

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



Thompson Engineering 2002 Ltd | PO Box 2081, Washdyke - Timaru | 9b Meadows Road - Timaru  
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PROJECT

NZ Dairy Collaborative Group  
Infant Formula Blending Plant Offices

9 Ashford Ave., Ashburton

All Drawings property of Thompson Engineering 2002 Ltd

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

Construction Issue



## Architectural Drawings

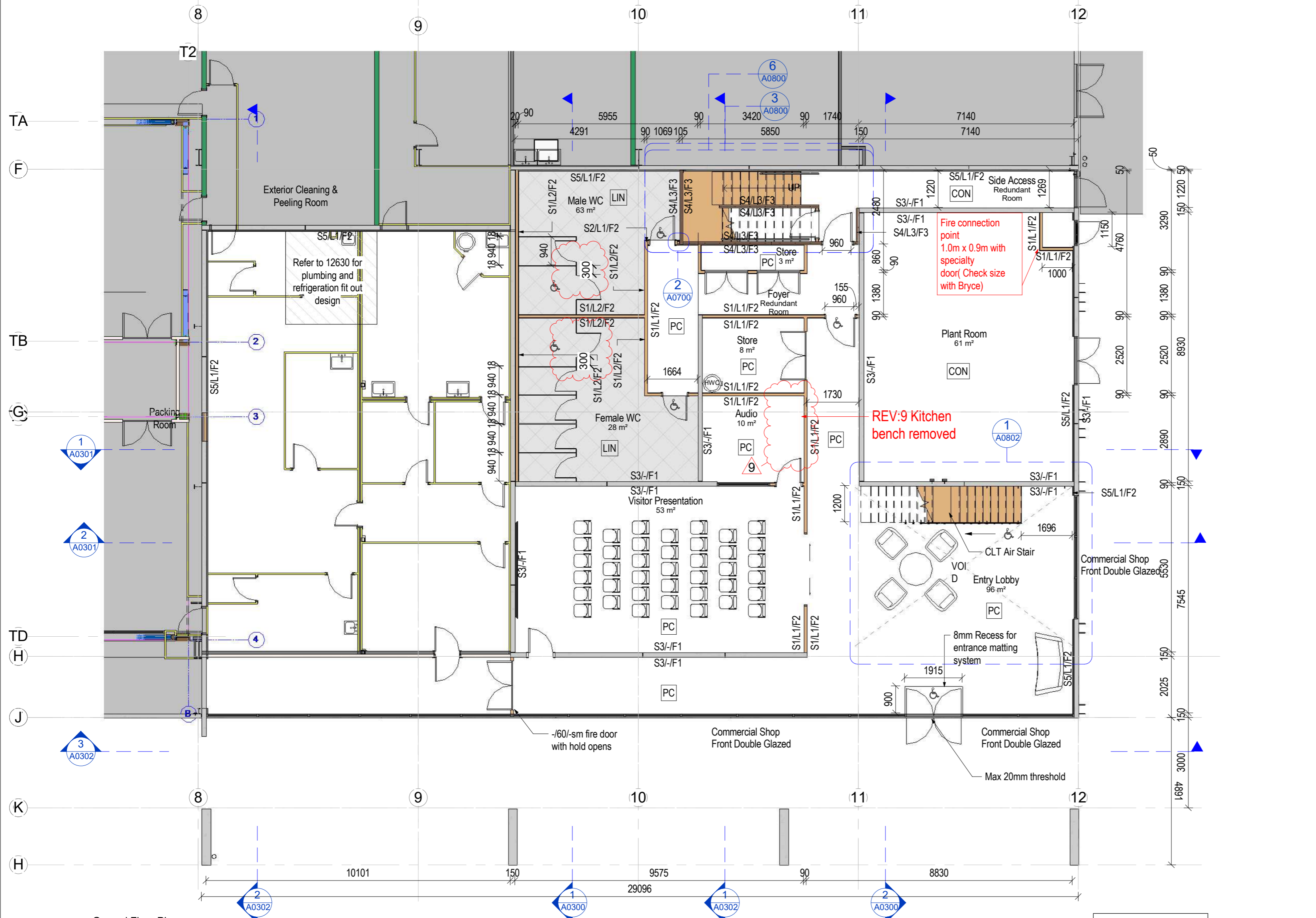
Sheet Number	Sheet Name	Current Revision	Current Revision Description	Current Revision Date
A0000	Cover	6	Council RFI's	16/6/16
A0101	Site Plan Office			
A0200	Arch Ground Floor Plan	9	Contract Issue	19/04/17
A0201	Arch First Floor Plan	9	Contract Issue	19/04/17
A0300	Cross Sections			
A0301	Cross Sections	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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Construction Issue

<b>JOB #</b>	12413
<b>DATE:</b>	13/05/16



**NOTES**

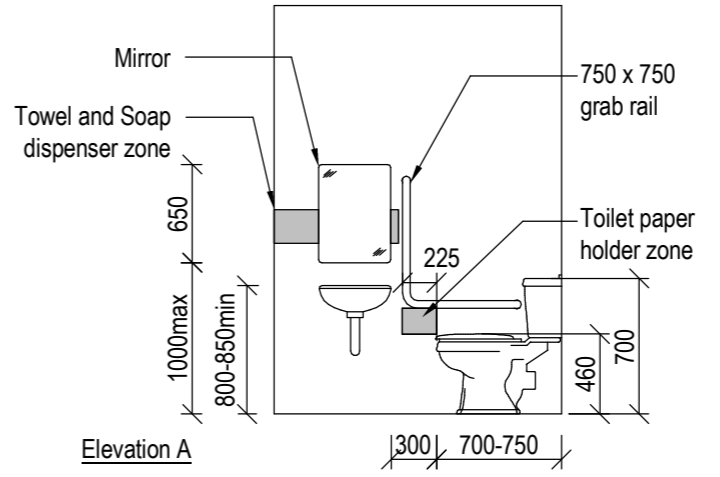
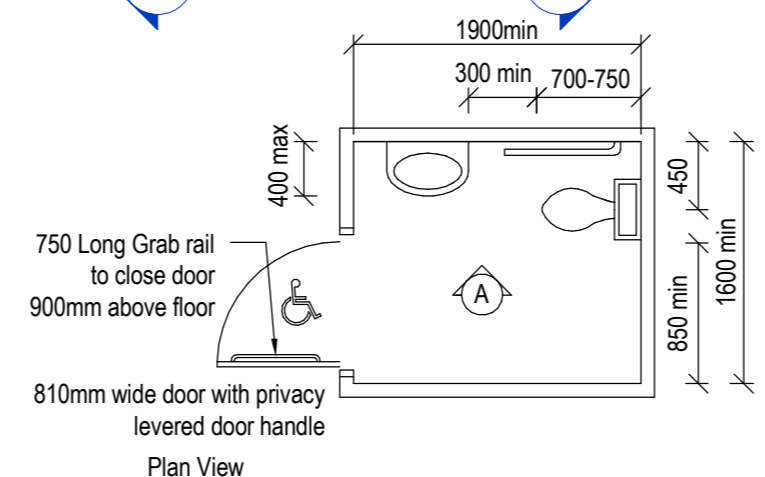
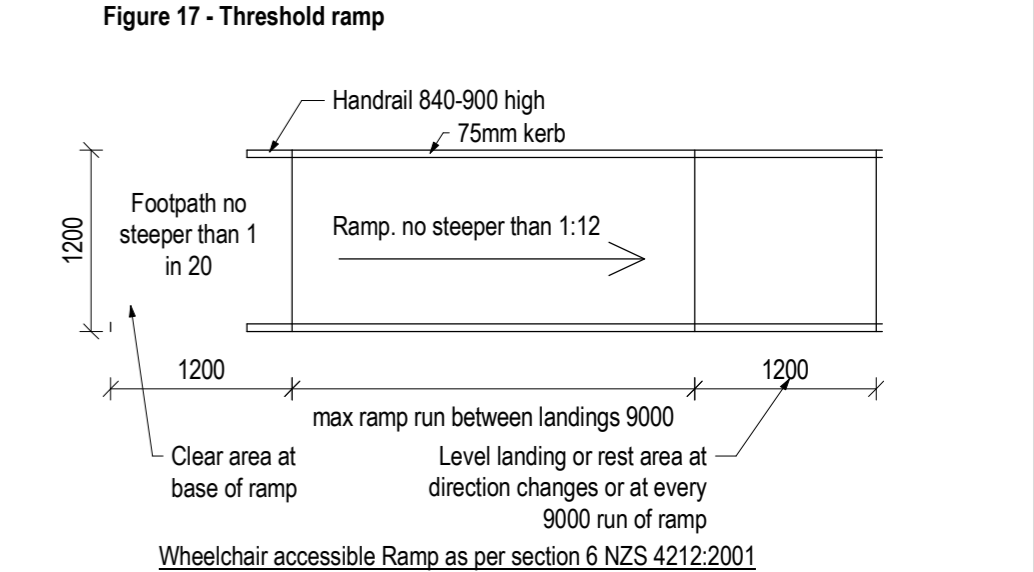
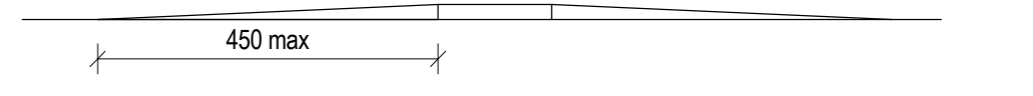
**Wheelchair front entrance access**  
 Wheelchair Ramp no steeper than 1:12 gradient. To comply with NZS 4121:2001 Section 6 - Footpaths, Ramps and Landings.  
 Where ramp is over 1:20 fall a handrail at 1m high shall be installed. OR Stepped threshold, no greater than 20mm in compliance with Section 7 Entrances, Corridors and Doors.  
**Front Counter**  
 As there is no exchanging of goods - there is not front counter therefore 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 Stepped 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

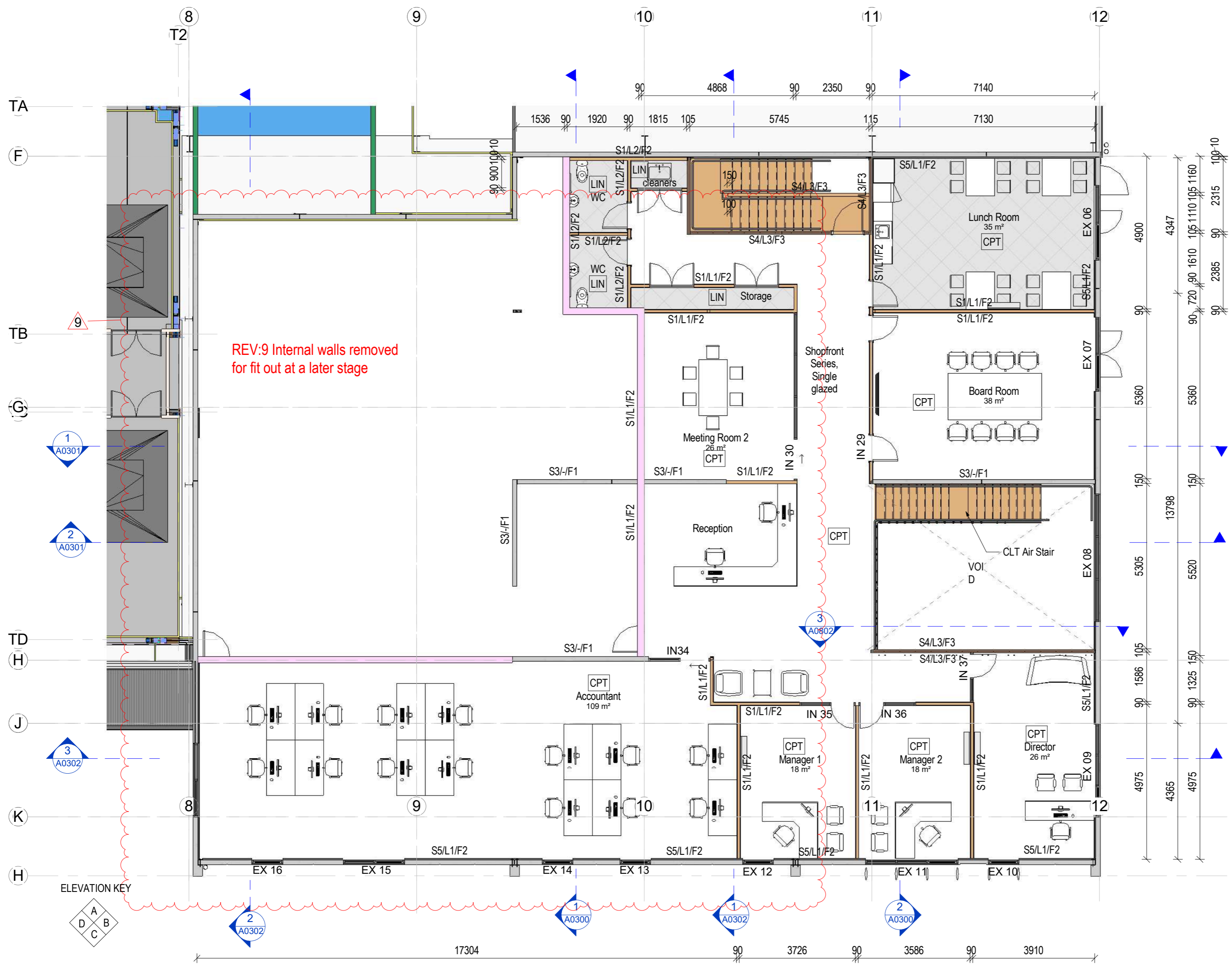


**THOMPSON**  
 CONSTRUCTION & ENGINEERING  
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**PROJECT**  
 Arch  
 NZ Dairy Collaborative Group  
 Infant Formula Blending Plant Offices  
 9 Ashford Ave., Ashburton  
 All Drawings property of Thompson Engineering 2002 Ltd

Rev#	Amendments	Date	SCALE	As indicated@ A2	JOB #
6	Council RFI's	16/6/16	As indicated@ A2		12413
9	Contract Issue	19/04/17			
			<b>DRAWN BY</b>	C. White	<b>DATE</b>
			<b>APPROVED BY</b>	A.Cloake	<b>REV</b>
			Arch Ground Floor Plan		<b>A0200</b>
Please note: All dimensions to be verified on site					
Paper size: <b>A2</b>					

**Construction Issue**



REV:9 Internal walls removed for fit out at a later stage

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
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F2: Paint Finish
F3: Fireshield fire rated coating system
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First Floor Plan  
1:100

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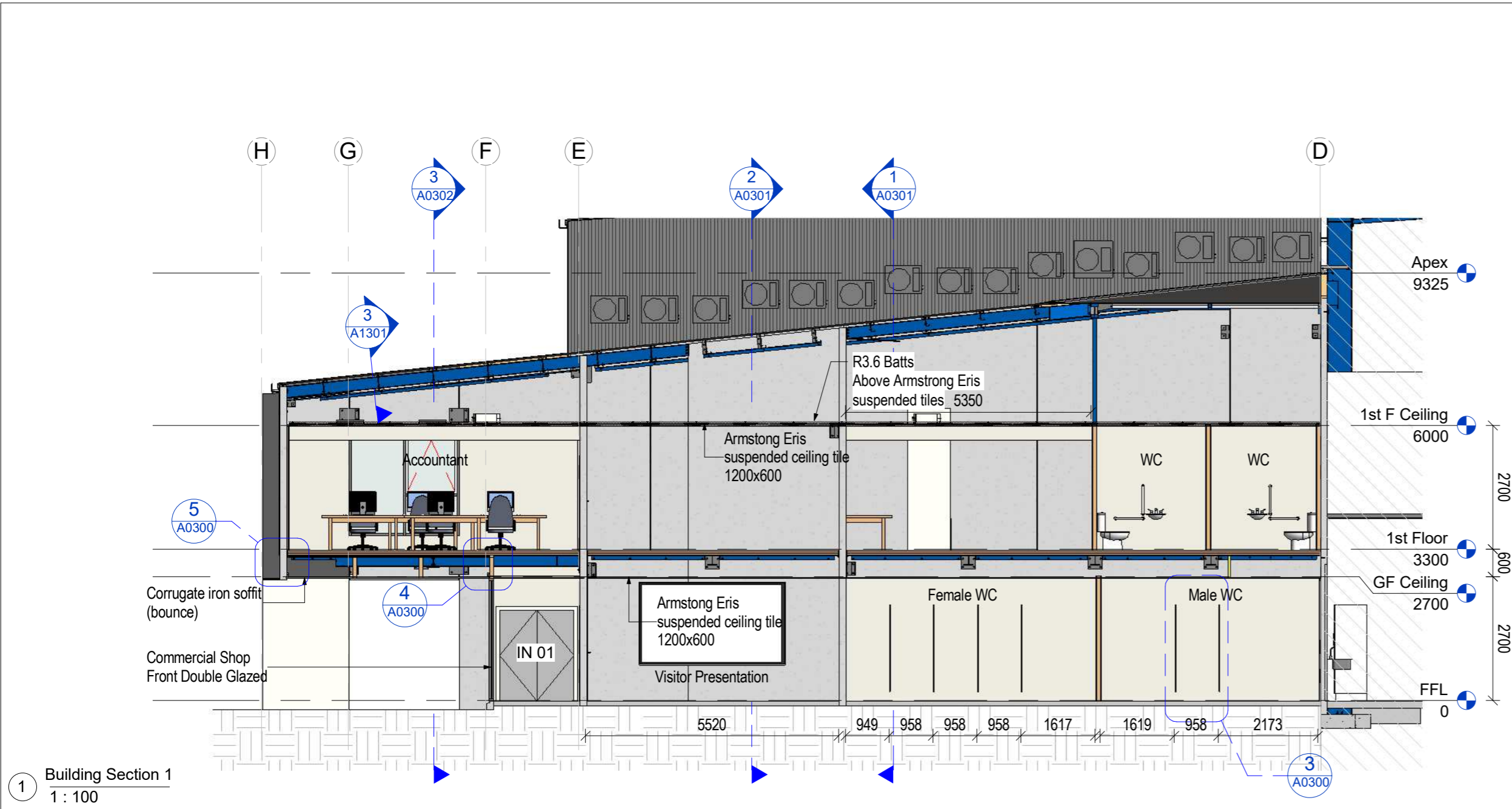
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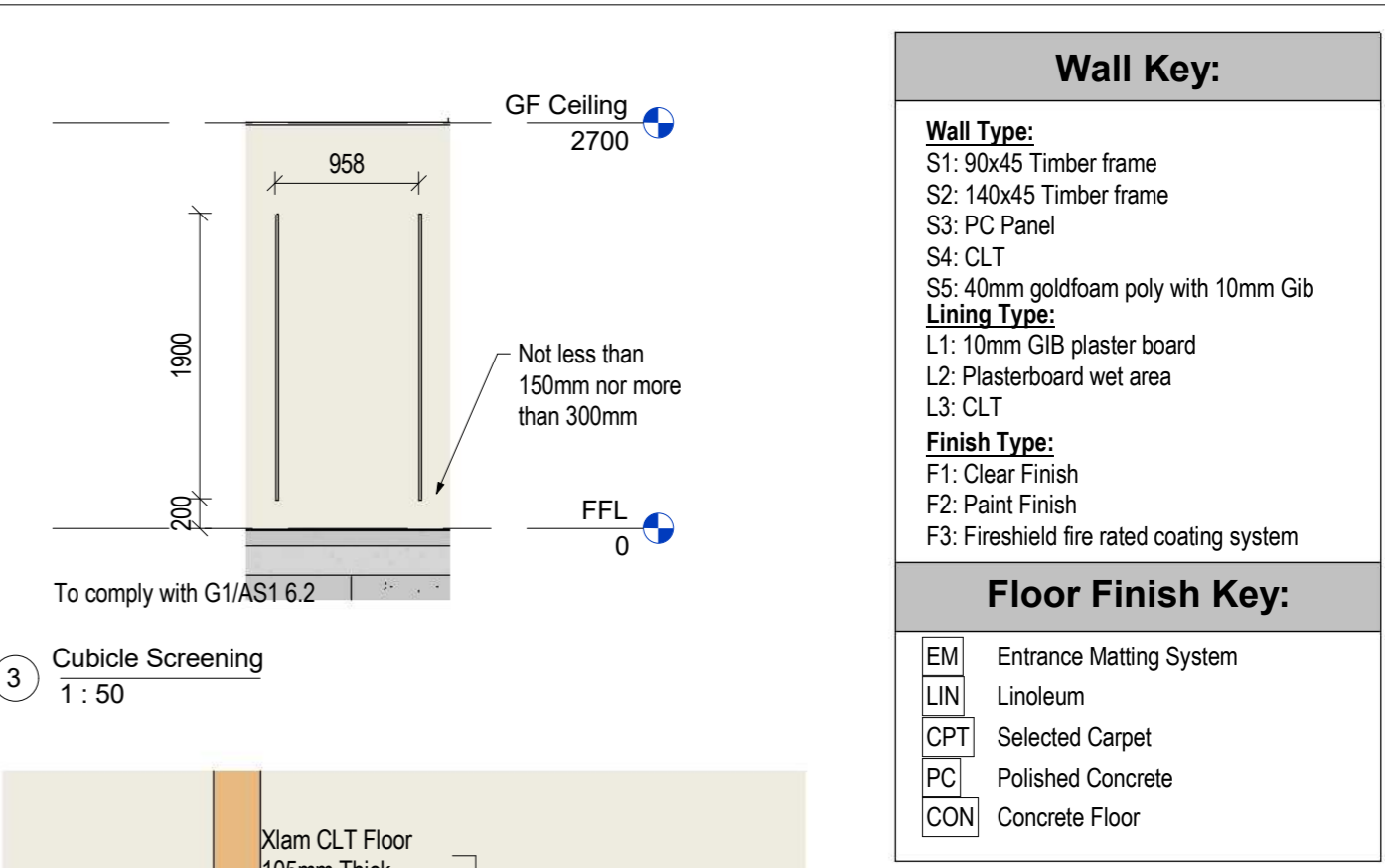
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Rev#	Amendments	Date	SCALE	As indicated@ A2	JOB #
9	Contract Issue	19/04/17	As indicated@ A2		12413
			<b>DRAWN BY</b>	C. White	<b>DATE</b>
			<b>APPROVED BY</b>	A.Cloake	<b>REV</b>
			Arch First Floor Plan		<b>A0201</b>
Please note: All dimensions to be verified on site					
Paper size: <b>A2</b>					

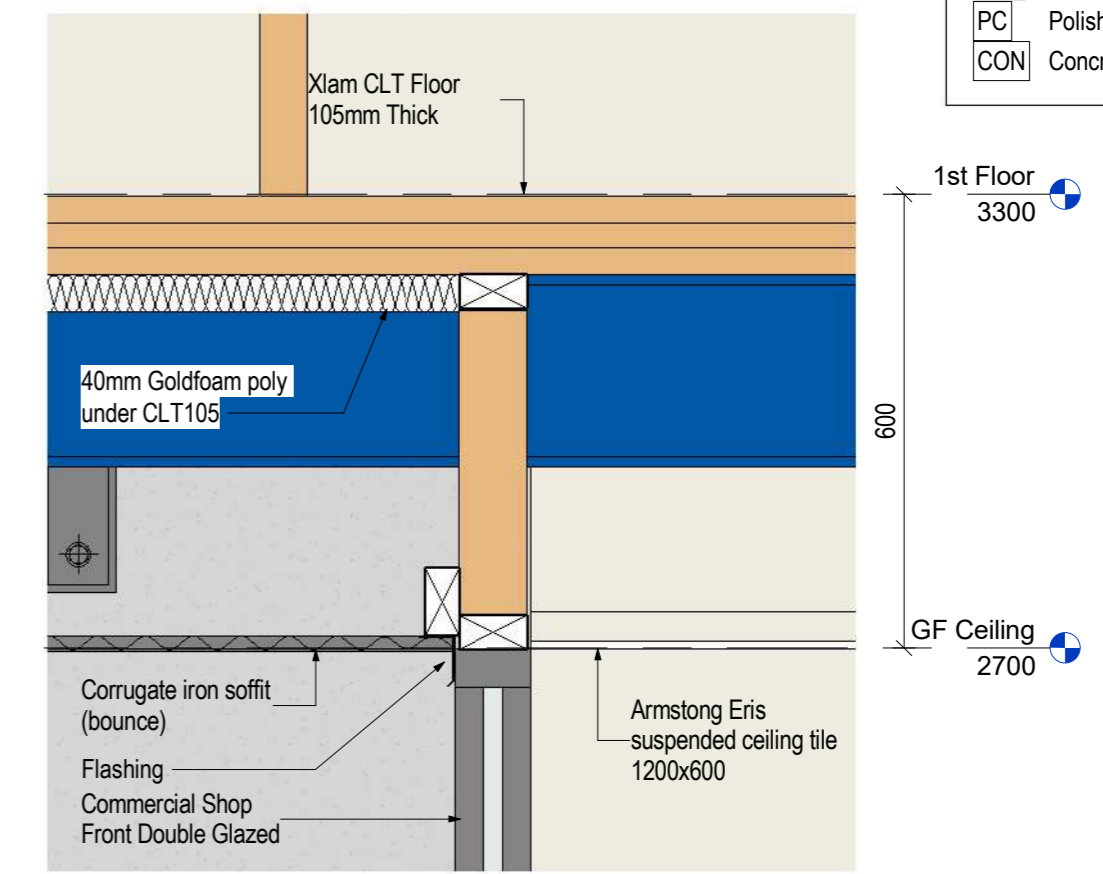
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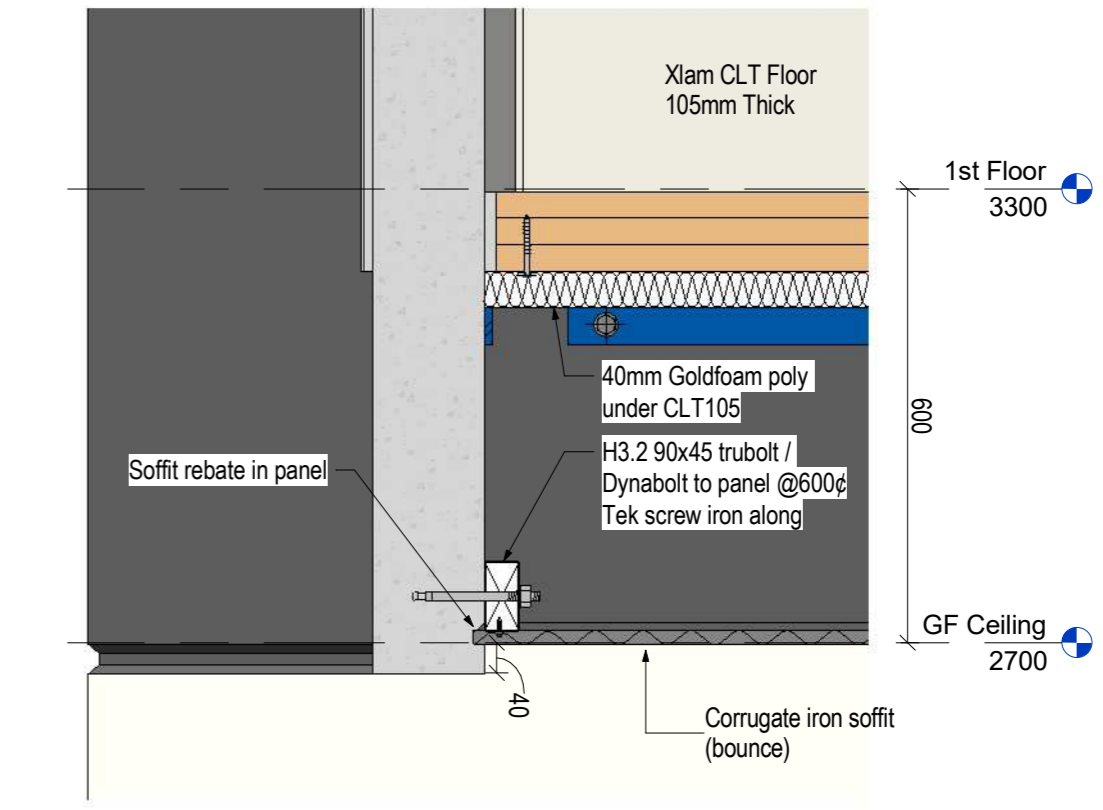
1 Building Section 1  
1 : 100



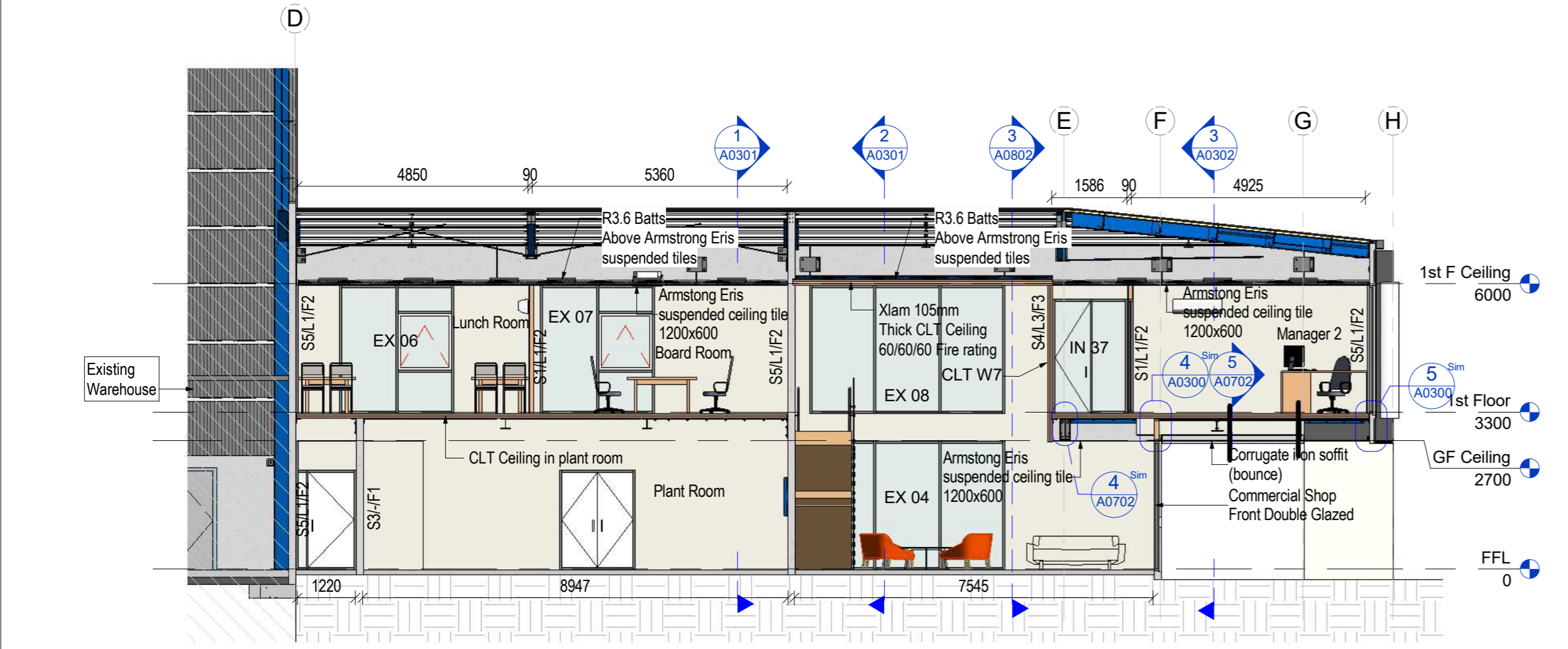
3 Cubicle Screening  
1 : 50



4 Soffit lining to window head  
1 : 10



5 Soffit lining to precast  
1 : 10



2 Building Section 2  
1 : 100

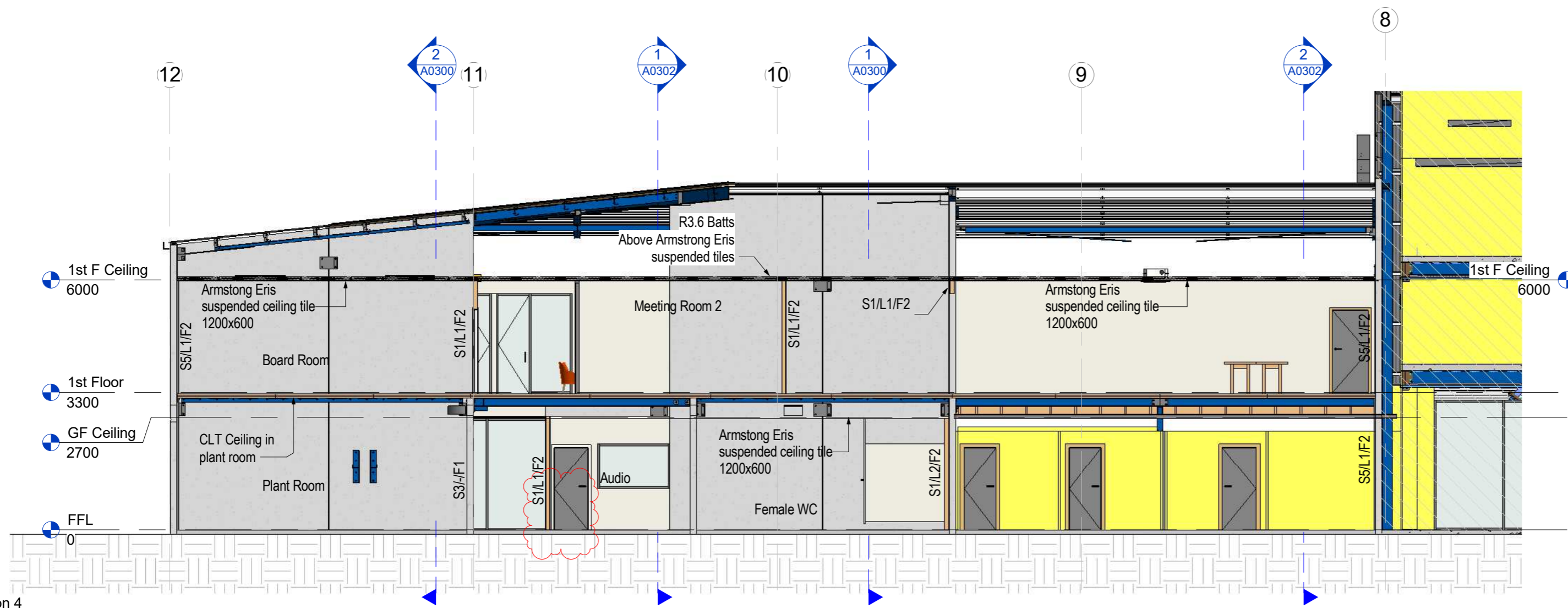
**Wall Key:**

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 S1: 90x45 Timber frame  
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 S4: CLT  
 S5: 40mm goldfoam poly with 10mm Gib  
**Lining Type:**  
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 L2: Plasterboard wet area  
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**Finish Type:**  
 F1: Clear Finish  
 F2: Paint Finish  
 F3: Fireshield fire rated coating system

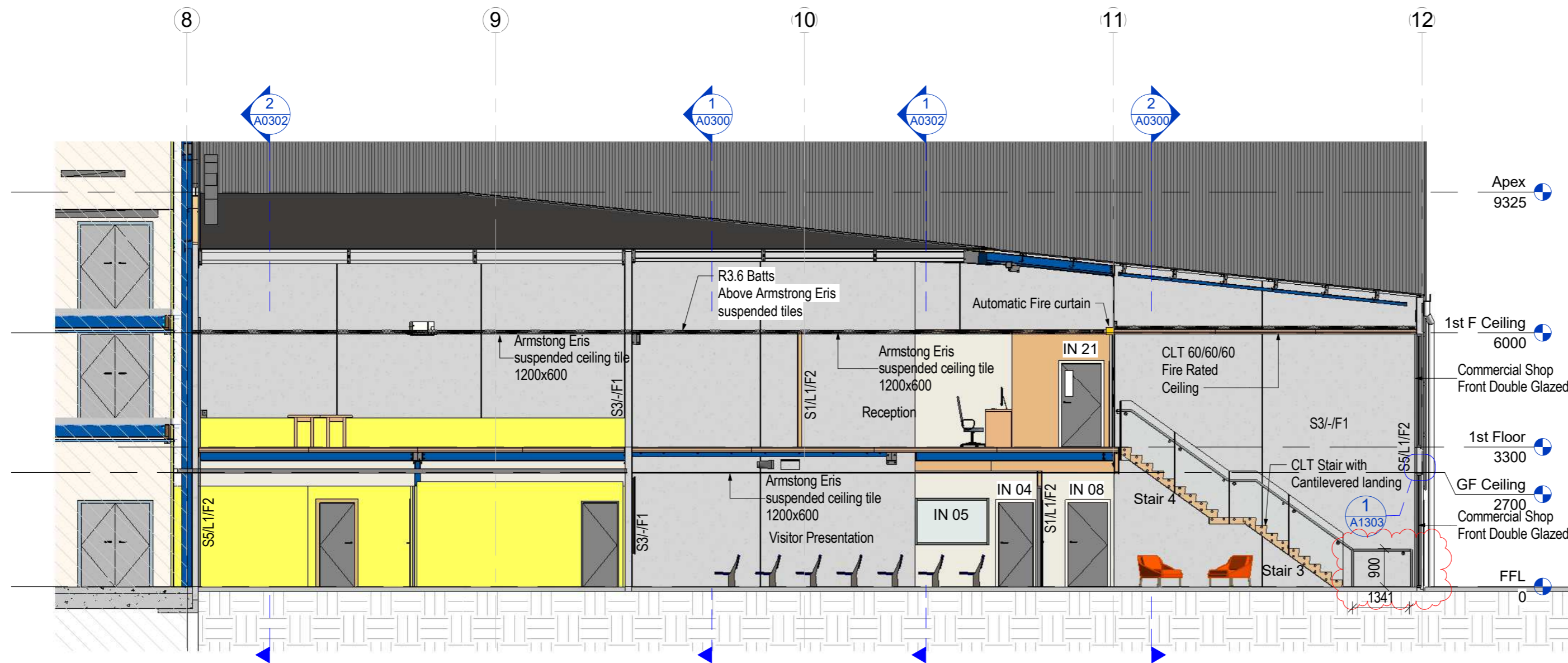
**Floor Finish Key:**

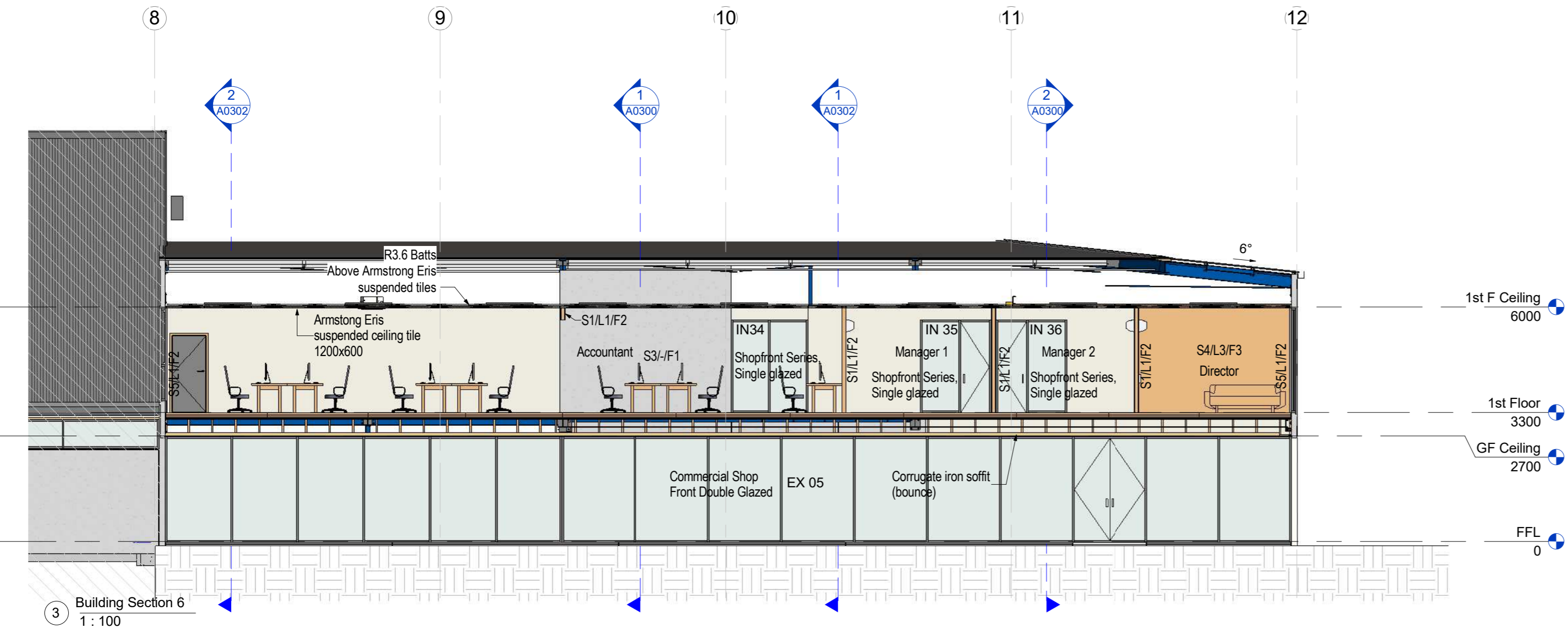
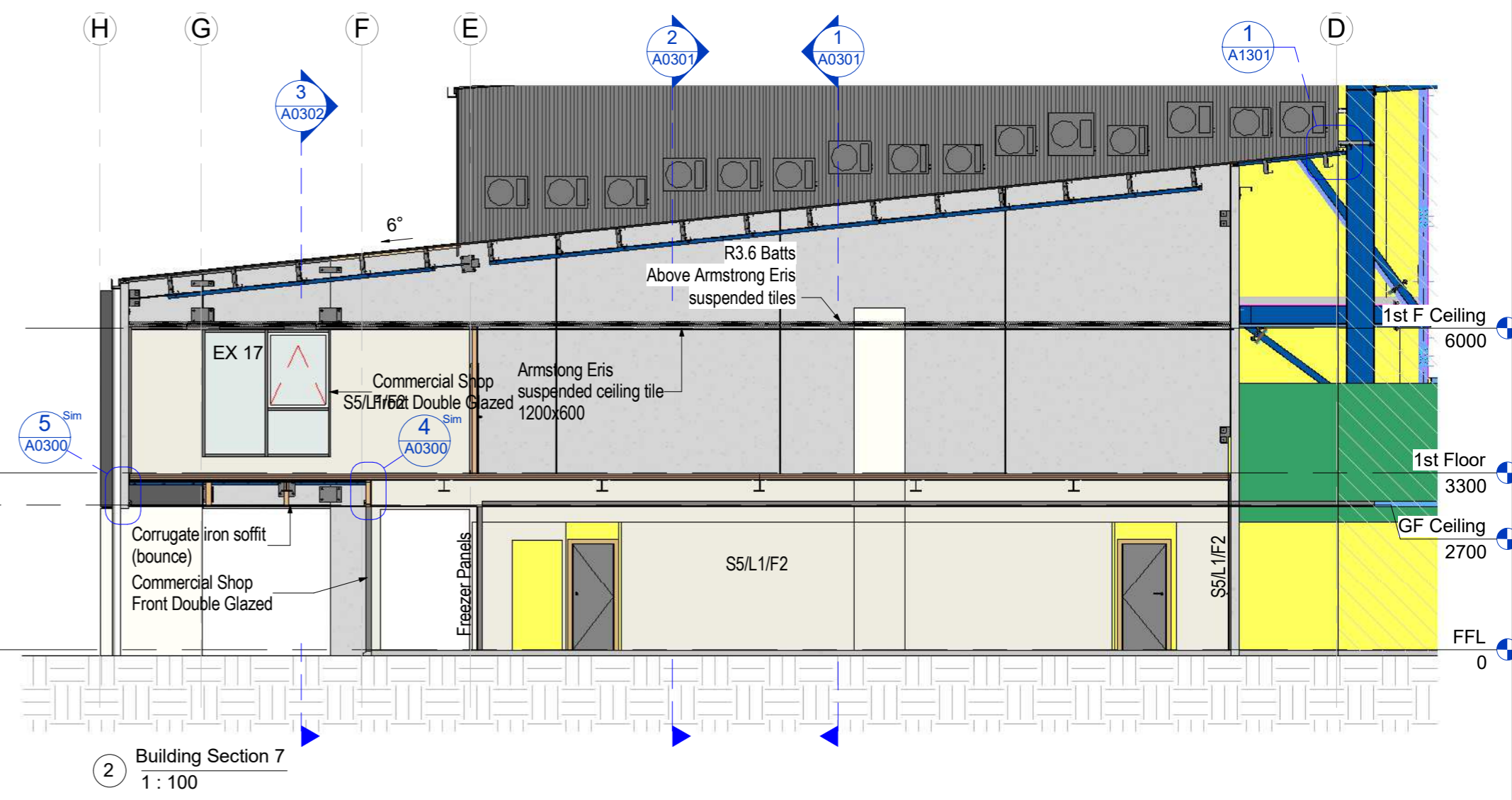
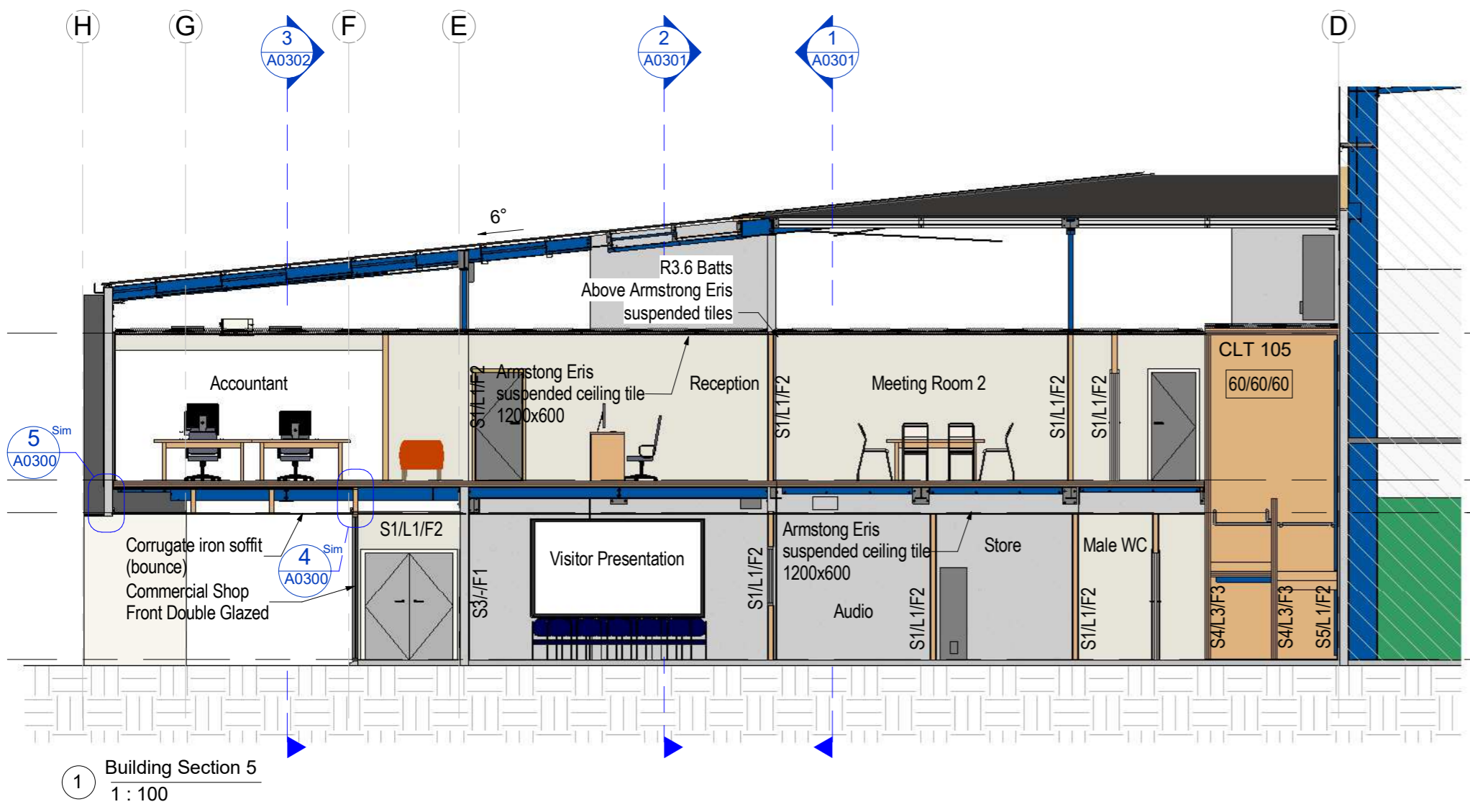
- EM Entrance Matting System  
 LIN Linoleum  
 CPT Selected Carpet  
 PC Polished Concrete  
 CON Concrete Floor

1 Building Section 4  
1 : 100



2 Building Section 3  
1 : 100

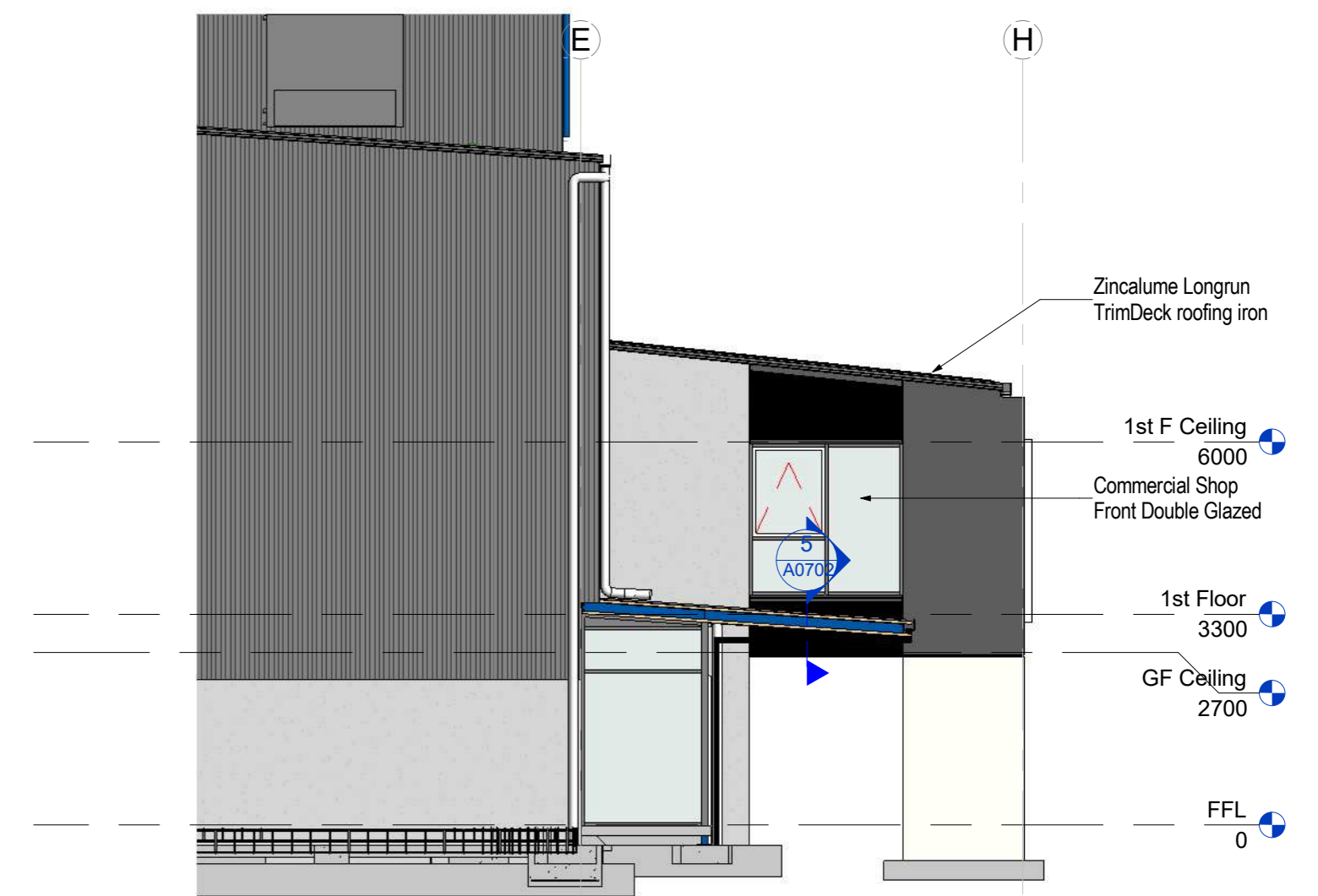




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CPT	Selected Carpet
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Elevation B (Sth East)  
1:100



Elevation D (Nth West)  
1:100



Elevation C (Sth West)  
1:100



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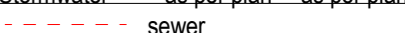

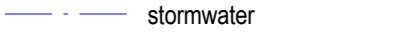
9 Ashford Ave., Ashburton

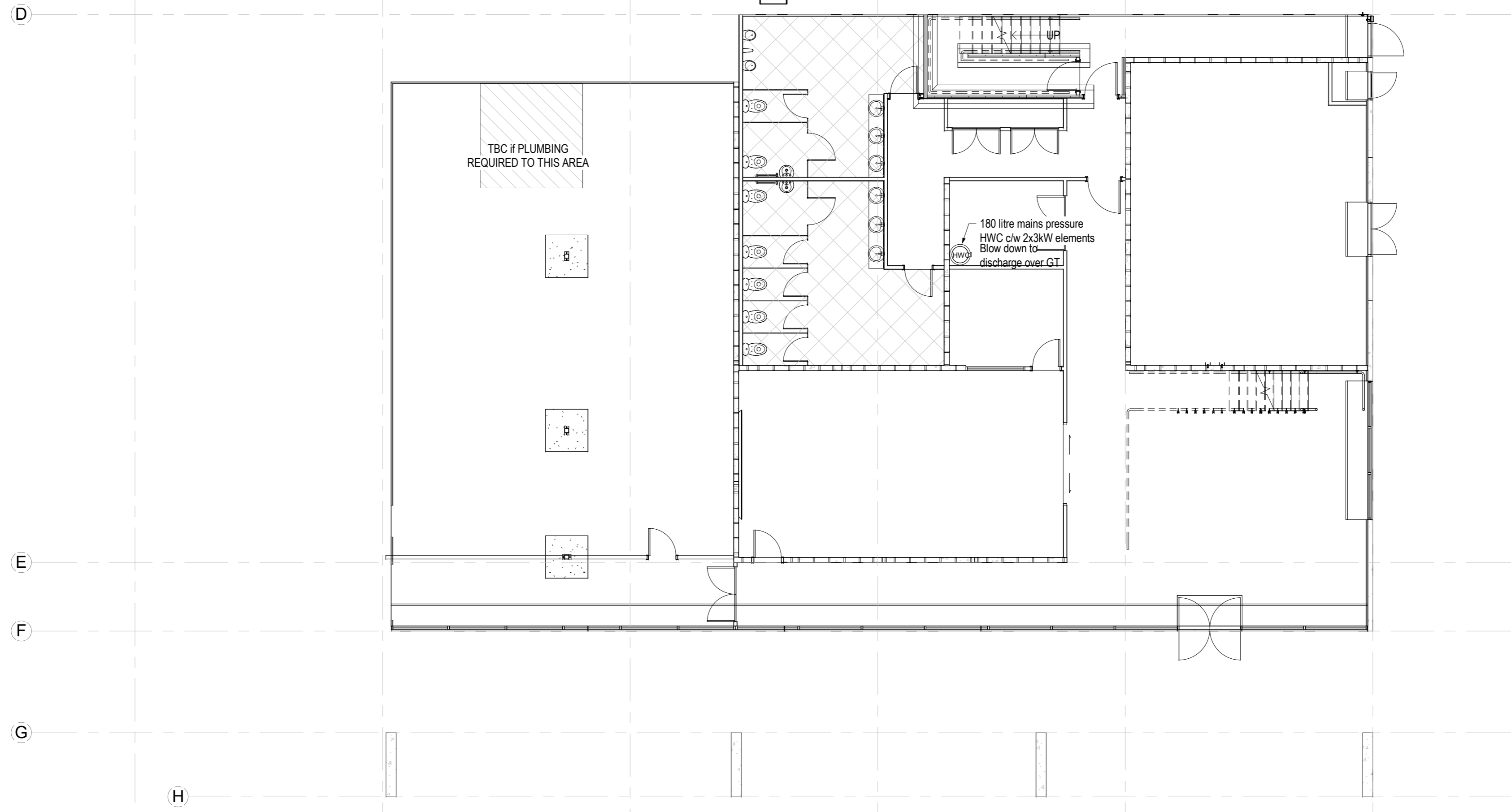
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Rev#	Amendments	Date	SCALE	JOB #
			1:100 @ A2	12413
			DRAWN BY C. White	DATE 13/05/16
			APPROVED BY A. Cloake	REV
			Elevations	<b>A0400</b>
			Please note: All dimensions to be verified on site	
				Paper size: <b>A2</b>

Construction Issue

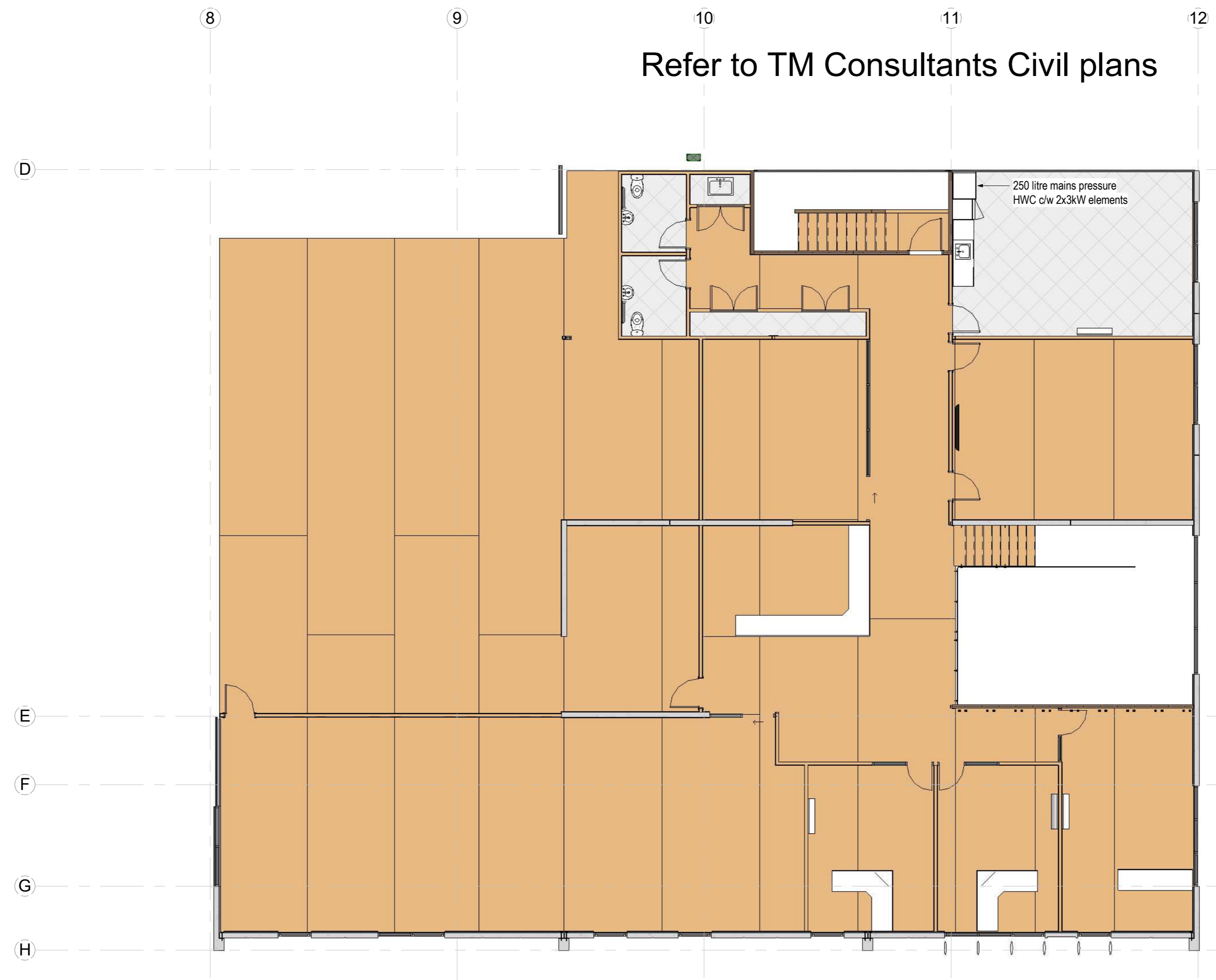
Refer to TM Consultants Civil plans

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

Refer to TM Consultants Civil plans



1 Plumbing First 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	-/1/-sm	40
IN 09	Solid Core	1420	1980	-/1/-sm	40
IN 10	Solid Core	1420	1980	-/1/-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

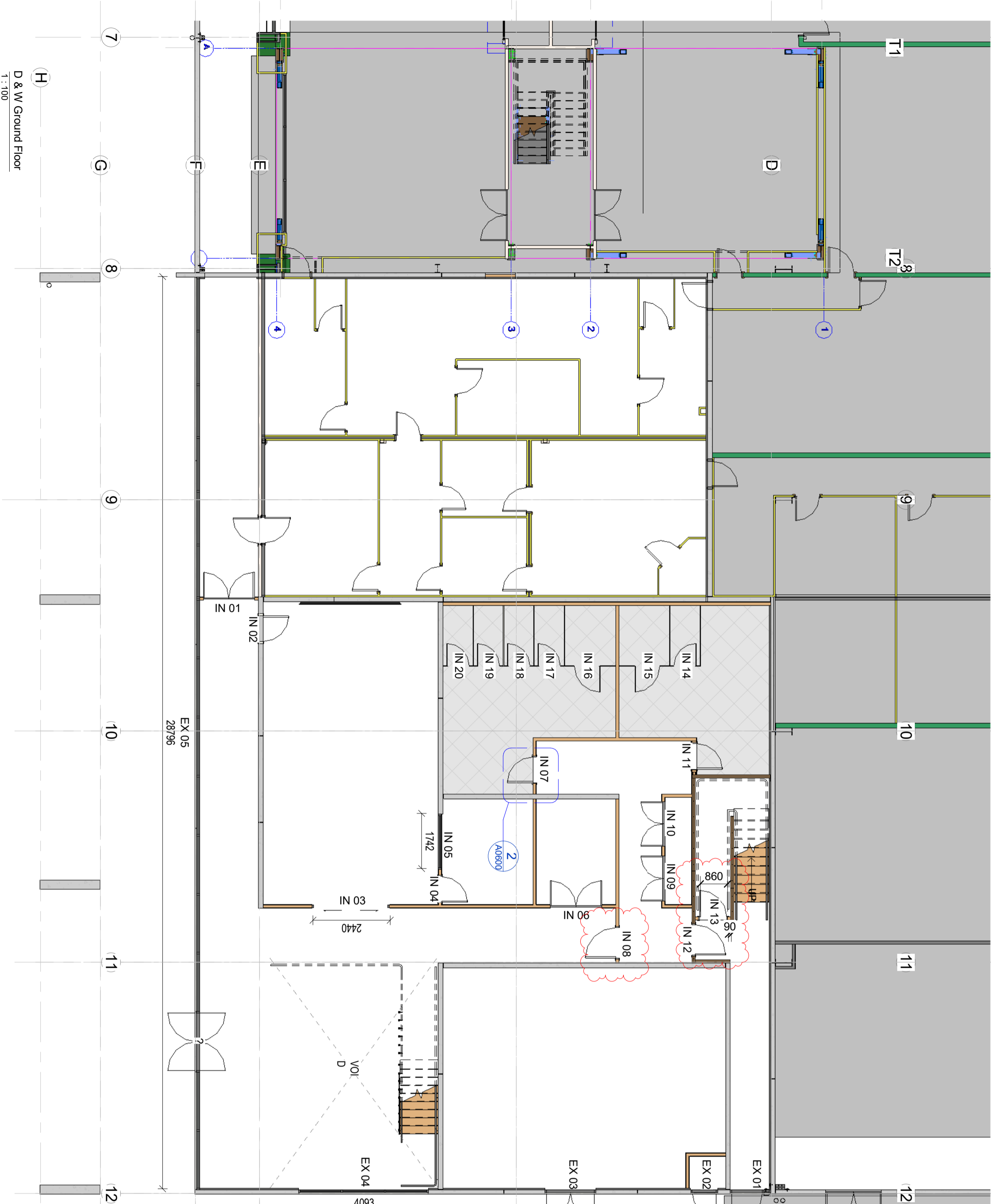
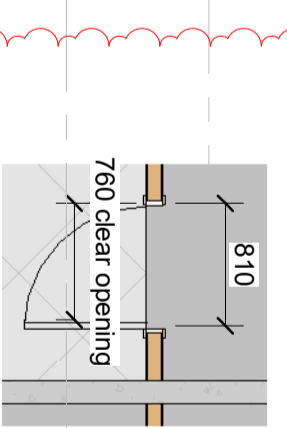
**Internal Aluminium Door and Window Schedule Ground floor**

Mark	Keynote	Length	Unconnected Height	Area	Base Constraint
IN 03	Commercial Shop Front Double Glazed Automatic Doors	2440	2400	6 m <sup>2</sup>	FFL
IN 05	Shopfront Series, Single glazed	1742	1100	2 m <sup>2</sup>	FFL

**External Aluminium Door and Window Schedule Ground...**

Mark	Keynote	Length	Unconnected Height	Area	Base Constraint
EX 01	Aluminium Solid Panel	1269	2100	3 m <sup>2</sup>	FFL
EX 02	Fire control Door	853	2100	2 m <sup>2</sup>	FFL
EX 03	Aluminium Solid Panel	1600	2100	3 m <sup>2</sup>	FFL
EX 04	Commercial Shop Front Double Glazed	4093	2700	11 m <sup>2</sup>	FFL
EX 05	Commercial Shop Front Double Glazed	28796	2712	78 m <sup>2</sup>	FFL
EX 08	Commercial Shop Front Double Glazed	4093	2700	11 m <sup>2</sup>	FFL

Grand total: 6 108 m<sup>2</sup>

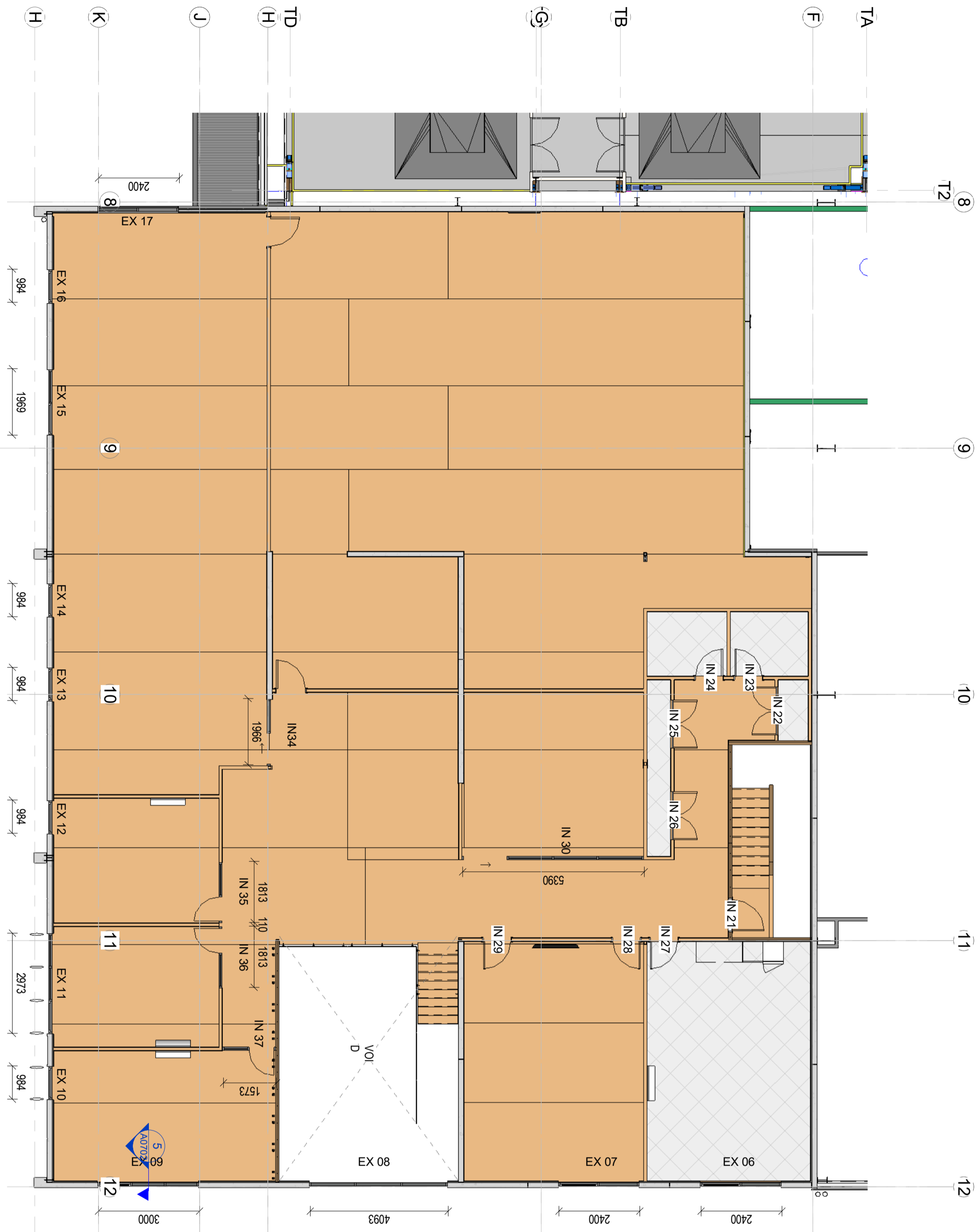


D & W Ground Floor  
1:100

Rev/#	Amendments	Date	SCALE	JOB #
3	Fire Rated Mid Floor Steel	20/05/16	As indicated@ A2	12413
6	Council RFI's	16/6/16	DRAWN BY C. White APPROVED BY A. Cloake D W Ground Floor Plan	DATE 13/05/16 REV 6 A0600 Paper size A2

**Construction Issue**

Please note, All dimensions to be verified on site



**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	Unconnecte dHeight	Area	Base Constraint
IN 30	Shopfront Series, Single glazed	5445	2700	15 m <sup>2</sup>	1st Floor
IN 35	Shopfront Series, Single glazed	1888	2400	4 m <sup>2</sup>	1st Floor
IN 36	Shopfront Series, Single glazed	1888	2400	4 m <sup>2</sup>	1st Floor
IN 37	Shopfront Series, Single glazed	1628	2400	4 m <sup>2</sup>	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 m <sup>2</sup>	1st Floor
EX 07	Commercial Shop Front Double Glazed	2400	2700	6 m <sup>2</sup>	1st Floor
EX 09	Commercial Shop Front Double Glazed	3000	2700	8 m <sup>2</sup>	1st Floor
EX 10	Commercial Shop Front Double Glazed	984	2700	3 m <sup>2</sup>	1st Floor
EX 11	Commercial Shop Front Double Glazed	2973	2700	8 m <sup>2</sup>	1st Floor
EX 12	Commercial Shop Front Double Glazed	984	2700	3 m <sup>2</sup>	1st Floor
EX 13	Commercial Shop Front Double Glazed	984	2700	3 m <sup>2</sup>	1st Floor
EX 14	Commercial Shop Front Double Glazed	984	2700	3 m <sup>2</sup>	1st Floor
EX 15	Commercial Shop Front Double Glazed	1969	2700	5 m <sup>2</sup>	1st Floor
EX 16	Commercial Shop Front Double Glazed	984	2700	3 m <sup>2</sup>	1st Floor
EX 17	Commercial Shop Front Double Glazed	2400	2381	6 m <sup>2</sup>	1st Floor
Grand total: 11					53 m <sup>2</sup>

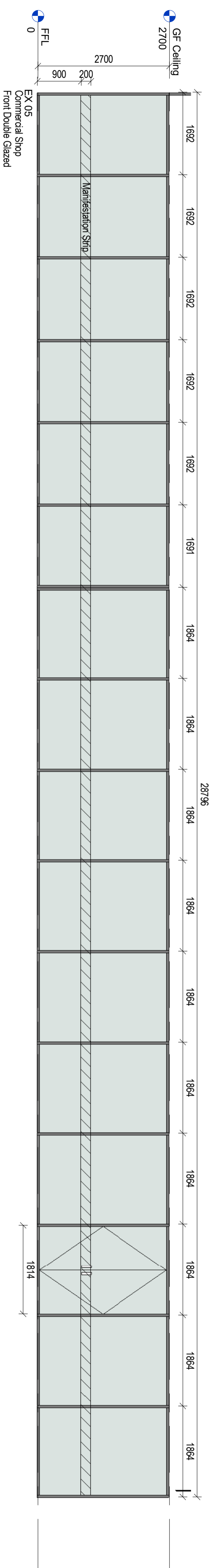
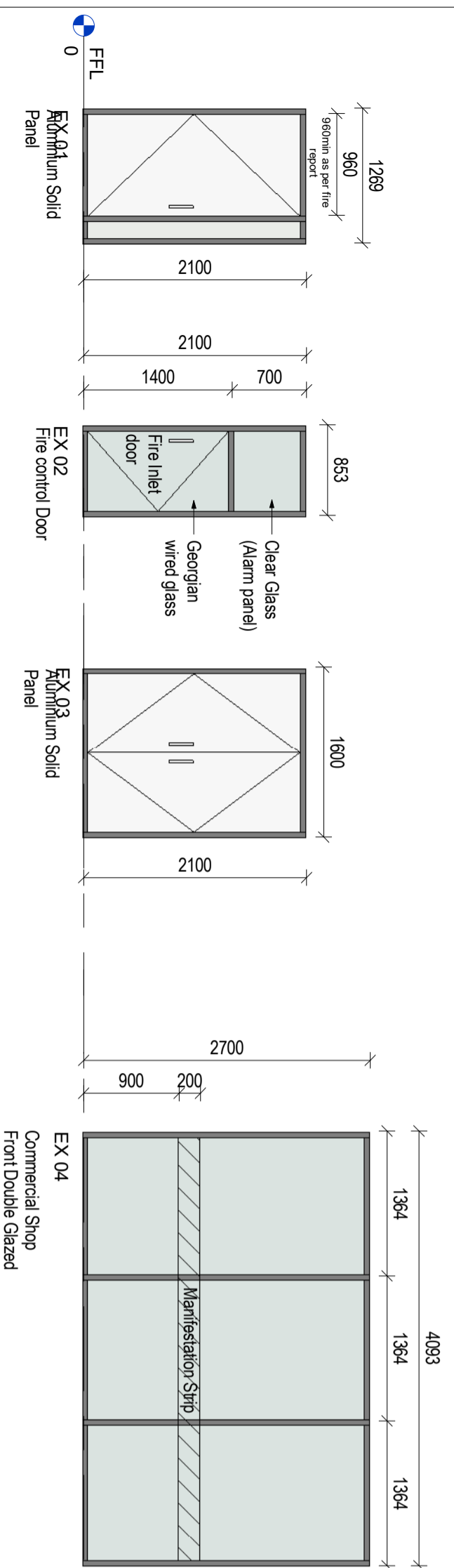
D & W First Floor  
1 : 100

**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.

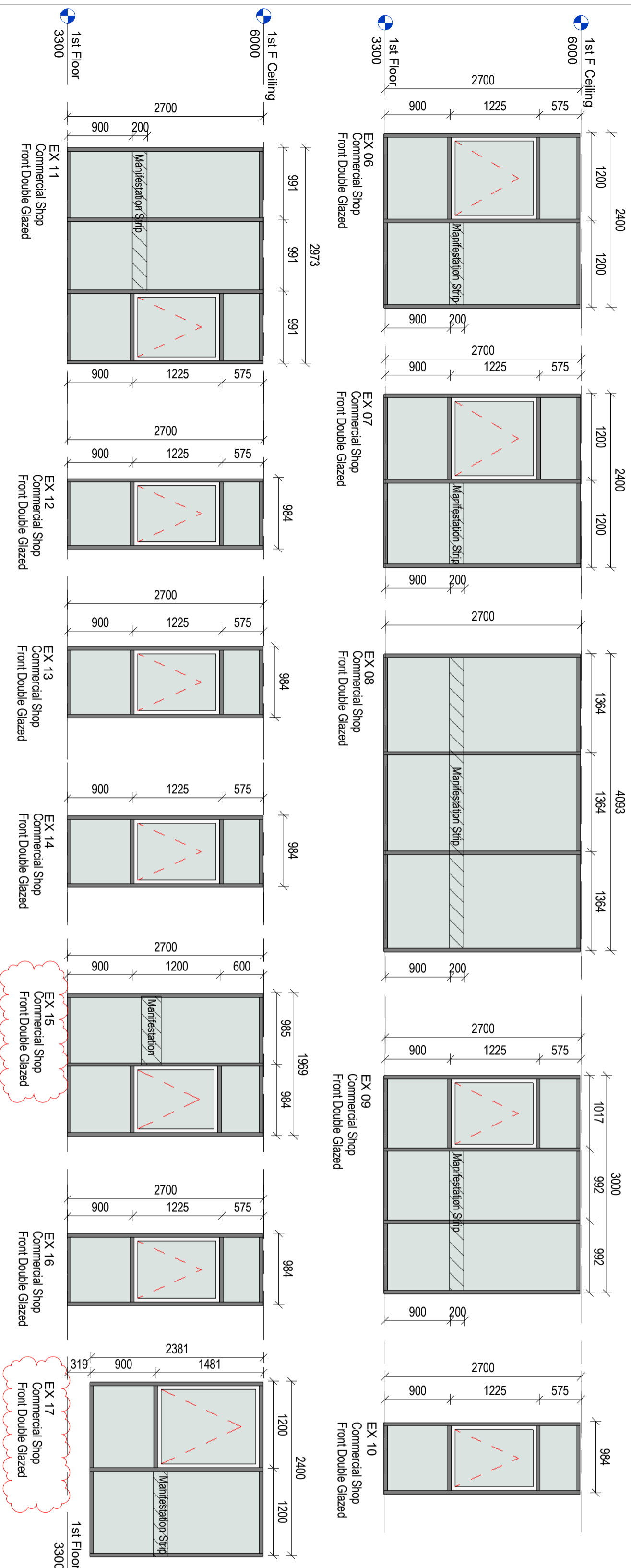
refer to the floor plans and elevations for positions.

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 4423:part 4 & part 3



**External Aluminium Door and Window Schedule**

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

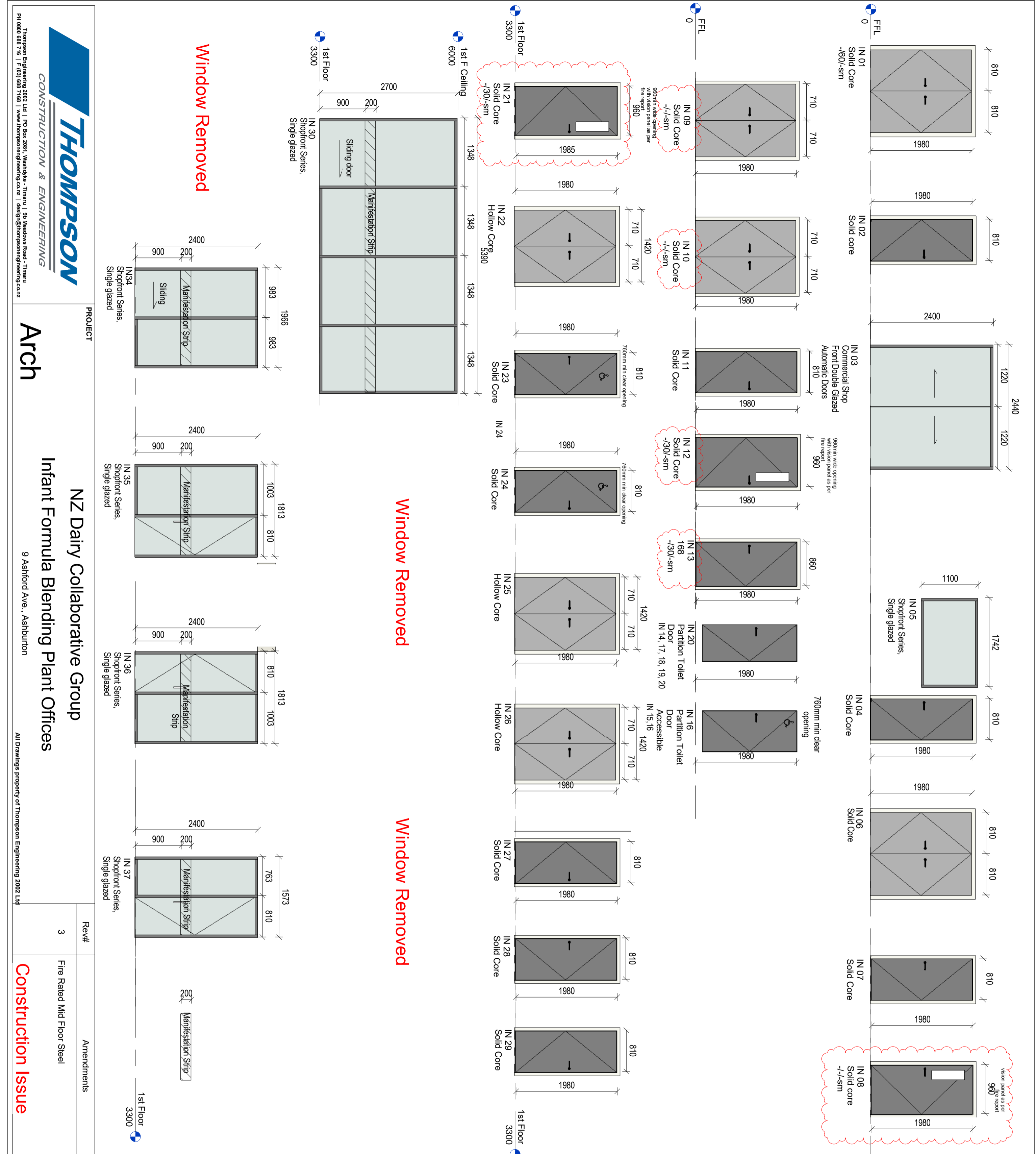


**Door Schedule**

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	-/1/-sm	40	
IN 09	Solid Core	1420	1980	-/1/-sm	40	
IN 10	Solid Core	1420	1980	-/1/-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	
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**

Mark	Keynote	Length	Unconnected Height	Area	Base Constraint
IN 03	Commercial Shop Front Double Glazed Automatic Doors	2440	2400	6 m <sup>2</sup>	FFL
IN 05	Shopfront Series, Single glazed	1742	1100	2 m <sup>2</sup>	FFL
IN 30	Shopfront Series, Single glazed	5445	2700	15 m <sup>2</sup>	1st Floor
IN 35	Shopfront Series, Single glazed	1868	2400	4 m <sup>2</sup>	1st Floor
IN 36	Shopfront Series, Single glazed	1868	2400	4 m <sup>2</sup>	1st Floor
IN 37	Shopfront Series, Single glazed	1628	2400	4 m <sup>2</sup>	1st Floor



Window Removed

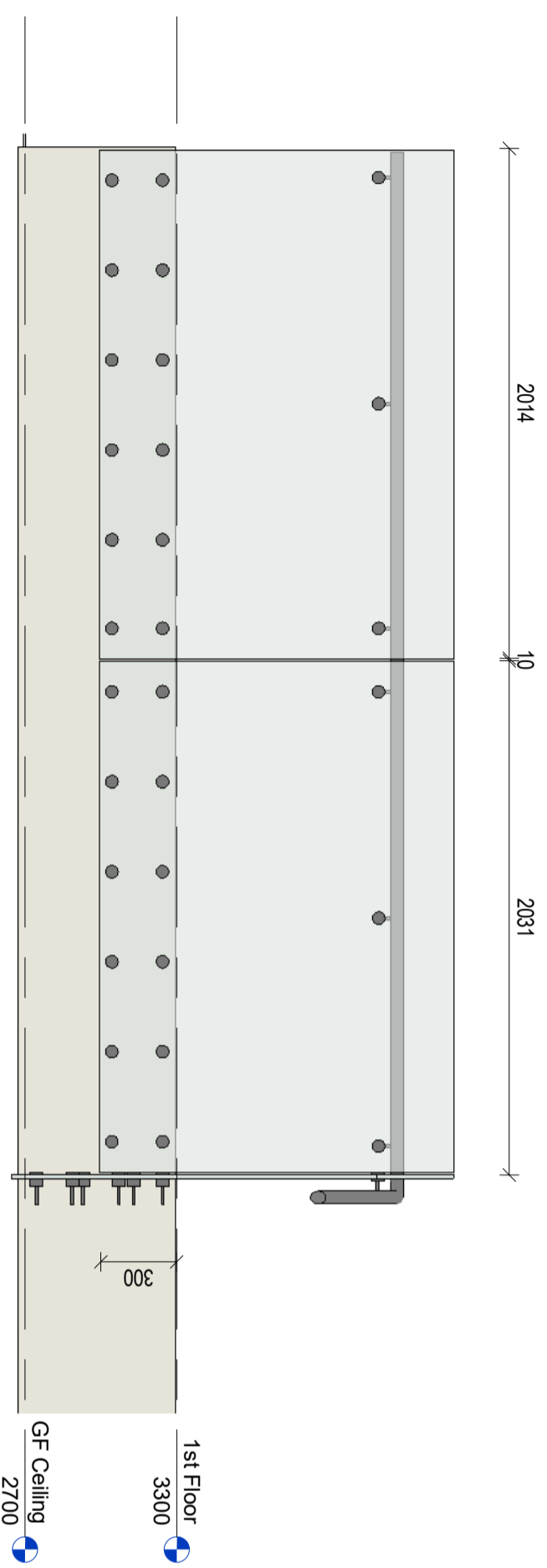
Window Removed

Window Removed

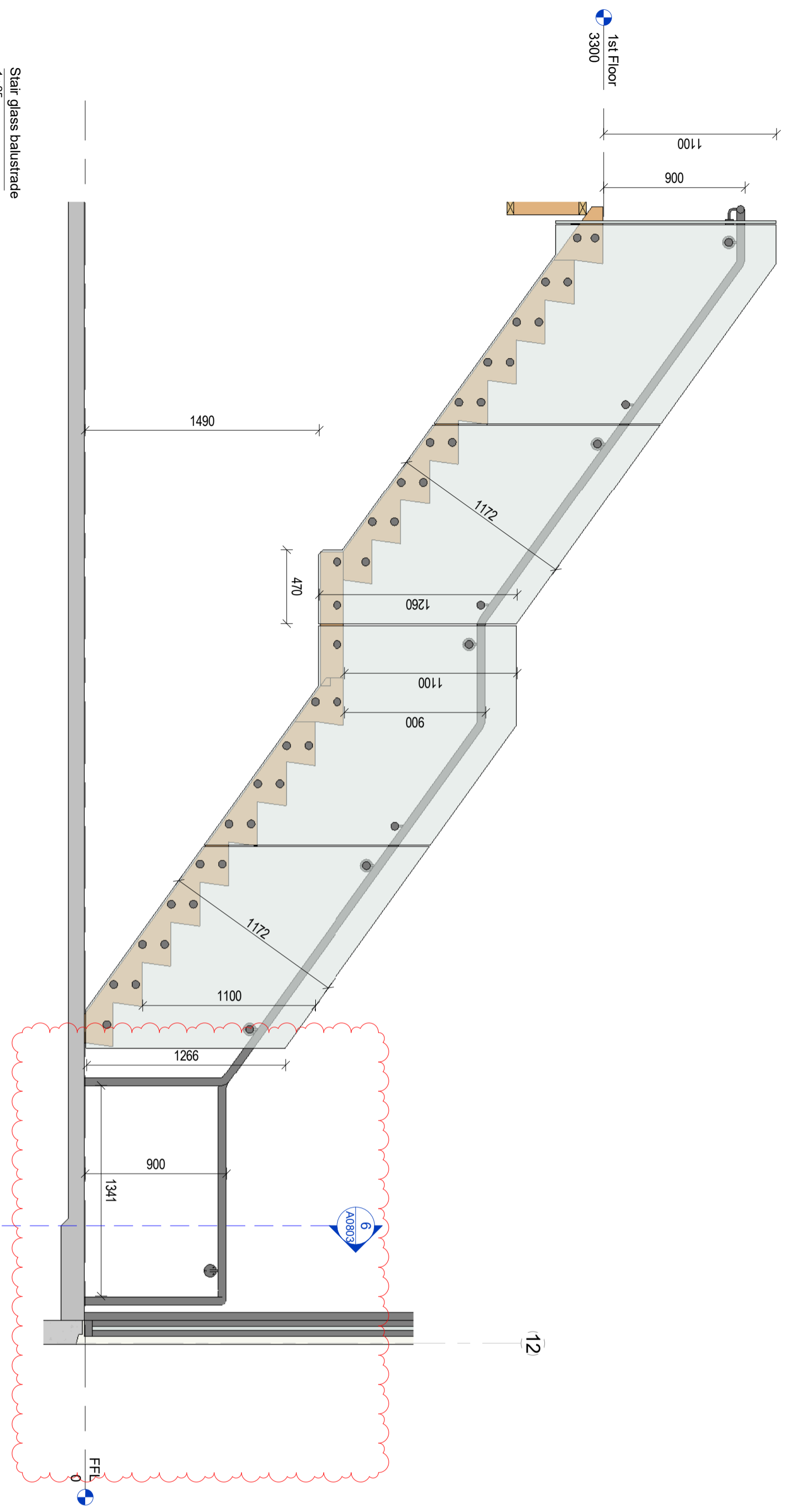
Rev#	Amendments
3	Fire Rated Mid Floor Steel

DATE	DATE	REV	REV
20/05/16	13/05/16		3
		D W Internal	<b>A0603</b>

SCALE 1:50 @ A2  
 JOB# 12413  
 Please note, all dimensions to be verified on site  
 Paper size **A2**

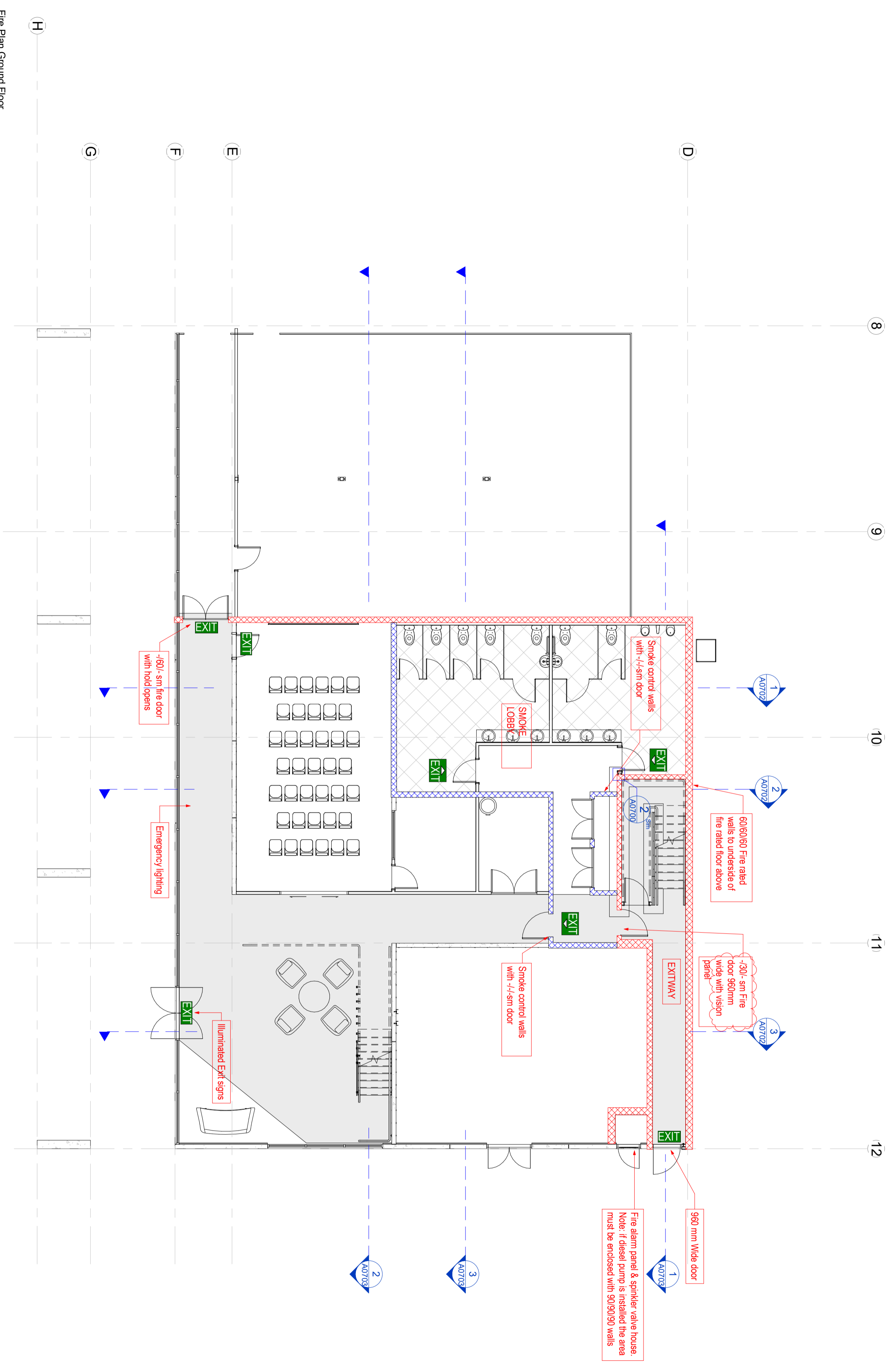


Glass Balustrade upstairs  
1:25

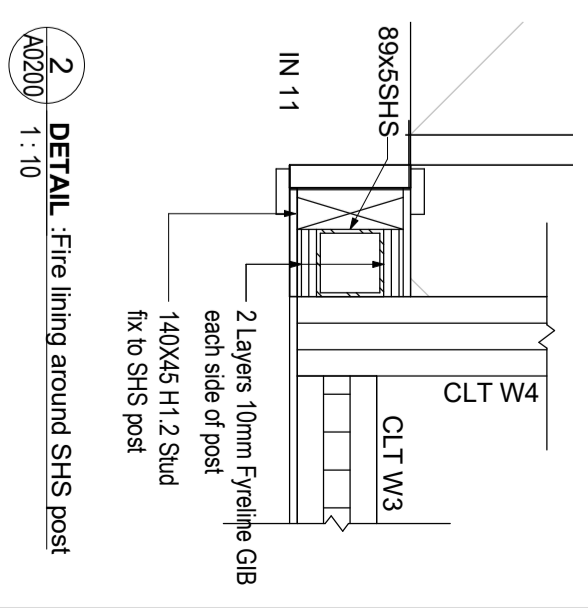


Stair glass balustrade  
1:25

Rev#	Amendments	Date	SCALE	JOB #
5	Client Changes	24/05/16	1:25 @ A2	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

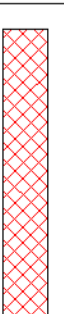



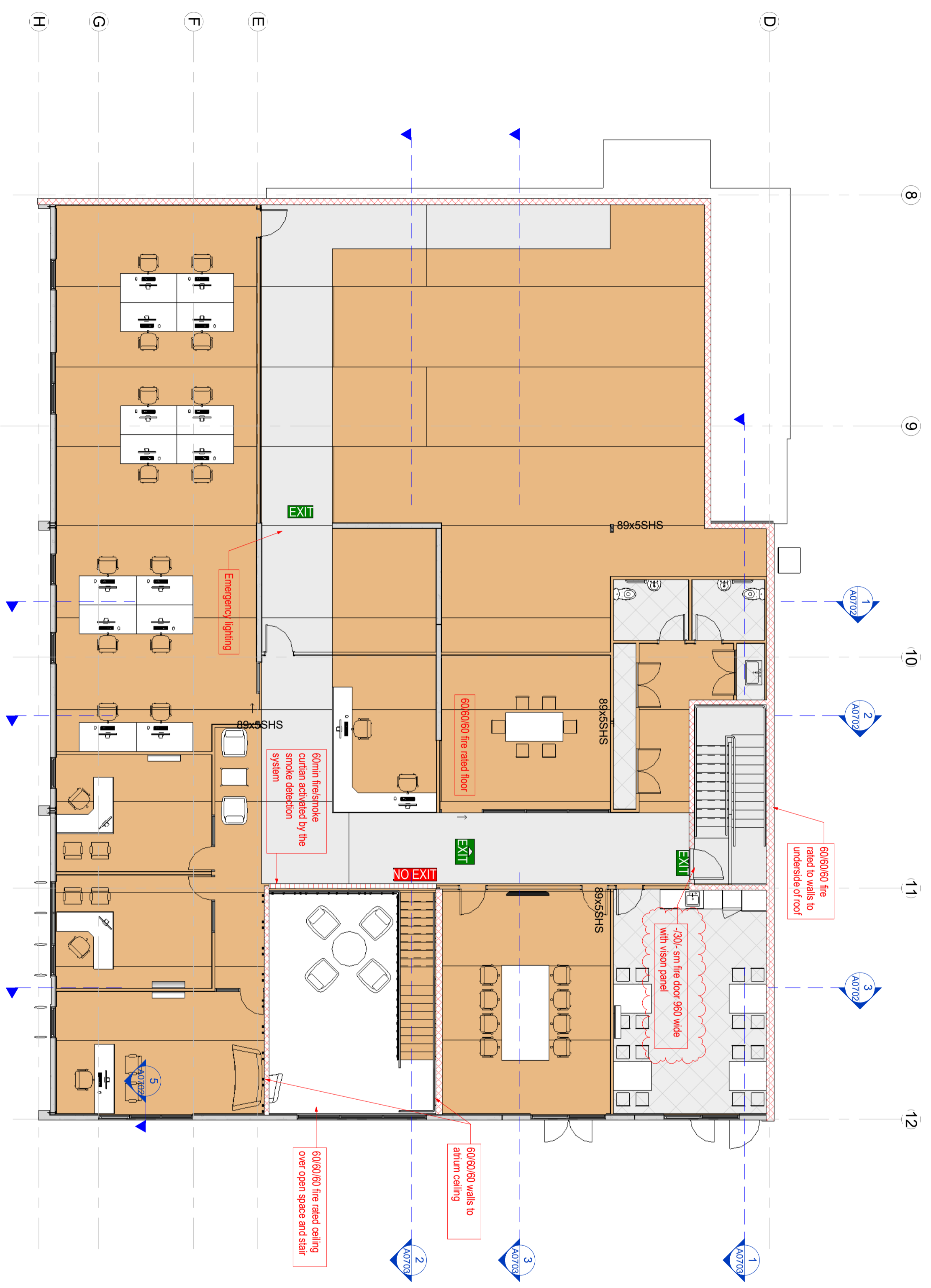
FIRE RATING KEY:	
	60/60/60 Fire Rated Wall
	+/- Smoke Control Wall



Fire Plan Ground Floor  
1:100

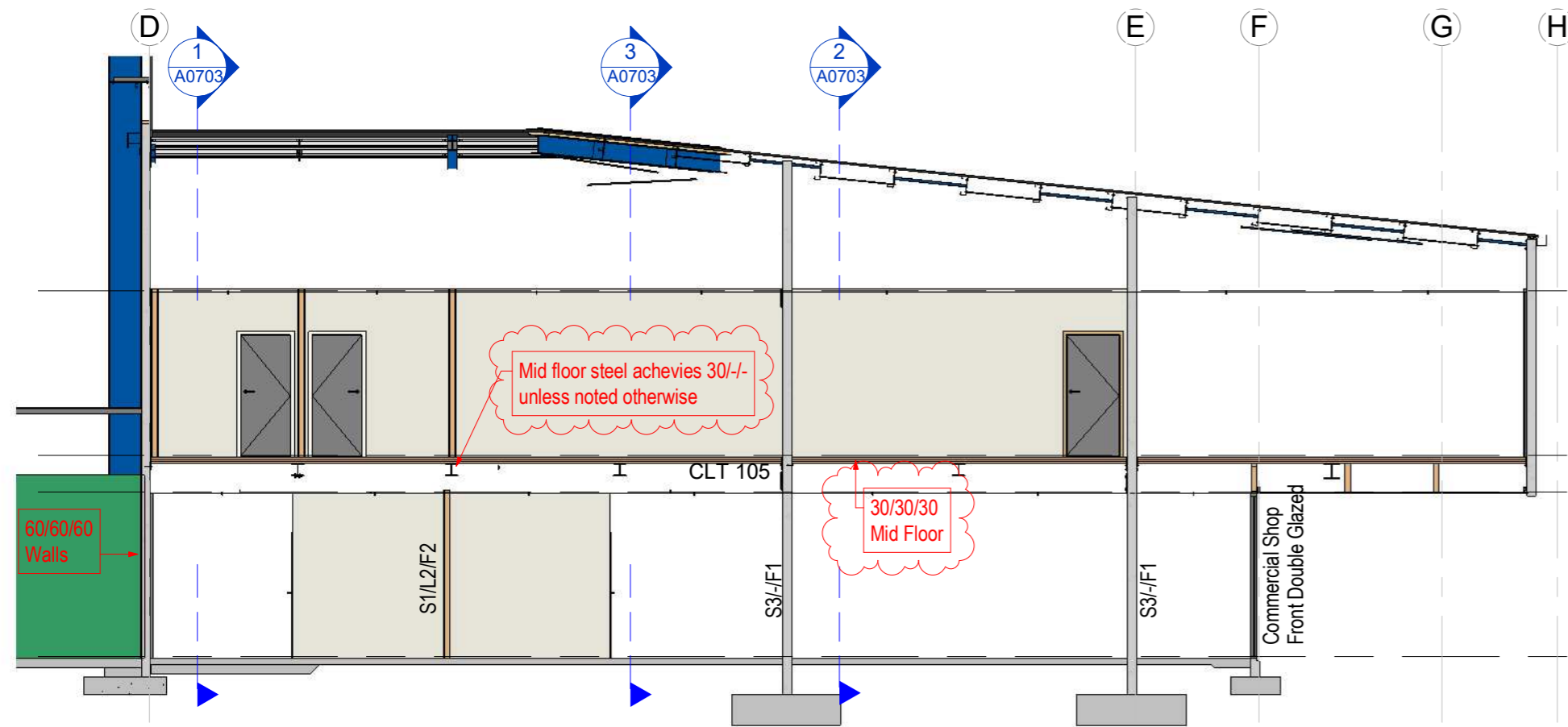
Rev#	Amendments	Date	SCALE	JOB #
3	Fire Rated Mid Floor Steel	20/05/16	As indicated@ A2	12413
	<b>Construction Issue</b>			
			DRAWN BY C. White	DATE 13/05/16
			APPROVED BY A. Cloake	REV 3
			Fire Rating Plan GF	<b>A0700</b>
			Please note: All dimensions to be verified on site	Paper size <b>A2</b>

FIRE RATING KEY:	
	60/60/60 Fire Rated Wall
	1/1 Smoke Control Wall

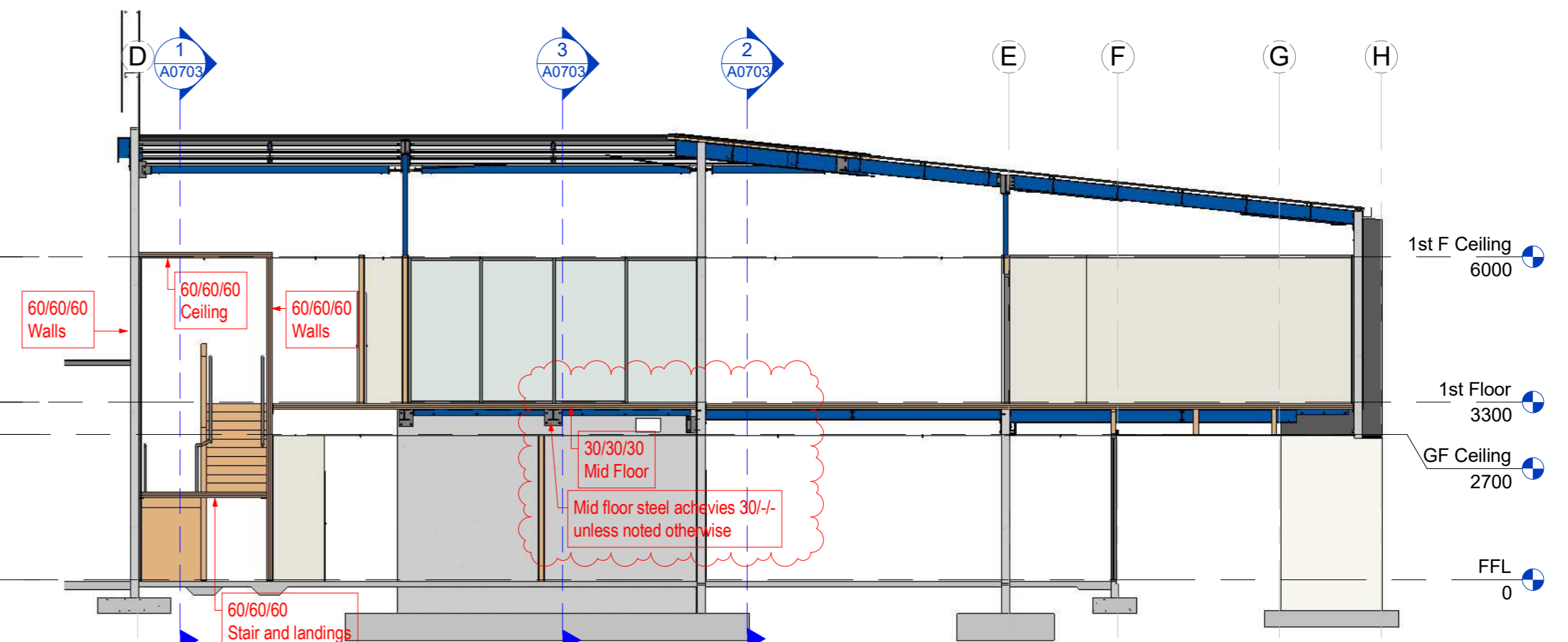


1 Fire Plan First Floor  
1 : 100

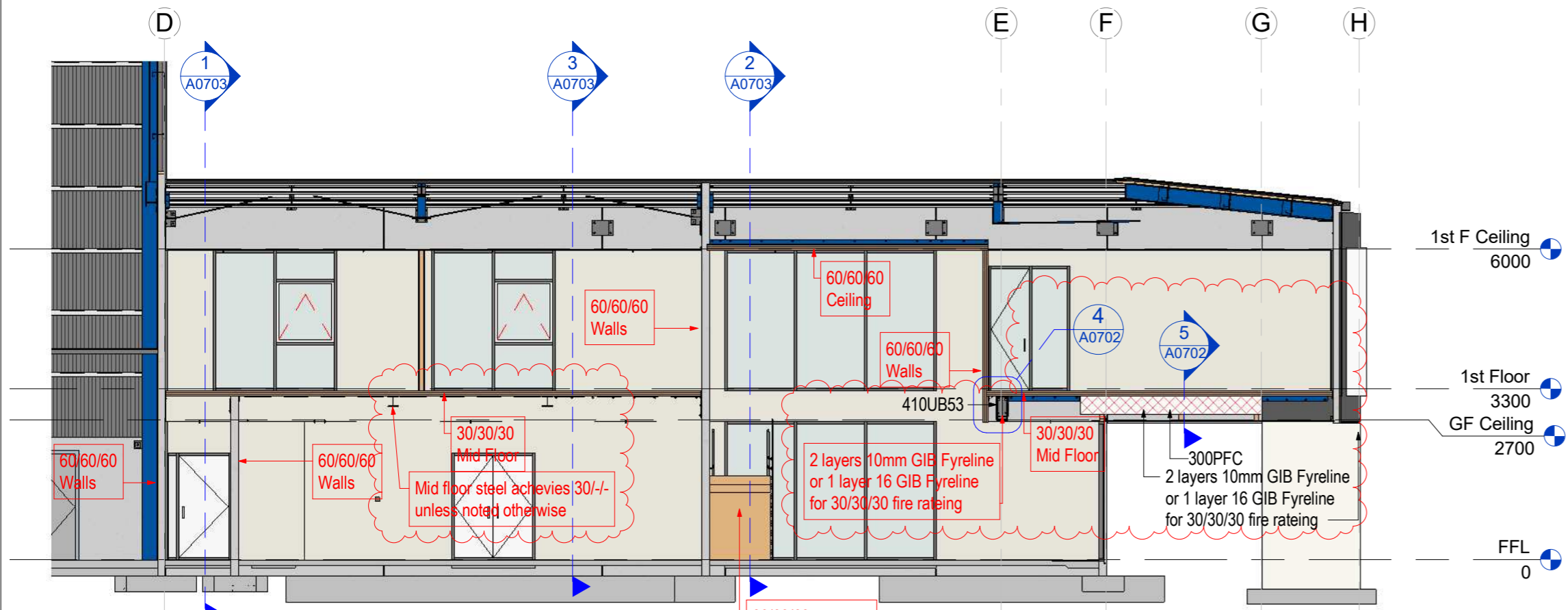
Rev#	Amendments	Date	SCALE	JOB #
3	Fire Rated Mid Floor Steel	20/05/16	As indicated@ A2	12413
	<b>Construction Issue</b>			
			DRAWN BY C. White	DATE 13/05/16
			APPROVED BY A. Cloake	REV 3
			Fire Rating Plan FF	A0701
			Please note: All dimensions to be verified on site	
				Paper size A2



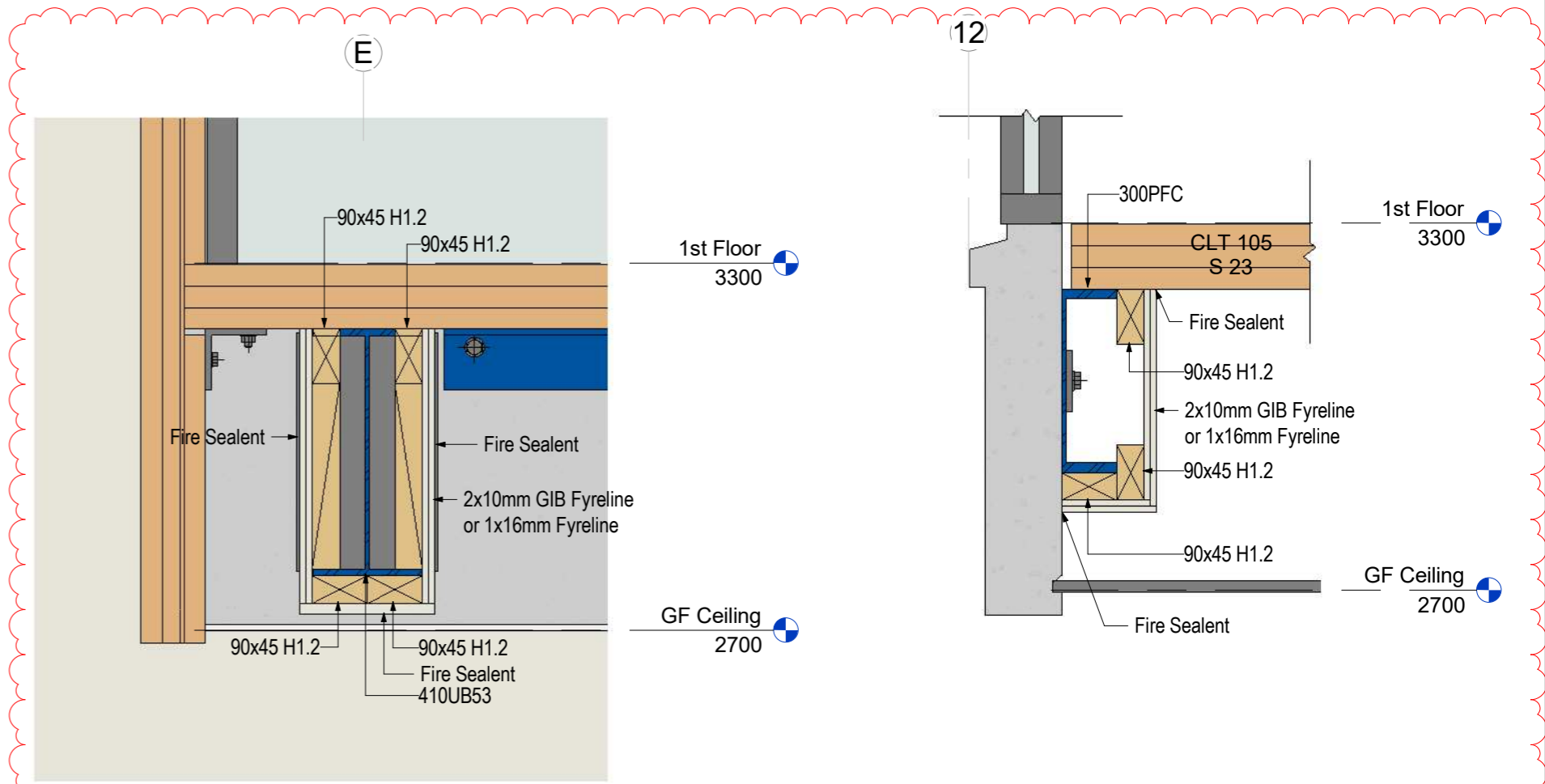
1 Fire rating section 1  
1 : 100



2 Fire rating section 2  
1 : 100

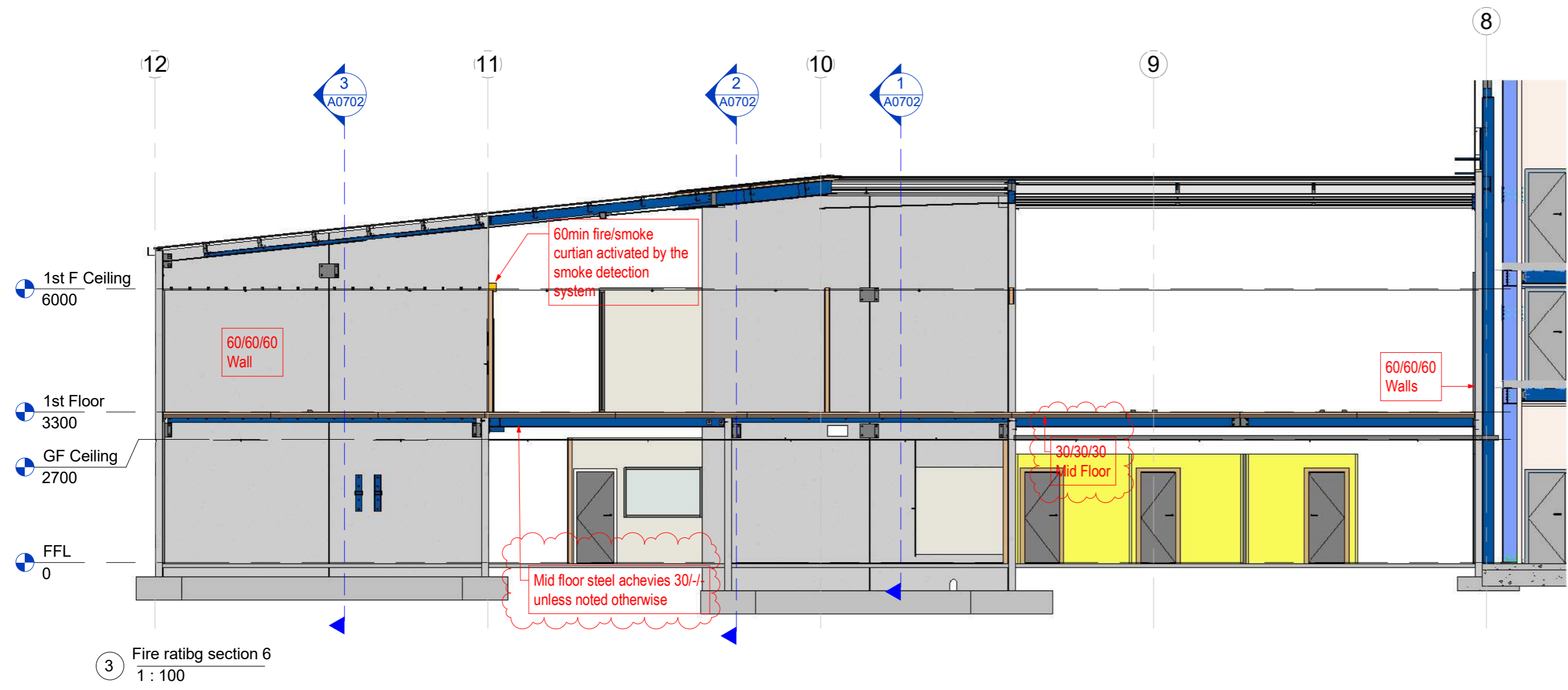
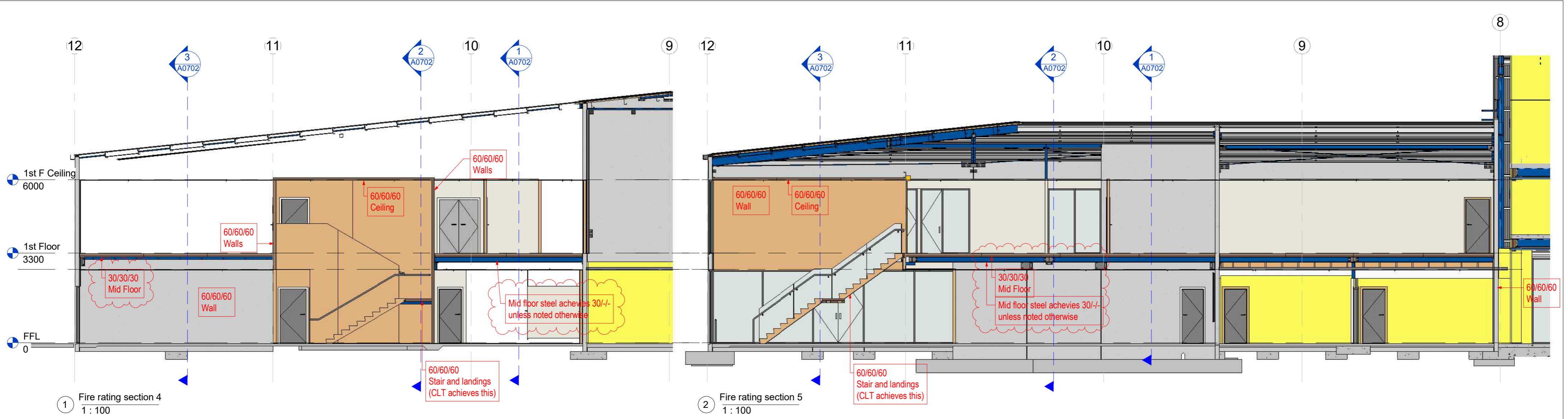


3 Fire rating section 3  
1 : 100

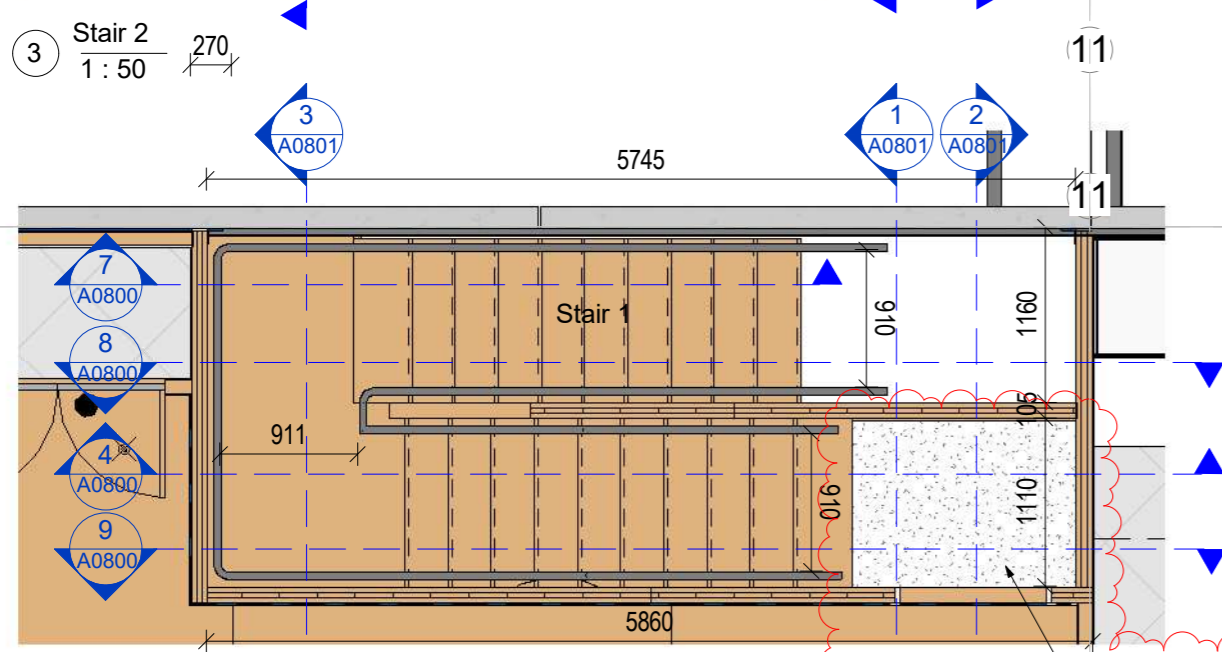
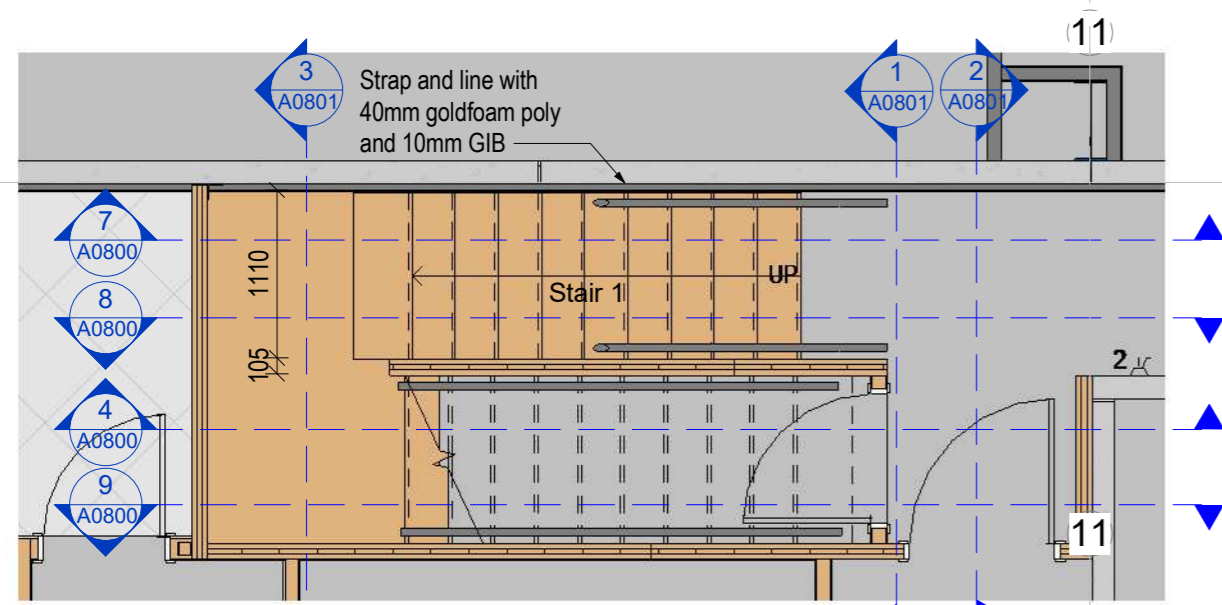


4 Fire rating around 410UB  
1 : 10

5 Fire rating around 300PFC  
1 : 10

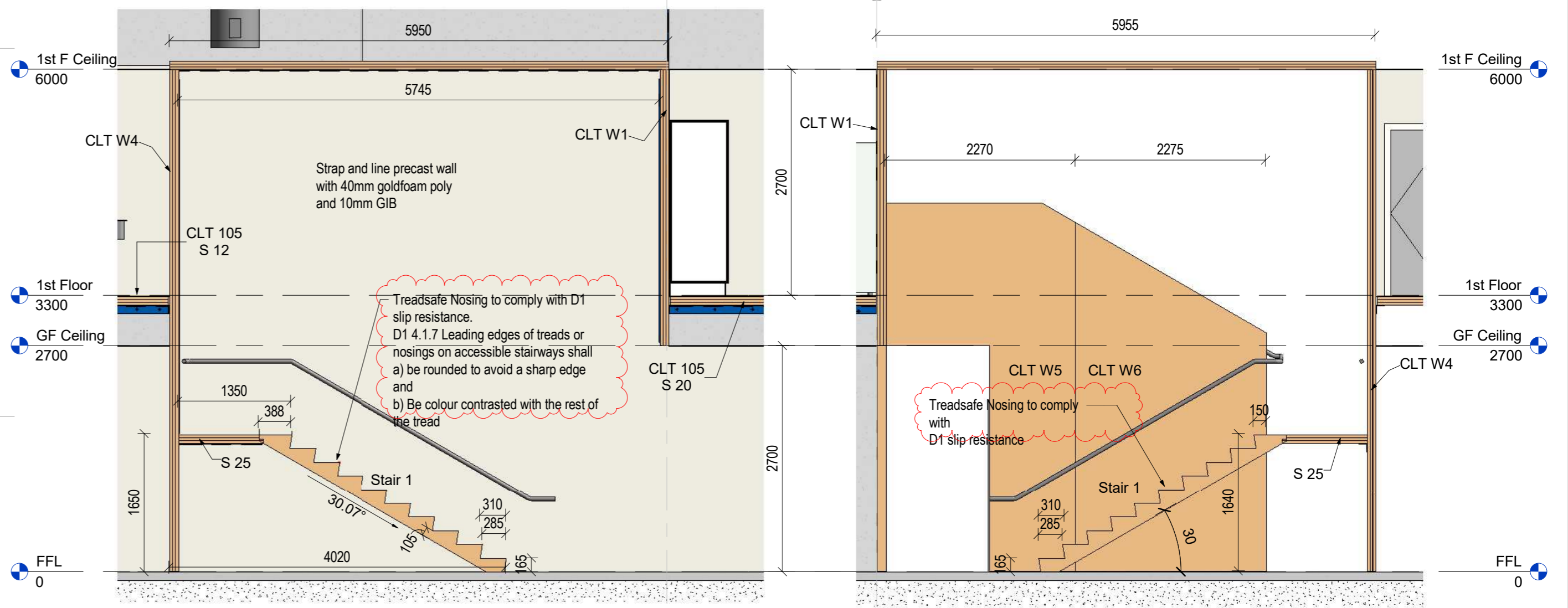


Rev#	Amendments	Date	SCALE	JOB #
3	Fire Rated Mid Floor Steel	20/05/16	1: 100 @ A2	12413
			DRAWN BY	DATE
			C. White	13/05/16
			APPROVED BY	REV
			A.Cloake	3
			Fire Rating sections	<b>A0703</b>
Please note: All dimensions to be verified on site				Paper size: <b>A2</b>



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 Treatment. A change in surface treatment with strong colour contrast shall be provided at the head and foot of any internal flight of steps.

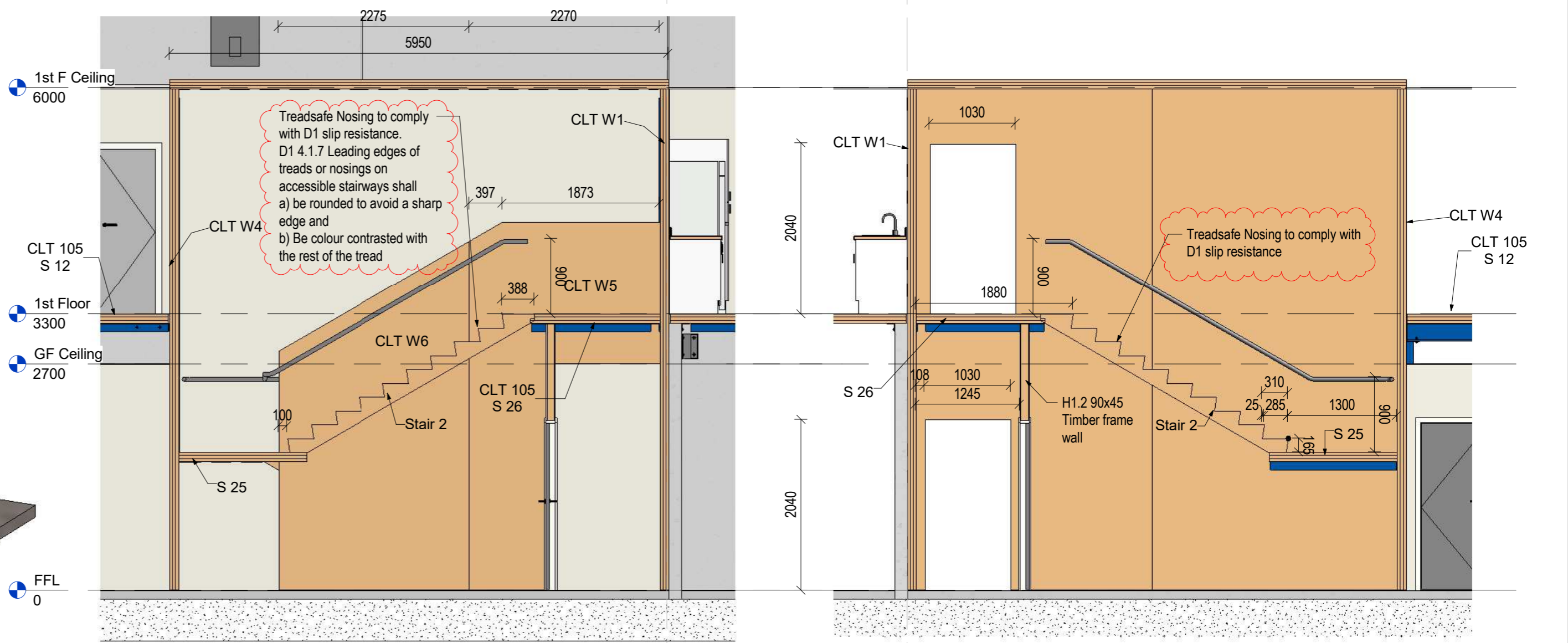


7 Stair 2 Section 1  
1:50

8 Stair 2 section 2  
1:50

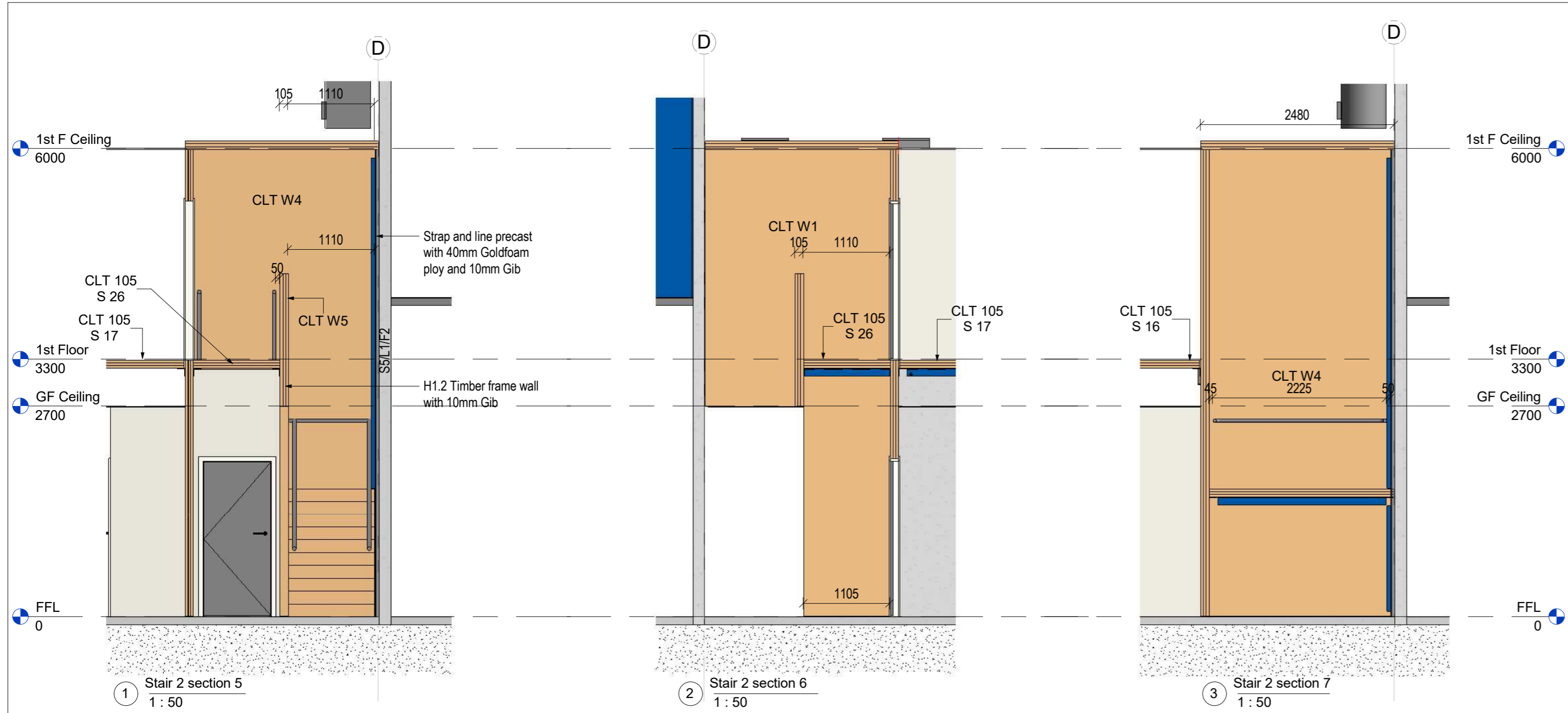


1 Safe path stairway



4 Stair 2 Section 3  
1:50

9 Stair 2 section 4  
1:50



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



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

PROJECT

Arch

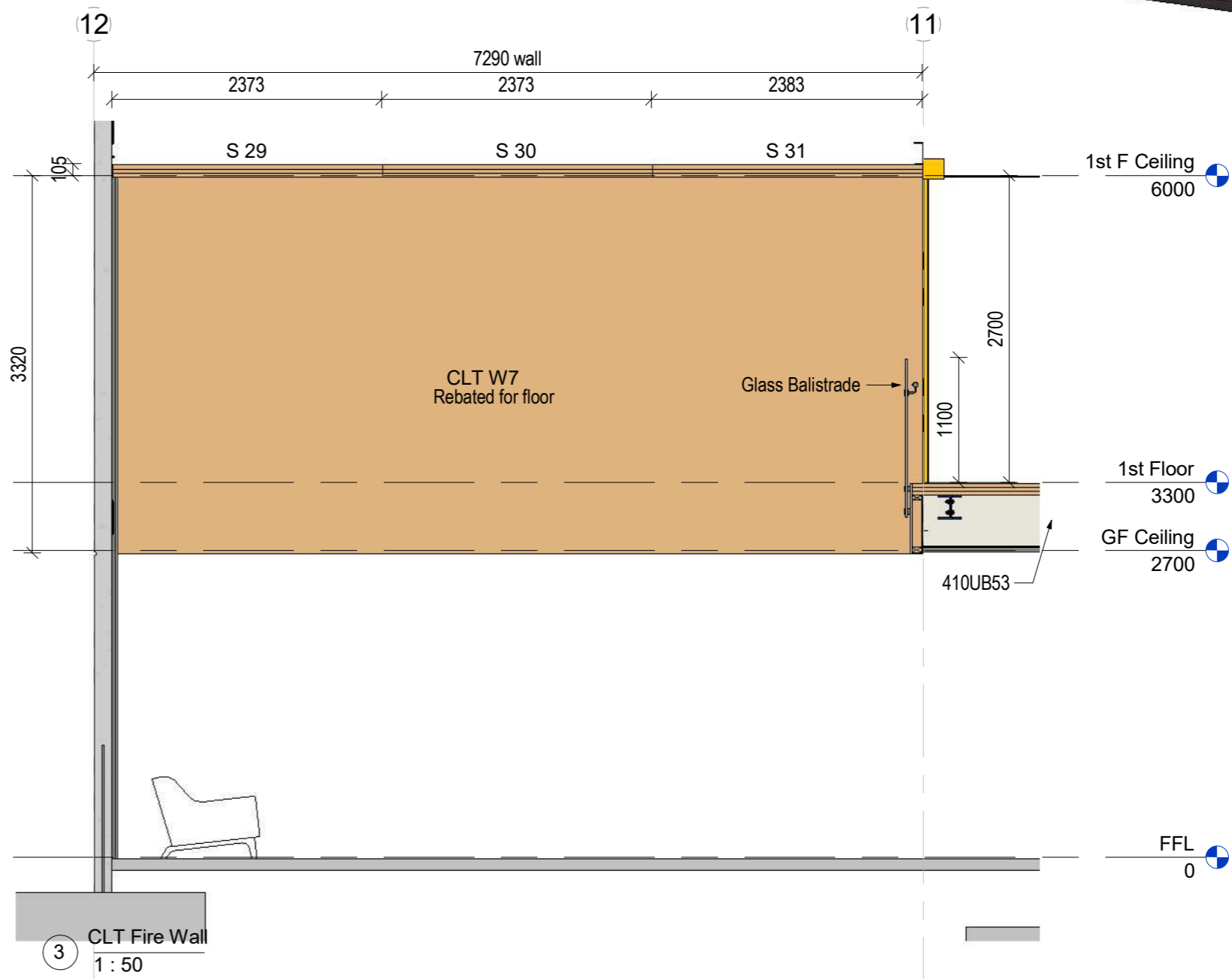
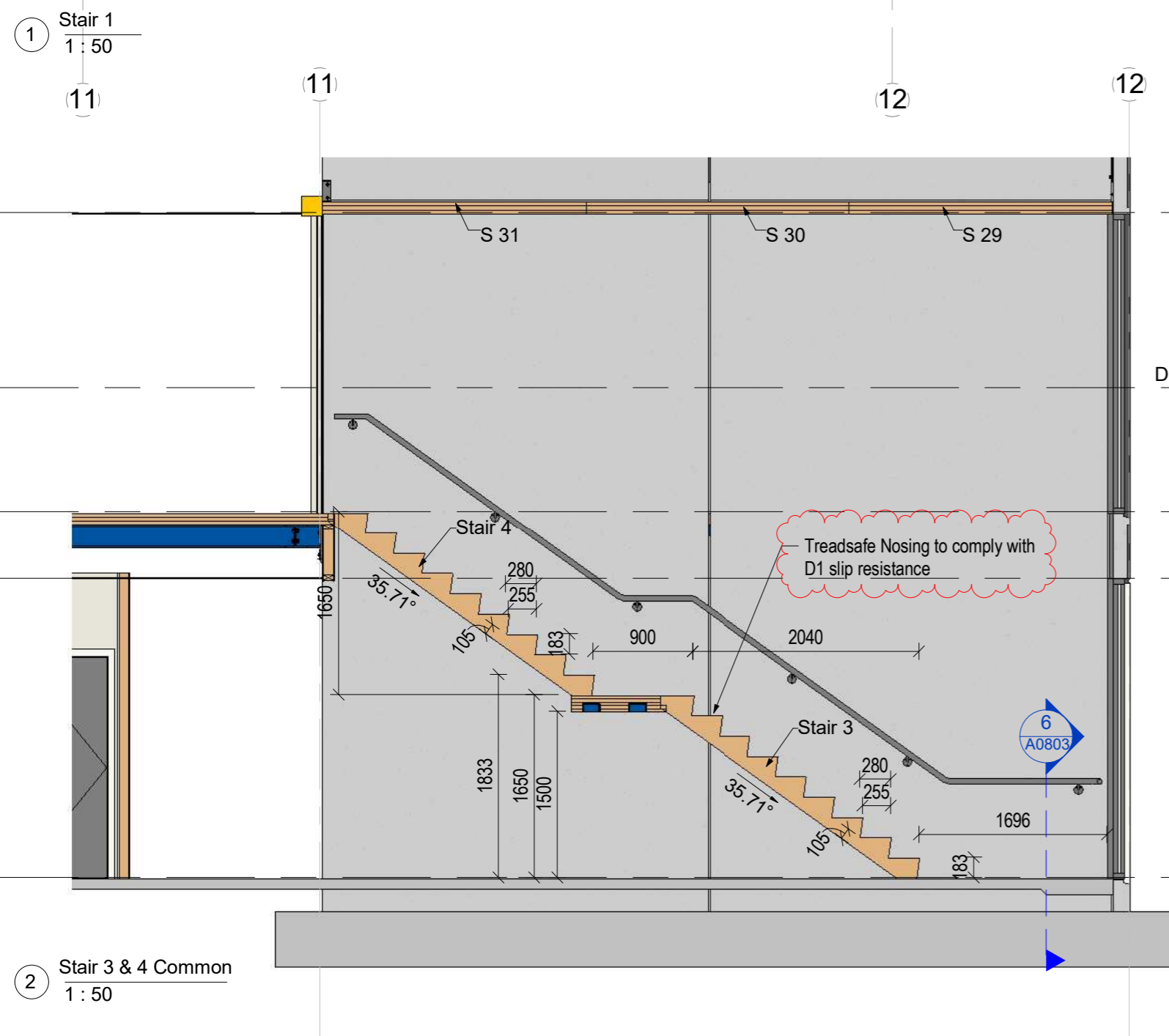
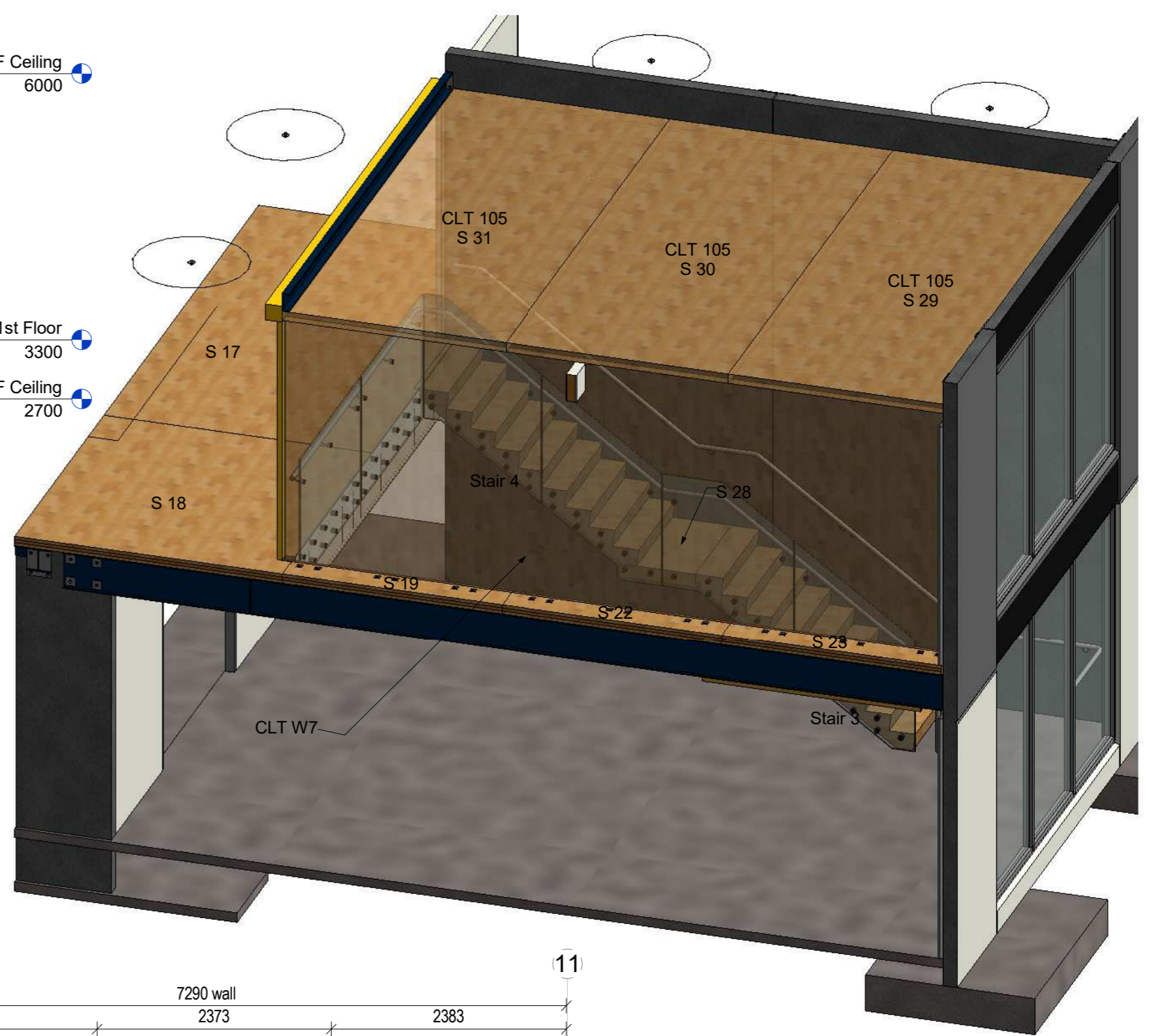
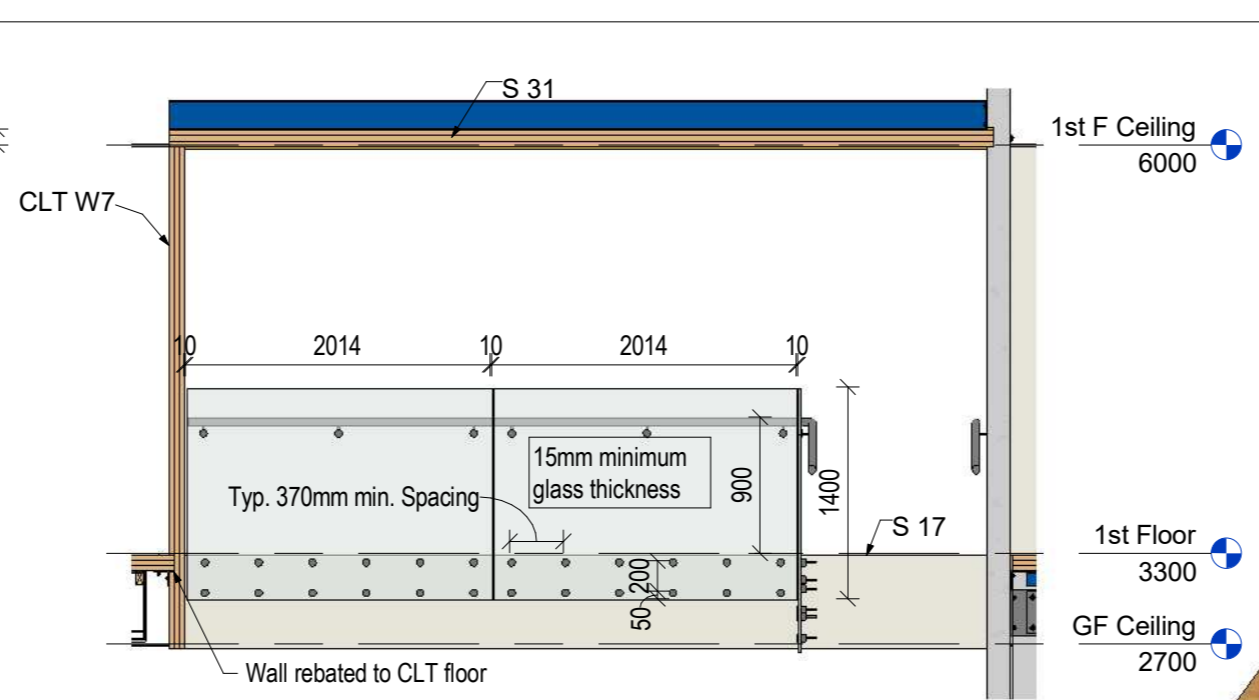
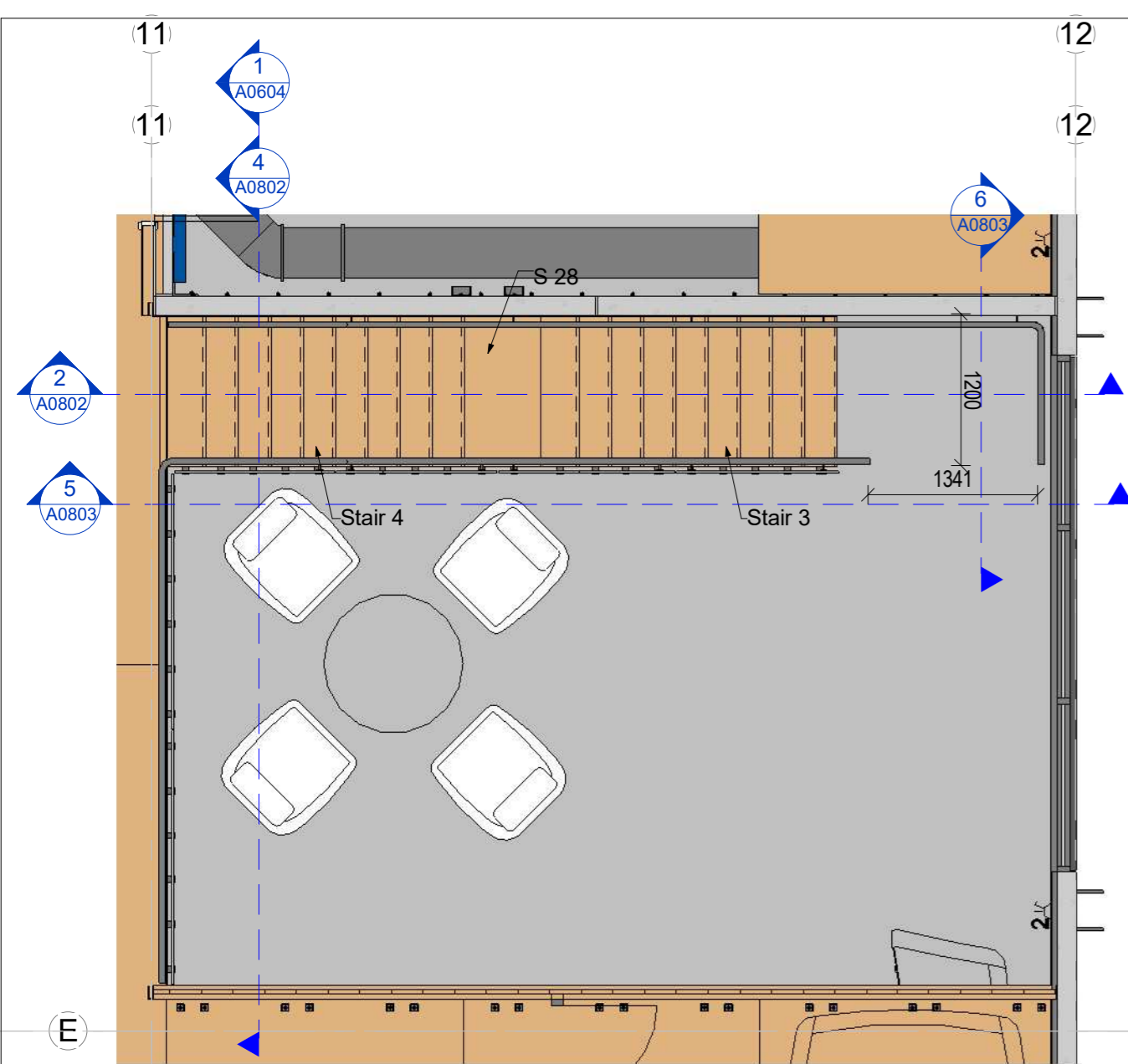
NZ Dairy Collaborative Group  
 Infant Formula Blending Plant Offices

9 Ashford Ave., Ashburton

All Drawings property of Thompson Engineering 2002 Ltd

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

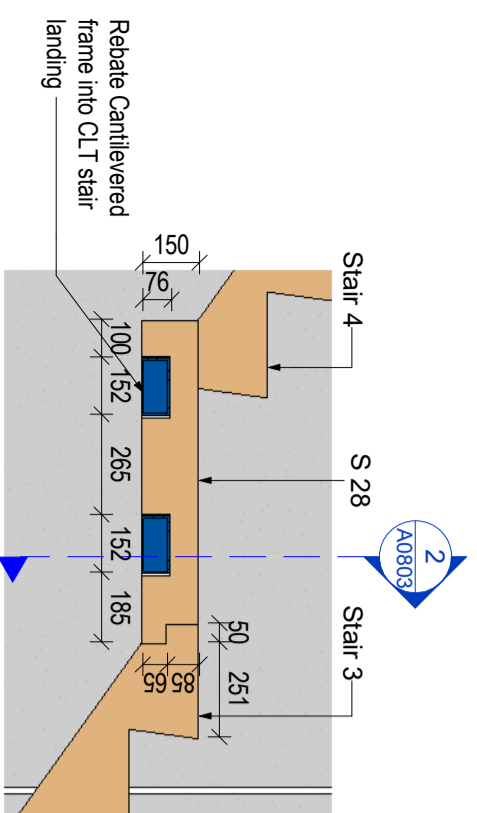
Construction Issue



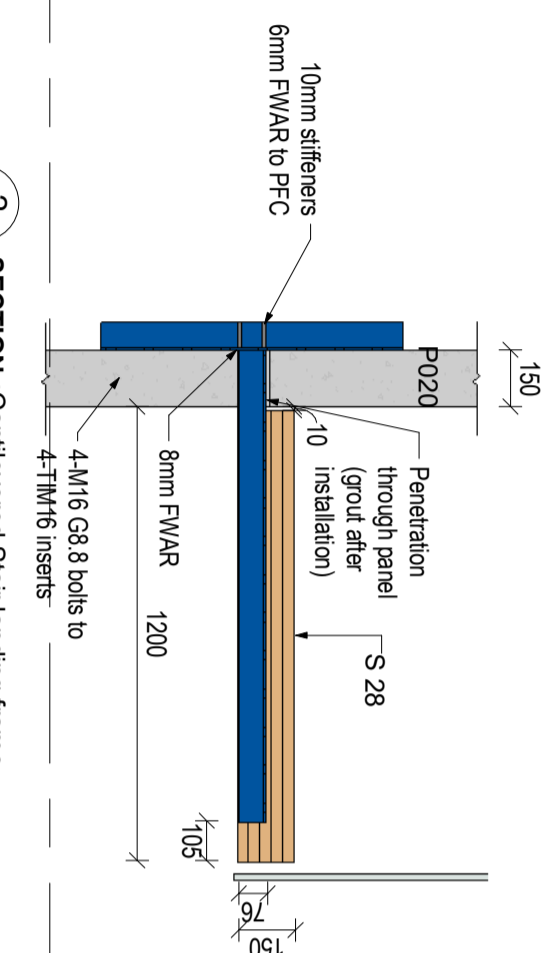
Rev#	Amendments	Date
6	Council RFI's	16/6/16

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

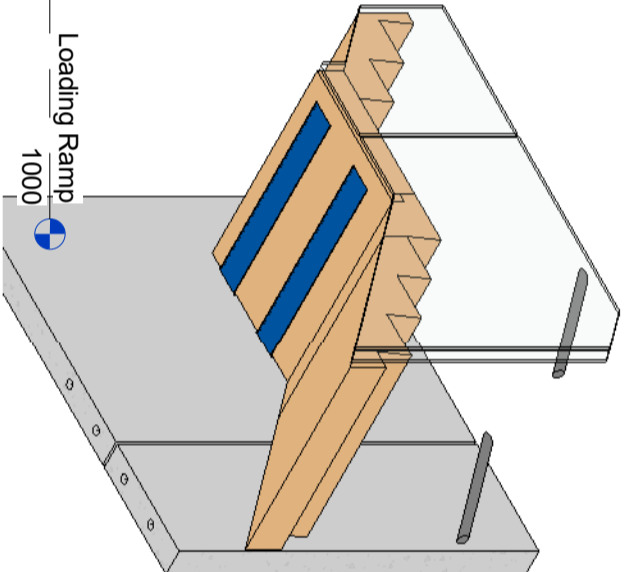
**Construction Issue**



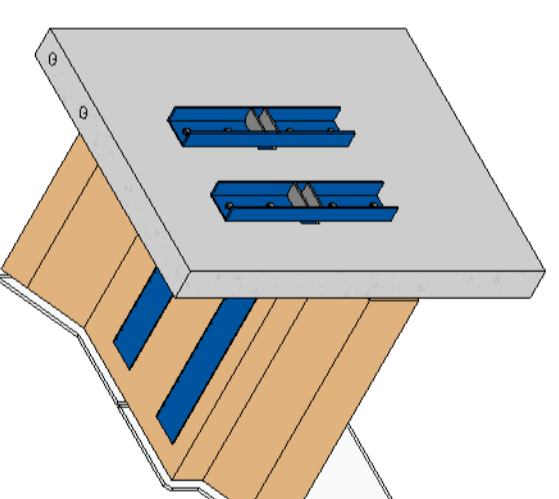
1 Common Stair 3 & 4 Cantilevered landing  
1 : 20



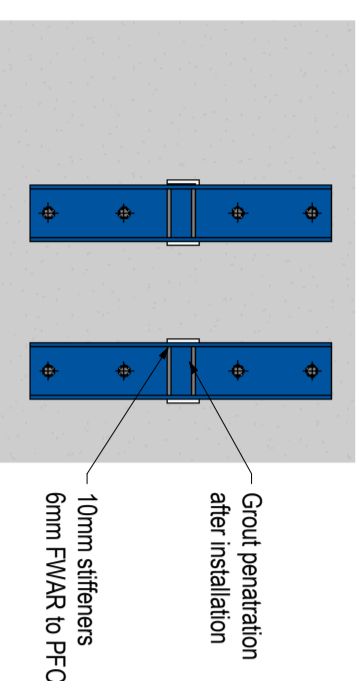
2 SECTION : Cantilevered Stair landing frame  
A0803 1 : 20



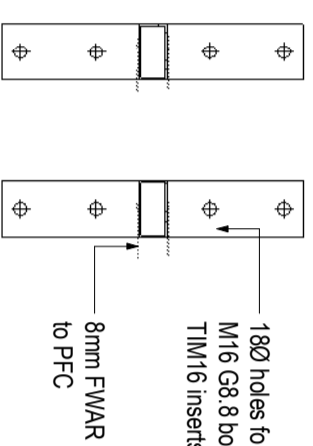
Cantilevered stair landing frame underside



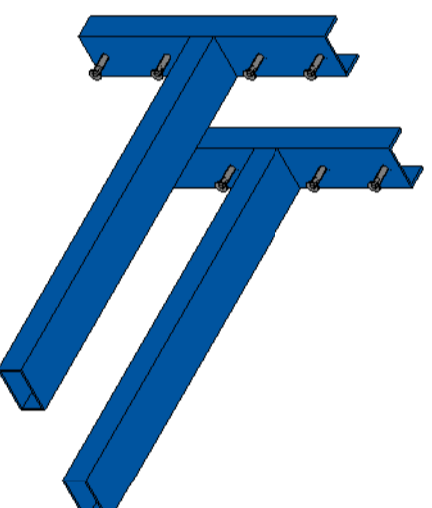
Cantilevered stair landing frame panel side



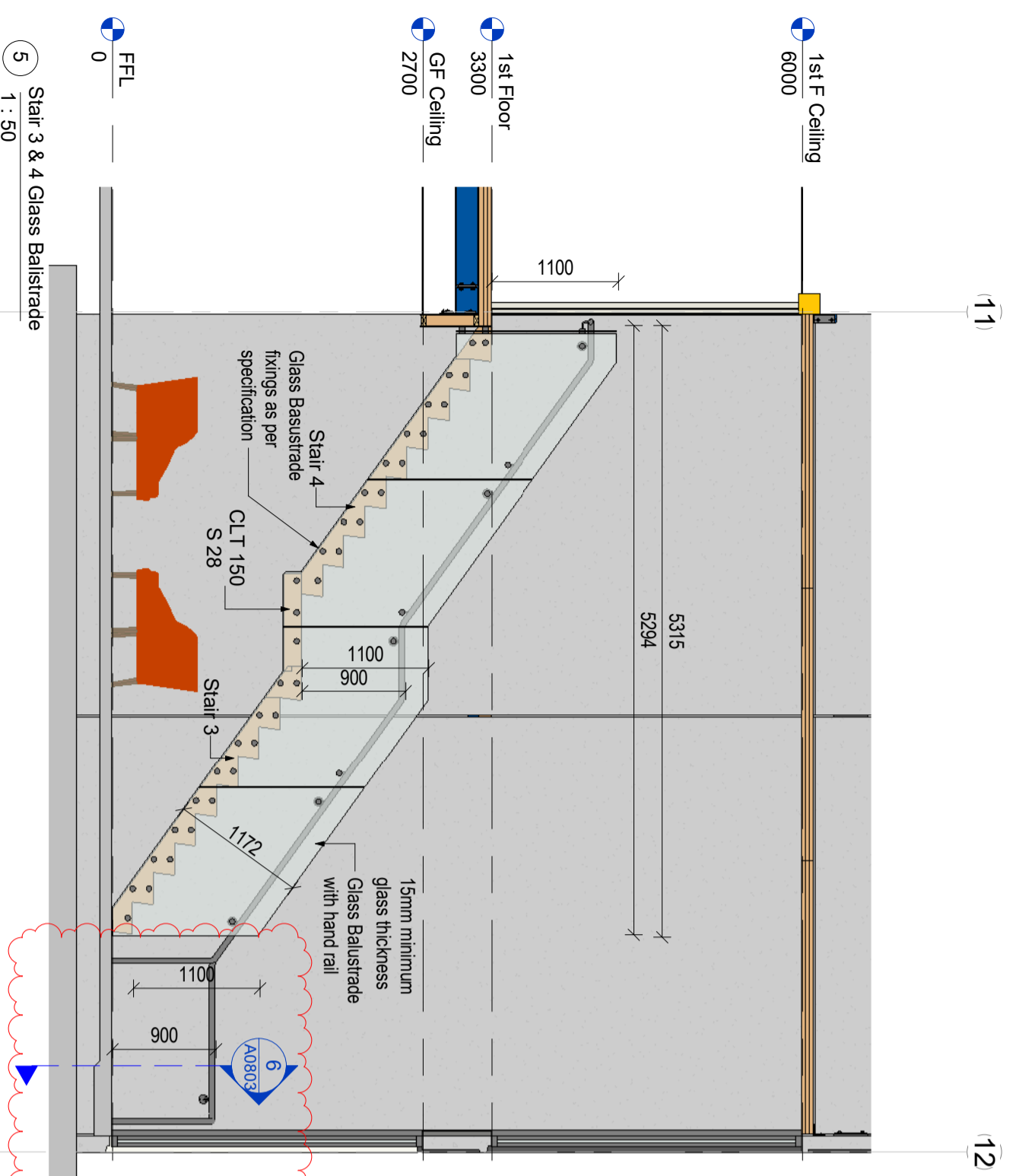
3 Cantilevered frame backing  
1 : 20



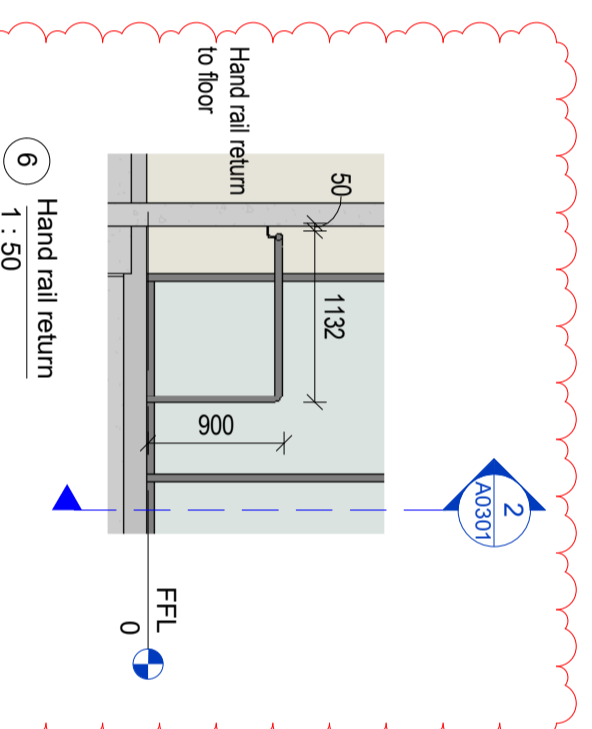
4 DETAIL : Cantilevered Steel frame  
1 : 20



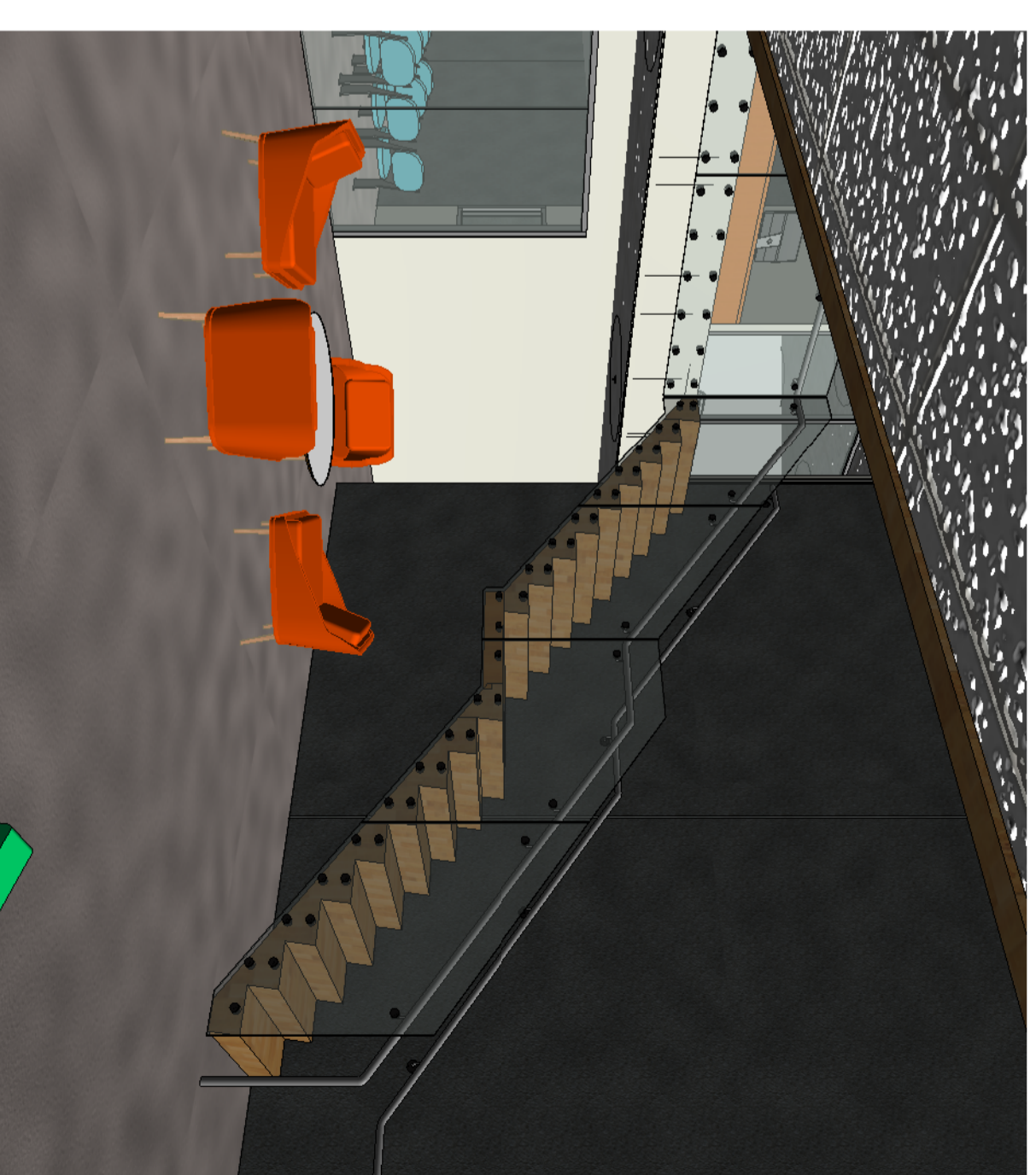
Cantilevered stair landing frame



5 Stair 3 & 4 Glass Balustrade  
1 : 50



6 Hand rail return  
1 : 50



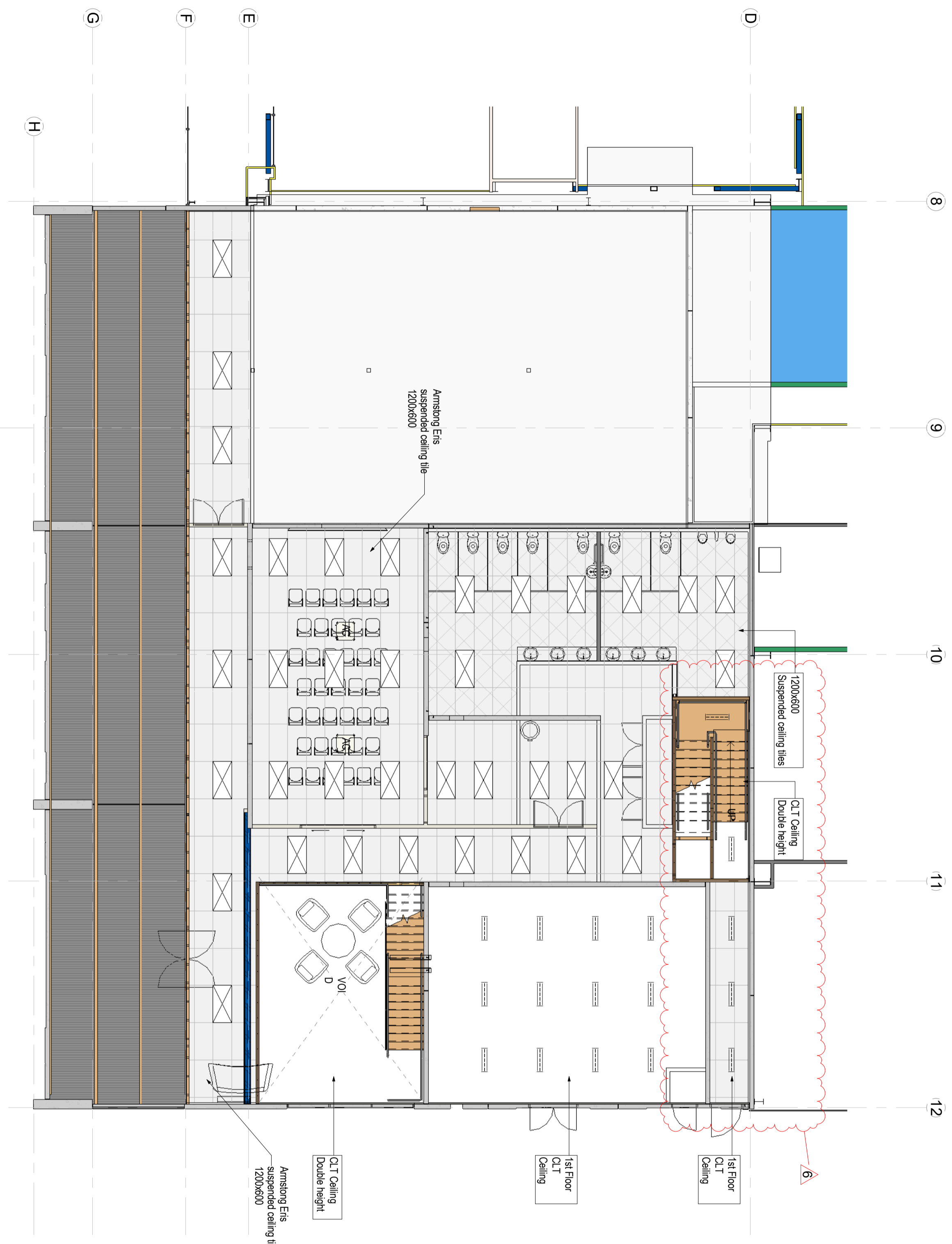
3D View 3

Rev#	Amendments	Date	SCALE	JOB #
5	Client Changes	24/05/16	As indicated@ A2	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

**ELECTRICAL SCHEDULE**

	3 x 36w recessed troffer fitting - Thom TP42-336B2
	4 x 54w T5 Fitting Phillips TPS 150/4XS4
	Phillips Mondellia Fitting TCS 125236 bare ballasts
	Phillips Mondellia Fitting TCS 125236 with cover
	LED Downlight
	Pendant light
	2 way switch
	1 way switch
	double power outlet
	3 phase
	double power outlet & data
	External light
	Highway Light
	EXIT sign (refer to fire report) white on green background

*"similar or equivalent fittings can be offered"*



1 Ceiling Ground Floor  
1 : 100

Rev#	Amendments	Date	SCALE	JOB #
6	Council RFIs	16/6/16	1 : 100 @ A2	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

**Construction Issue**

**ELECTRICAL SCHEDULE**

- ☒ 3 x 36w recessed troffer fitting - Thom T1P42-336B2
  - ☒ 4 x 54w T5 Fitting Phillips TPS 150/4X54
  - ☒ Phillips Mondella Fitting TCS 125236 bare ballasts
  - ☒ Phillips Mondella Fitting TCS 125236 with cover
  - ☒ LED Downlight
  - ☒ Pendant light
  - ☒ 2 way switch
  - ☒ 1 way switch
  - ☒ double power outlet
  - ☒ 3 phase
  - ☒ double power outlet & data
  - ☒ External light
  - ☒ Highway Light
  - ☒ EXIT sign (refer to fire report) Write on green background
- \*Similar or equivalent fittings can be offered\*



Ceiling First Floor  
1 : 100

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

**Construction Issue**

**ELECTRICAL & DATA KEY**

- 2 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)

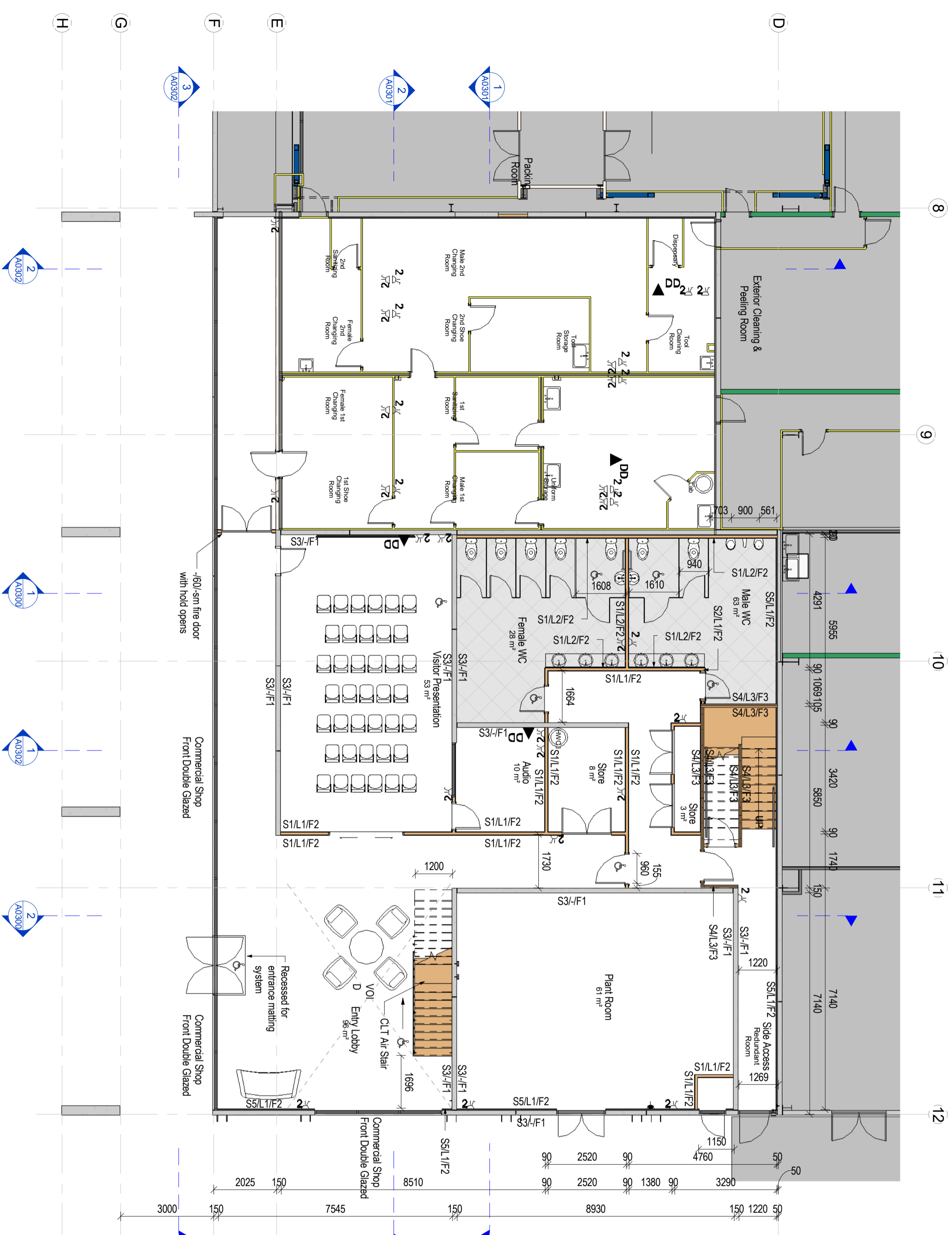
*"positions are not indicative and subject to site placement by client"*

**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



1 Ground Floor Plan Electrical  
1 : 100

**Construction Issue**

A1000



1 First Floor Plan Electrical  
1 : 100

**ELECTRICAL & DATA KEY**

- 2 Single Phase Power Outlet (Double socket)
- Three Phase Power Outlet (Single socket)
- Wall Mounted Data Socket (Double data sockets)
- 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

**Construction Issue**

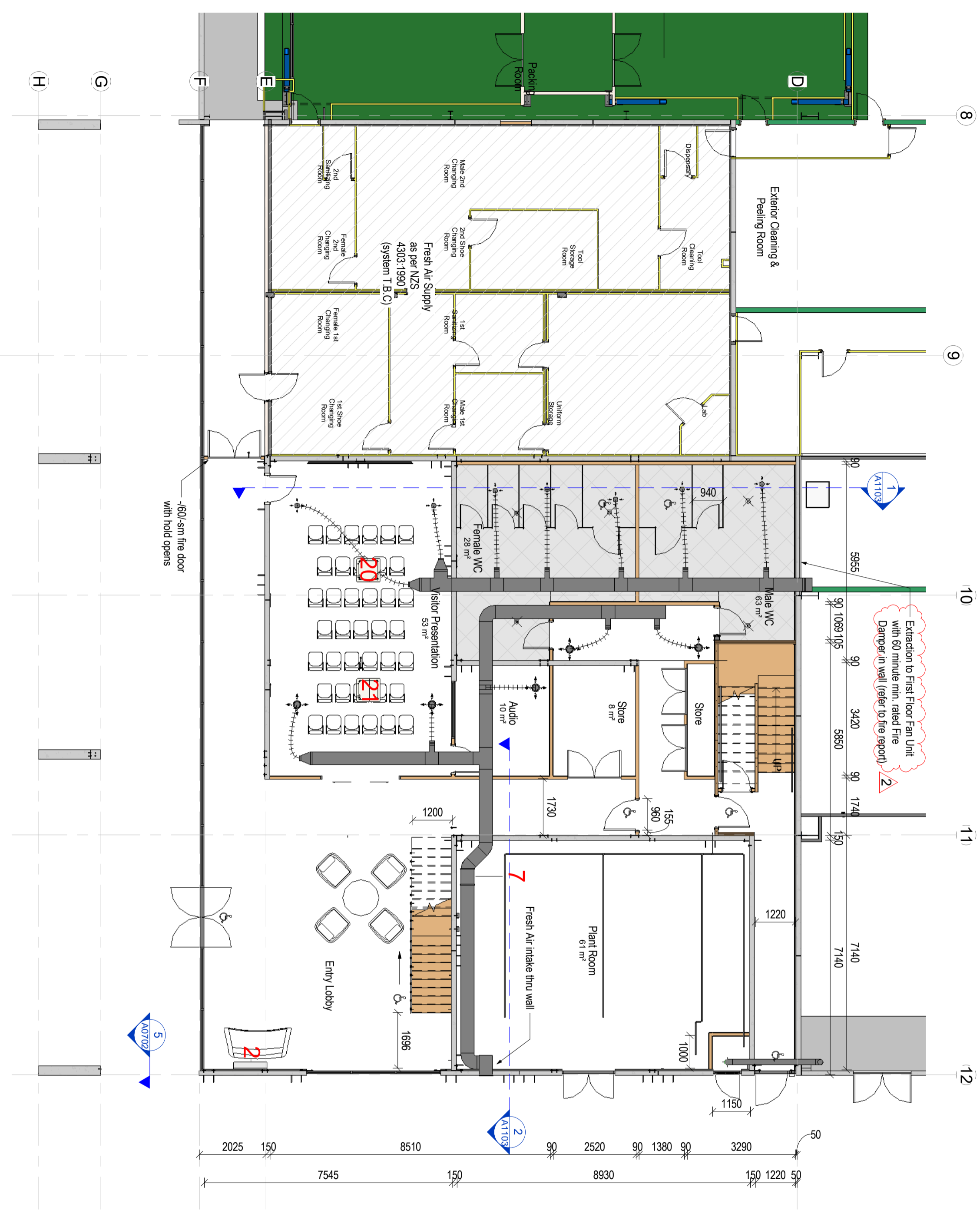
Mark	Type	Comments
7	Westaflex Inline Fan (with smoke detection)	Plant Room
20	Hitachi RC12.5 FSN3 6.3kw Cassette	Presentation Room
21	Hitachi RC12.5 FSN3 6.3kw Cassette	Presentation Room
2	Hitachi RAS-50YHA	Entry

**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\*



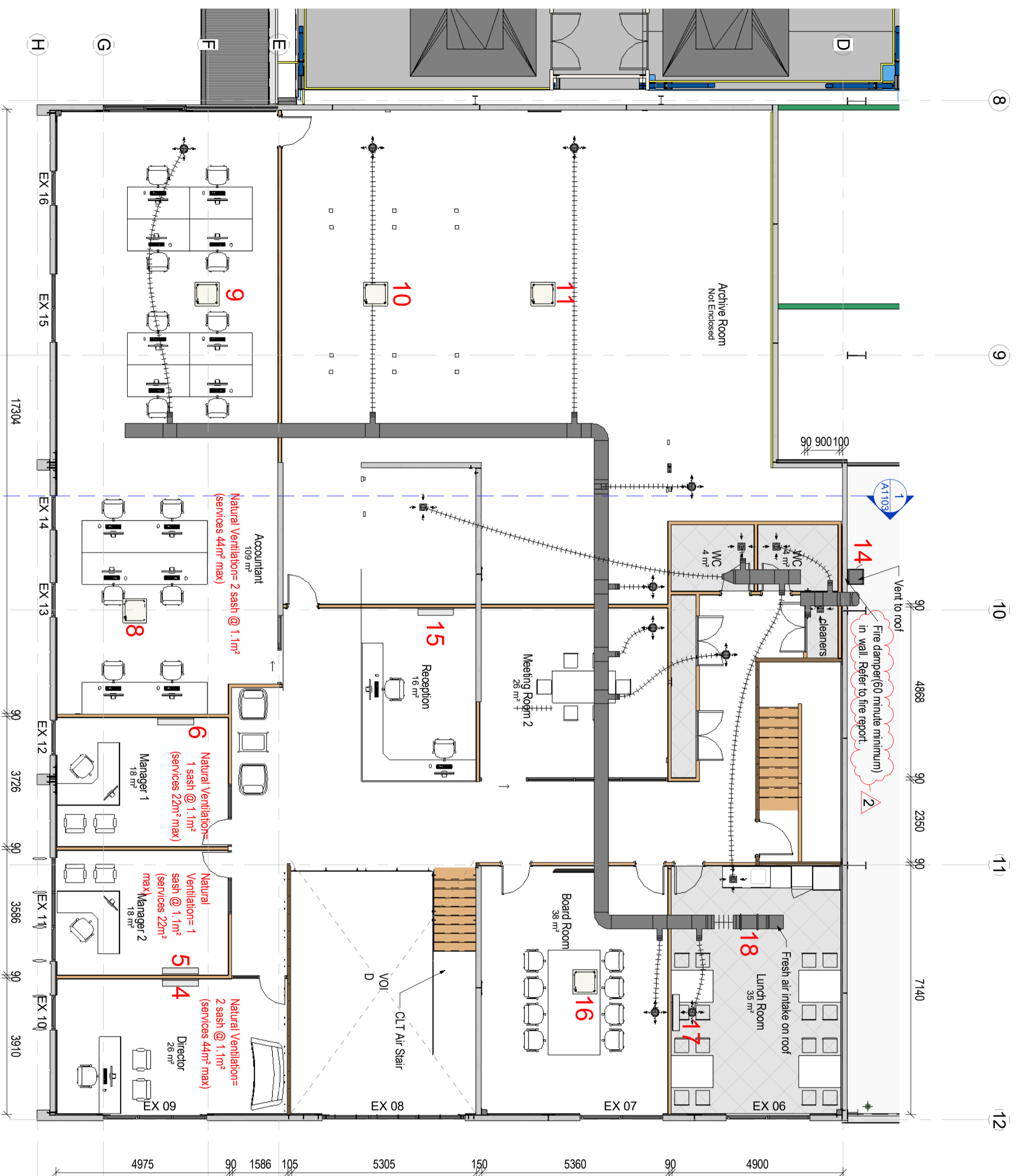
1 Ground Floor Plan HVAC  
1 : 100

Rev#	Amendments	Date	SCALE	JOB #
2	Changes at Fire Eng request	19/05/16	1 : 100 @ A2	12413
4	Updated HVAC design	23/05/16		13/05/16

**Construction Issue**

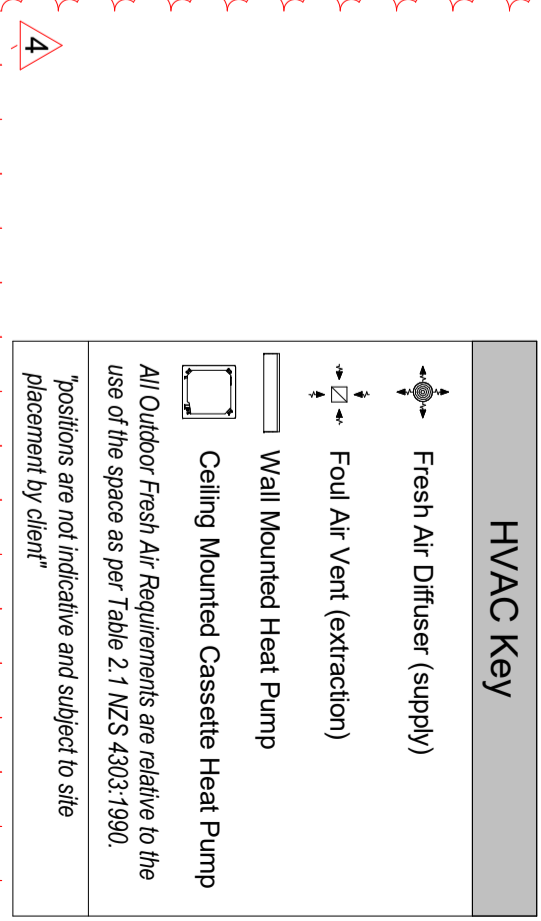
APPROVED BY	REVISION
B. Holloway	4
A. Cloake	

Mechanical Ground Floor  
Paper size **A1100**



1 First Floor Plan HVAC  
1 : 100

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 RC13.0 FSN3 8.0kW Cassette	Accountant
9	Hitachi RC13.0 FSN3 8.0kW Cassette	Open Plan Office
10	Hitachi RC13.0 FSN3 8.0kW Cassette	Open Plan Office
11	Hitachi RC13.0 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 RC12.5 FSN3 6.3kw Cassette	Board Room
17	Hitachi RAS-50YHA	Lunch Room
18	Westflex Inline Centrifugal Fan (with smoke detection)	Fresh Air supply (Lunch Room)



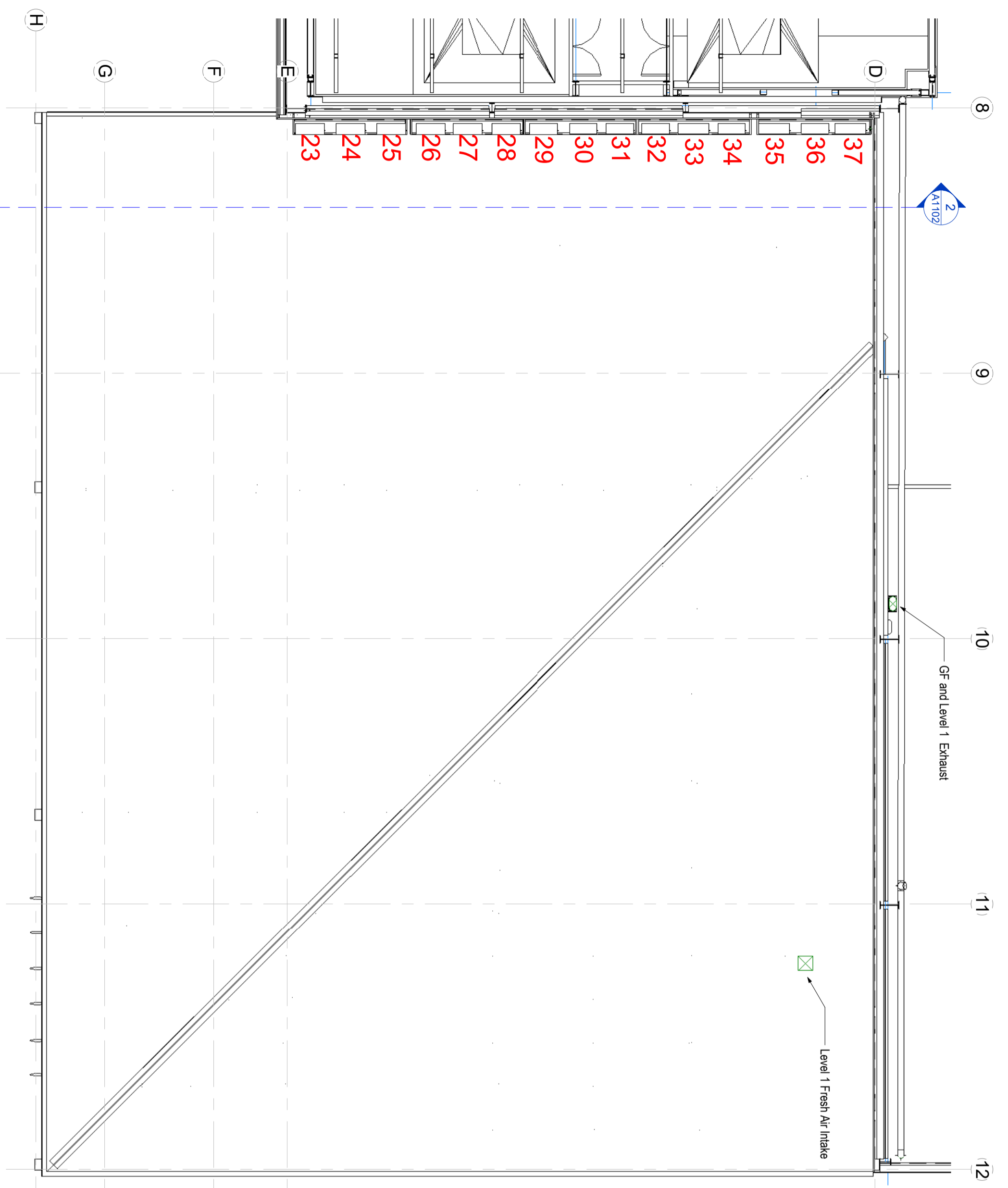
Rev#	Amendments	Date	SCALE	JOB #
2	Changes at Fire Eng request	19/05/16	1 : 100 @ A2	12413
4	Updated HVAC design	23/05/16		13/05/16

**Construction Issue**

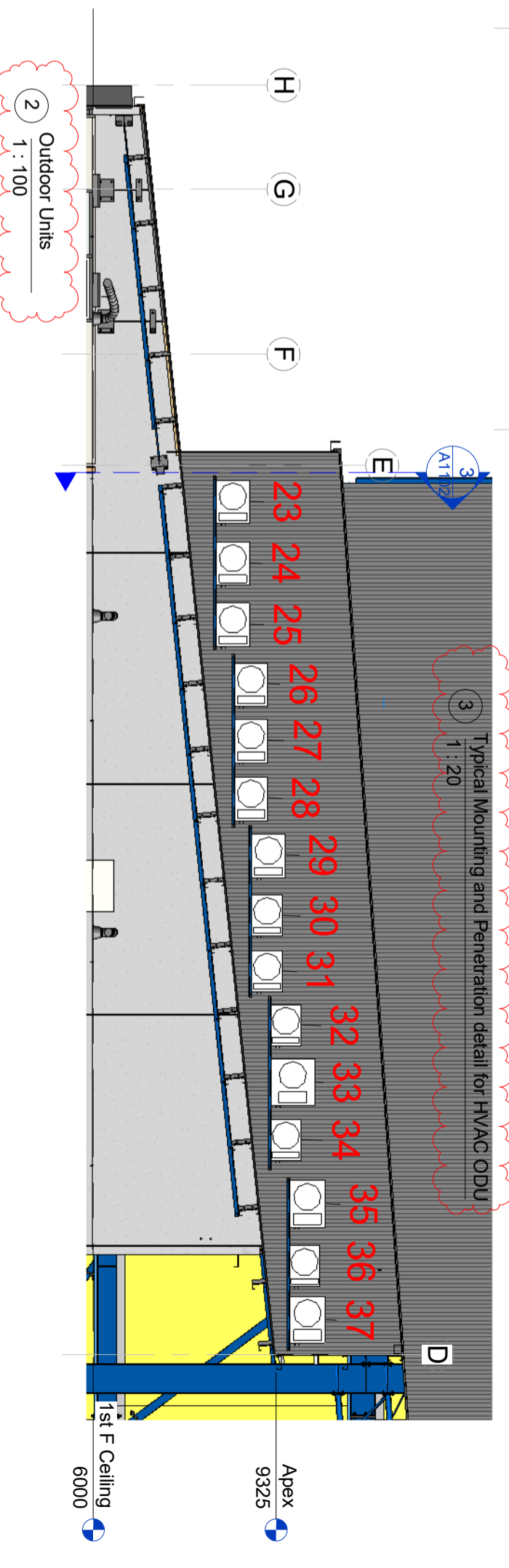
APPROVED BY	DATE	REV
B. Holloway		4
A. Cloake		

Mechanical Level 1  
Paper size A2

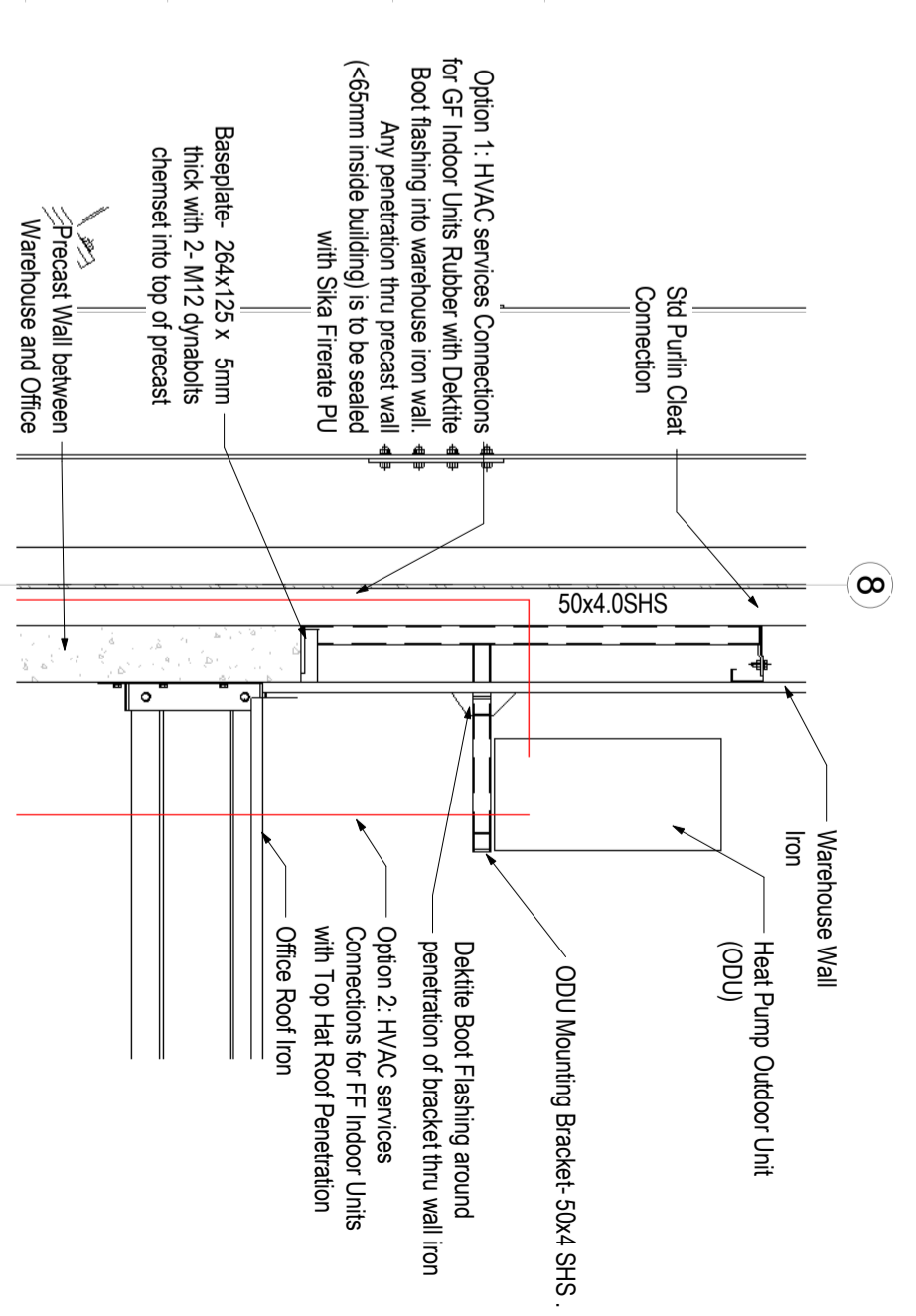
Mechanical Equipment Roof		
Mark	Type	Comments
23	Hitachi RAS 2.5HVNP	Presentation Room
24	Hitachi RAS 2.5HVNP	Presentation Room
25	Hitachi RAS 3HVNC	L1 Open Plan Office
26	Hitachi RAS 3HVNC	L1 Open Plan Office
27	Hitachi RAS 3HVNC	L1 Open Plan Office
28	Hitachi RAS 2.5HVNP	Board Room
29	Hitachi RAS 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



1 Roof Plan HVAC  
1 : 100

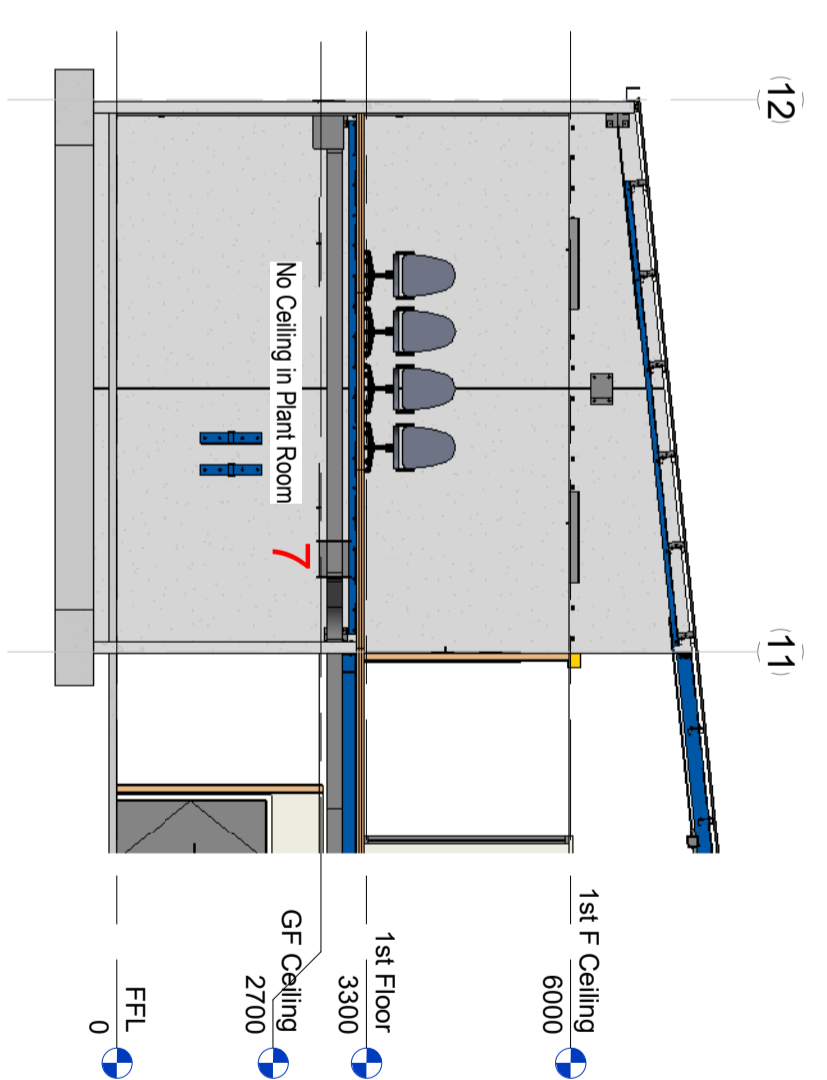
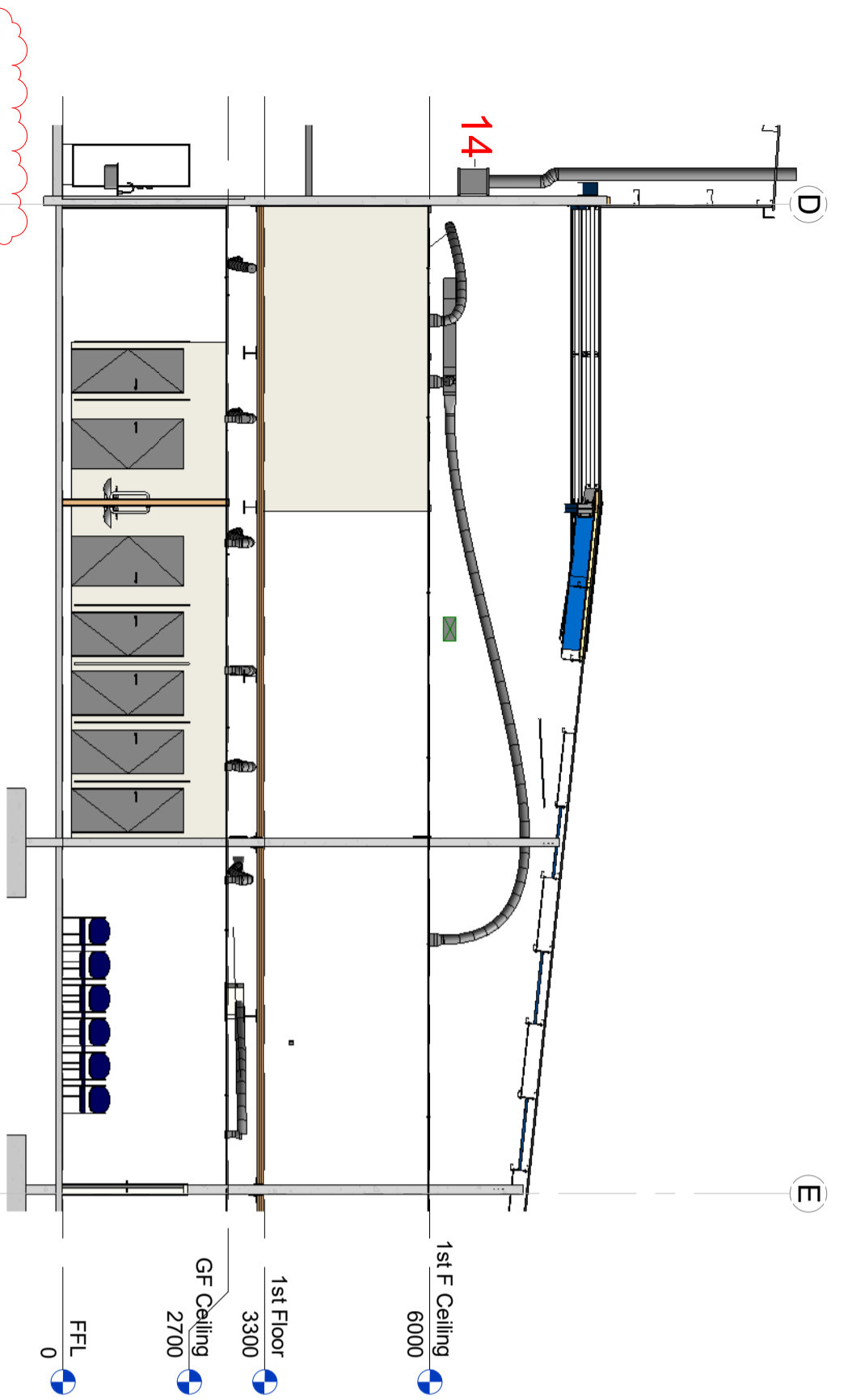


2 Outdoor Units  
1 : 100



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

Rev#	Amendments	Date	SCALE	JOB #
4	Updated HVAC design	23/05/16	As indicated @ A2	12413
6	Council RFIs	16/6/16	DRAWN BY B. Holloway	DATE 13/05/16
<b>Construction Issue</b>			APPROVED BY A. Cloake	REV 6
			Mechanical Roof Plan	<b>A1102</b>
			Please note: All dimensions to be verified on site	Paper size <b>A2</b>

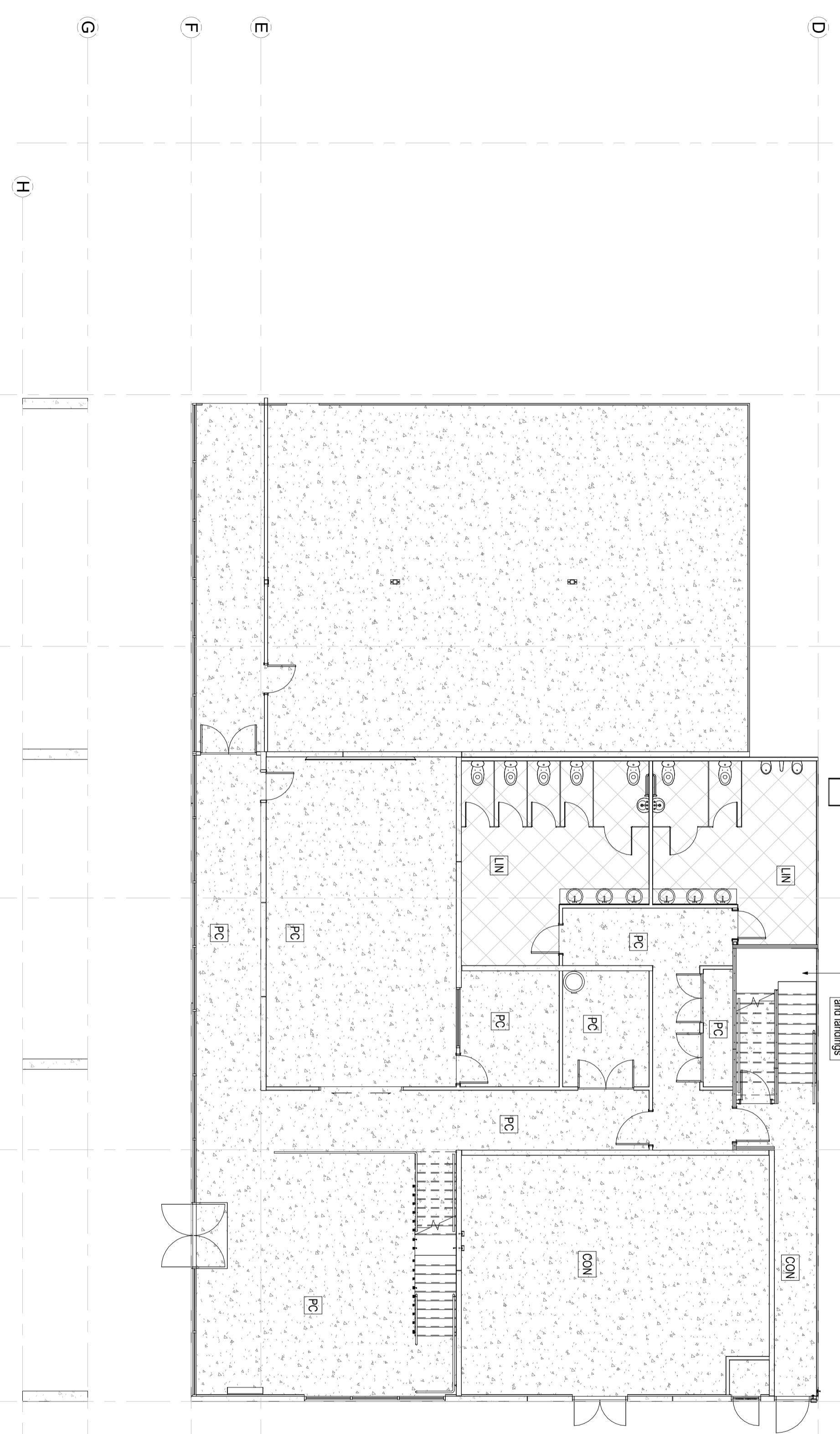


Rev#	Amendments	Date	SCALE	JOB #
4	Updated HVAC design	23/05/16	1 : 100 @ A2	12413
			DRAWN BY	DATE
			B. Holloway	13/05/16
			APPROVED BY	REV
			A. Cloake	4
			HVAC Sections	
			A1103	
			Paper size A2	

Construction Issue

Please note: All dimensions to be verified on site

7 8 9 10 11 12



**FLOOR COVERINGS**

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

**Flooring Schedule**

Level	Type	Area
FFL	Linoleum	50 m <sup>2</sup>
1st Floor	Linoleum	48 m <sup>2</sup>

1-100  
Plumbing Ground Floor Copy 1



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**Arch**

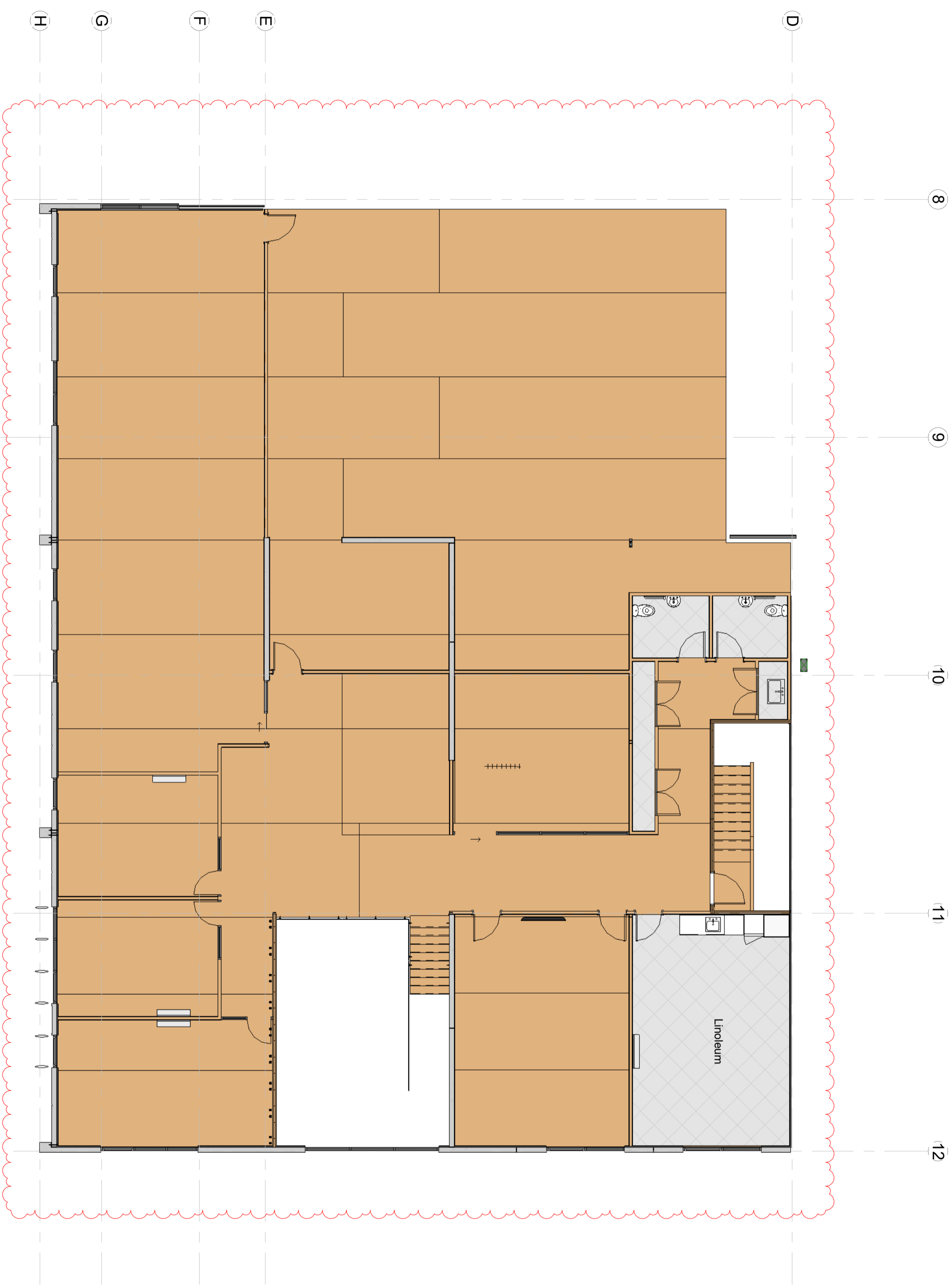
NZ Dairy Collaborative Group  
Infant Formula Blending Plant Offices  
9 Ashford Ave., Ashburton

All Drawings property of Thompson Engineering 2002 Ltd

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

**Construction Issue**

Thompson Engineering 2002 Ltd | PO Box 2084, Matakahia, Timaru | 9th Matakahia Road - Timaru  
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1 Plumbing First Floor Copy 1  
1 : 100

**FLOOR COVERINGS**

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

**Flooring Schedule**

Level	Type	Area
FFL	Linoleum	50 m <sup>2</sup>
1st Floor	Linoleum	48 m <sup>2</sup>

Rev/#	Amendments	Date	SCALE	JOB #
5	Client Changes	24/05/16	As indicated@ A2	12413
			DRAWN BY C. White	DATE 13/05/16
			APPROVED BY A. Cloake	REV 5
			Floor Coverings First Floor	<b>A1201</b>
			Please note: All dimensions to be verified on site	Paper size <b>A2</b>

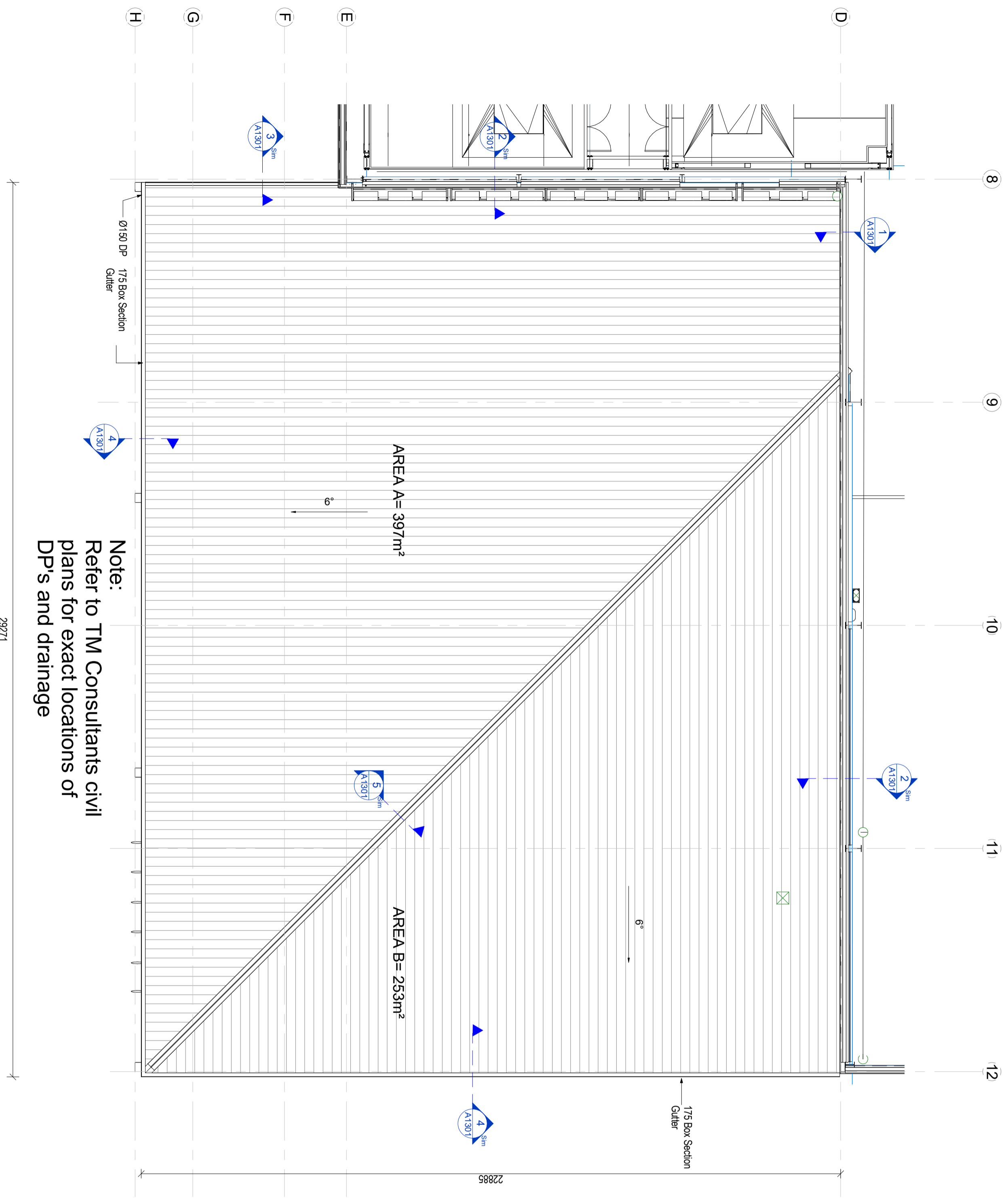
**Construction Issue**

**DOWNPIPE SCHEDULE**

Downpipe size (mm) for 0.25° pitch roof for given roof area	Plan area of roof served by the downpipe (m <sup>2</sup> )
Minimum Internal Pipe Size	
63mm Ø	60
74mm Ø	85
100mm Ø	155
150mm Ø	350

**SURFACE AREA CATCHMENTS**

Total Roof Area = 650m<sup>2</sup>  
 area A = 397m<sup>2</sup> - 1 x 150 Ø DP's  
 area B = 253m<sup>2</sup> - 1 x 150 Ø DP's  
 area 3 = \_\_\_\_\_ m<sup>2</sup> - \_\_\_\_\_ x \_\_\_\_\_ Ø DP's  
 area 4 = \_\_\_\_\_ m<sup>2</sup> - \_\_\_\_\_ x \_\_\_\_\_ Ø DP's

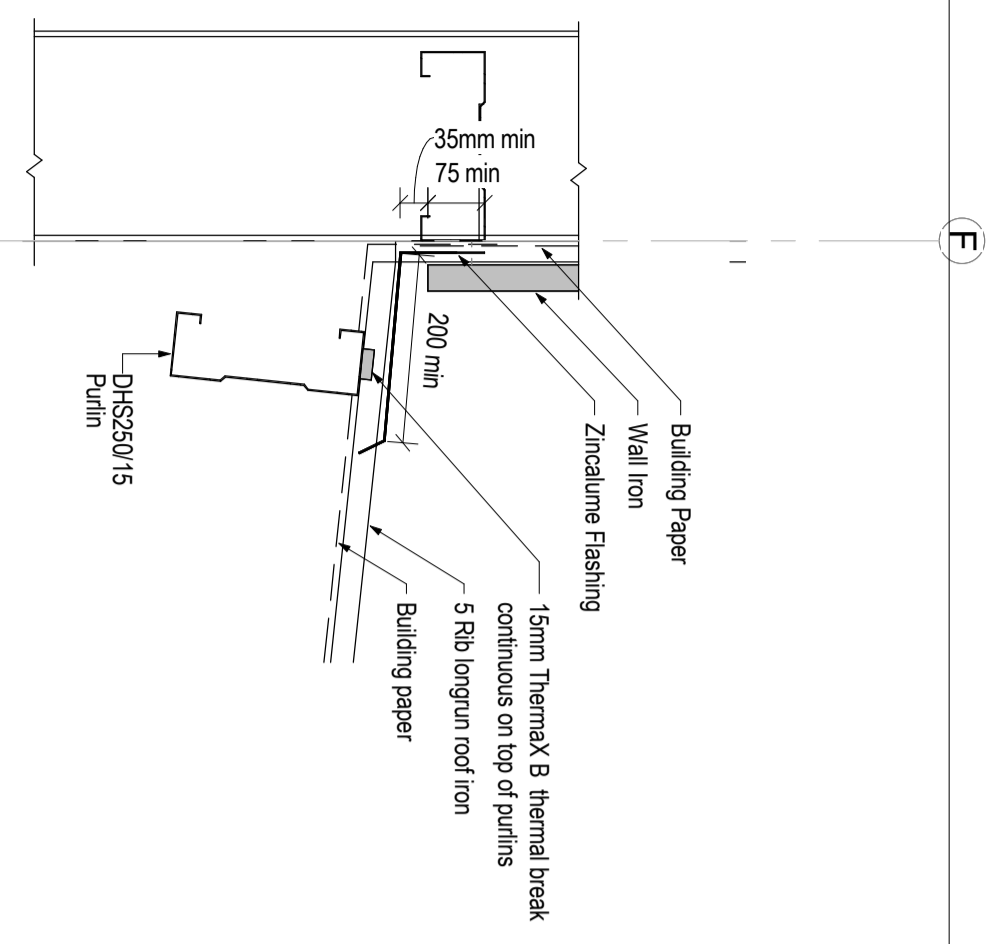


**Note:**  
 Refer to TM Consultants civil plans for exact locations of DP's and drainage

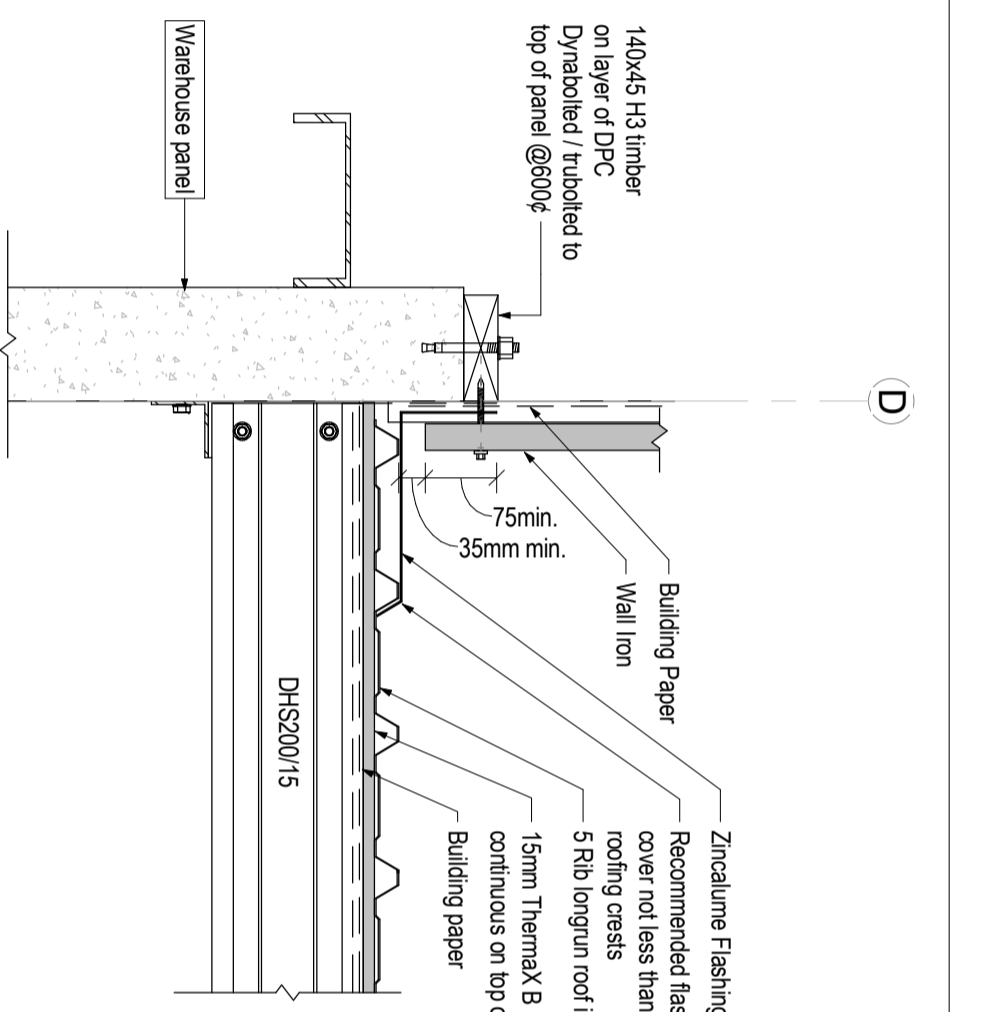
Roof Plan  
 1 : 100

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

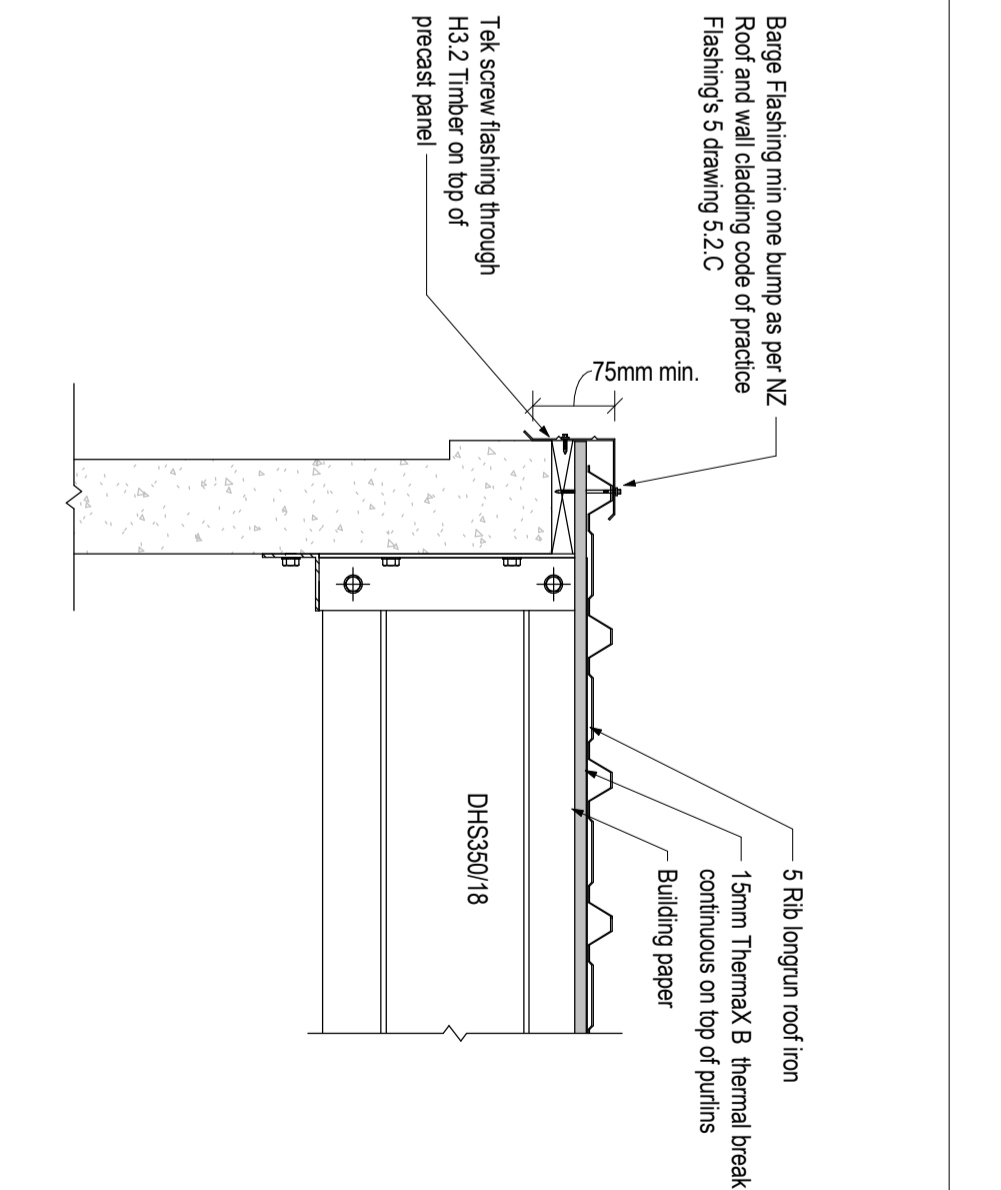
**Construction Issue**



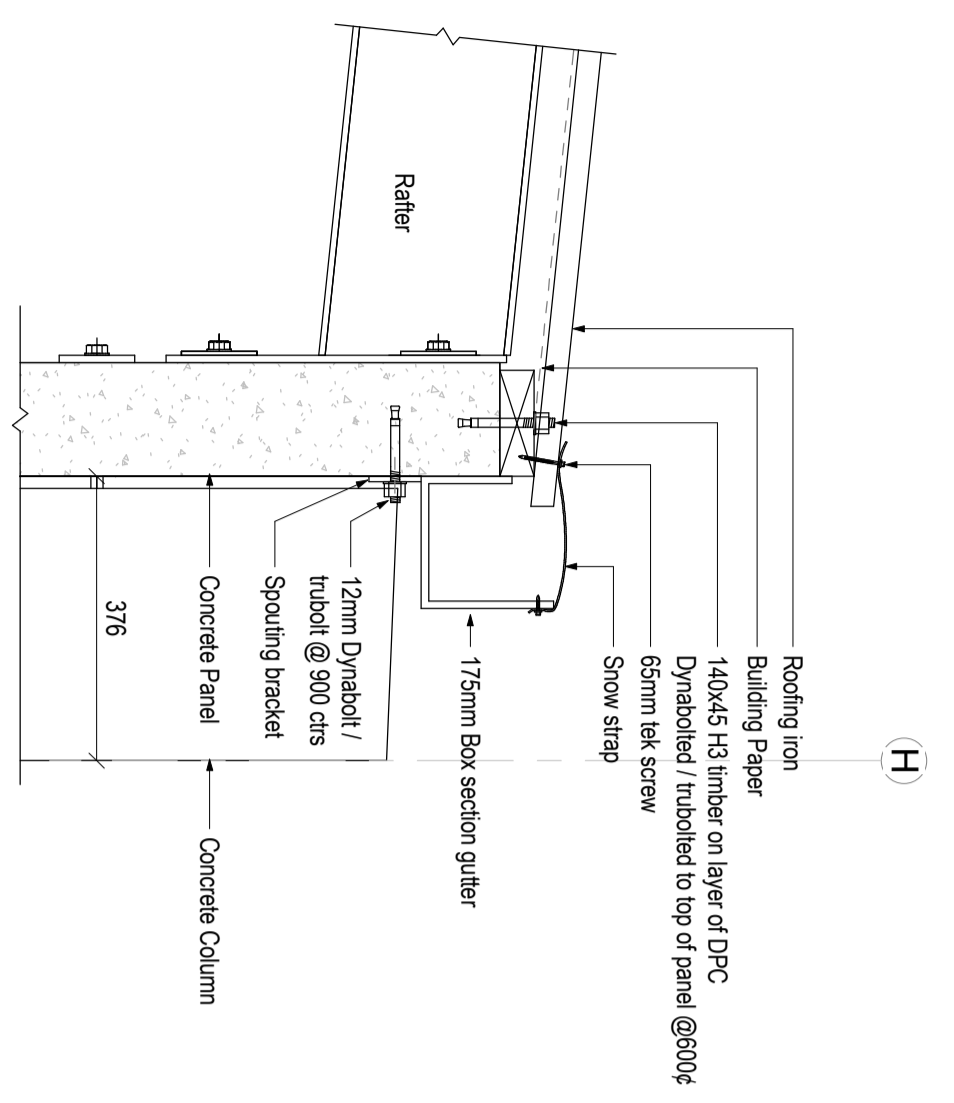
1 SECTION :Apron Flashing 1  
A0302 1 : 10



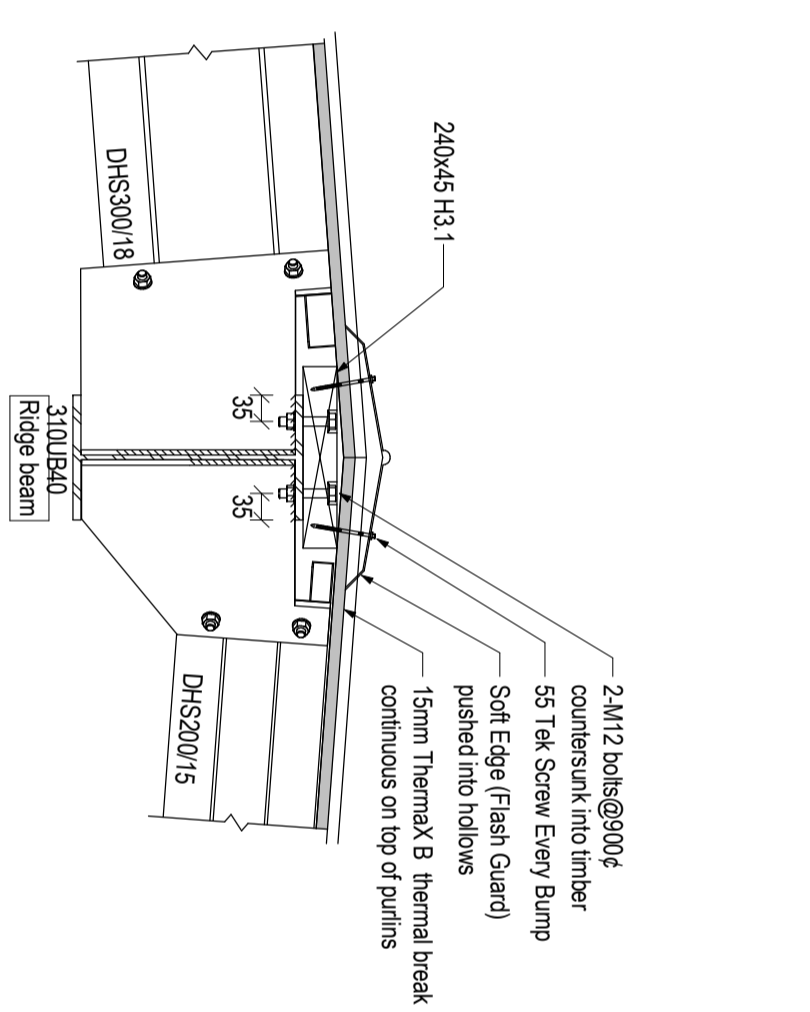
2 SECTION :Apron Flashing 2  
A1300 1 : 10



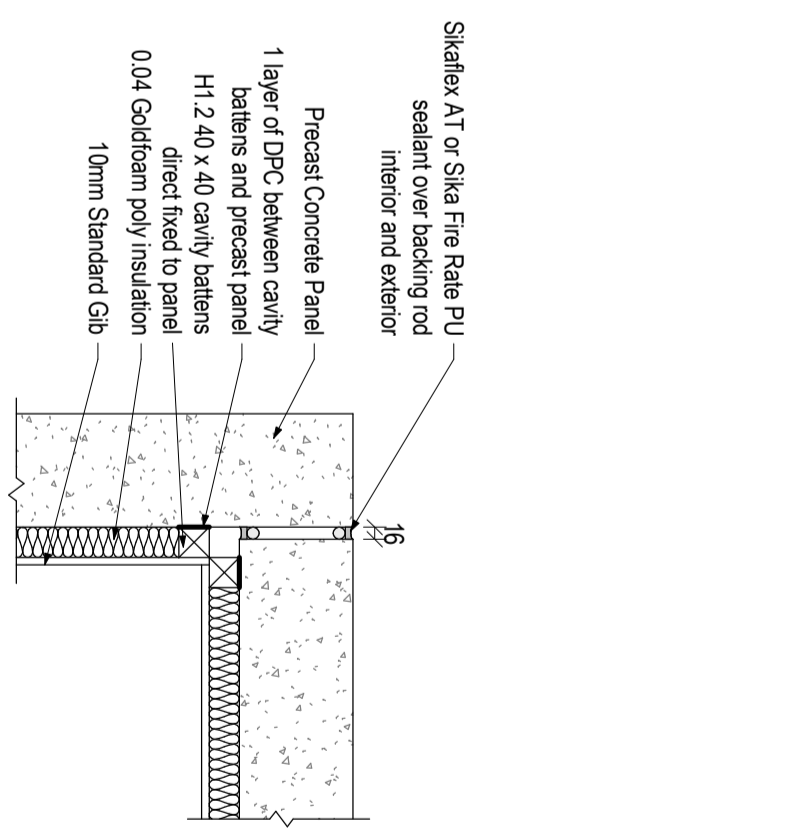
3 SECTION :Ridge Flashing to Precast  
A0300 1 : 10



4 SECTION :External gutter  
A1300 1 : 10



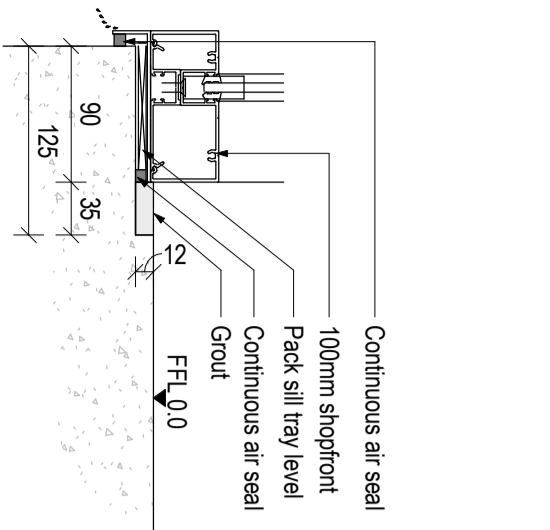
5 PLAN :Ridge Flashing detail  
A1300 1 : 10



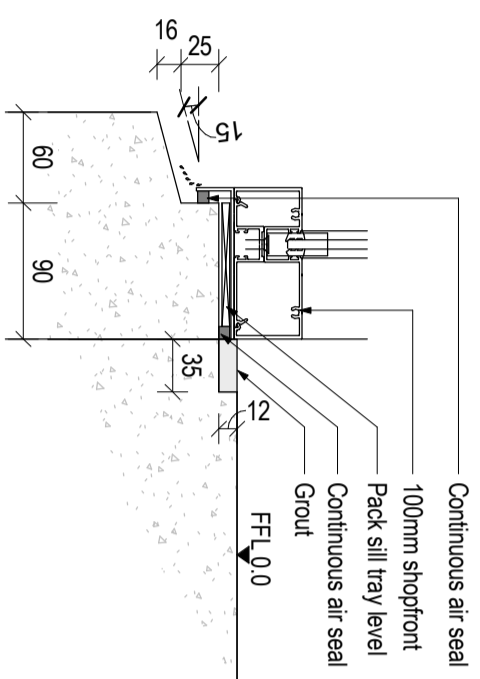
External Corner Precast Detail  
1 : 10

Rev#	Amendments	Date	SCALE	JOB #
			1 : 10 @ A2	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

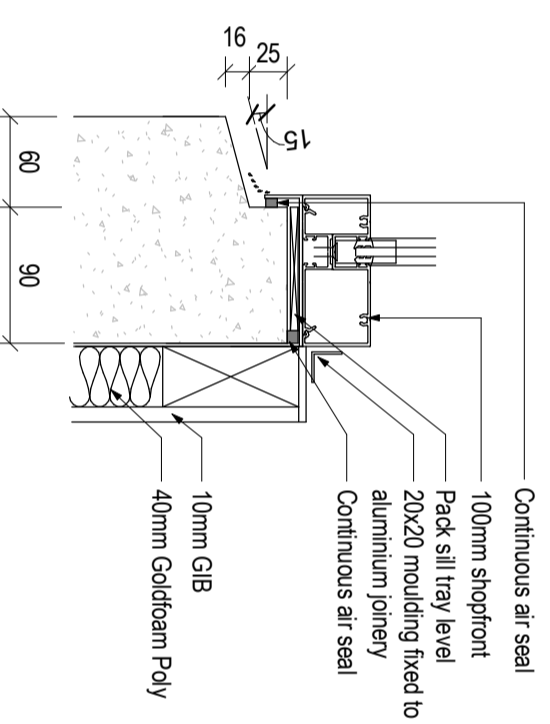
**Construction Issue**



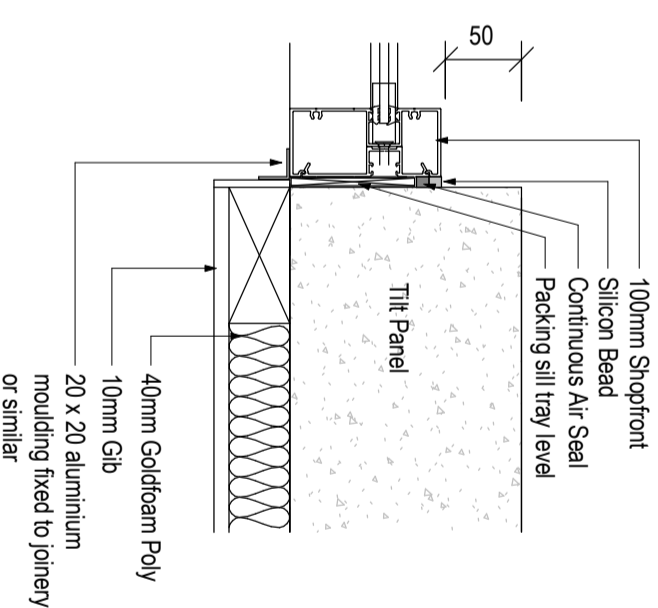
COMMERCIAL SILL DETAIL AT FFL STANDARD FOUNDATION EDGE



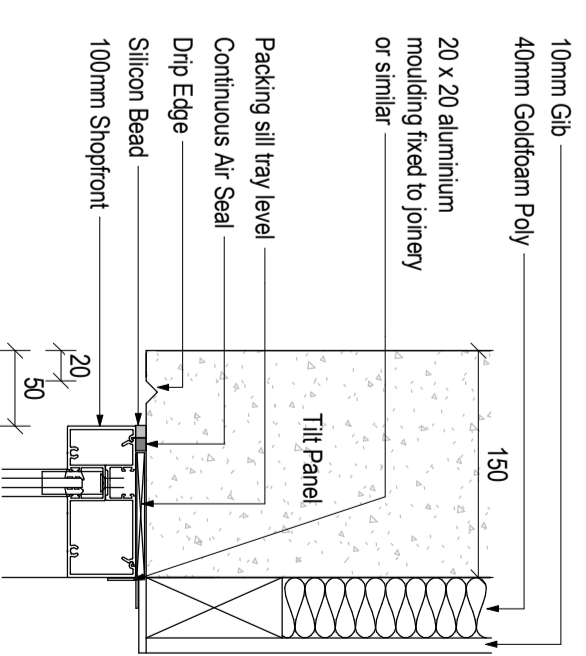
COMMERCIAL SILL DETAIL AT FFL IN PRECAST PANEL



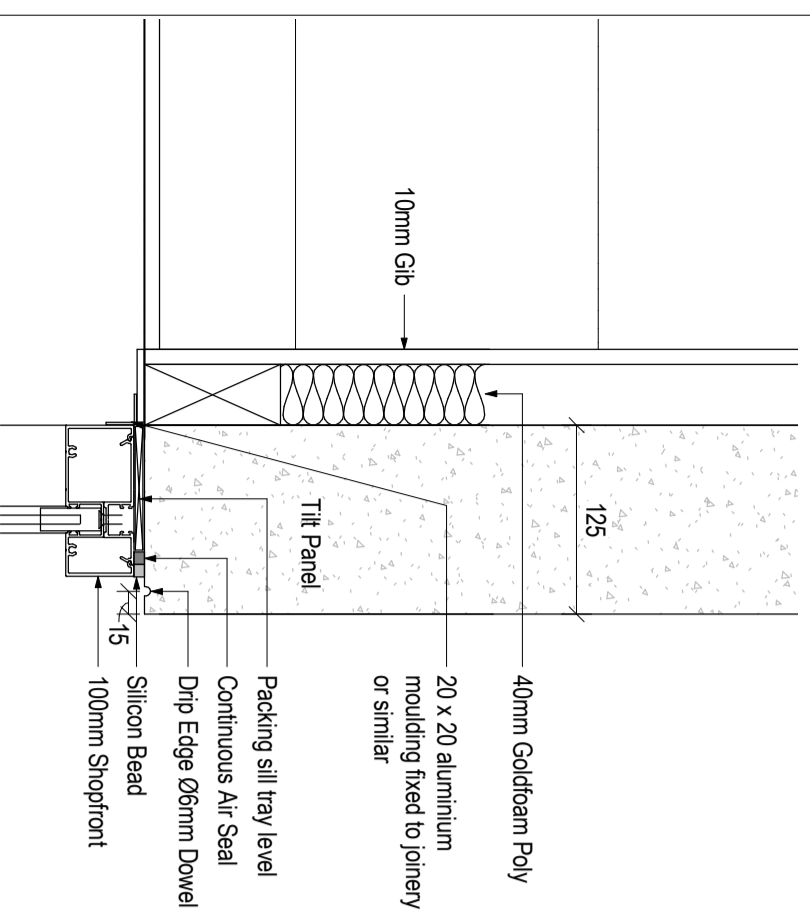
COMMERCIAL SILL DETAIL ABOVE FFL



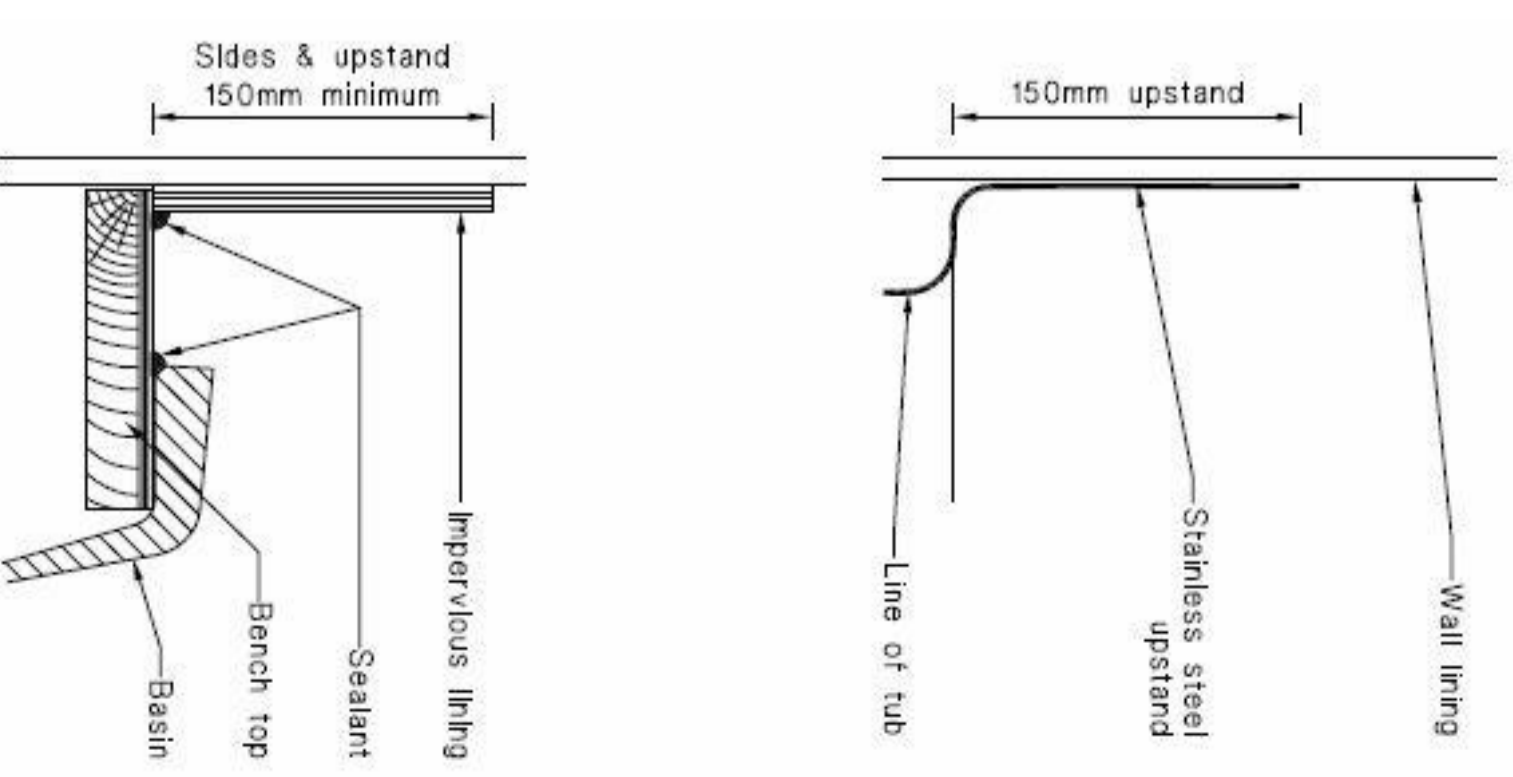
COMMERCIAL JAMB DETAIL



COMMERCIAL HEAD DETAIL



1  
AD3031  
DETAIL: Panel 4 drip edge  
1:5



(b) Tub, sink and basin

PROJECT

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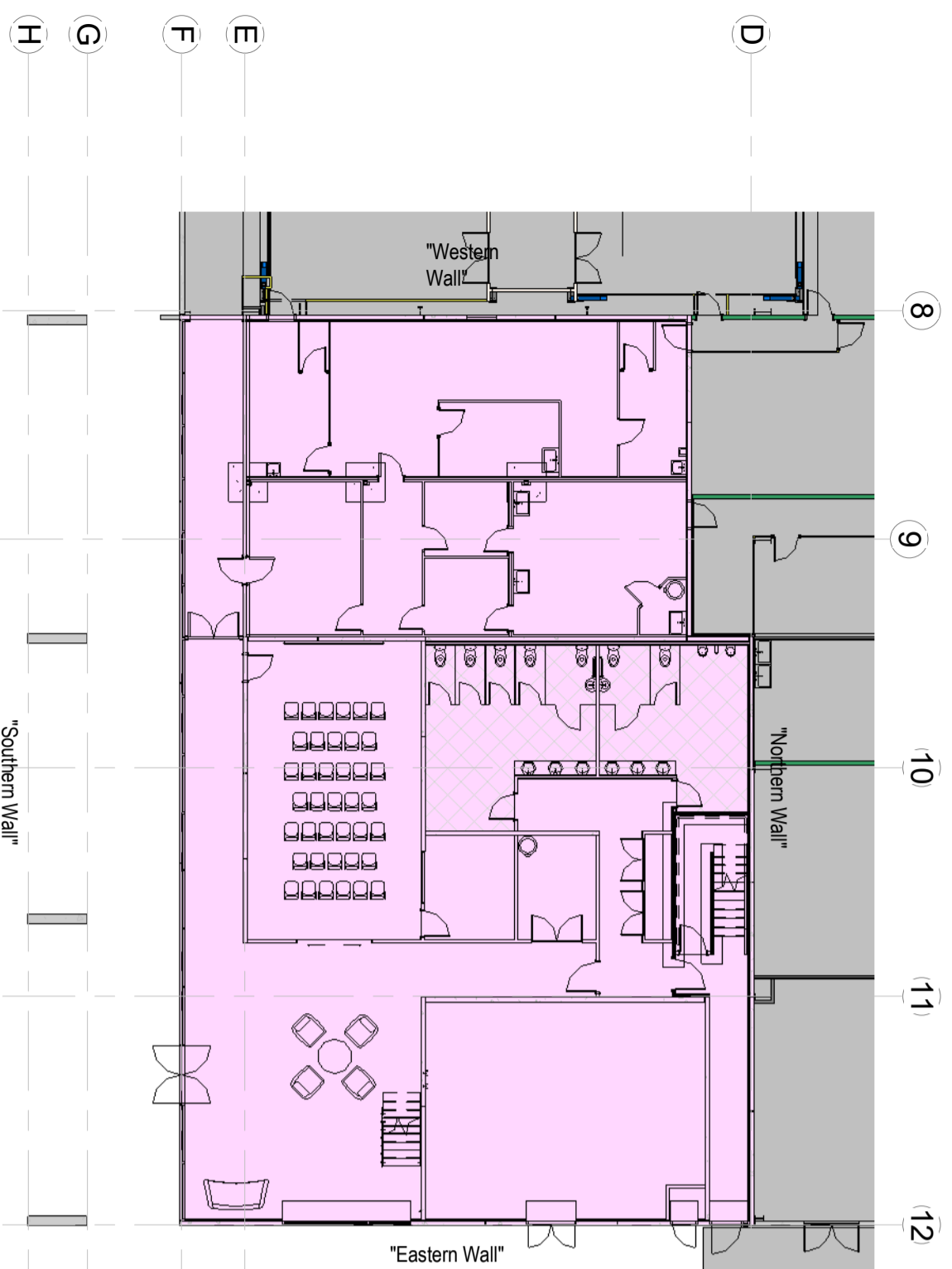
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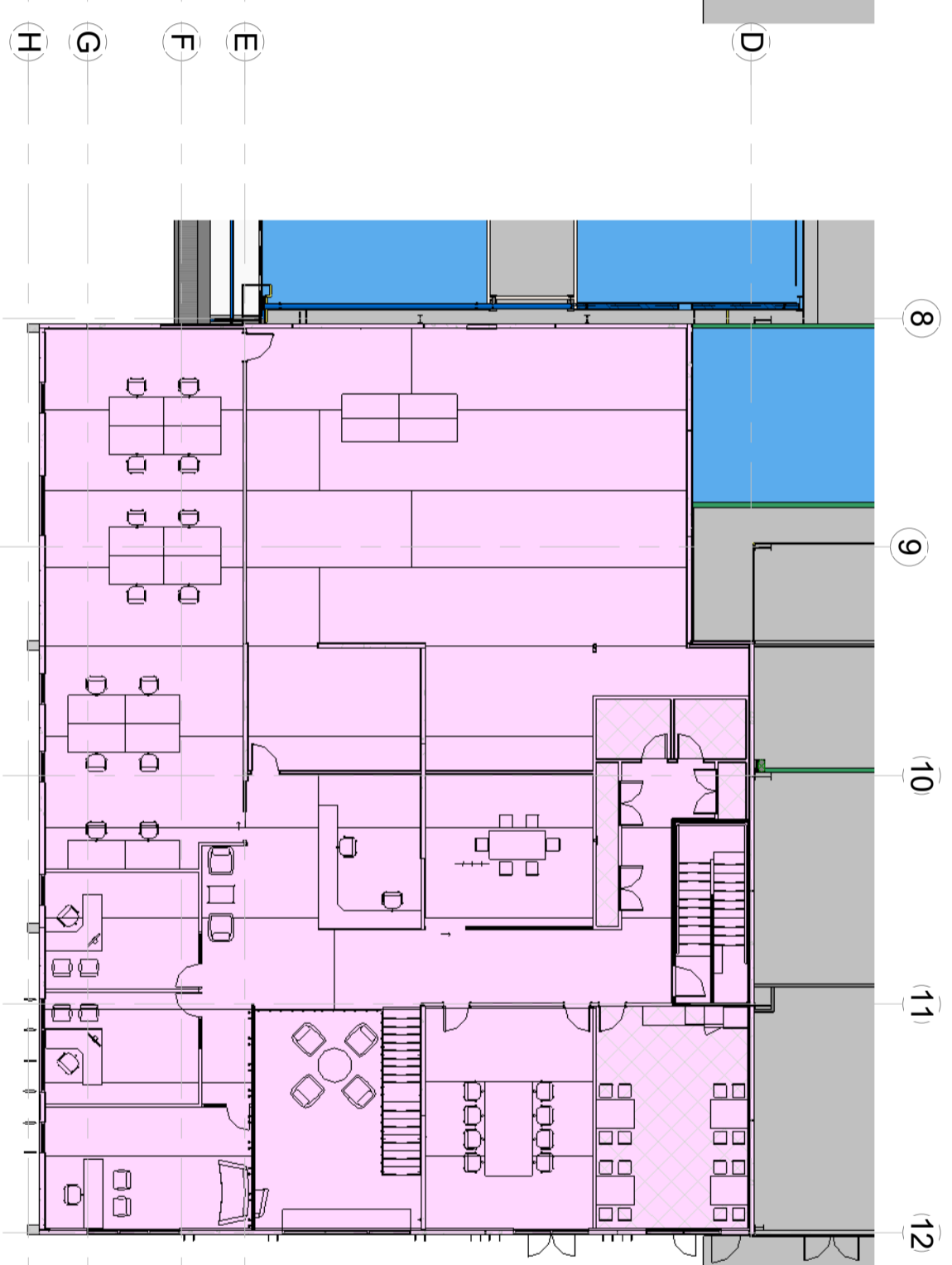
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Rev#	Amendments	Date	SCALE	JOB #
			1:5 @ A2	12413
			DRAWN BY C. White	DATE 13/05/16
			APPROVED BY A. Cloake	REV
			Flashing Details	AT303
			Please note, All dimensions to be verified on site	Paper size A2

Construction Issue



Ground Floor Plan H1  
1:200



First Floor Plan H1  
1:200

NZBC H1 ENERGY EFFICIENCY - Large Buildings (> 300m <sup>2</sup> )			
Floor Area - (to outside of external walls) 644m <sup>2</sup>			
Wall Area	Glazing Area		
North 192m <sup>2</sup> (faces to warehouse)	North 0m <sup>2</sup> (faces to warehouse)		
South 192m <sup>2</sup>	South 105m <sup>2</sup>		
East 151m <sup>2</sup>	East 43m <sup>2</sup>		
West 27m <sup>2</sup>	West 5.7m <sup>2</sup>		
Total Wall Area	Total Glazing Area		
642m <sup>2</sup>	153.7m <sup>2</sup>		
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 values provided	Minimum R-values climate zone 2 & 3 values provided	Complies
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 m<sup>2</sup>K/W

Type: Floor: Slab floor

Flooring: 50-100mm Concrete Topping Screed  
R-value: 0.04

Slab Insulation

Slab floor area [m <sup>2</sup> ]	513
Perimeter length [m]	95
External wall thickness [mm]	200
Soil conductivity [W/m °C]	1.2

Underslab insulation: none

Piles Footings: none

Slab edge insulation: none

Name: **Roof type 1** 3.30 m<sup>2</sup>K/W

Type: Roof: Steel framed roof, suspended ceiling

Roofing: Steel framed roof, suspended ceiling  
external surface 0.03

Roofing: Corrugate iron with building paper  
R-value: 0.01

Insulation: none

Steel Frame & Cavity: 300/180DHS (300x85x175) rafters or joists @ 1000mm, battens covered with insulation  
R-value: 0.04

Roof space (still air) [m <sup>2</sup> ]	0.11
Roof space (still air) [m <sup>2</sup> ]	0.11

Thermal Break: Thermax B 10mm  
R-value: 0.45

Roof Lining: Ceiling tiles  
R-value: 0.08

Internal surface 0.09

Recessed downlights: none

Clearance from lamp holder side [m]: none

Ceiling Area [m<sup>2</sup>]: none

Name: **Walltype 1** 1.41 m<sup>2</sup>K/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%

Thermal Break	none	R-value: 0.00
Strapping	40mm Goldfoam, 30kg/m <sup>3</sup>	1.44
Wall Lining	Gypsum plasterboard 10mm	R-value: 0.04
Internal surface	0.09	

Name: **Floortype 3** 2.89 m<sup>2</sup>K/W

Type: Floor: Slab floor

Flooring: XLam CLT 105mm  
R-value: 0.88

Slab Insulation

Slab floor area [m <sup>2</sup> ]	142
Perimeter length [m]	67.8
External wall thickness [mm]	150
Soil conductivity [W/m °C]	1.2

Underslab insulation: none

Piles Footings: none

Slab edge insulation: none

XLAM first floor that suspends to south side of building

CONSTRUCTION & ENGINEERING

Thompson Engineering 2002 Ltd, PO Box 204, Mairaki, Timaru, 9th Maxwell Road, Timaru  
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PROJECT

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NZ Dairy Collaborative Group

Infant Formula Blending Plant Offices

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Rev#	Amendments	Date	SCALE	JOB #
			As indicated@ A2	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

Construction Issue