAIL ABOVE FFL



COMMERCIAL SILL DETAIL AT FFL IN PRECAST PANEL



COMMERCIAL SILL DETAIL AT FFL STANDARD FOUNDATION EDGE

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

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

Wall Area	Glazing Area
South 20m ²	South N/A (borders to factory)
East 490m ²	East 17m ²
West 490m ²	West N/A (borders to factory)
Total Wall Area 1000m ²	Total Glazing Area 17m ²

Glazed Area = 0.17% of total wall area

if less than 30% then schedule method is OK

Climate Zone 3

SCHEDULE METHOD VM H1/MM1

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	Complies
Roof	R 3.5	R 3.59	Complies
Wall	R 1.2	R 1.31	Complies
Floor	R 1.5	R 2.5	Complies
Glazing	R 0.26	R0.26	Complies

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

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

Name:

Floortype 1

Floor: Slab floor

Type:

Slab floor

internal surface I

Flooring : 50-100mm Concrete Topping Scr

R-value: 0.04

Slab Insulation

Slab floor area [m²]:

140

Perimeter length [m]:

51.8

External wall thickness [mm]:

800

Soil conductivity [W/m °C]:

1.2

Underslab insulation:

none

Piles Footings:

Number:

Slab edge insulation:

none

Name:

Walltype 1

Type: Wall: Solid wall (concrete, masonry or other) without venti

Type:

Solid wall (concrete, masonry or other) without vented ca

external su



Robert Banks

RECEIVED

27 JUL 2016

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

Approved Building
Consent Documents

0037/16

Good afternoon Robert

Ashburton District Council

BC BC0429/16 9 Ashford Avenue, Ashburton

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

Thank you

Kind Regards
Annelies Cloake



Variation
Robert Banks
Building Official
Ashburton District Council

Thompson Engineering 2002 Ltd

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

Annelies,

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

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

Regards,

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

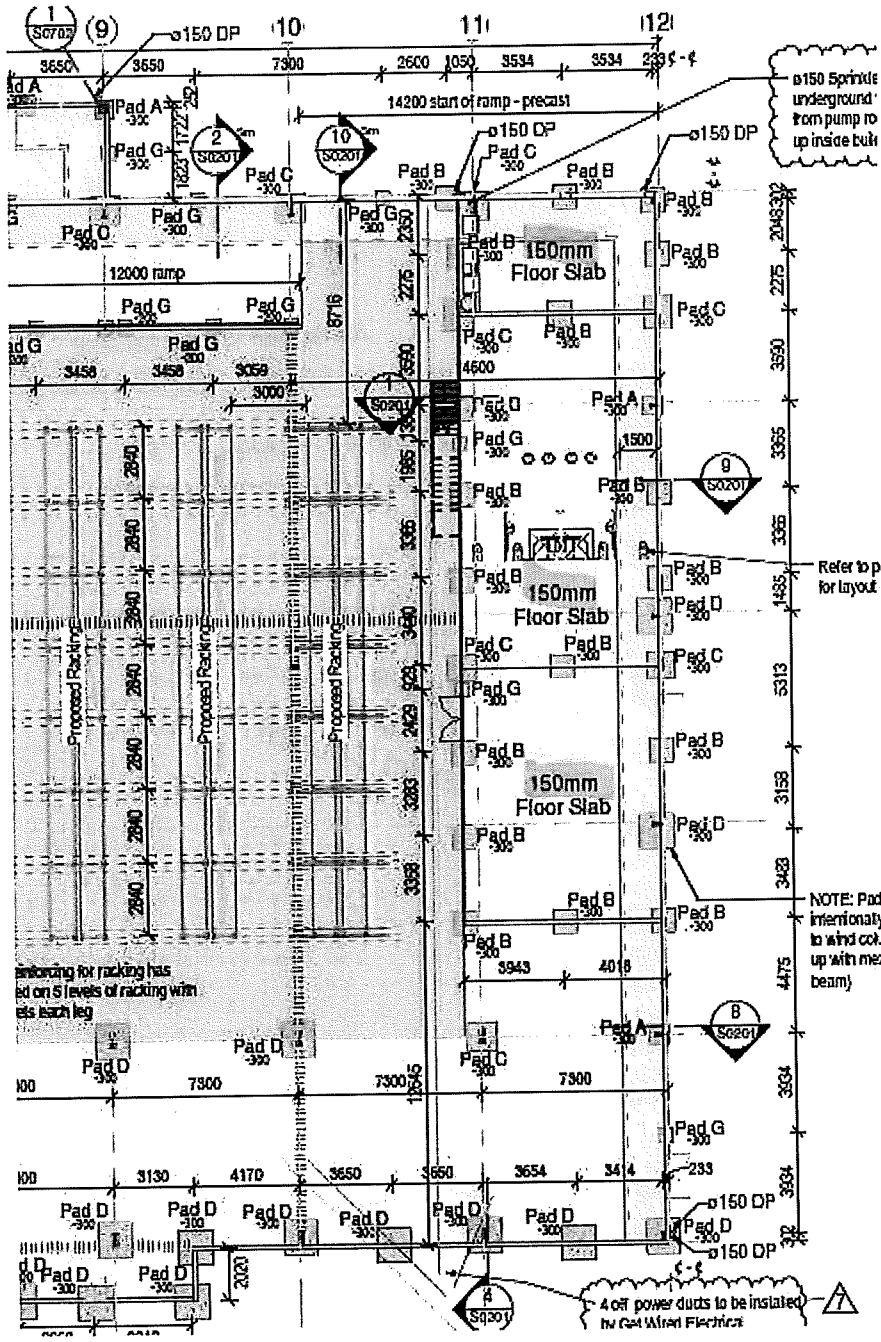
Phone: 03 683 9005 | Address: 9a Meadows Road, Washdyke, Timaru | Post: PO Box 2194, Washdyke, Timaru 7941

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

Hi Andrew

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

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



RECEIVED
27 JUL 2016
BY: _____

Approved Building
General Documents

0037/16

Ashburton District Council

Variation
Robert Banks
Building Official
Ashburton District Council

Thank you ☺
Kind Regards
Annelies Cloake



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



Amended Building Consent

Application Form

(Only complete items that are applicable to your project)

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

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

Application		
I request that you issue an amendment to a Building Consent already issued for the building work described in this application.		
Original Building Consent Number: BC0037/16		
Building Information		
Building Name (if any): NZ Dairy Collaborative Infant Formula Plant		
Street Address (or Rapid Number): 9 Ashford Avenue Ashburton District		
Lot No: 17	DP No: 427688	
Number of Levels: 2	Level/Unit Number: N/a	
Legal Description: Lot 17 DP427688	Valuation Roll Number: 2443034858	
Approx. year building first construction? 2016		
Total Floor Area (all floors)	Existing(m2): 5447	Add(m2): 50m ²
The Project		
Description of amended work: New Steel grating platform, with service stairs to hold Air Handling Units for processing plant		
Estimated value of amended work (including GST): \$90000		
In addition to, or reduction from, what was stated with the original application:		
Addition <input checked="" type="checkbox"/>	Reduction <input type="checkbox"/>	No Change <input type="checkbox"/>
Associated Resource Consents (Please provide project reference numbers):		
Owner Information		
Owner Name: NZ Dairy Collaborative Group		
Contact Person (if owner is not an individual): Tim Ross, Architype (on behalf of Solomon Ling)		
Mailing / Billing Address: 7 Bath Street, Dunedin 9016		
Street Address / Registered Office:		
Daytime Phone Number: 03 552 0621	After Hours Number:	
Email: tim@architype.co.nz	Mobile Number: 021 069 2404	

Agent Information

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

Agent Name: Thompson Construction and Engineering

Mailing / Billing Address: PO Box 2081, Washdyke

Street Address / Registered Office: 9b Meadows Road, Washdyke, Timaru

Daytime Phone Number: 03 688 7164

After Hours Number:

Email: design@thompsonltd.co.nz

Mobile Number:

Key Personnel / Licensed Building Practitioners Details

Builder Thompson Construction and Engineering

Name of Builder: Thompson Construction and Engineering

Registration Number: N/A

Mailing Address: PO Box 2081, Washdyke

Email: design@thompsonltd.co.nz

Daytime Phone Number: 03 688 7164

Craftsman Plumber N/a

Name of Craftsman Plumber:

Registration Number:

Mailing Address:

Email:

Daytime Phone Number:

Registered Drainlayer N/A

Name of Registered Drainlayer:

Registration Number:

Mailing Address:

Email:

Daytime Phone Number:

Craftsman Gasfitter N/A

Name of Craftsman Gasfitter:

Registration Number:

Mailing Address:

Email:

Daytime Phone Number:

Designer Chapman Consulting Engineers		
Name of Designer: Andrew Chapman		
Registration Number: 9b Meadows Road Washdyke		
Mailing Address: 9b Meadows Road Washdyke		
Email: andrew@chapmanengineers.co.nz	Daytime Phone Number: 036839005	
Engineer Chapman Consulting Engineers		
Name of Engineer: Andrew Chapman		
Registration Number: CPEng 1006515		
Mailing Address: 9b Meadows Road Washdyke		
Email: andrew@chapmanengineers.co.nz	Daytime Phone Number: 03 6839005	
Other		
Has the engineer provided a Producer Statement – Design?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Has the engineer been engaged to carry out site inspections on the job? <i>(If yes, this must be specified on the Producer Statement)</i>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Notes by the Applicant		
(Other notes or comments which you as the applicant may wish to add)		
Required Attachments		
Tick the documents you have attached with this application.		
<input type="checkbox"/>	Certificate of Title (less than 6 months old) <i>(Evidence of ownership)</i>	
<input type="checkbox"/>	Sale and Purchase Agreement <i>(Evidence of ownership)</i> Has Not Changed	
<input type="checkbox"/>	Lease <i>(Evidence of ownership)</i>	
<input type="checkbox"/>	Current Rates Demand <i>(Evidence of ownership)</i>	
<input type="checkbox"/>	Project Information Memorandum	
<input checked="" type="checkbox"/>	2 copies of the original consented plans that are to be amended, showing all construction details, with amendments highlighted or clouded.	
<input checked="" type="checkbox"/>	Amendment Application Fee \$97.00	

Method of Payment

Cash Cheque Eftpos
Credit Card Direct Credit

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

Signature

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

Signature:



Date:

30/03/2017

Please print your name:

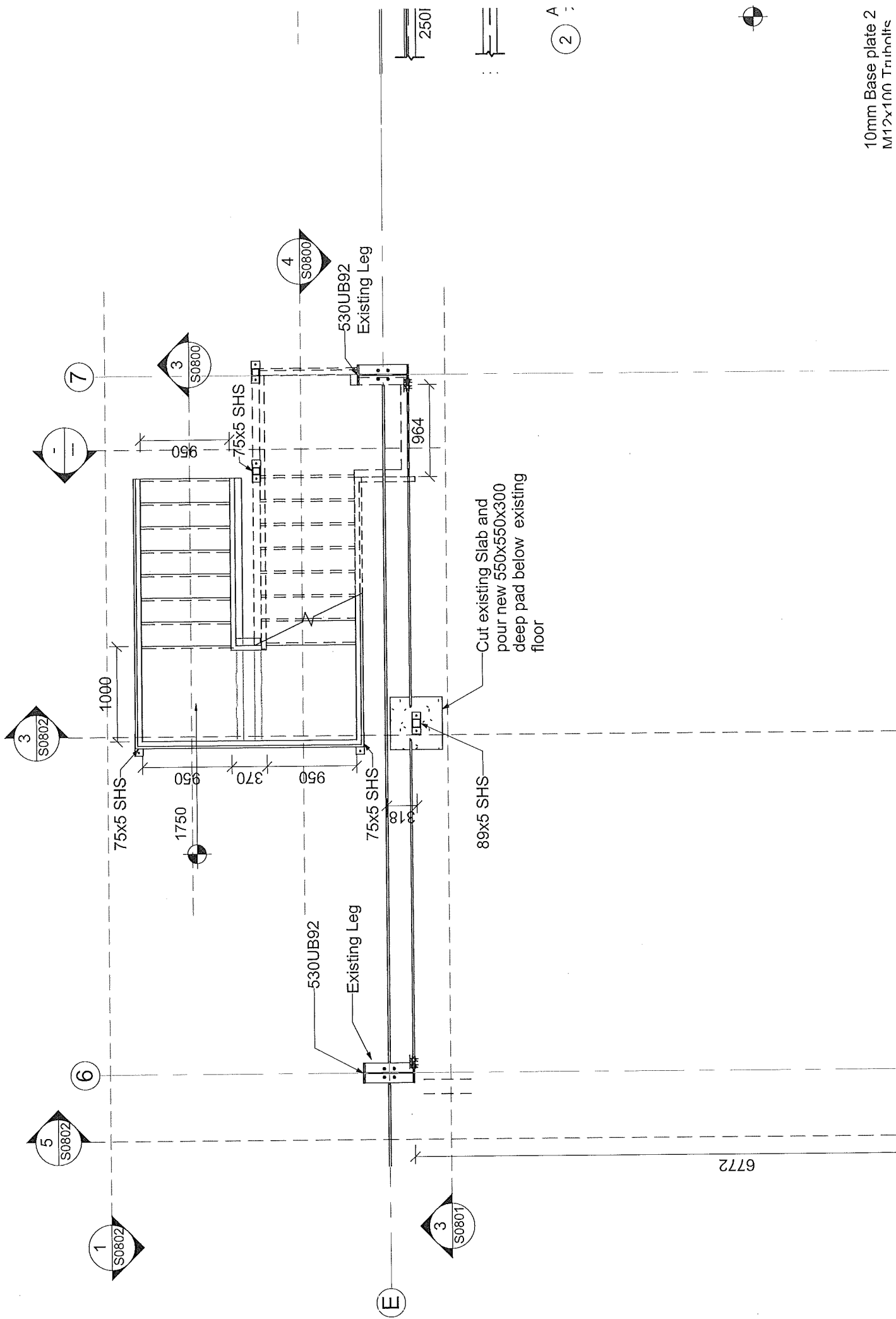
Annelies Cloake

Owner

Agent

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

Office Use Only		
Application complete?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Application fee received?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Receipt Number:		
Notes		
1. This does not apply to building consents that already have a Code of Compliance Certificate issued.		
2. This application is for construction changes to issued building consents. It is not intended to be used where the scope of work is extended.		
3. Processing fees (plus any additional Building or Building Research Levies are to be paid before any work covered by the amendment may proceed.		



6

7

7300

7091

230PFC

Existing bracing RB20

RB20 Existing bracing

530UB92

530UB92

530UB92

1100 high hand rail

1500KGS

100

3540

3100

2500

5
S0802

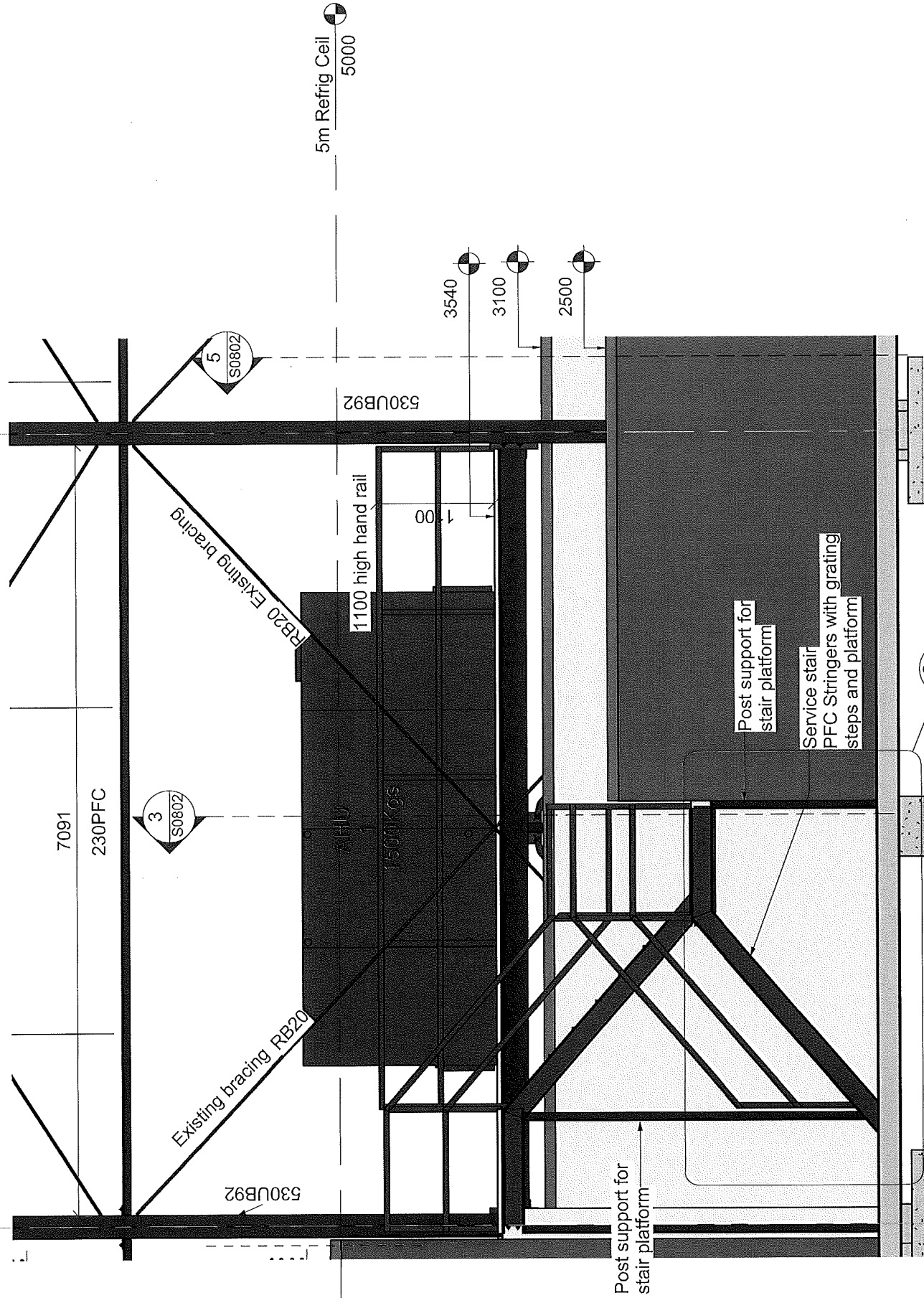
3
S0802

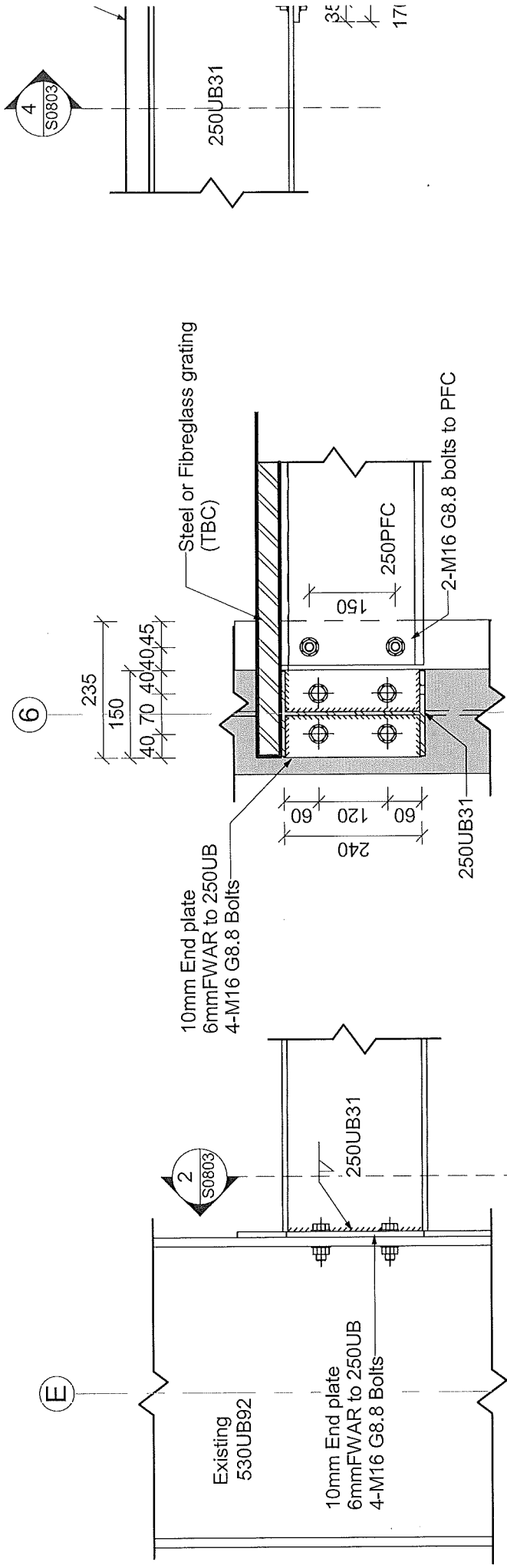
5m Refrig Ceil
5000

Post support for
stair platform

Post support for
stair platform

Service stair
PFC Stringers with grating
steps and platform

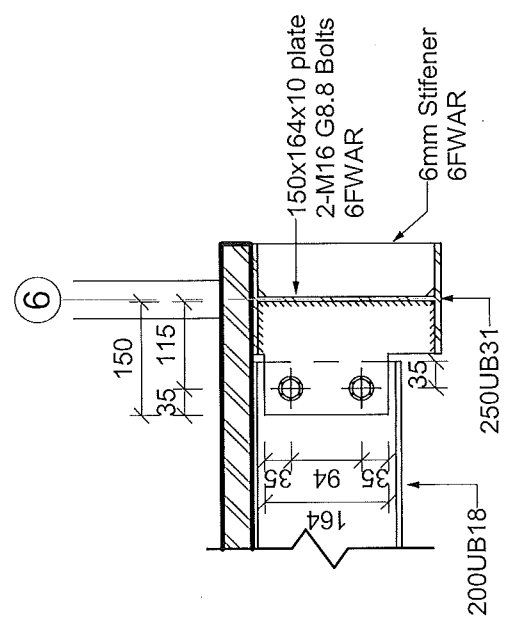




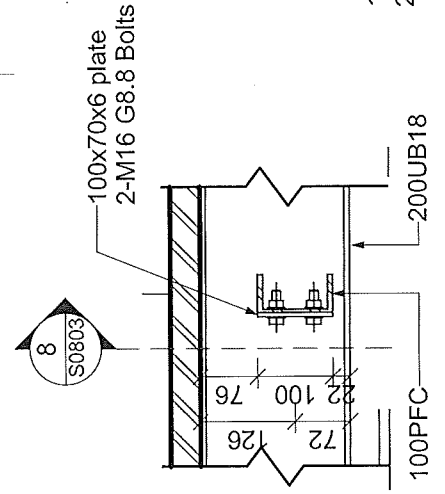
1 250UB To existing leg detail
1 : 10

2 PFC to UB Connection
1 : 10

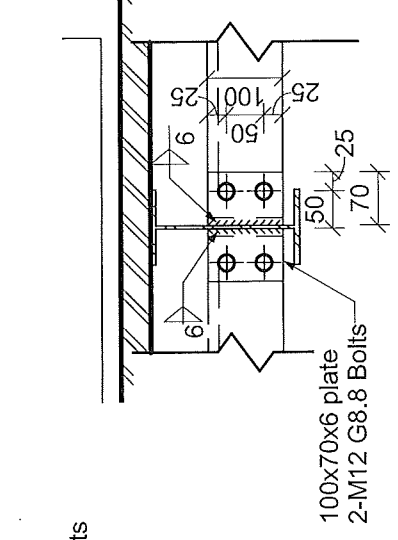
3 Post to 250UB detail
1 : 10



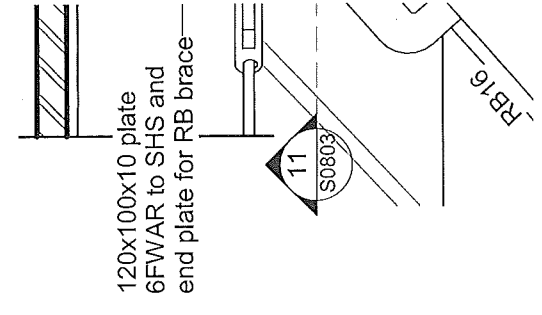
6 Typ. 250-200UB Share plate connection
1 : 10



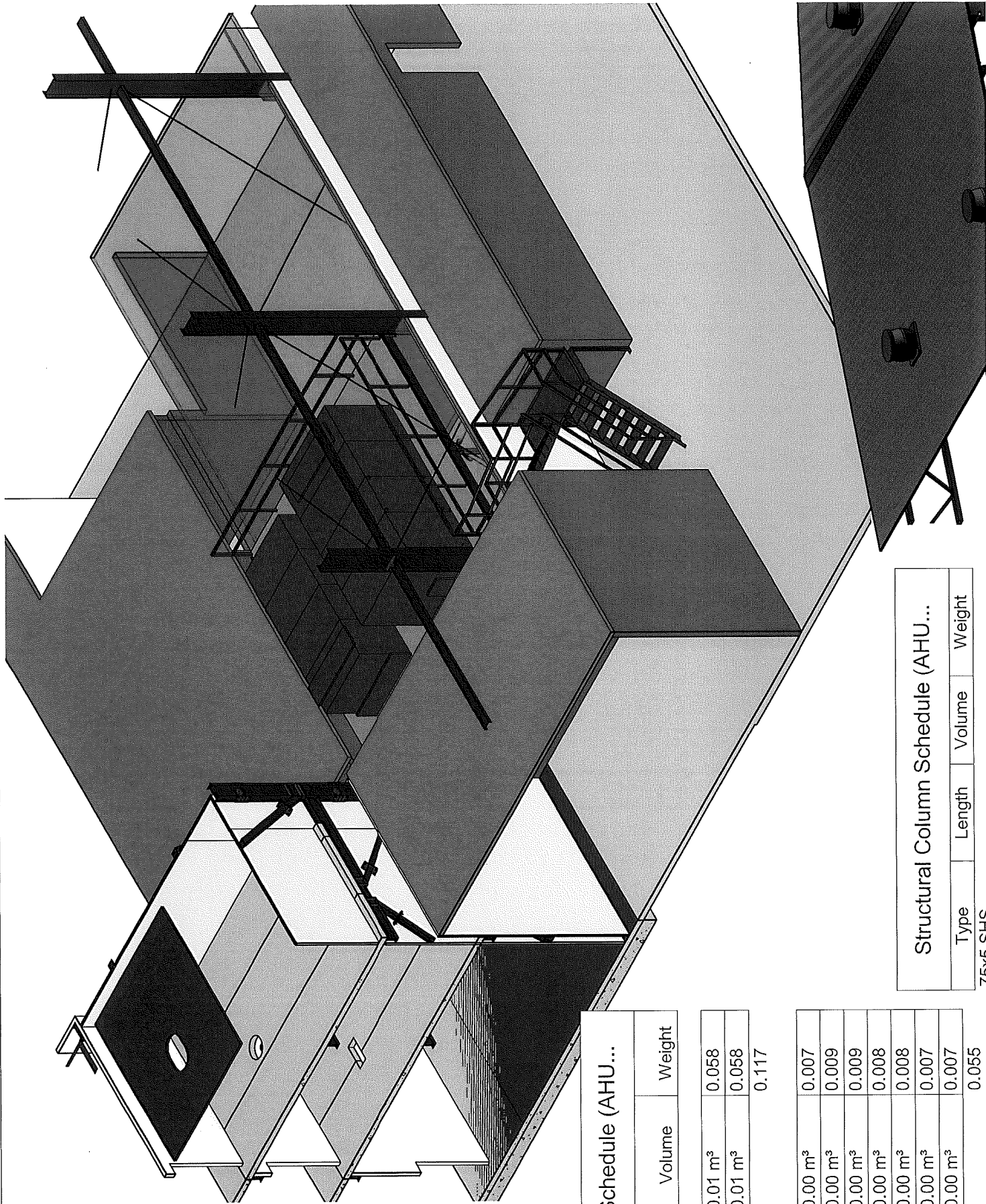
7 100PFC brace connection
1 : 10



8 100PFC Brace connection detail
1 : 10



11 120x100x10 plate
6 FWAR to SHS and
end plate for RB brace
1 : 10



Structural Framing Schedule (AHU...)

Type	Cut Length	Volume	Weight
89x5SHS			
89x5SHS	4427	0.01 m³	0.058
89x5SHS	4427	0.01 m³	0.058
89x5SHS: 2	8853		0.117
100PFC			
100PFC	845	0.00 m³	0.007
100PFC	1100	0.00 m³	0.009
100PFC	1100	0.00 m³	0.009
100PFC	1022	0.00 m³	0.008
100PFC	974	0.00 m³	0.008
100PFC	808	0.00 m³	0.007
100PFC	808	0.00 m³	0.007
100PFC: 7	6658		0.055

Structural Column Schedule (AHU...)

Type	Length	Volume	Weight
75x5 SHS			



Amended Building Consent

Application Form

(Only complete items that are applicable to your project)

BAM 002 - A

Version: 8

Updated: Nov 14

Review: Nov 15

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Number of Levels: 2	Level/Unit Number: N/a	
Legal Description: Lot 17 DP427688	Valuation Roll Number: 2443034858	
Approx. year building first construction? 2016		
Total Floor Area (all floors)	Existing(m2): 5447	Add(m2): N/A
The Project		
Description of amended work: New steel platform for Air Handling Unit (AHU) with Steel grating service platform and a ducting frame clad in long run iron to run the full height of the processing tower.		
Estimated value of amended work (including GST): \$75000		
In addition to, or reduction from, what was stated with the original application:		
Addition <input checked="" type="checkbox"/>	Reduction <input type="checkbox"/>	No Change <input type="checkbox"/>
Associated Resource Consents (Please provide project reference numbers):		
Owner Information		
Owner Name: NZ Dairy Collaborative Group		
Contact Person (if owner is not an individual): Tim Ross, Architype (on behalf of Solomon Ling)		
Mailing / Billing Address: 7 Bath Street, Dunedin 9016		
Street Address / Registered Office:		
Daytime Phone Number: 03 552 0621	After Hours Number:	
Email: tim@architype.co.nz	Mobile Number: 021 069 2404	

Agent Information	
<i>Note: The Agent will be the first point of contact for communication with the Council / Building Consent Authority regarding this application / building work and will receive all correspondence including all invoices.</i>	
Agent Name: Thompson Construction and Engineering	
Mailing / Billing Address: PO Box 2081, Washdyke	
Street Address / Registered Office: 9b Meadows Road, Washdyke, Timaru	
Daytime Phone Number: 03 688 7164	After Hours Number:
Email: design@thompsonltd.co.nz	Mobile Number:
Key Personnel / Licensed Building Practitioners Details	
Builder Thompson Construction and Engineering	
Name of Builder: Thompson Construction and Engineering	
Registration Number: N/A	
Mailing Address: PO Box 2081, Washdyke	
Email: design@thompsonltd.co.nz	Daytime Phone Number: 03 688 7164
Craftsman Plumber N/a	
Name of Craftsman Plumber:	
Registration Number:	
Mailing Address:	
Email:	Daytime Phone Number:
Registered Drainlayer N/A	
Name of Registered Drainlayer:	
Registration Number:	
Mailing Address:	
Email:	Daytime Phone Number:
Craftsman Gasfitter N/A	
Name of Craftsman Gasfitter:	
Registration Number:	
Mailing Address:	
Email:	Daytime Phone Number:

Designer Chapman Consulting Engineers		
Name of Designer: Andrew Chapman		
Registration Number: 9b Meadows Road Washdyke		
Mailing Address: 9b Meadows Road Washdyke		
Email: andrew@chapmanengineers.co.nz	Daytime Phone Number: 036839005	
Engineer Chapman Consulting Engineers		
Name of Engineer: Andrew Chapman		
Registration Number: CPEng 1006515		
Mailing Address: 9b Meadows Road Washdyke		
Email: andrew@chapmanengineers.co.nz	Daytime Phone Number: 03 6839005	
Other		
Has the engineer provided a Producer Statement – Design?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Has the engineer been engaged to carry out site inspections on the job? <i>(If yes, this must be specified on the Producer Statement)</i>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Notes by the Applicant		
(Other notes or comments which you as the applicant may wish to add)		
Required Attachments		
Tick the documents you have attached with this application.		
<input type="checkbox"/>	Certificate of Title (less than 6 months old) <i>(Evidence of ownership)</i>	
<input type="checkbox"/>	Sale and Purchase Agreement <i>(Evidence of ownership)</i> Has Not Changed	
<input type="checkbox"/>	Lease <i>(Evidence of ownership)</i>	
<input type="checkbox"/>	Current Rates Demand <i>(Evidence of ownership)</i>	
<input type="checkbox"/>	Project Information Memorandum	
<input checked="" type="checkbox"/>	2 copies of the original consented plans that are to be amended, showing all construction details, with amendments highlighted or clouded.	
<input checked="" type="checkbox"/>	Amendment Application Fee \$97.00	

Method of Payment

Cash Cheque Eftpos
 Credit Card Direct Credit

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

Signature

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

Signature:



Date:

25/05/2017

Please print your name:

Annelies Cloake

Owner

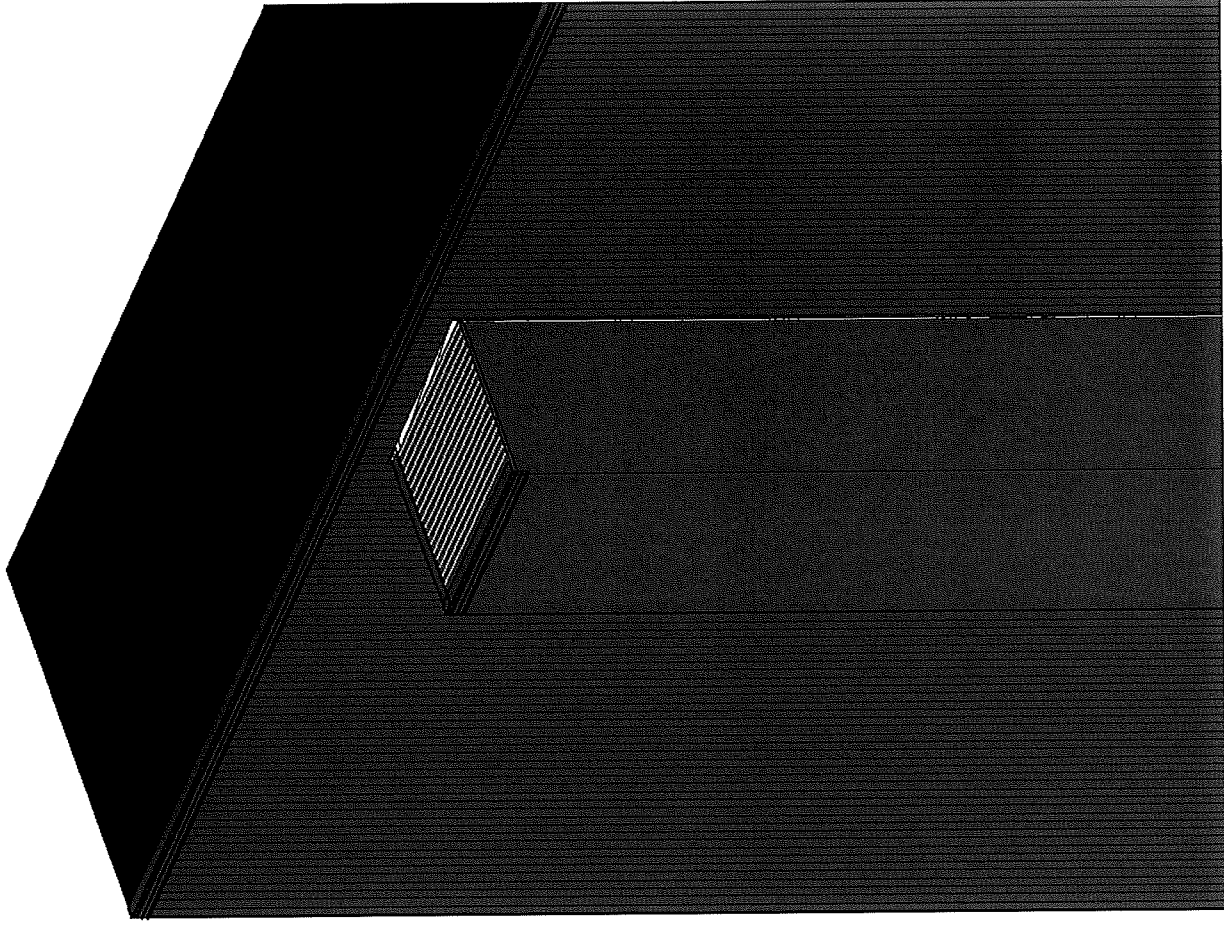
Agent

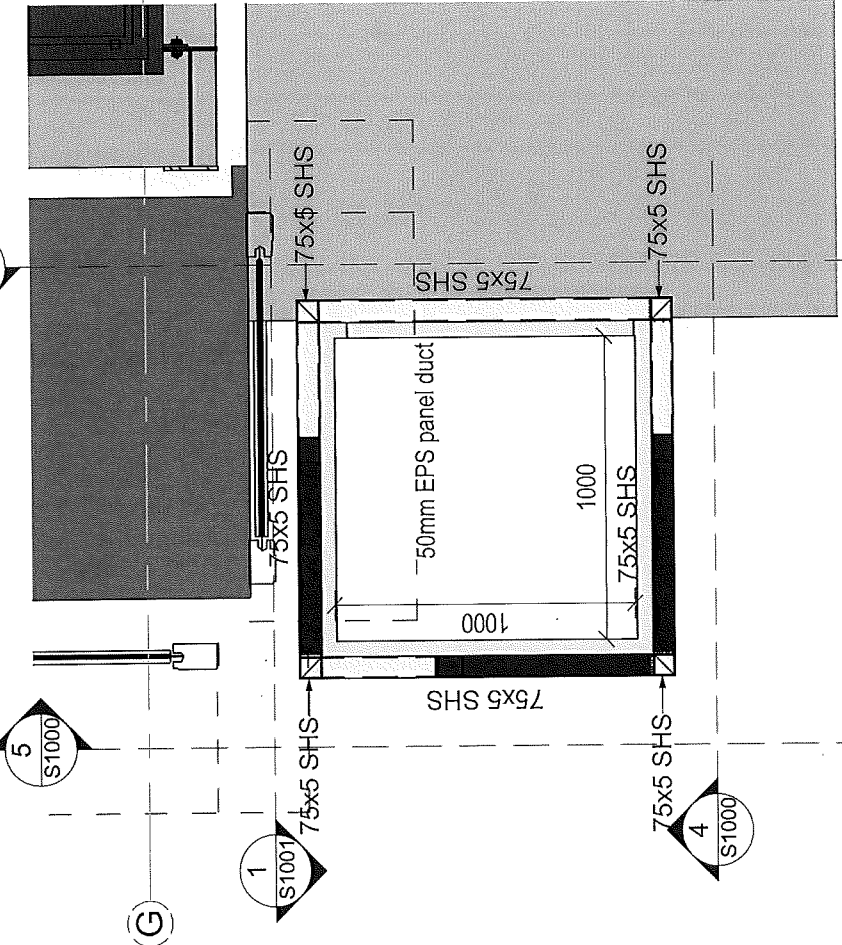
Privacy Information: The information you have provided on this form is required so that your building consent application can be processed under the Building Act 2004. The Council collates statistics relating to issued building consents and has a statutory obligation to regularly forward these to Statistics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

Office Use Only		
Application complete?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Application fee received?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Receipt Number:		
Notes		
<ol style="list-style-type: none"> 1. This does not apply to building consents that already have a Code of Compliance Certificate issued. 2. This application is for construction changes to issued building consents. It is not intended to be used where the scope of work is extended. 3. Processing fees (plus any additional Building or Building Research Levies are to be paid before any work covered by the amendment may proceed. 		

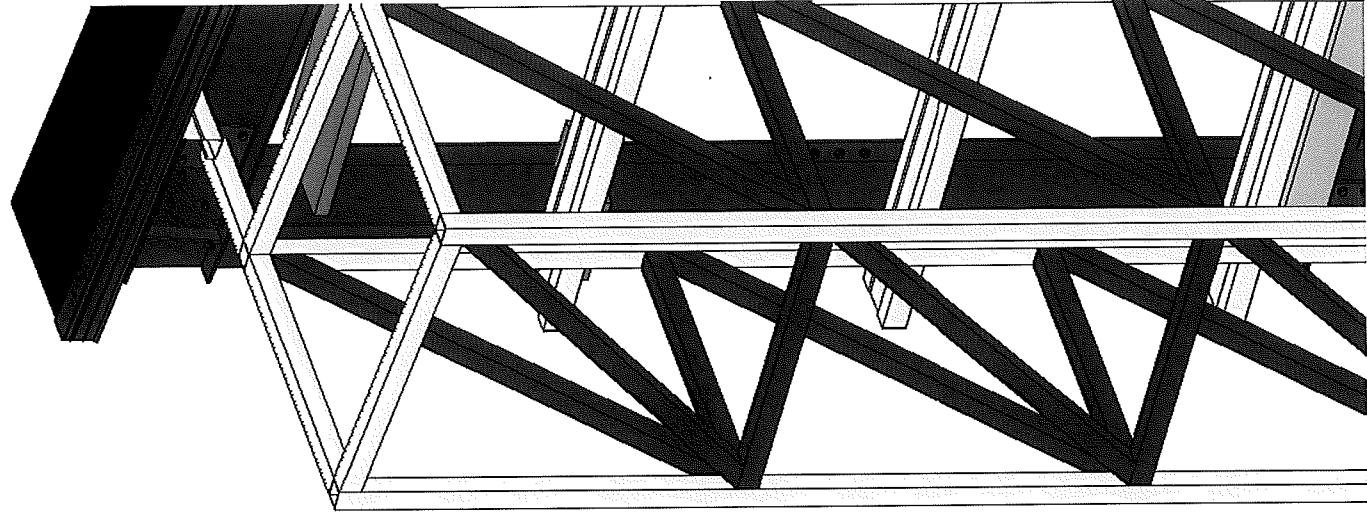


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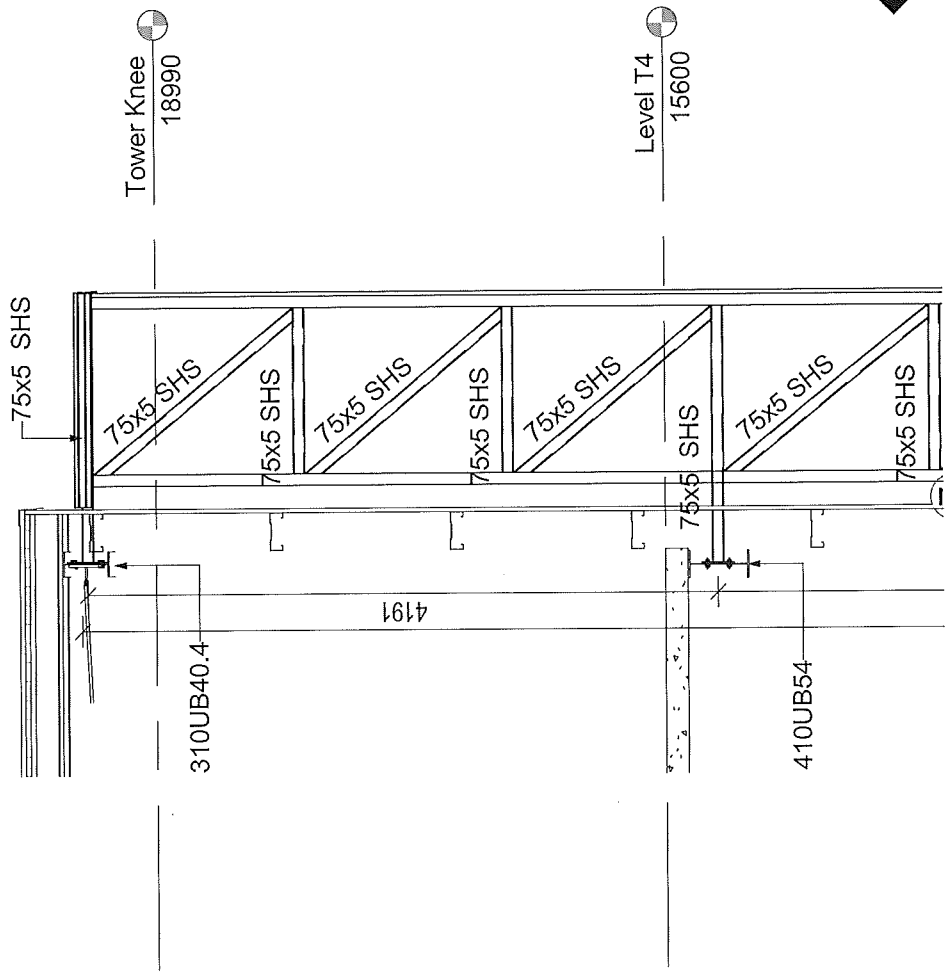


1 PLAN :Ground Floor AHU 2 Ducting frame
A0300 1:25



Existing building (tower)

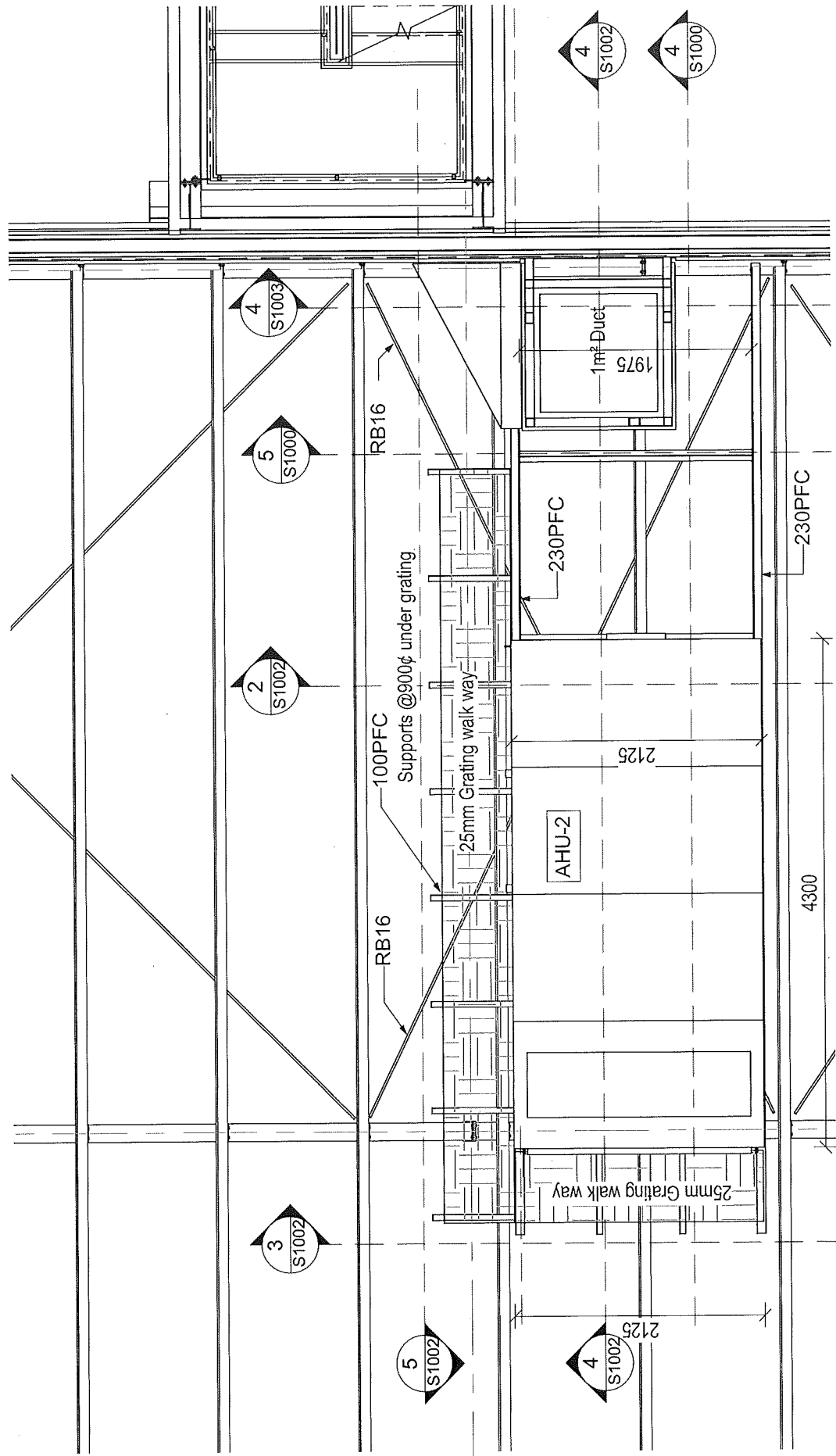
(G)



7

6

G



4
S1002

4
S1000

4
S1003

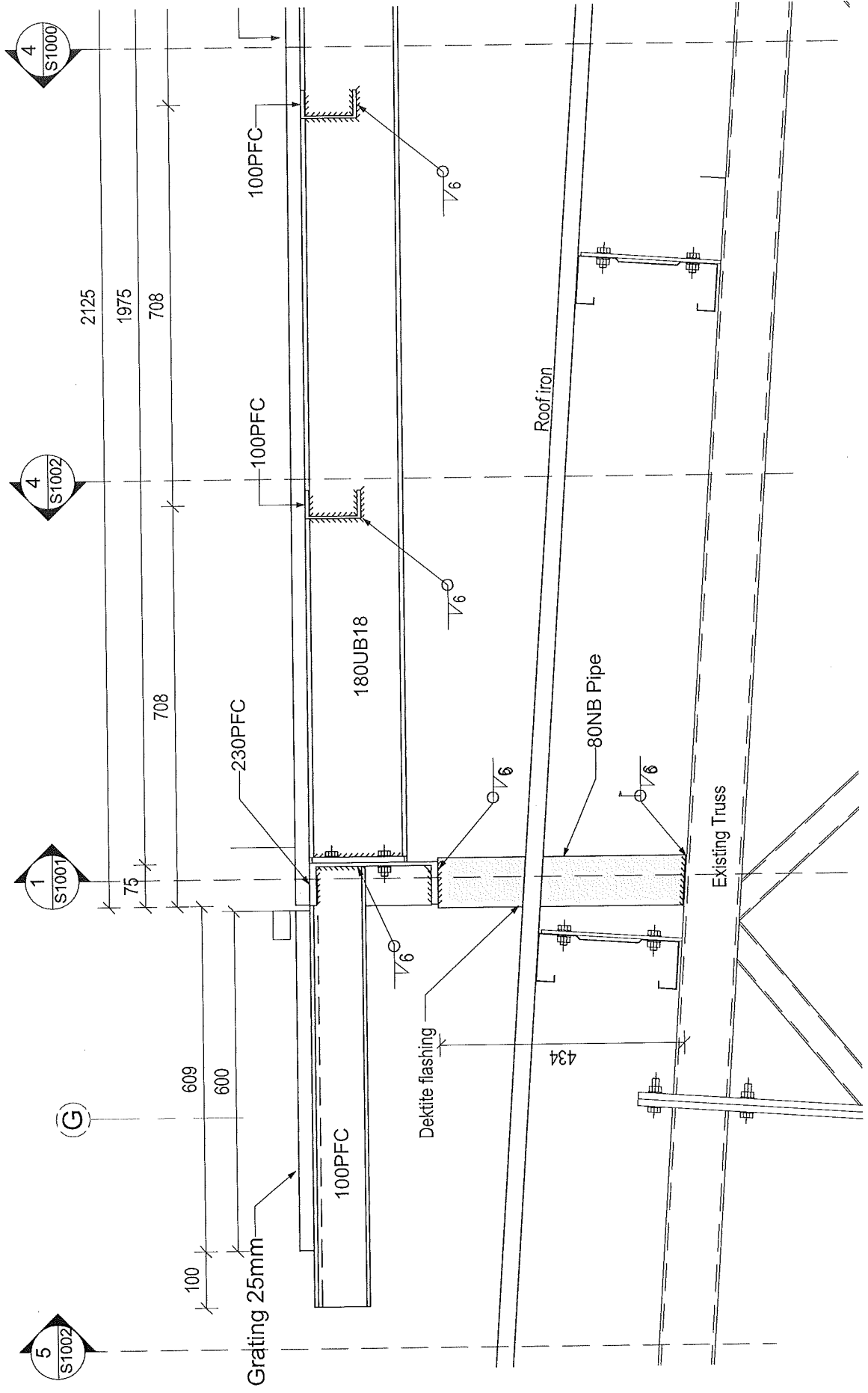
5
S1000

2
S1002

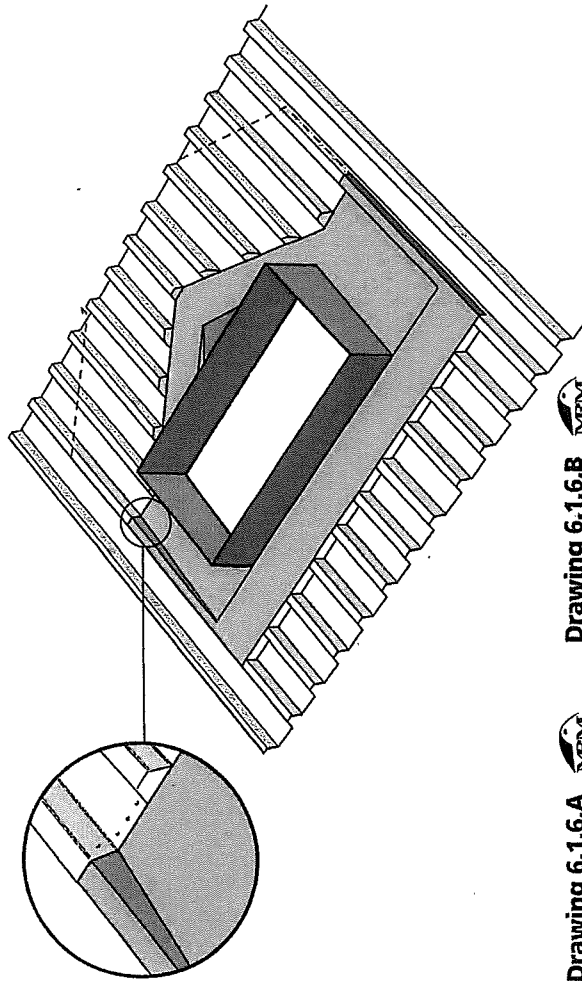
3
S1002

5
S1002

4
S1002



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



Drawing 6.1.6.A  **Drawing 6.1.6.B** 

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

6.1.7 SEALING

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

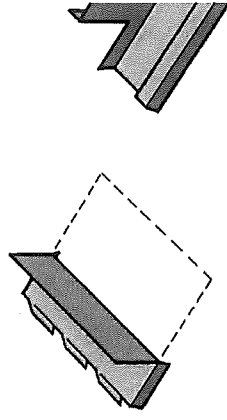
These sealants should only be used in conjunction with mechanical fasteners.

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


6.2 PENETRATION DESIGN

6.2.1 NOMENCLATURE.

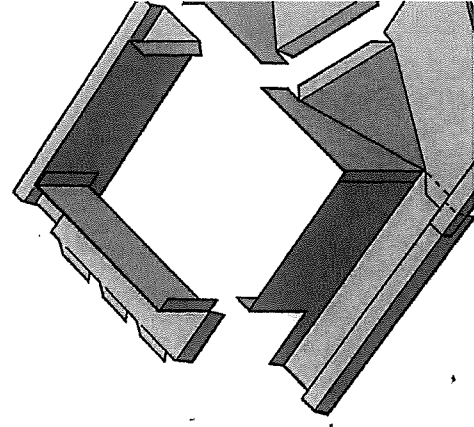
The nomenclature used in describing penetration definitions 1.3)



Apron

Drawing 6.2.1.A 

This detail is suitable for penetrations u



6.2.5 DETAILS

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

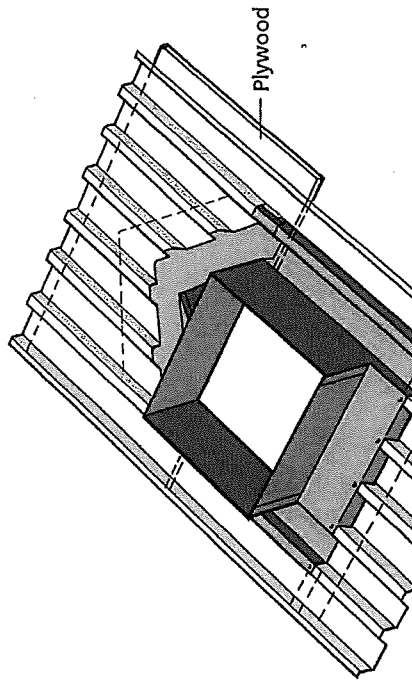
The techniques used and the details drawn can be used in most circumstances, and also be combined in various ways. There are many types of acceptable penetration flashing designs, however some are only suitable where the roof pitch is greater than the minimum recommended for the particular profile.

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

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

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

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



6.2.7 TYPE A SOAKER

Soaker or underflashing penetration designs: They are the preferred design and will produce metal roof cladding.

For new installations the location of penetration For safety and simplicity the safety mesh, under the sheets lengths covering the openings are in or back curb of the penetration. (See drawing).

All soaker flashings have an overlap to mate in overflow situation, water ingress is avoided.

It is highly unlikely that a penetration will be in sheet so the preferred method of weathering sheets above the penetration and flash at the penetrations line up with the ribs of the sheet the roof cladding determines the width of the

Sheet 1 is full length

Sheet 2 is cut to the bottom of the penetration dimension

Flashing 3 is the side curb

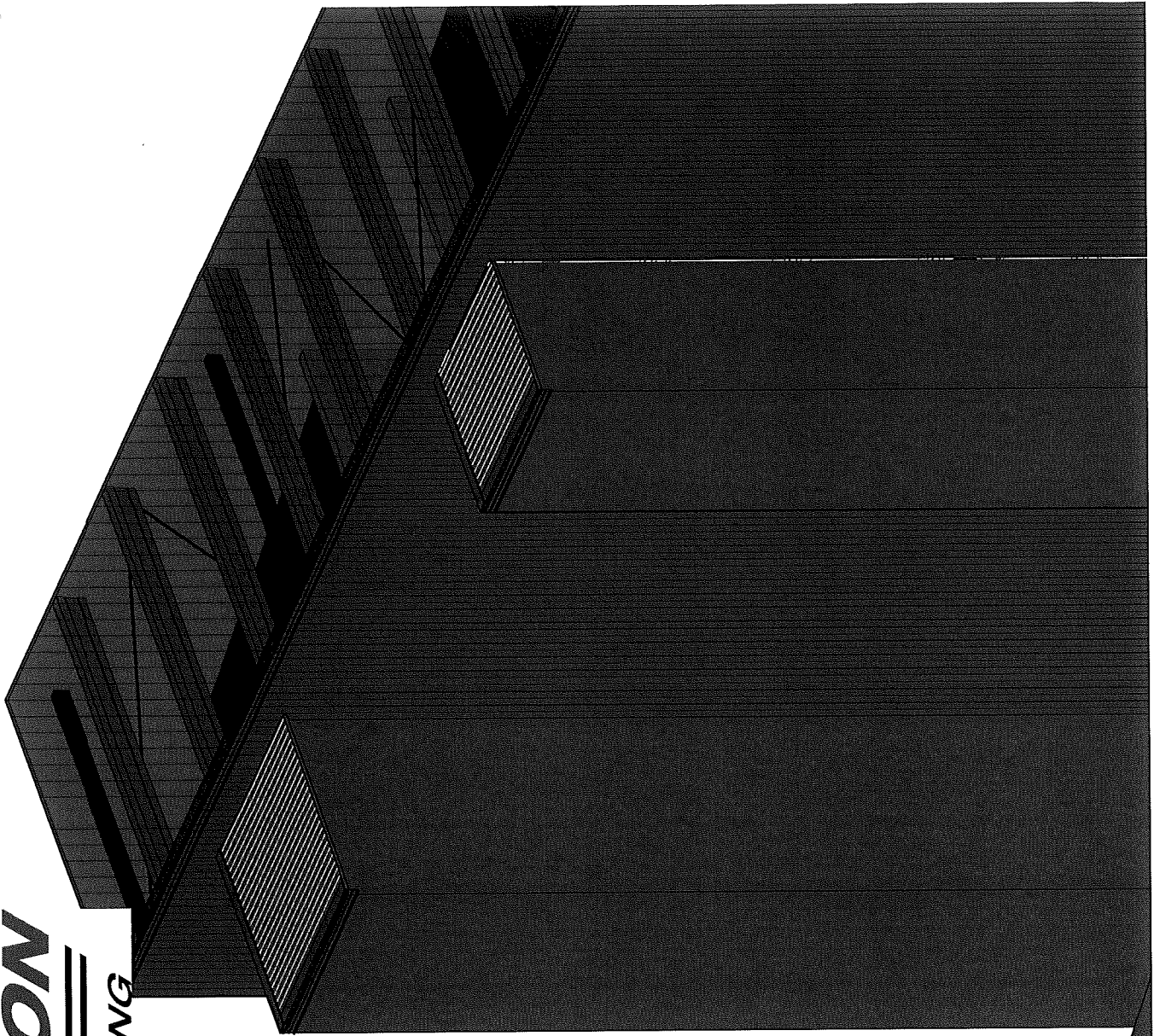
Flashing 4 is the back curb

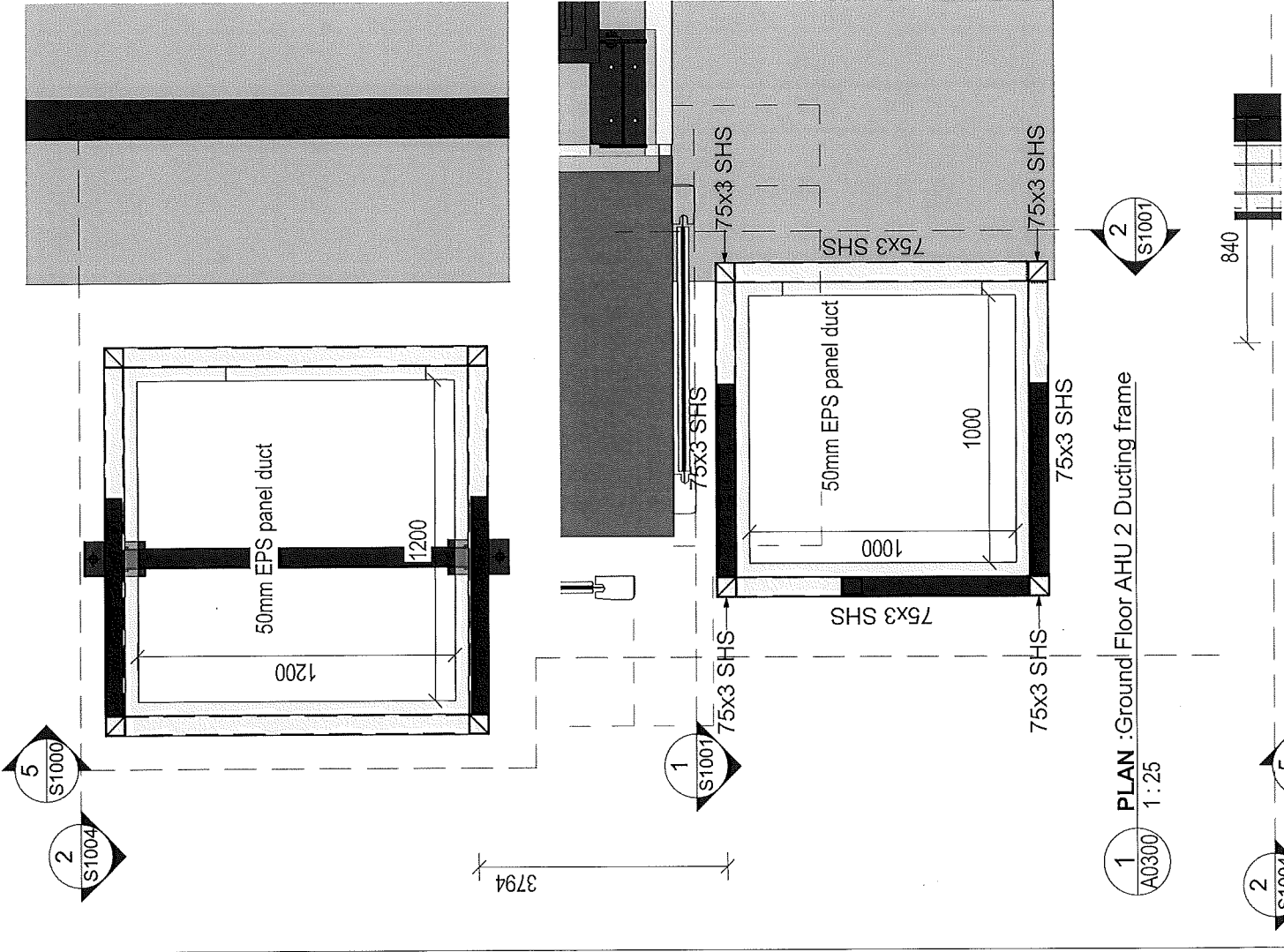
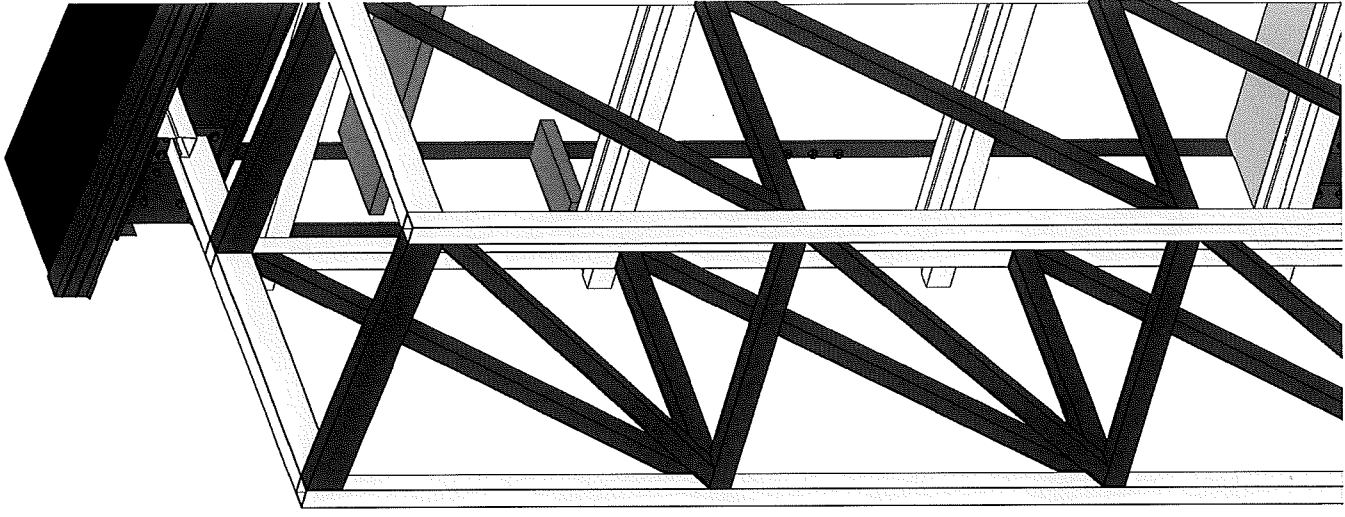
Sheet 5 is cut to the top of the penetration + 75mm

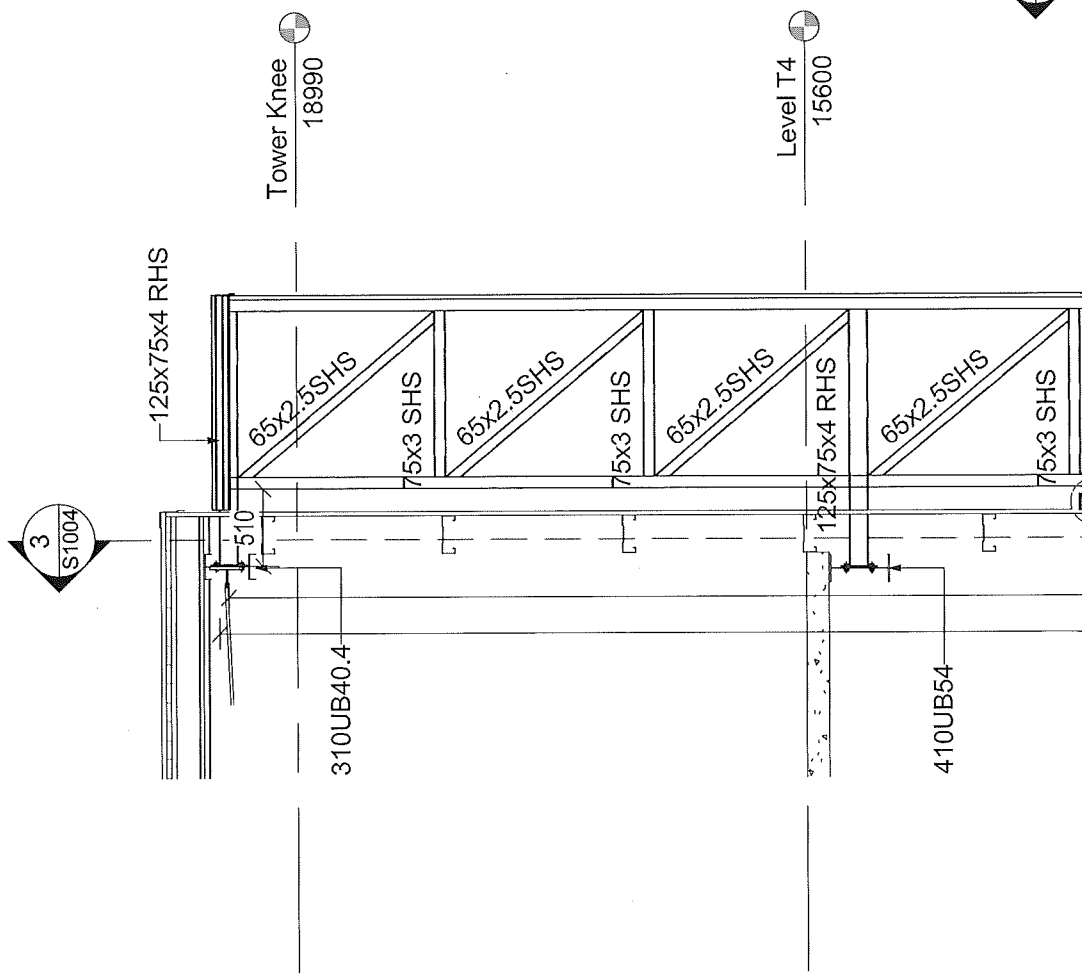
When the ribs do not align with the penetrations preferred method is to order longer sheets at t

The logo for Thompson Construction & Engineering features a dark, trapezoidal shape on the left. To its right, the word "THOMPSON" is written in a large, bold, sans-serif font. Below "THOMPSON" are two horizontal lines, followed by the words "CONSTRUCTION & ENGINEERING" in a smaller, all-caps, sans-serif font.

THOMPSON
CONSTRUCTION & ENGINEERING



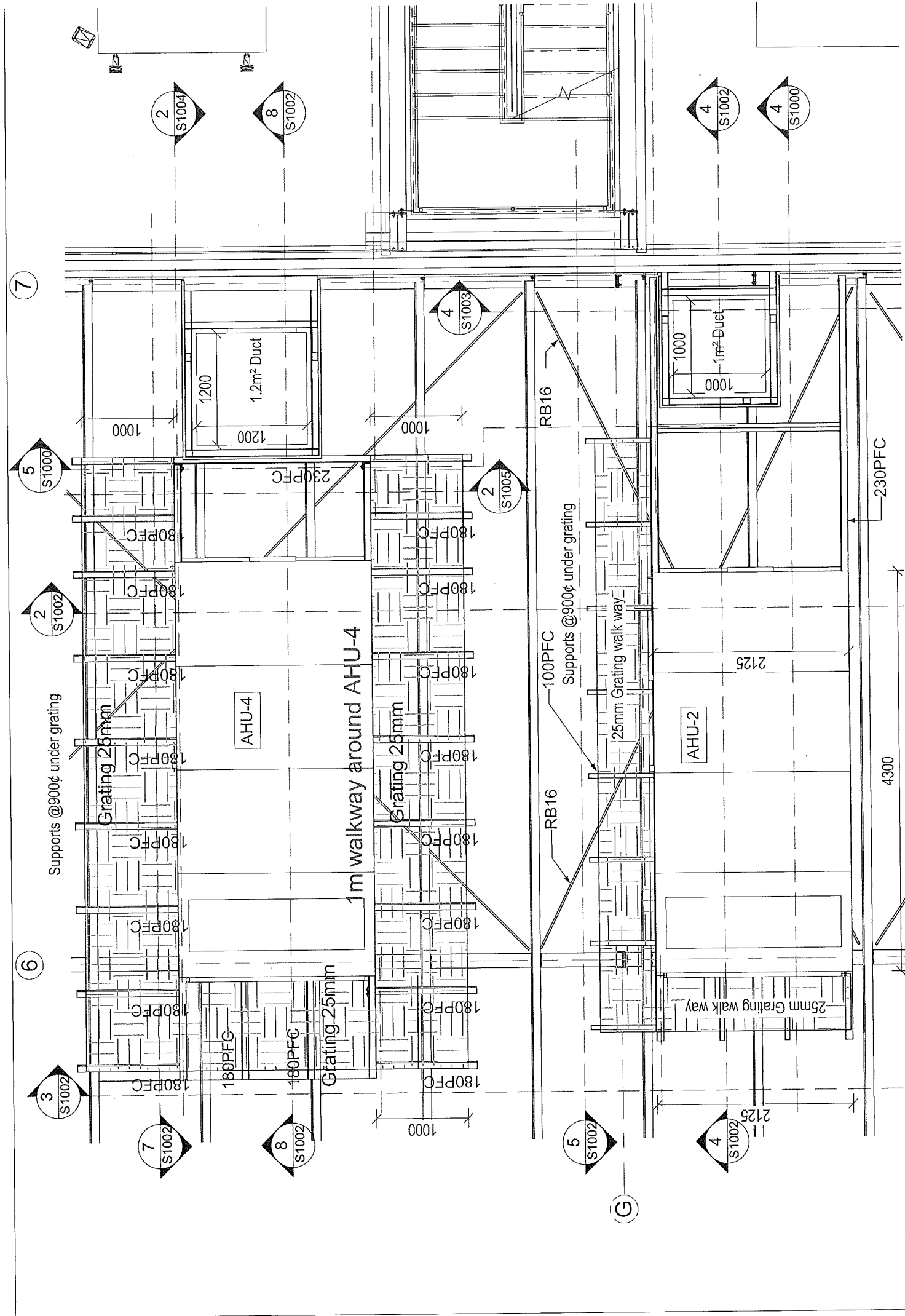


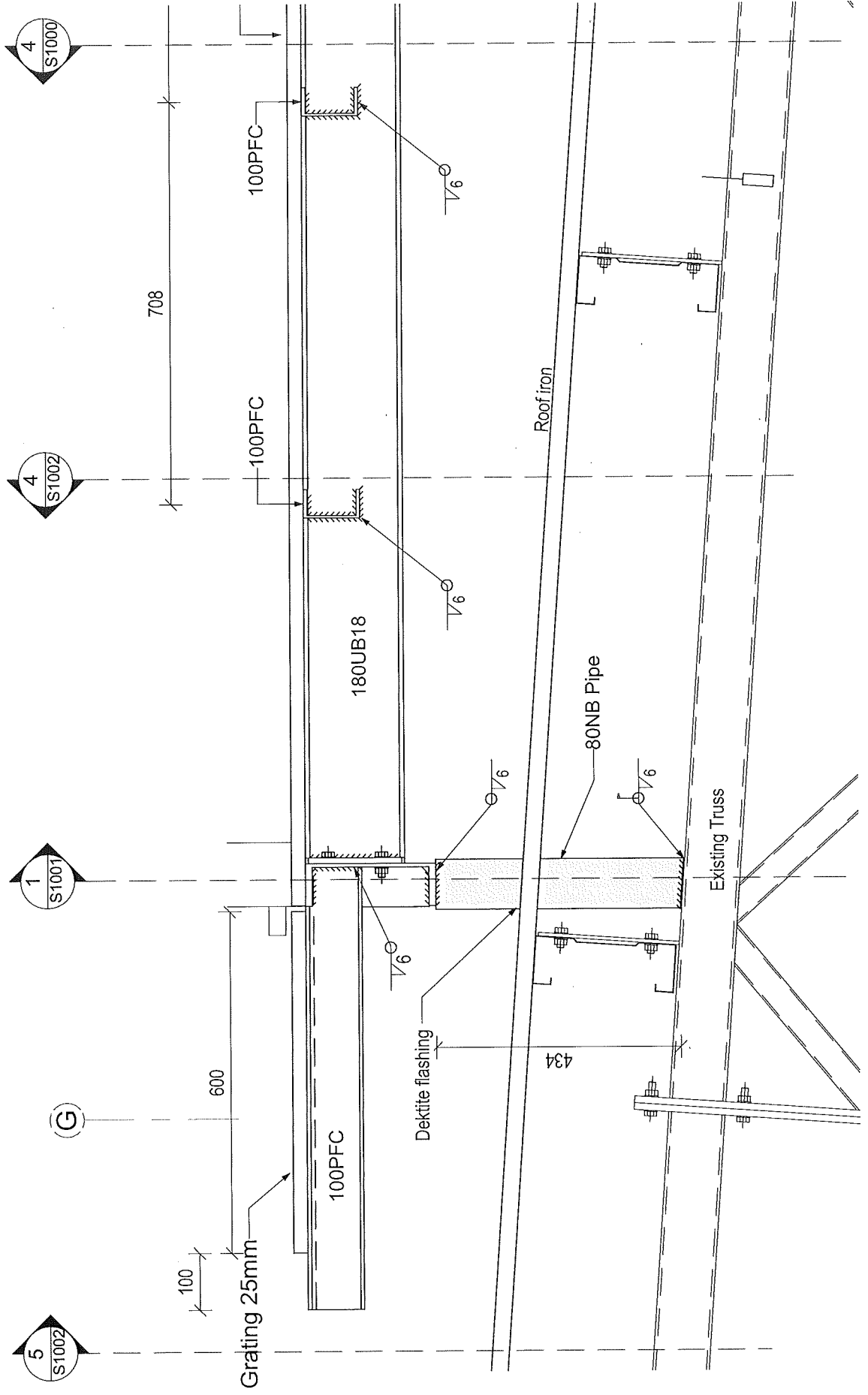


3
S1002

6

2
S1002





1/S1002

1:10

DETAIL :AHU 2 Frame to truss

3
S1004

5
S1000

Tower Knee
18990

Level T4
15600

4526

7

65x2.5SHS

75x5 SHS

65x2.5SHS

75x5 SHS

65x2.5SHS

125x75x4 RHS

65x2.5SHS

75x5 SHS

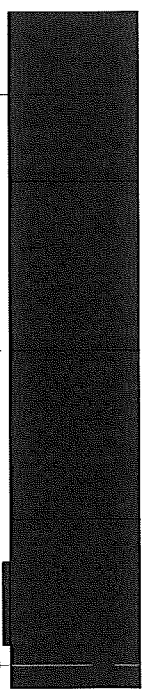
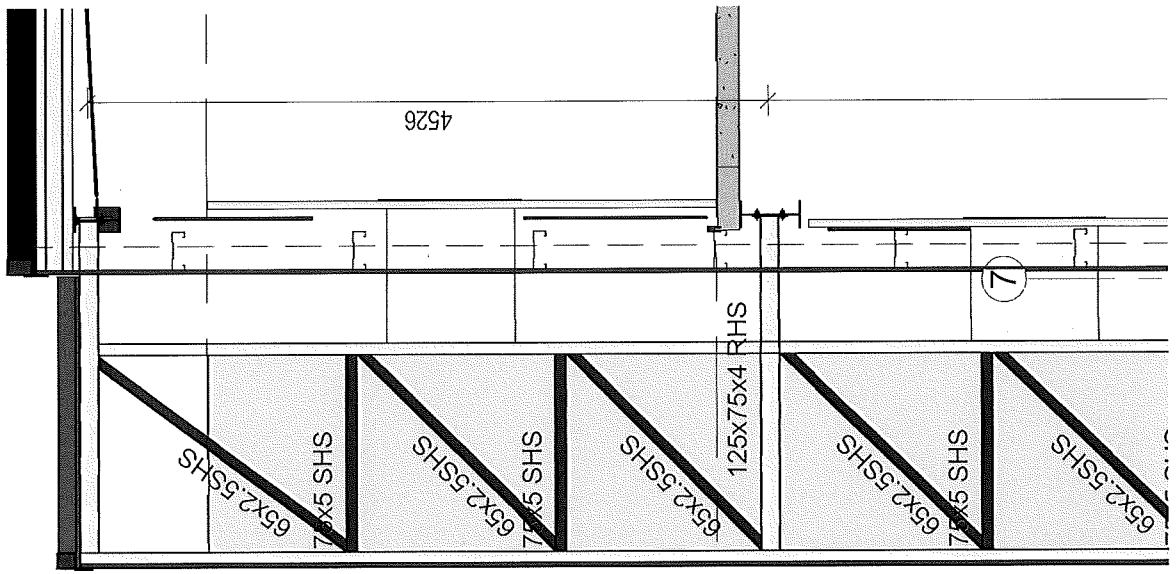
65x2.5SHS

2
S1002

AHU-4

6

3
S1002



8
S1002

AHU-4

3
S1005

7
S1002

1000

100

Grating 25mm
180PFC

Grating 25mm

180UB18

180PFC

180PFC

Dektite flashing

Roof iron

80NB Pipe

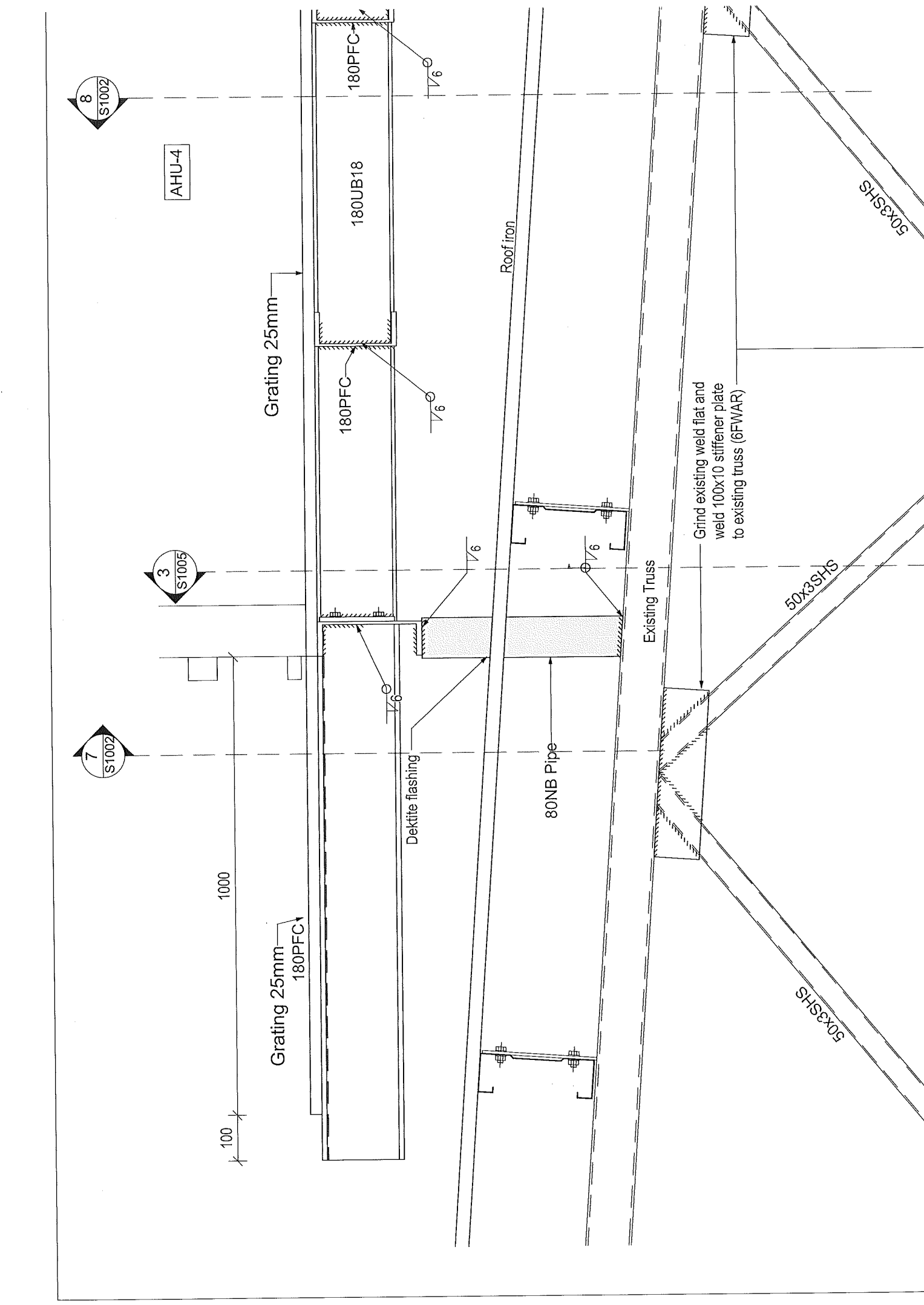
Existing Truss

Grind existing weld flat and
weld 100x10 stiffener plate
to existing truss (6FWAR)

50x3SHS

50x3SHS

50x3SHS



8

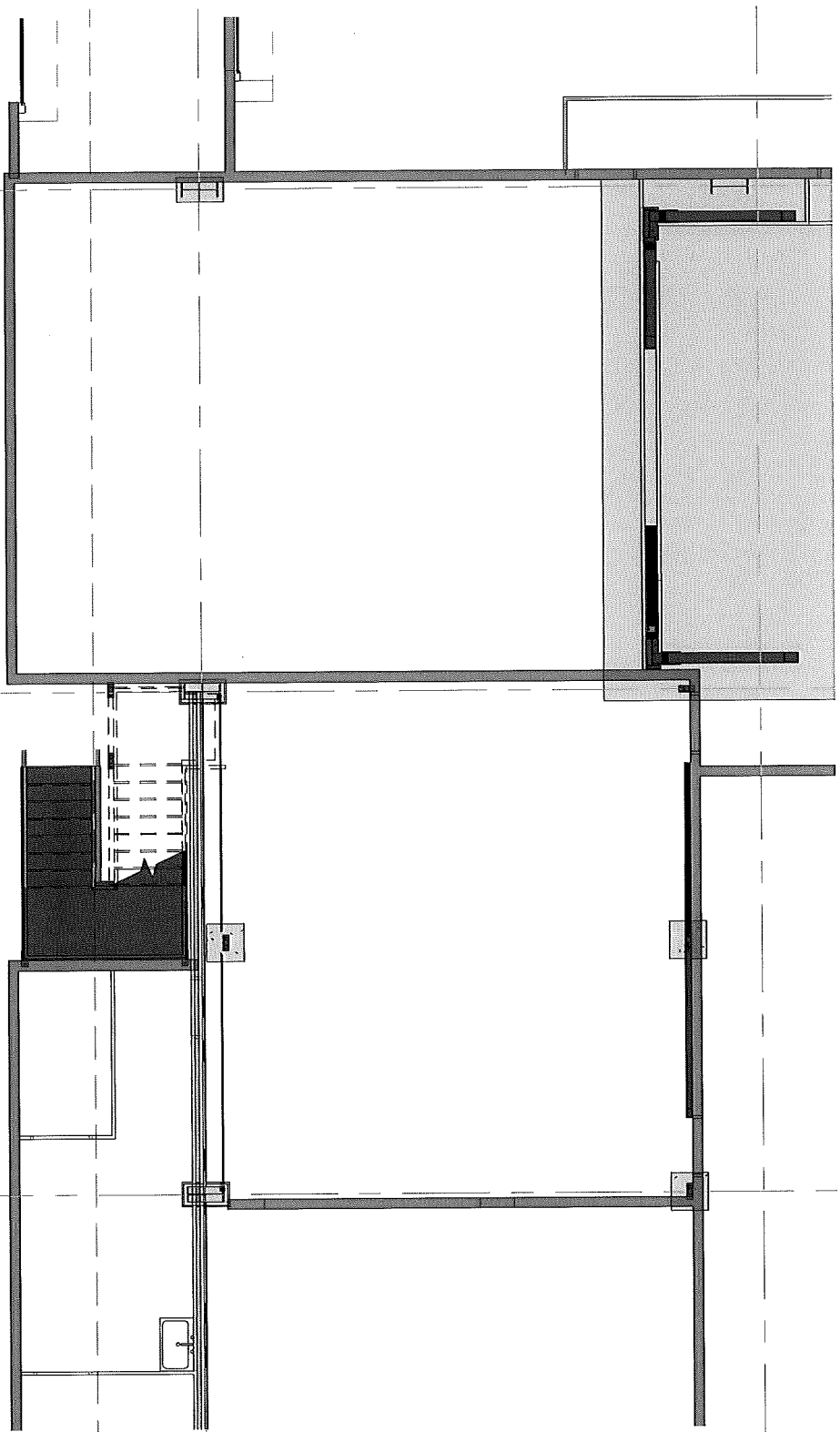
7

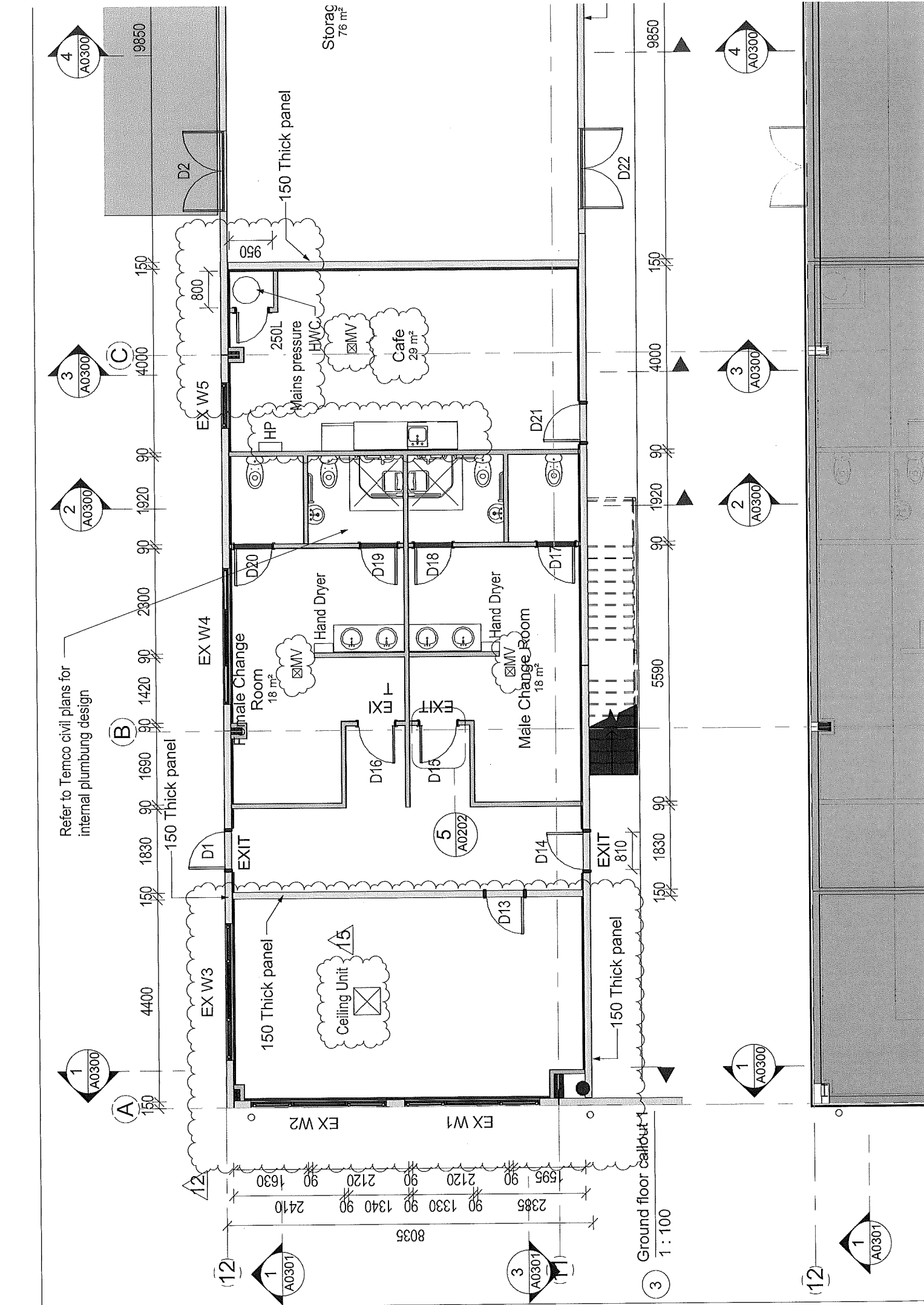
6

1
S0603

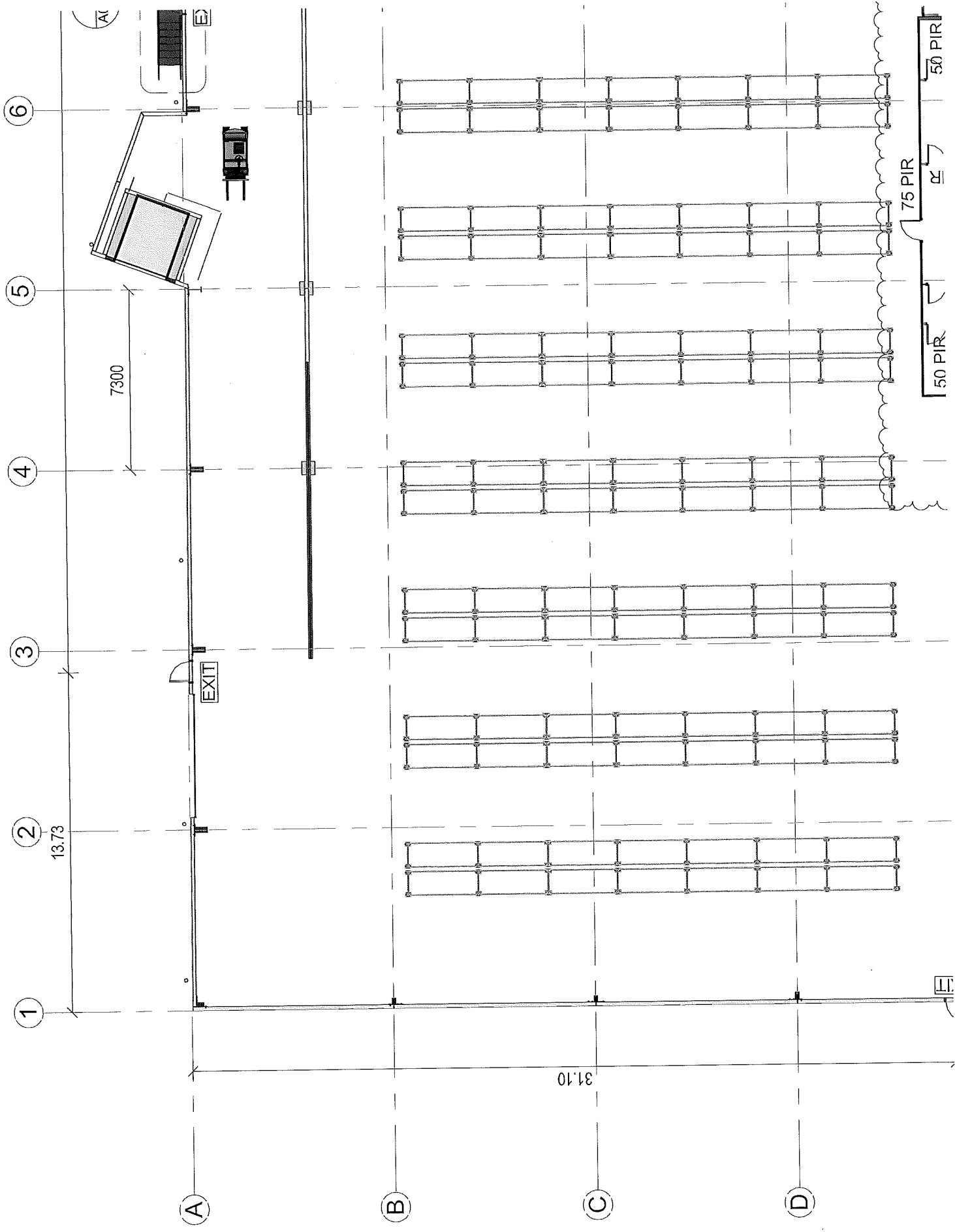
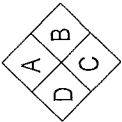
E

F



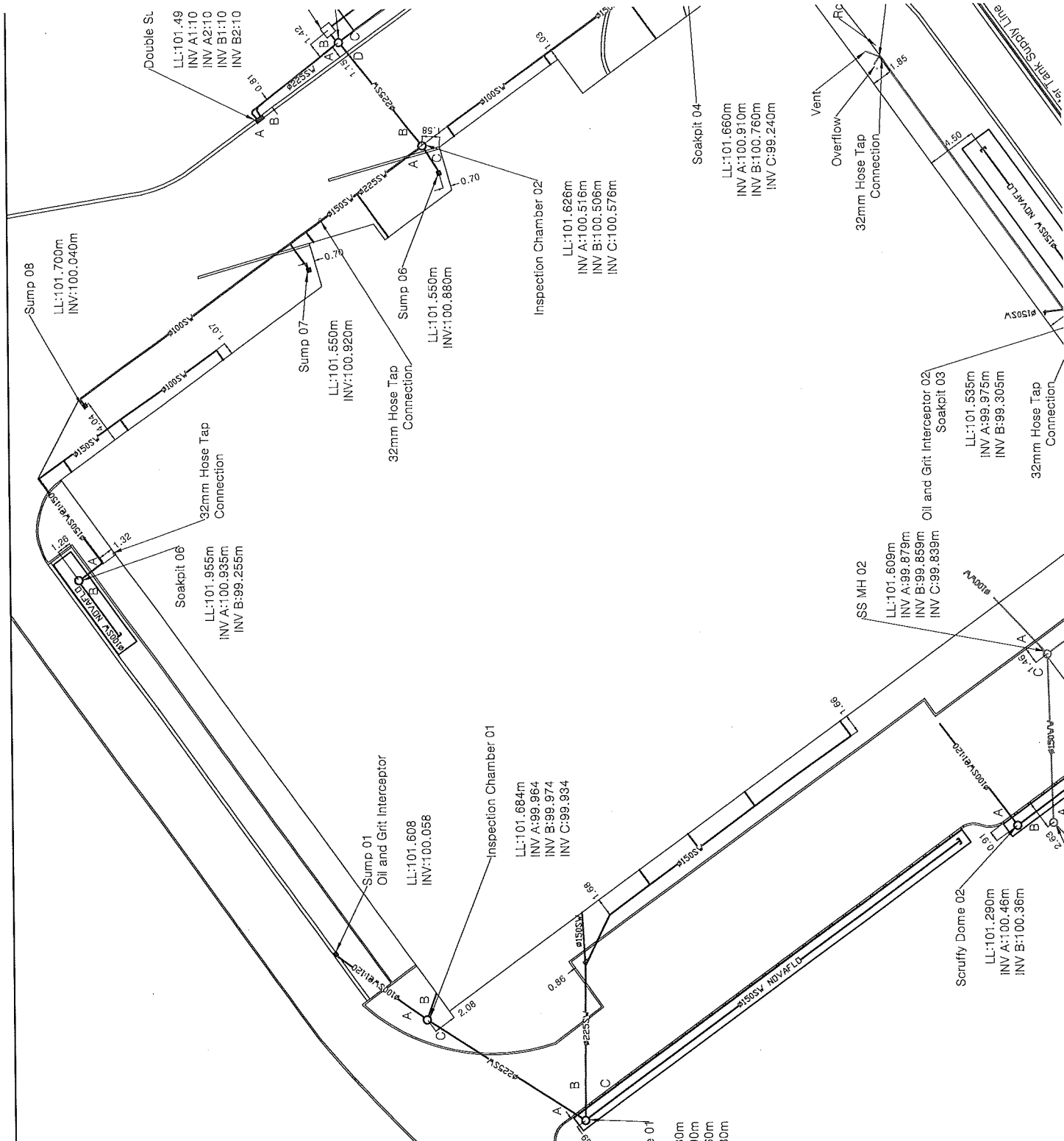


ELEVATION KEY

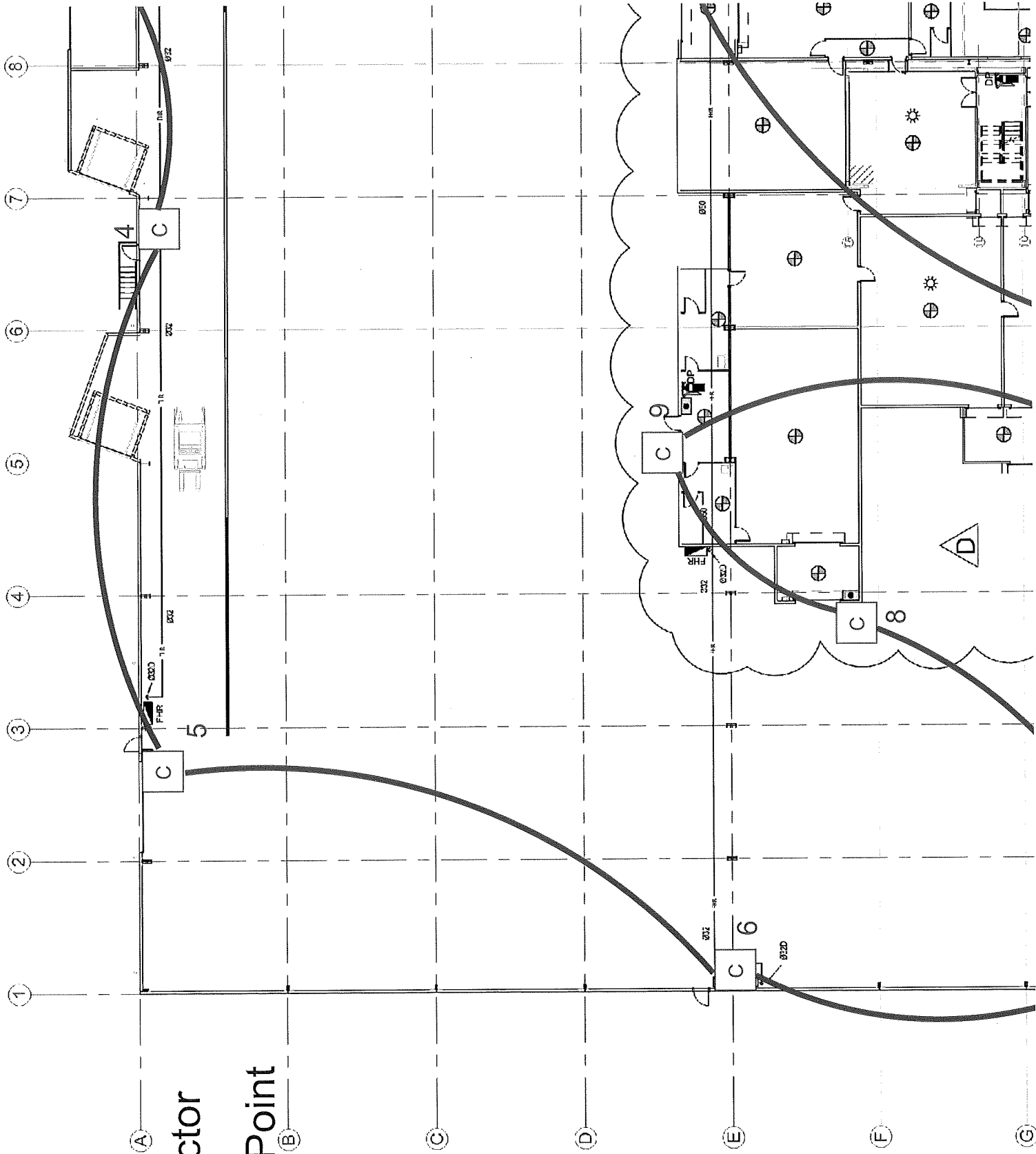


Legend

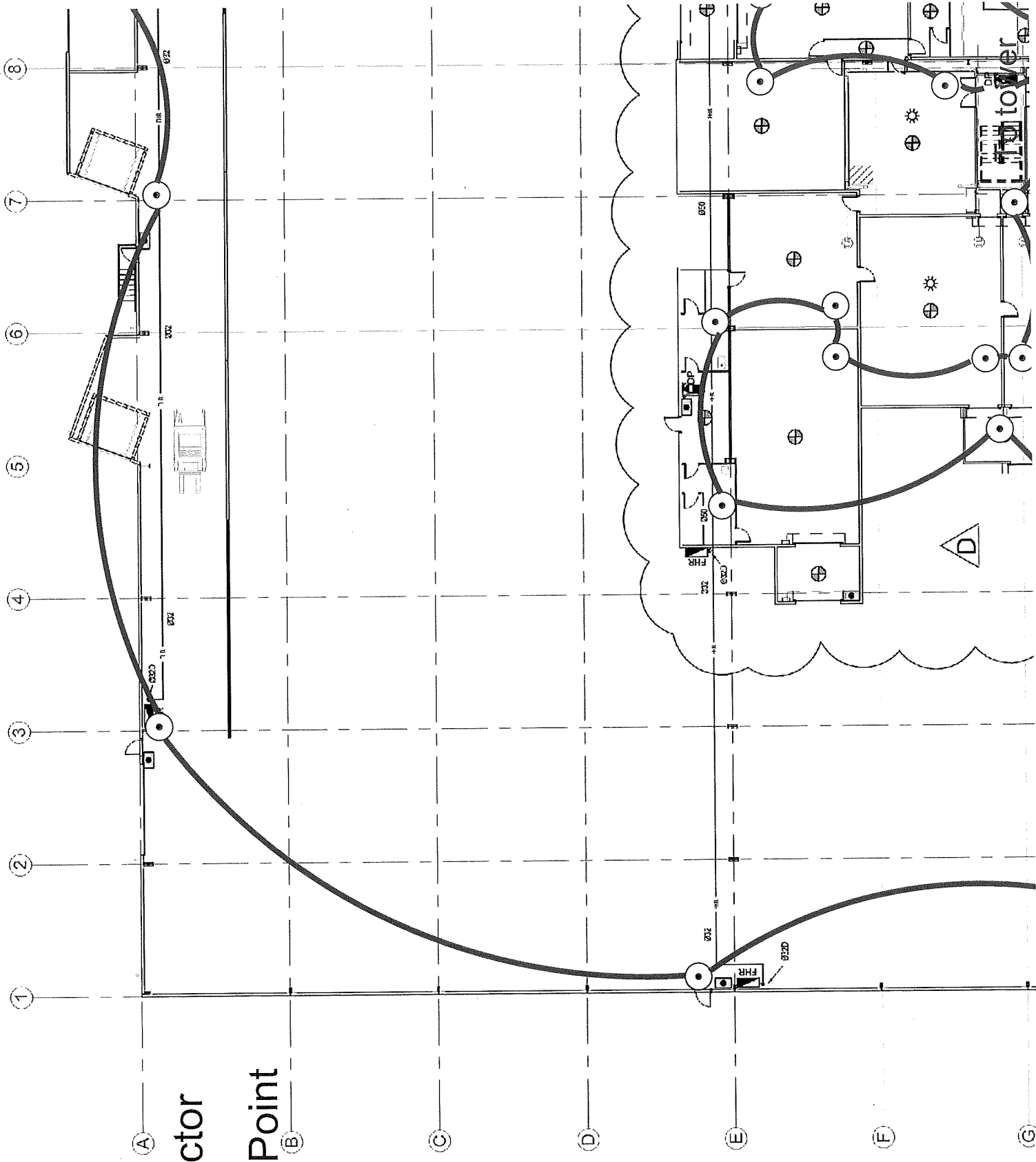
- Storm Water
- Waste Water
- Water Tank Supply
- Kerb and Channel
- 32mm Water Connection



Notes



- S Smoke Detector
- C Manual Call Point
- Sounder
- ⊕ Strobe



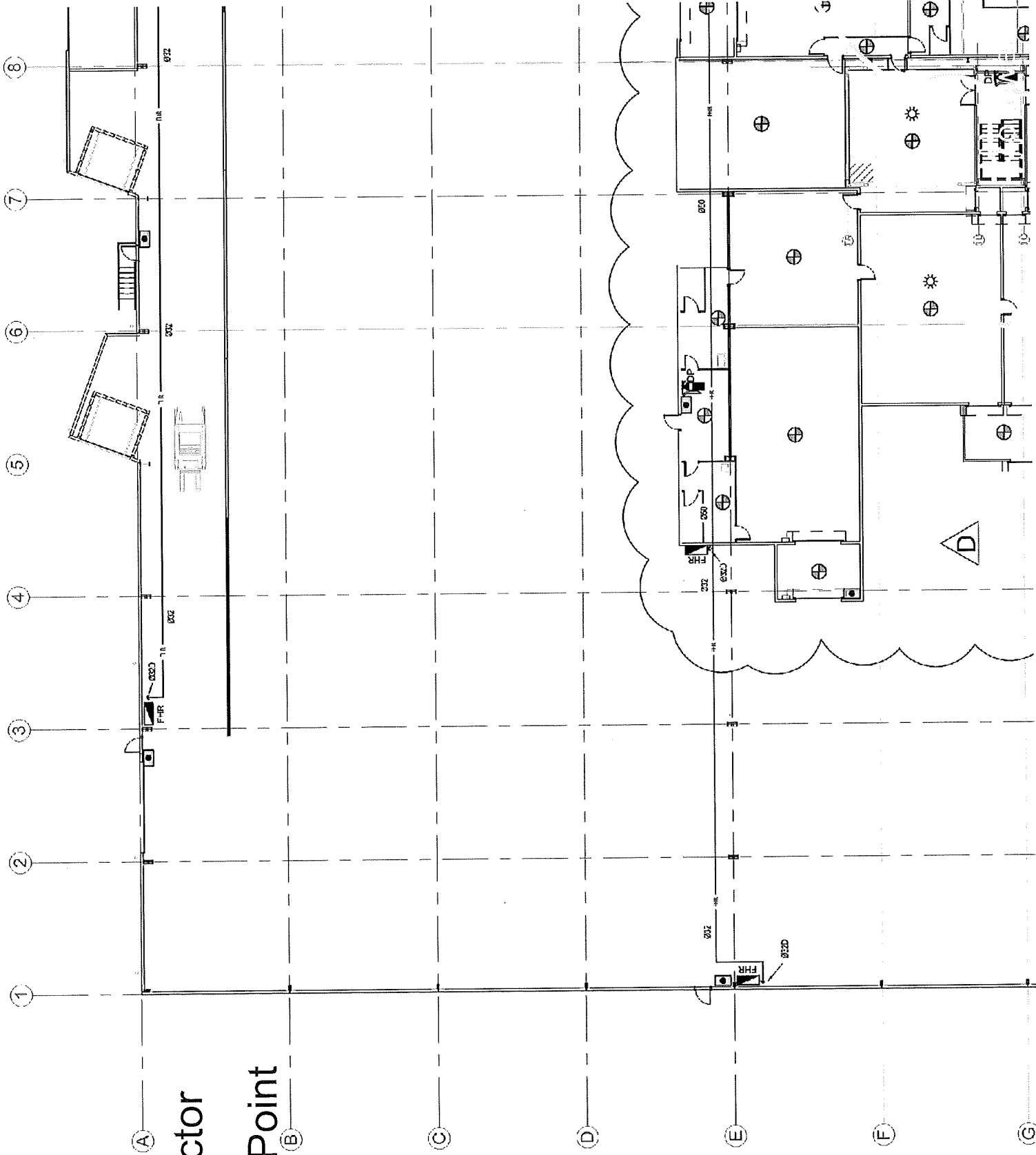
○ S Smoke Detector

□ C Manual Call Point

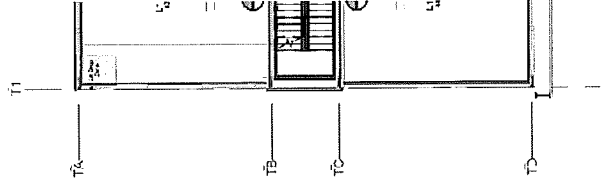
○ Sounder

Strobe

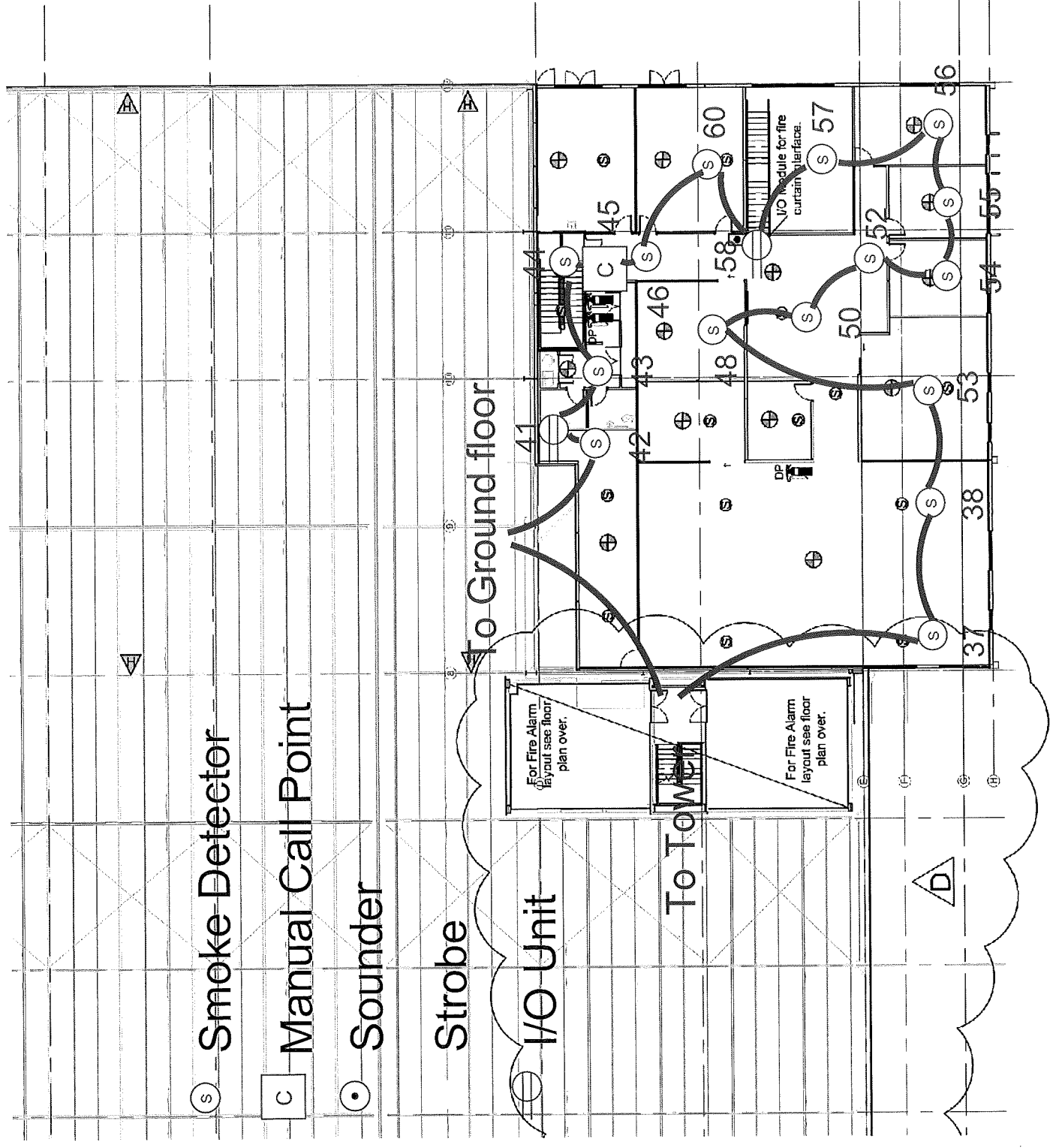
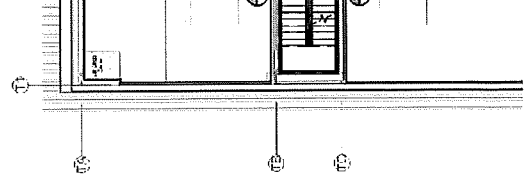
- Ⓢ Smoke Detector
- ⓐ Manual Call Point
- ⦿ Sounder
- ☼ Strobe



- signature throughout
- 4. Provide Fire alarm zones devices to have unique a identification labels.
- 5. Sprinkler system to intert



Tower Level T1
1:100



(S) Smoke Detector

(C) Manual Call Point

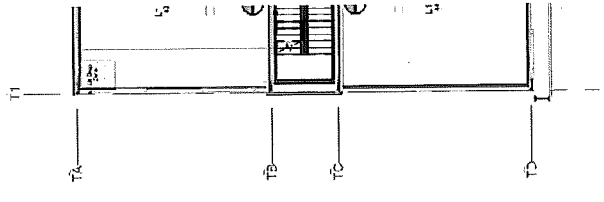
(●) Sounder

(▲) Strobe

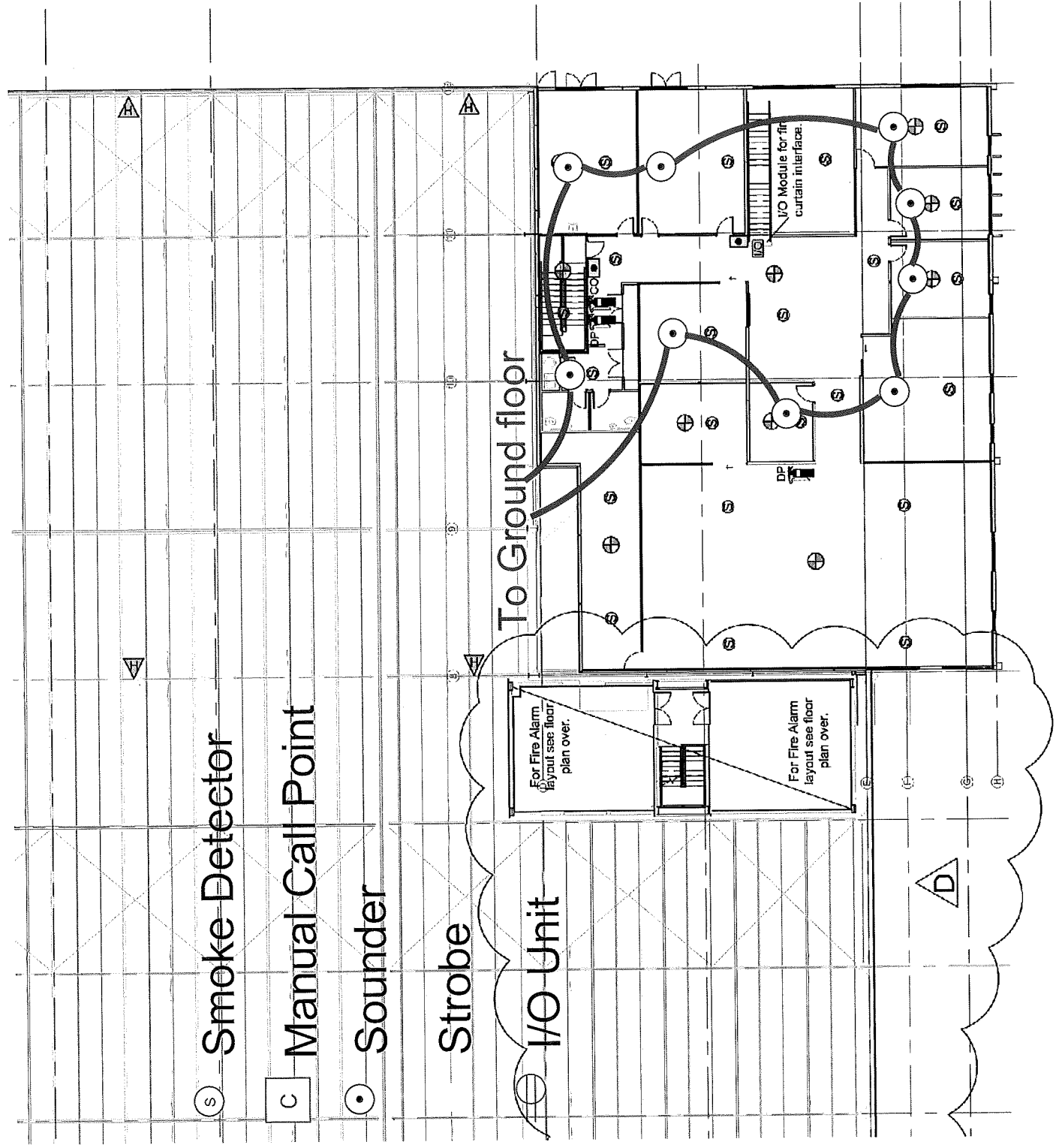
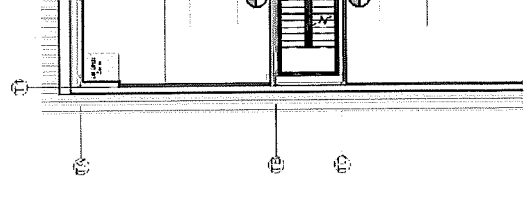
(⊕) I/O Unit

First Floor Plan

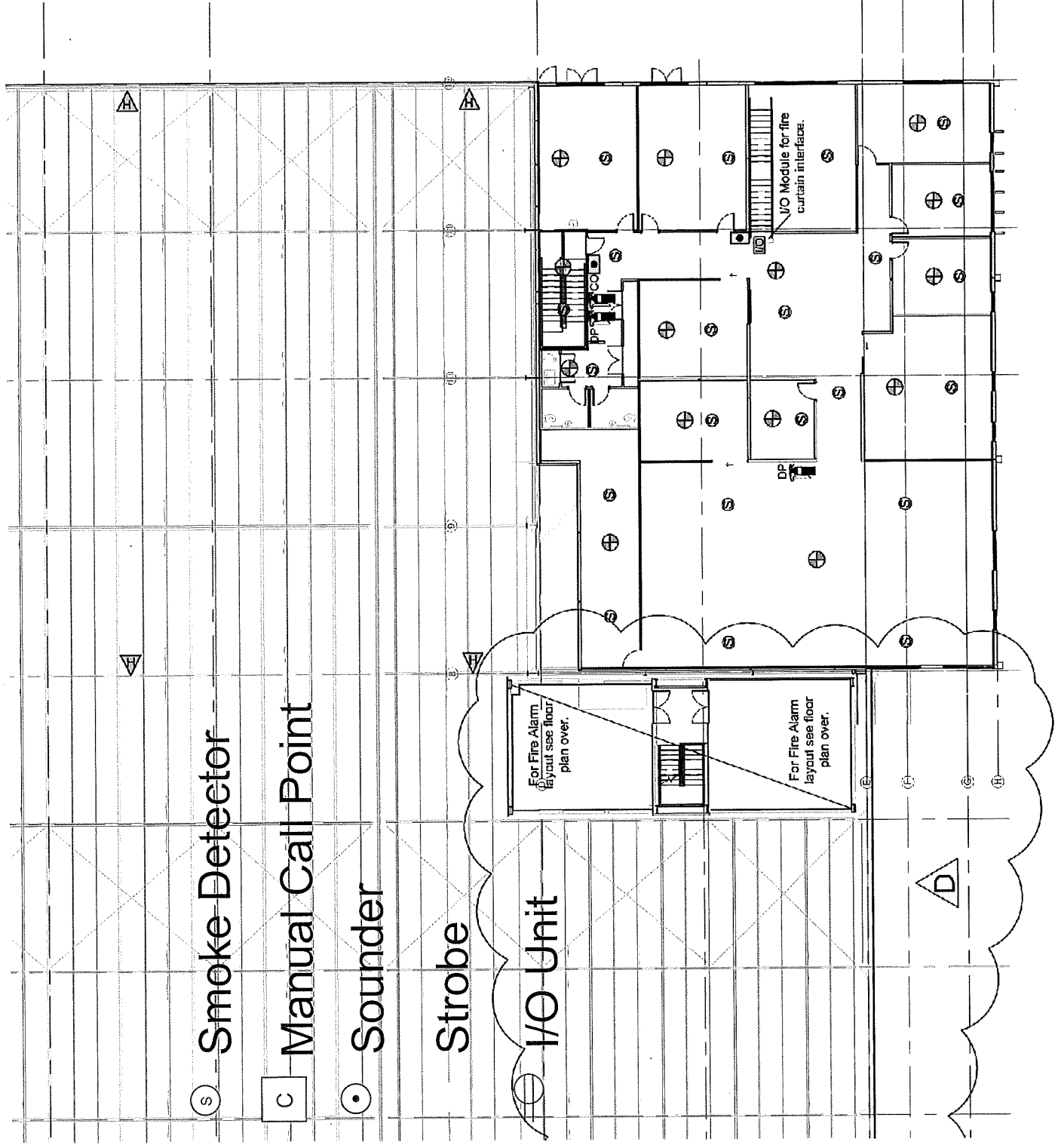
- signature throughout
- Provide Fire alarm zones
- devices to have unique a
- identification labels.
- 5. Sprinkler system to intert



Tower Level T1
1:100



First Floor Plan



⊙ Smoke Detector

□ Manual Call Point

⊙ Sounder

△ Strobe

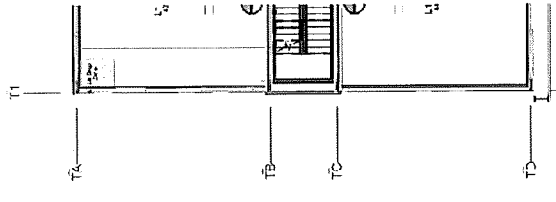
⊙ I/O Unit

J/O Module for fire curtain interface.

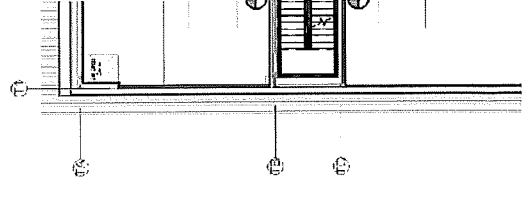
For Fire Alarm layout see floor plan over.

For Fire Alarm layout see floor plan over.

- signature throughout
4. Provide Fire alarm zones devices to have unique identification labels.
 5. Sprinkler system to inter



Tower Level T1
1:100



First Floor Plan



Master Plumbers™
Representing Excellence

Paul Summerfield Plumbing (2006) Ltd

125 Hollands Road, RD 1, Ashburton

admin@summerfieldplumbing.co.nz

03 3082109/0274 346815

* Craftsman Plumber * Gasfitter * Drainlayer

* Heating Engineer * Butynol Applicator

Boundary Backflow Device Test Certificate

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

Section 1: Owner/Occupier Details

Name

Address

Section 2: Backflow Details

Site Address

Make of Device Model Number

Serial Number Device Size

Device Location Water Meter #

Section 3: Test Details

	Reduced Pressure Devices					
	Double Check Devices		Relief Valve	Pressure Vacuum Breaker		
	1st Check	2nd Check		Air Inlet	Check Valve	
Initial Test	Closed Tight <input checked="" type="checkbox"/> kPa Leaked <input type="checkbox"/>	Closed Tight <input checked="" type="checkbox"/> kPa Leaked <input type="checkbox"/>	Opened at _____ kPa	Opened at _____ kPa Did Not Open <input type="checkbox"/>	_____ kPa Did Not Open <input type="checkbox"/>	_____ kPa Did Not Open <input type="checkbox"/>
Repairs and Materials Used						
Test and Repair	Closed Tight <input type="checkbox"/> kPa Leaked <input type="checkbox"/>	Closed Tight <input type="checkbox"/> kPa Leaked <input type="checkbox"/>	Opened at _____ kPa	Opened at _____ kPa Did Not Open <input type="checkbox"/>	_____ kPa Did Not Open <input type="checkbox"/>	_____ kPa Did Not Open <input type="checkbox"/>

Pass Fail Line Strainer Present

Comments

Air Gap Inspection Discharge Pipe Inlet Obstructed Yes No

Air Gap Inspection Compliant Yes No Spill Level Easily Determined Yes No

Section 4: Authorisation

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

Name

Signature Date

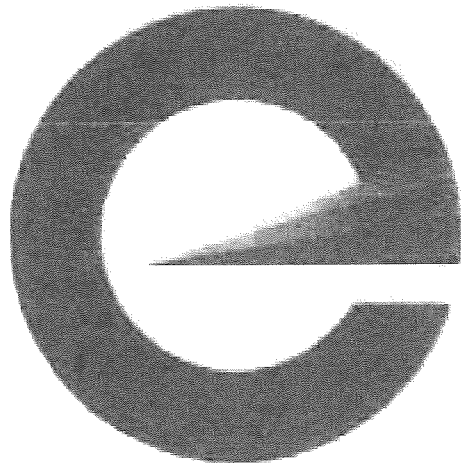
IQP No. Test Kit Serial No Last Date of Calibration

Company Name

Postal Address

Email

Phone Mobile



Electrical Workers Registration

SAFETY | COMPETENCY |



This form has been designed for use on
Part installations under a
system of electrical supply

LOCATION AND CONTACT

Location Details	9 Ashford Ave Ashburn
Contact Name	NZDCL
Name of Electrical worker:	G McCormick
Organisation/ company:	Get Wired Electrical Ltd
Phone:	0220109248



As Built Drainage Plan Template

NZ Davis

BC No: 203716 Site Address: DP:
Assessment No: Lot No:
Plumber: Mark Summerfield Drainlayer: Mark Summerfield Reg No: 18176

- Please provide the following
- 1 Foot print of the building
 - 2 Stormwater drain - inc
 - 3 Water line (green ink)
 - 4 Toby shut-off valve.

