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# STRUCTURAL DRAWINGS

## WHITES LINE EAST - NEW DWELLINGS FOR C\*\*\*\*\*

FOR BUILDING CONSENT - 11/03/2022

JOB No. 21104

DRAWING REGISTER		
DWG No.	TITLE	REVISION
S0.1	SPECIFICATION SUMMARY SHEET 1	A
S0.2	SPECIFICATION SUMMARY SHEET 2	A
S1.1	FOUNDATION PLAN	B
S1.2	FIRST FLOOR STRUCTURAL PLAN	B
S1.3	ROOF STRUCTURAL PLAN	B
S1.4	GROUND FLOOR BRACING PLAN	B
S1.5	FIRST FLOOR BRACING PLAN	B
S2.1	SECTION Z1	B
S2.2	SECTION Z2	B
S3.1	FOUNDATION DETAILS-1	B
S3.2	FOUNDATION DETAILS-2	A
S4.1	DETAILS-1	A
S4.2	DETAILS-2	A

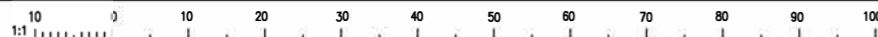
BUILDING CONSENT

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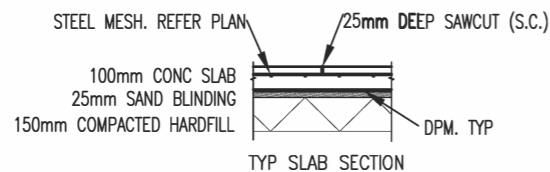
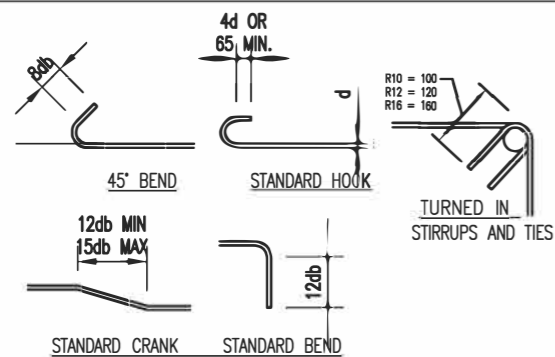
## 1.0 CONCRETE

- 1.1 : THIS IS A STANDARD DRAWING AND TO BE USED AS A GUIDE ONLY. REFER TO JOB DETAILS FOR ALL REINFORCING
- 1.2 : ENGINEER TO INSPECT ALL WALL REINFORCING ON SITE PRIOR TO CONCRETE POUR.
- 1.3 : THE MINIMUM COMPRESSIVE STRENGTH SHALL BE 25MPa  
 FOUNDATION : 25MPa  
 SLABS ON GRADE : 25MPa  
 ALL OTHER : 25MPa

BAR BEND DIAMETERS (MIN)		
STEEL GRADE	BAR DIA.	MIN. BEND DIA.
300 OR 500	6-20	5 d <sub>b</sub>
	24-40	6 d <sub>b</sub>

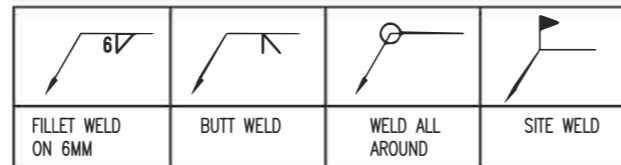
BAR BEND DIAMETERS FOR STIRRUPS AND TIES (MIN)			
STEEL GRADE	BAR DIA.	MIN. BEND DIA.	
		PLAIN BARS	DEFORMED BARS
300	6-20	2 d <sub>b</sub>	4 d <sub>b</sub>
	24-40	3 d <sub>b</sub>	6 d <sub>b</sub>
500	6-20	2 d <sub>b</sub>	4 d <sub>b</sub>
	24-40	3 d <sub>b</sub>	6 d <sub>b</sub>

LAP LENGTHS		
STEEL GRADE	INSITU CONCRETE	BLOCKWORK
300 OR 500	50 d <sub>b</sub>	70 d <sub>b</sub>



## 2.0 STEELWORK

- 2.1 : **BOLTING**  
 CONTACT SURFACES AT BOLTED CONNECTIONS SHALL MATCH ACCURATELY AND BE FREE OF DIRT, LOOSE SCALE, PITS AND OTHER DEFECTS. UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS THE MAX SIZE OF THE HOLES FOR THE BOLTS SHALL BE DIAMETER OF THE BOLTS PLUS 2mm. ALL BOLTS SHALL BE TIGHTENED TO A SNUG TIGHT FIT THEN TIGHTENED A FURTHER A 1/4 TURN. WASHERS, TAPERED WHERE NECESSARY, ARE TO BE USED UNDER BOLT HEADS AND NUTS. BOLTS TO BE USED AS FOLLOWS:  
 TIMBER TO TIMBER AND TIMBER TO STEEL CONNECTION USE ISO METRIC CLASS 4.6  
 ALL STEEL TO STEEL CONNECTION USE ISO METRIC CLASS 8.8  
 ALL STEEL TO CONCRETE CONNECTION USE ISO METRIC CLASS 8.8
- 2.2 : **WELDING**  
 ALL SURFACES TO BE WELDED SHALL BE GROUND CLEAN AND COMPLETELY FREE FROM ALL IMPURITIES AND HARMFULL MATTER PRIOR TO WELDING. WELDS TO BE CONTINUOUS BEVEL BUTT OR 5mm CONTINUOUS FILLET WELD (6mm FOR MANUAL WELDS) AS APPROPRIATE UNLESS NOTED OTHERWISE.
- 2.3: **HOLLOW SECTION**  
 HOLLOW SECTION MEMBERS SHALL BE CAPPED AND ALL JOINT SEALED.
- 2.4: **INSPECTION**  
 THE CONTRACTOR SHALL MAKE FACILITIES AVAILABLE TO THE ENGINEER AT ALL TIMES TO INSPECT ANY PART OF THE WORK IN THE FABRICATING SHOP AND ON THE SITE. THE ENGINEER HAS THE RIGHT TO REJECT AT ANY STAGE OF FABRICATION, ANY STEEL SHOWING DEFECT OR FAULTY WORKMANSHIP WHICH, IN HIS OPINION, WOULD RENDER THE FINISHED STEELWORK UNSUITABLE.



## 3.0 BOLTS & WASHERS

MAX BOLT SIZE	MIN. WASHER SIZE
8mm	25mm x 25mm x 1.5mm
12mm	50mm x 50mm x 3mm
16mm	64mm x 64mm x 5mm
20mm	75mm x 75mm x 6mm

PROVIDED THAT IF ROUND WASHERS ARE USED THEY SHALL BE OF A THICKNESS AND AREA NOT LESS THAN THOSE SPECIFIED ABOVE FOR THE EQUIVALENT SQUARE WASHER.

## 4.0 EXCAVATION AND BACKFILLING

- 4.1 : **EXCAVATION**  
 EXCAVATE TO LEVELS AS SHOWN ON THE DRAWINGS EXCAVATION SHALL NOT CAUSE UNDUE DISTURBANCE TO THE GROUND BELOW THE LEVELS OF FINAL TRIMMING
- 4.2 : **FILLING**  
 FILL TO BRING UP TO THE UNDERSIDE OF THE BASECOARSE OR SAND BLINDING AS APPROPRIATE. FILL MATERIAL SHALL BE OF GOOD QUALITY AND OF APPROVED ORIGIN AND ABLE TO BE WELL COMPACTED INTO A DENSE LAYER. NO PARTICLE SIZE SHALL BE GREATER THAN 75MM. SPREAD LOOSE FILL MATERIAL IN LAYERS NOT EXCEEDING 150MM IN THICKNESS AND COMPACTED TO ACHIEVE NOT LESS THAN 95% RELATIVE COMPACTION IN ACCORDANCE WITH NZS4402:1986 PART 4 TEST 4.1.1. NZ STANDARD COMPACTION. THIS STANDARD OF COMPACTION IS REQUIRED THROUGHOUT THE FULL DEPTH OF THE FILL MATERIAL.
- COMPACTION MACHINERY MUST BE SUITABLE FOR THE PURPOSE. GENERALLY A HAND OPERATED OR SELF PROPELLED VIBRATING ROLLER OF MEDIUM SIZE WITH A WHACKER USED IN CONFINED SPACES. VIBRATING PLATES SHALL ONLY BE USED ON THIN LAYERS.
- THE MOISTURE CONTENT, THE METHOD OF COMPACTION AND THE MATERIAL USED SHALL BE SUCH THAT THE FINISHED RESULT DOES NOT WEAVE WHEN PROOF ROLLED .

## 5.0 ABBREVIATIONS:

B	BOTTOM	EW	EACH WAY
C	CENTRAL	RHS	RECTANGULAR HOLLOW SECTION
C/C	CENTRAL TO CENTRAL	SHS	SQUARE HOLLOW SECTION
CHS	CIRCULAR HOLLOW SECTION	THK	THICK
CJ	CONSTRUCTION JOINT	TYP	TYPICAL
DPM	DAMP PROOF MEMBRANE	UB	UNIVERSAL BEAM
EF	EACH FACE	UC	UNIVERSAL COLUMN

## 6.0 REINFORCING

D12-250 DENOTES 12MM DIA MS (GRADE 300 MPa) DEFORMED BARS AT 250 C/C.  
 R10-250 DENOTES 10MM DIA MS (GRADE 300 MPa) PLAIN BARS AT 250 C/C.  
 HD12-150 DENOTES 12MM DIA HIGH YIELD (GRADE 500 MPa) DEFORMED BARS AT 150 C/C.  
 HR10-150 DENOTES 10MM DIA HIGH YIELD (GRADE 500 MPa) PLAIN BARS AT 150 C/C.

## 7.0 INSPECTIONS

7.1: THE ENGINEER IS TO BE ADVISED 48 HOURS BEFORE INSPECTION NEEDED. ENGINEER TO INSPECT ALL STRUCTURAL CONCRETE WORK BEFORE POURING.

7.2: INSPECTION INCLUDE:

COMPLETION OF EXCAVATION & BACKFILLING  
 PREPARATION OF FOUNDATIONS  
 PREPARATION OF STEEL STRUCTURE BEFORE CLOSE IN  
 PREPARATION OF STRUCTURAL TIMBER

**BUILDING CONSENT**

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### NOTE

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- ALL WORK AND MATERIAL TO COMPLY WITH THE NEW ZEALAND BUILDING CODE.
- ALL DIMENSIONS IN mm. DO NOT SCALE THE DRAWING. USE STATED DIMENSION ONLY
- NEW FOUNDATION TO BE FOUNDED ON "GOOD GROUND" ACCORDING TO NZS3604 CONFIRM ON SITE

A	BUILDING CONSENT	06/12/2021
P1	PRELIMINARY	01/12/2021
No.	Revision/Issue	Date



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Designed	VM
Drawn	MC
Checked	VM
Approved	DL

Client

Project  
 NEW DWELLINGS  
 1  
 Drawing Title  
 SPECIFICATION SUMMARY SHEET 1

Job No.	21104	Sheet	S0.1
Date	01/12/2021	Scale	N/A
Issue	A	Issue	A3



1.0 TABLE 1: GIB STANDARD PLASTERBOARD BRACING UNIT RATINGS

TYPE	LINING	OTHER REQUIREMENT
GS1-N	GIB STANDARD PLASTERBOARD ONE SIDE	N/A
GS2-N	GIB STANDARD PLASTERBOARD BOTH SIDES	N/A
GSP-H	GIB STANDARD PLASTERBOARD ONE SIDE	N/A

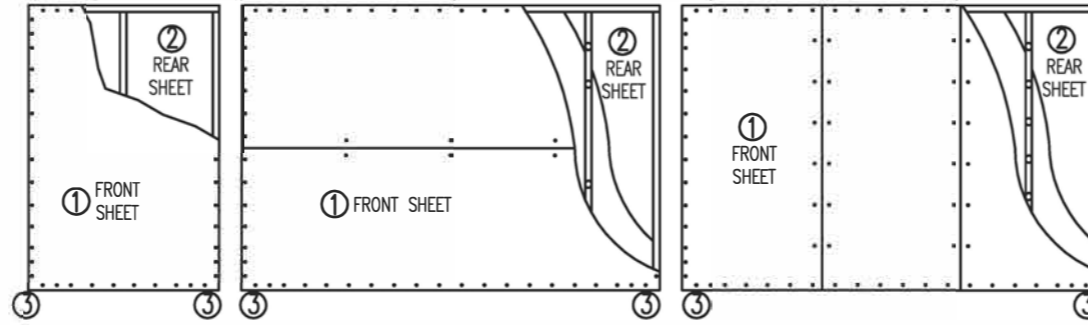
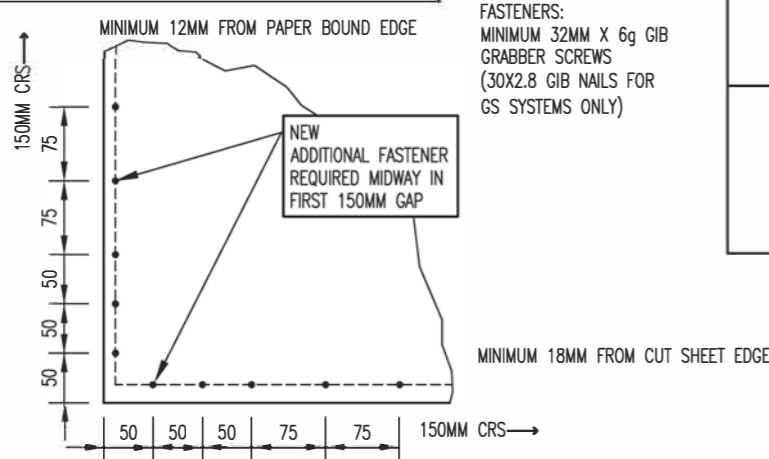
2.0 TABLE 2: GIB BRACELINE BRACING UNIT RATINGS

TYPE	LINING	OTHER REQUIREMENT
BL1-H	GIB BRACELINE ONE SIDE	PANEL HOLD-DOWN FIXINGS
BLG-H	GIB BRACELINE ONE SIDE GIB STANDARD PLASTERBOARD THE OTHER	PANEL HOLD-DOWN FIXINGS
BLP-H	GIB BRACELINE ONE SIDE PLYWOOD THE OTHER	PANEL HOLD-DOWN FIXINGS

3.0 HOLD-DOWN FIXING DETAIL: GIB HANDIBRAC

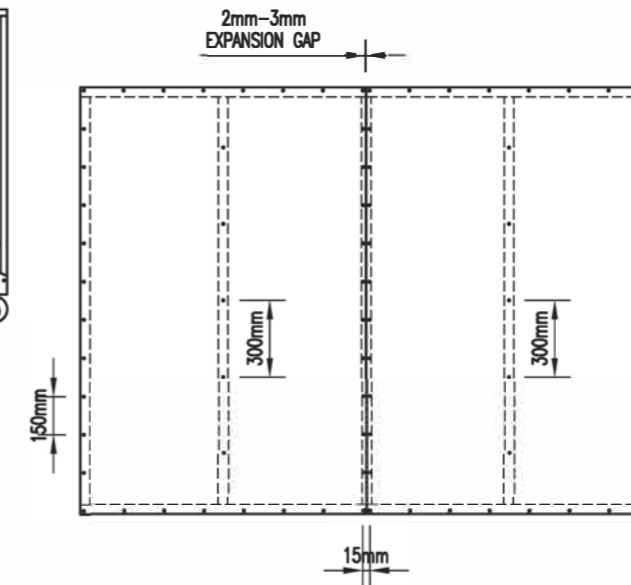
CONCRETE FLOOR	
EXTERNAL WALLS	INTERNAL WALLS
POSITION GIB HANDIBRAC AS CLOSE AS PRACTICABLE TO THE INTERNAL EDGE OF THE BOTTOM PLATE	POSITION GIB HANDIBRAC AT THE STUD/PLATE JUNCTION
TIMBER FLOOR	
EXTERNAL WALLS	INTERNAL WALLS
POSITION GIB HANDIBRAC AS CLOSE AS PRACTICABLE TO THE INTERNAL EDGE OF THE BOTTOM PLATE	POSITION GIB HANDIBRAC AT THE STUD/PLATE JUNCTION

4.0 GIB EZYBRACE 2016 FASTENER PATTERN



SYSTEM	LINING ONE SIDE ①		LINING OPPOSITE SIDE ②		PANEL HOLD-DOWN FIXING ③	FASTENER SPACING
	LINING	FASTENERS	LINING	FASTENERS		
GS1-N	ANY 10MM OR 13MM GIB PLASTERBOARD	30MM GIB NAILS, OR MINIMUM 32MM X 6g GIB GRABBER HIGH THREAD SCREWS	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	GIB PLASTERBOARD CORNER FASTENING PATTERN AS ILLUSTRATED ABOVE FASTENERS AT 150MM TO BRACING ELEMENT PERIMETER, AND: * AT 300MM CENTRES TO INTERMEDIATE SHEET JOINTS FOR VERTICAL FIXING, OR * AT STUD/SHEET JUNCTION FOR HORIZONTALLY FIXED ELEMENTS, AND * GIBFIX ADHESIVE DAUBS AT 300MM CRS TO INTERMEDIATE FRAMING
GS2-N			ANY 10MM OR 13MM GIB PLASTERBOARD	30MM GIB NAILS, OR MINIMUM 32MM X 6g GIB GRABBER HIGH THREAD SCREWS		
GSP-H			MINIMUM 7MM ECOPLY MANUFACTURED TO AS/NZS 2269	50MMX2.8MM FLAT HEAD GALVANISED OR STAINLESS STEEL NAILS	REFER TO 3.0 HOLD-DOWN FIXING DETAIL: GIB HANDIBRAC	
BL1-H	10MM	MINIMUM 32MM X 6g GIB GRABBER HIGH THREAD SCREWS	NOT REQUIRED	NOT REQUIRED		PLYWOOD FASTENERS AT 150MM AROUND THE PERIMETER OF EVERY SHEET AND AT 300MM CENTRES TO INTERMEDIATE STUDS. PLACE FASTENERS NO CLOSER THAN 7MM FROM SHEET EDGES. PLASTERBOARD CORNER FASTENER PATTERN DOES NOT APPLY TO PLYWOOD.
BLG-H	OR 13MM GIB BRACELINE	GIB GRABBER HIGH THREAD SCREWS GIB BRACELINE NAILS MAY BE USED FOR 10MM GIB BRACELINE ONLY	ANY 10MM OR 13MM GIB PLASTERBOARD	30MM GIB NAILS, OR MINIMUM 32MM X 6g GIB GRABBER HIGH THREAD SCREWS		
BLP-H			MINIMUM 7MM ECOPLY MANUFACTURED TO AS/NZS 2269	50MMX2.8MM FLAT HEAD GALVANISED OR STAINLESS STEEL NAILS		

6.0 FASTENER SPACING FOR ECOPLY



NOTE

INFORMATION SHOULD BE READ IN CONJUNCTION WITH  
 \* GIB EZYBRACE SYSTEMS AUGUST 2016 AND  
 \* ECOPLY SPECIFICATION AND INSTALLATION GUIDE SEPTEMBER 2015 AND  
 \* ECOPLY STRUCTURAL RIGID AIR BARRIER SPECIFICATION AND INSTALLATION GUIDE SEPTEMBER 2017

5.0 ECOPLY BARRIER BRACING

SPECIFICATION NO.	LINING REQUIREMENT	HOLD DOWN	FASTENERS	FASTENING CENTRES
EP1 EPB1	ECOPLY BARRIER ONE SIDE	GIB HANDIBRAC	50X2.8MM HOT DIP GALVANISED OR STAINLESS STEEL FLAT HEAD NAILS. PLACE FASTENERS NO LESS THAN 7MM FROM SHEET EDGES.	150MM CENTRES AROUND THE PERIMETER OF EACH SHEET AND 300MM CENTRES TO INTERMEDIATE STUDS. WHERE MORE THAN ONE SHEET FORMS THE BRACE ELEMENT EACH SHEET MUST BE NAILS OF INDEPENDENTLY
EPBS	ECOPLY BARRIER ONE SIDE	NOT REQUIRED	50X2.8MM HOT DIP GALVANISED OR STAINLESS STEEL FLAT HEAD NAILS. PLACE FASTENERS NO LESS THAN 7MM FROM SHEET EDGES.	150MM CENTRES AROUND THE PERIMETER OF EACH SHEET AND 300MM CENTRES TO INTERMEDIATE STUDS. WHERE MORE THAN ONE SHEET FORMS THE BRACE ELEMENT EACH SHEET MUST BE NAILS OF INDEPENDENTLY
EPBG EPG	ONE LAYER OF 7MM ECOPLY BARRIER EXTERIOR WALL ONE SIDE ONE LAYER OF 10MM OR 13MM GIB STANDARD PLASTERBOARD OTHER SIDE	GIB HANDIBRAC	50X2.8MM HOT DIP GALVANISED OR STAINLESS STEEL FLAT HEAD NAILS. PLACE FASTENERS NO LESS THAN 7MM FROM SHEET EDGES.	150MM CENTRES AROUND THE PERIMETER OF EACH SHEET AND 300MM CENTRES TO INTERMEDIATE STUDS. WHERE MORE THAN ONE SHEET FORMS THE BRACE ELEMENT EACH SHEET MUST BE NAILS OF INDEPENDENTLY

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NOTE

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- NEW FOUNDATION TO BE FOUNDED ON "GOOD GROUND" ACCORDING TO NZS3604 CONFIRM ON SITE

No.	Revision/Issue	Date
A	BUILDING CONSENT	06/12/2021
P1	PRELIMINARY	01/12/2021



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Designed	VM
Drawn	MC
Checked	VM
Approved	DL

Client

Project

Drawing Title  
SPECIFICATION SUMMARY SHEET-2

Job No.	Sheet
21104	S0.2
Date 01/12/2021	
Scale N/A	Issue A A3



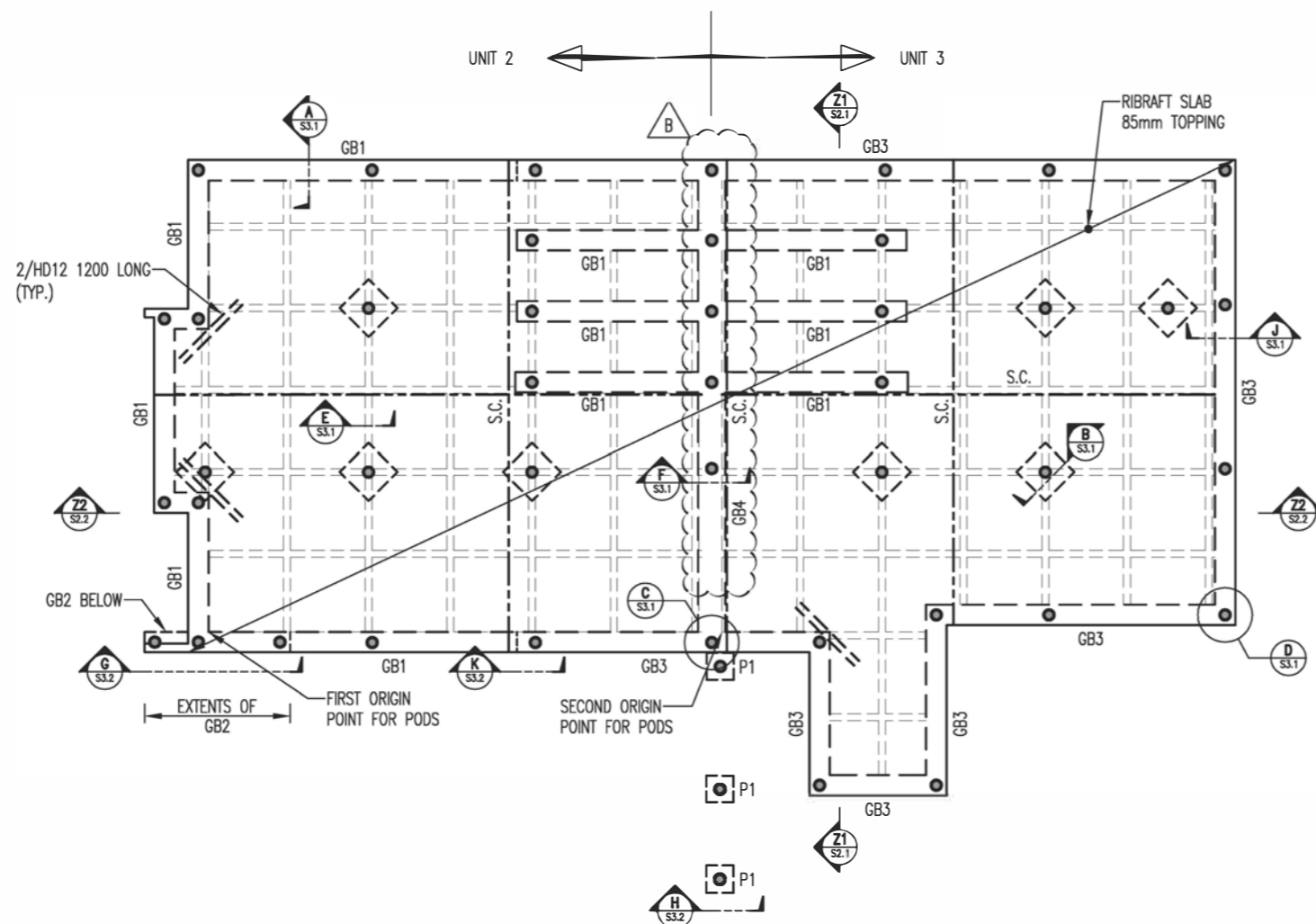
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TYPICAL FOUNDATION	RIBRAFT - 1100x1100x220 PODS, 100mm RIBS @1200 CRS 85mm TOPPING WITH SE62 MESH
GB1	300x305 DEEP CONCRETE GROUND BEAM
GB2	300x300 DEEP CONCRETE GROUND BEAM (BELOW GB1)
GB3	300x750 DEEP CONCRETE GROUND BEAM
GB4	400x305 DEEP CONCRETE GROUND BEAM
●	Ø150 SED DRIVEN PILE, 35kN SWL (50kN ULS)
S.C.	25 x 3.0mm SAW CUT
	600x600x305 DEEP CONCRETE PILE CAP
P11	400x400x300 DEEP CONCRETE PILE CAP



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**FOUNDATION PLAN**

B	BUILDING CONSENT	11/03/2022
A	BUILDING CONSENT	06/12/2021
P1	PRELIMINARY	01/12/2021
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Approved	DL

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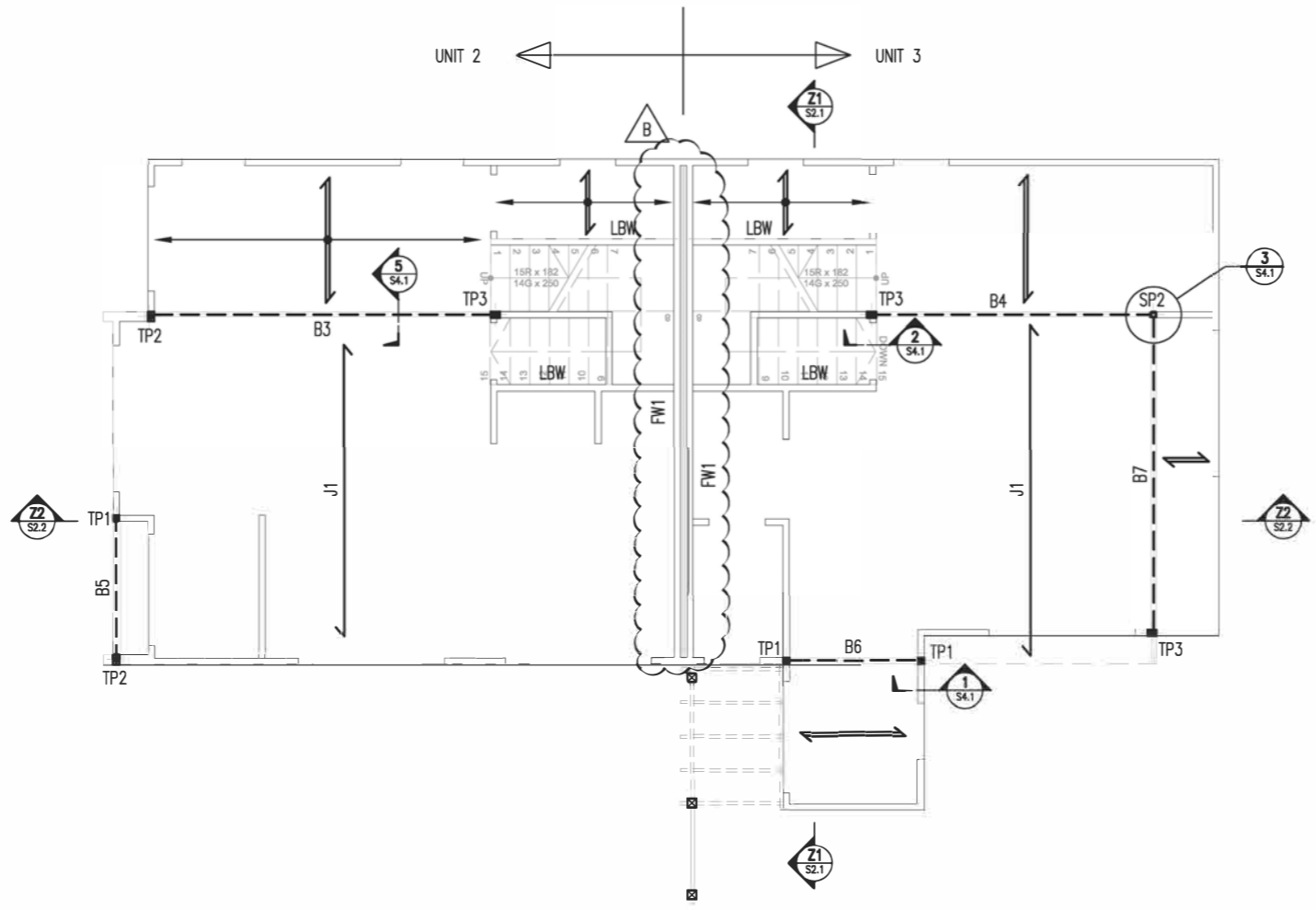
Project

Drawing Title  
**FOUNDATION PLAN**

Job No.	21104	Sheet	S1.1
Date	01/12/2021	Issue B	A3
Scale	1:100		







FIRST FLOOR STRUCTURAL PLAN

B3	230x75 PFC
B4	230x75 PFC
B5	2/240x45 SGB
B6	2/240x45 SGB
B7	230x75 PFC
TP1	2/90x45 SGB TIMBER POST
TP2	2/140x45 SGB TIMBER POST
TP3	3/90x45 SGB TIMBER POST
SP2	75x6 SHS STEEL POST
LBW	INTERNAL LOAD BEARING WALL
J1	POSI-STRUT PS25-25x14 @450 CRS
	ROOF TRUSS BY OTHERS
FW1	2/90x45 SGB STUDS @400 CRS

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Job No.	21104	Sheet	S1.2
Date	01/12/2021		
Scale	1:100	Issue	B A3

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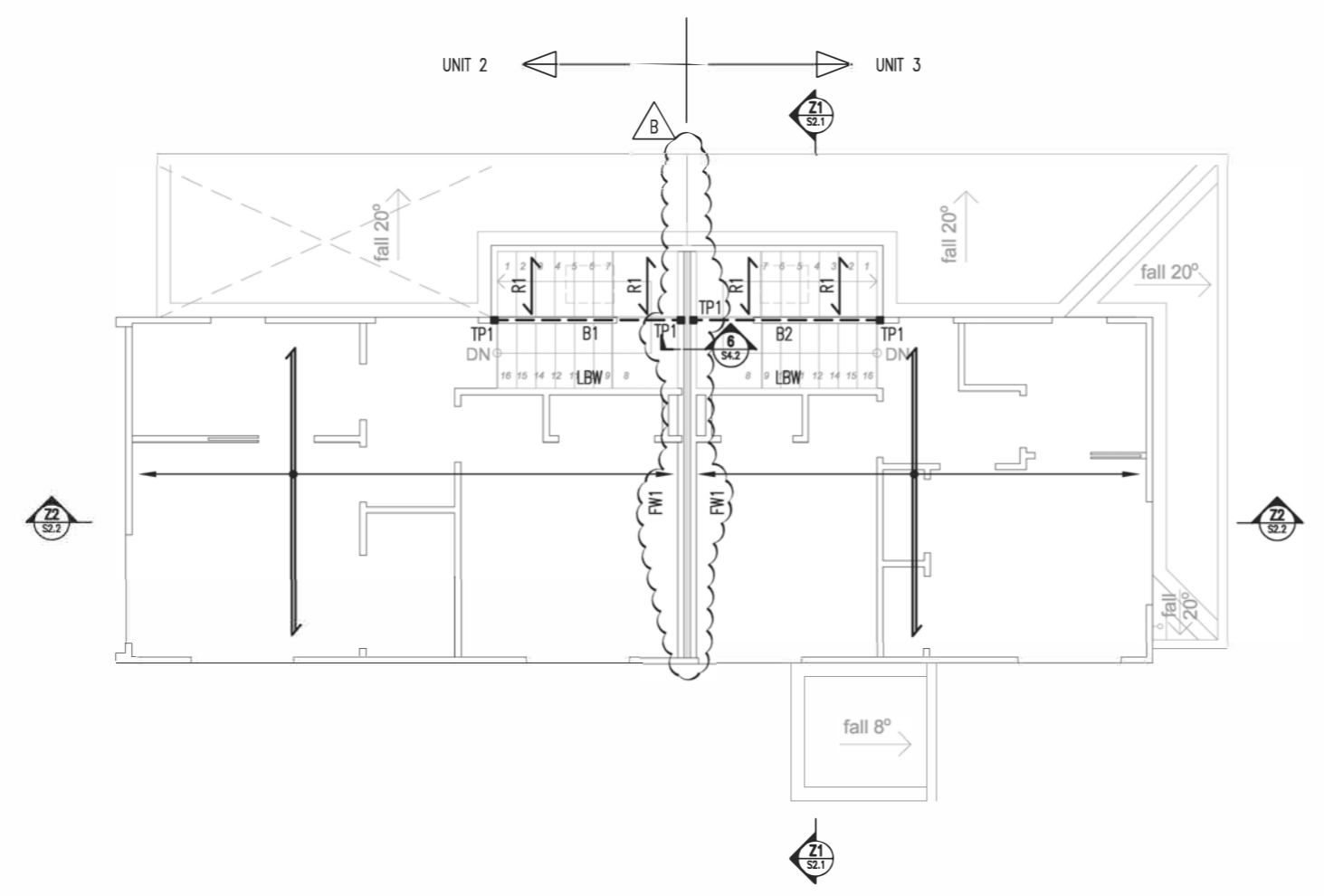


B1	2/190x45 SGB
B2	2/190x45 SGB
TP1	2/90x45 SGB TIMBER POST
R1	ROOF RAFTERS, REFER TO ARCHITECT
	ROOF TRUSS BY OTHERS

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ROOF STRUCTURAL PLAN

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A	BUILDING CONSENT	06/12/2021
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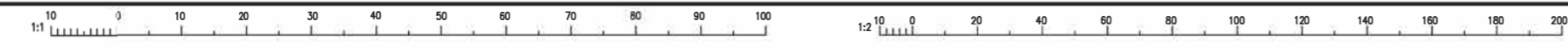
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Approved	DL

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Drawing Title	
ROOF STRUCTURAL PLAN	
Job No.	Sheet
21104	S1.3
Date	01/12/2021
Scale	1:100
Issue	B
	A3

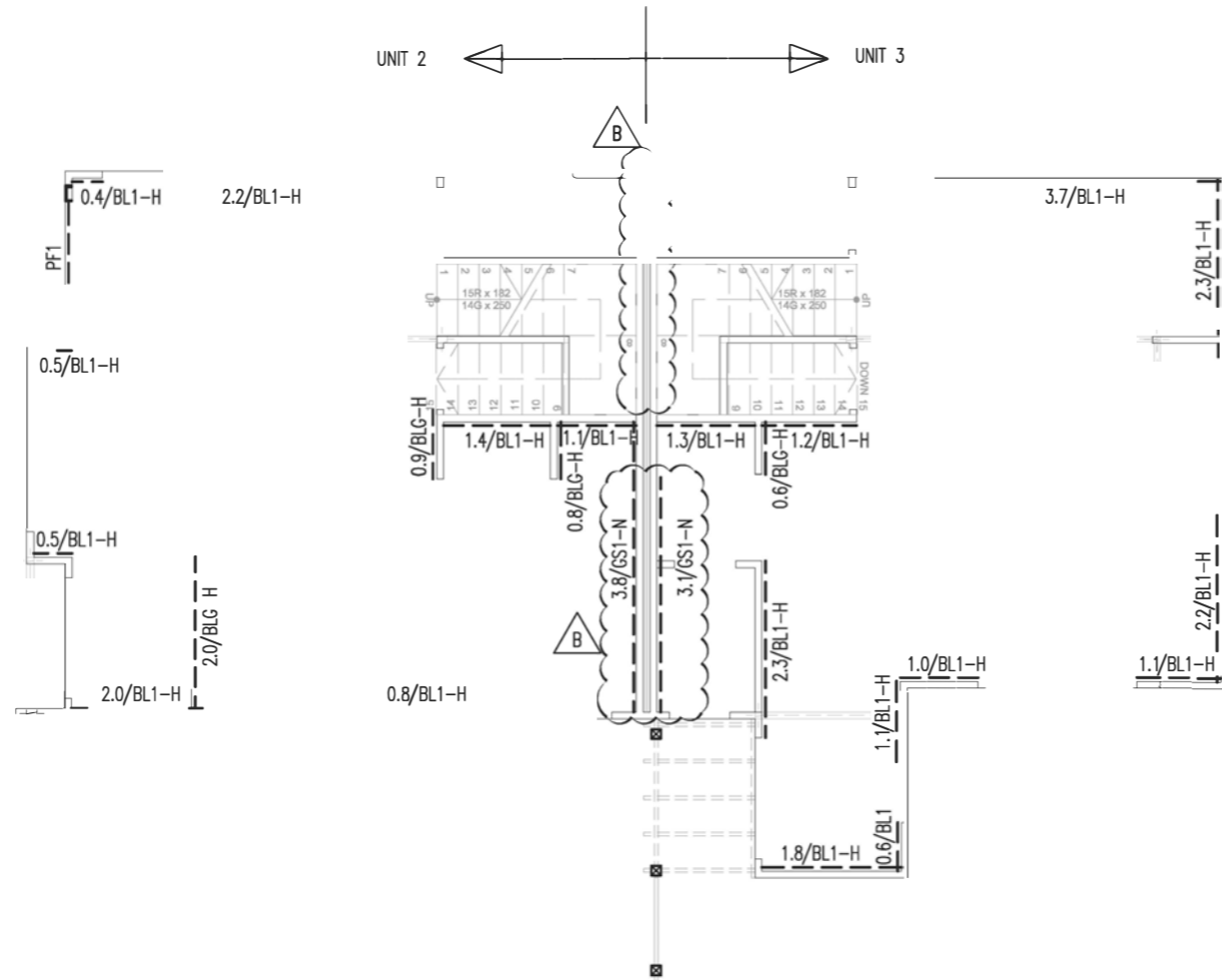
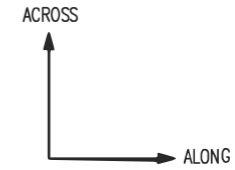


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**GROUND FLOOR BRACING PLAN**

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Approved DL

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Drawing Title  
GROUND FLOOR BRACING PLAN

Job No. 21104 Sheet S1.4  
Date 01/12/2021  
Scale 1:100 Issue B | A3

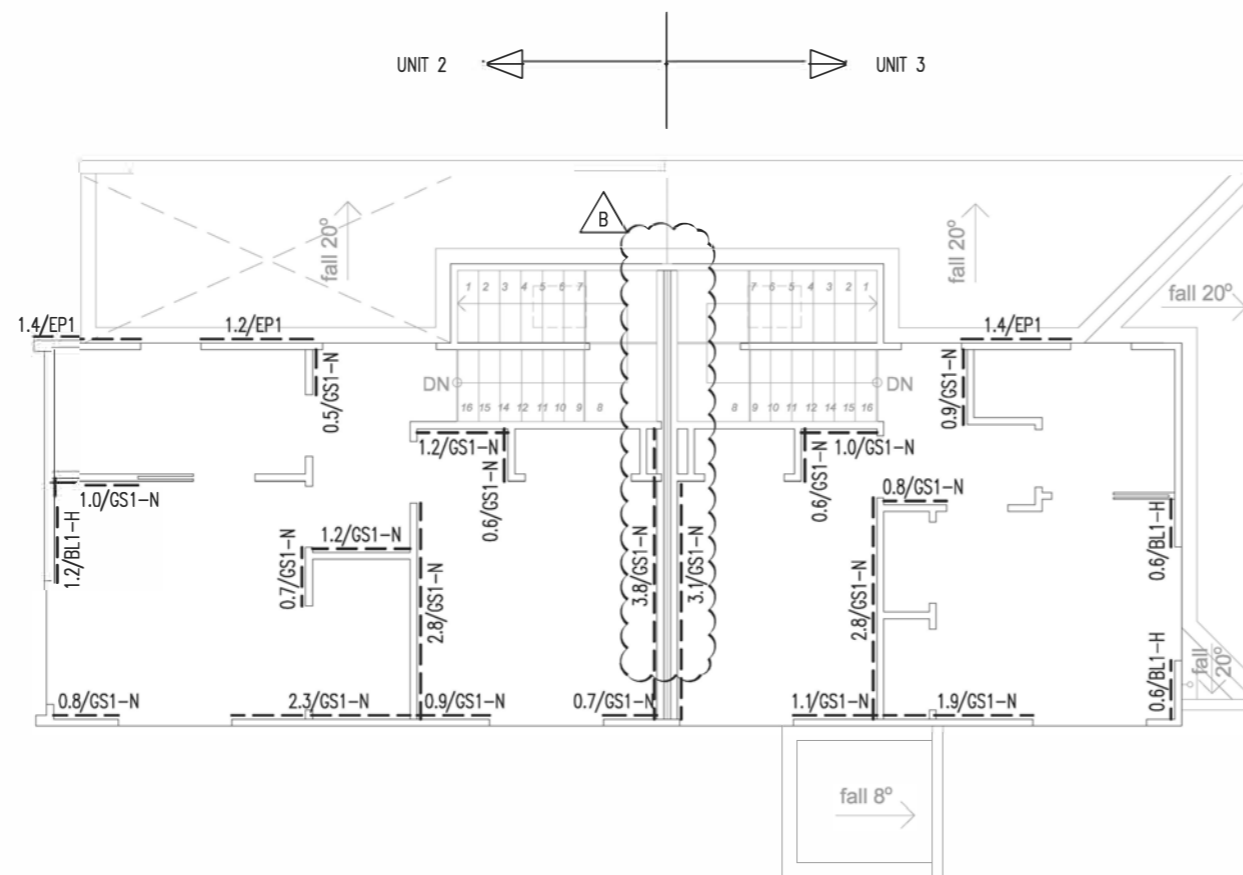


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FIRST FLOOR BRACING PLAN

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Designed	VM
Drawn	MC
Checked	VM
Approved	DL

Client

Project

W

Drawing Title

FIRST FLOOR BRACING PLAN

Job No.	21104	Sheet	S1.5
Date	01/12/2021	Issue B	A3

**BUILDING CONSENT**

**GRANTED**  
**30/03/2022**

**HUTT CITY COUNCIL**





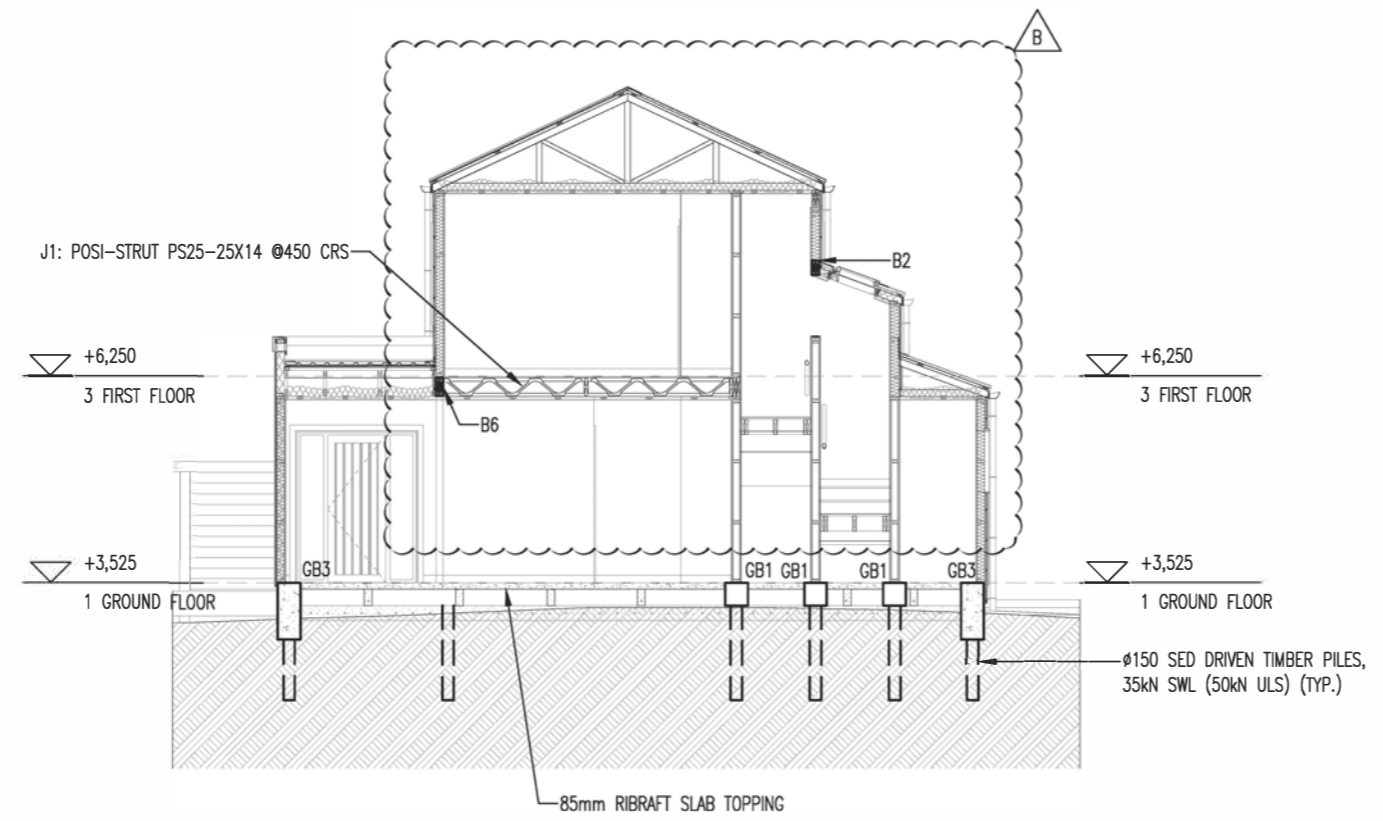
B2	2/190x45 SGB
B6	2/240x45 SGB
GB1	300x305 DEEP CONCRETE GROUND BEAM
GB3	300x750 DEEP CONCRETE GROUND BEAM

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Z1 SECTION  
S1.2

**BUILDING CONSENT**  
  
**GRANTED**  
**30/03/2022**  
  
**HUTT CITY COUNCIL**



B	BUILDING CONSENT	11/03/2022
A	BUILDING CONSENT	06/12/2021
P1	PRELIMINARY	01/12/2021
No.	Revision/Issue	Date



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Approved	DL

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Project

Drawing Title  
SECTION Z1

Job No.	21104	Sheet	S2.1
Date	01/12/2021	Scale	1:100
Issue	B		A3

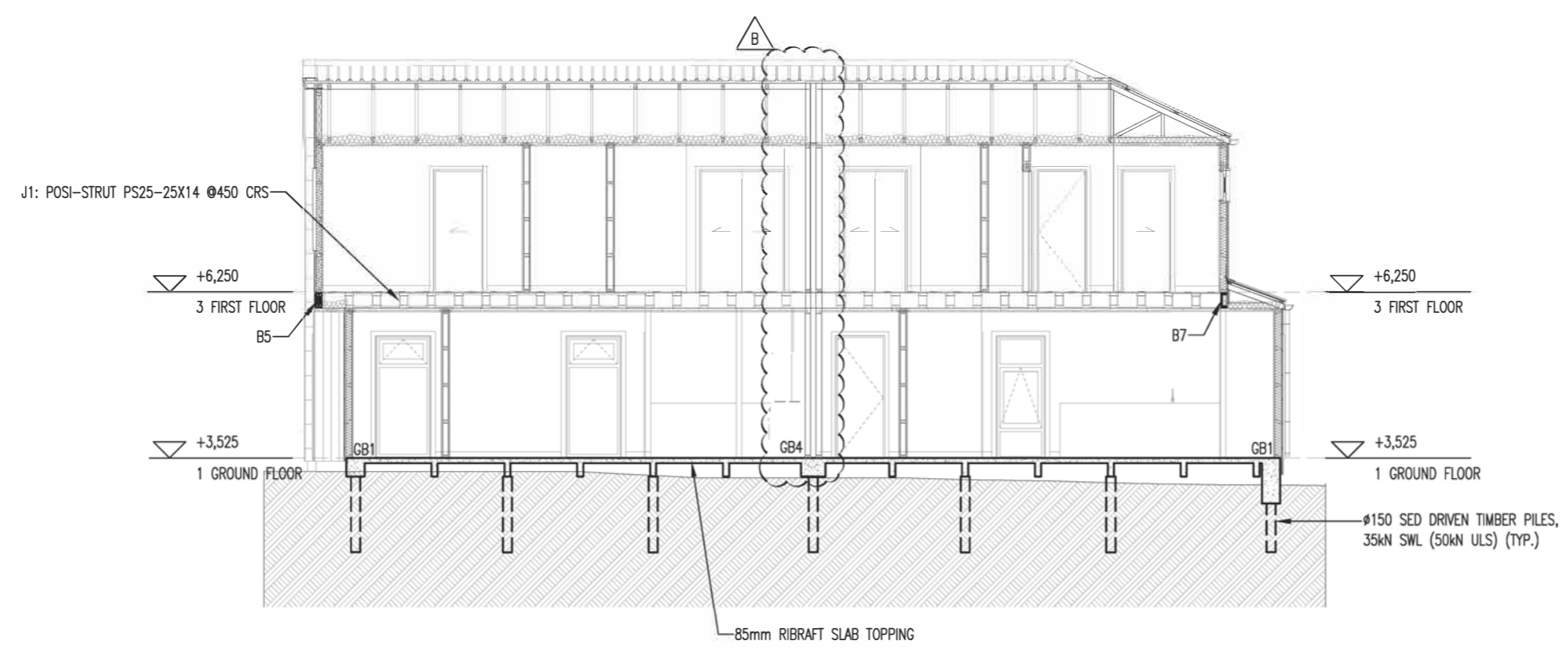
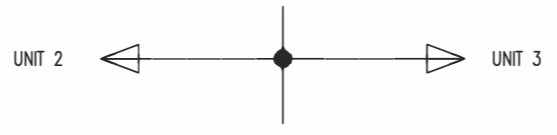


B5	2/240x45 SGB
B7	230x75 PFC
GB1	300x305 DEEP CONCRETE GROUND BEAM
GB3	300x750 DEEP CONCRETE GROUND BEAM
GB4	400x305 DEEP CONCRETE GROUND BEAM

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**Z2 SECTION**  
S1.2

**BUILDING CONSENT**  
  
**GRANTED**  
**30/03/2022**  
  
**HUTT CITY COUNCIL**



B	BUILDING CONSENT	11/03/2022
A	BUILDING CONSENT	06/12/2021
P1	PRELIMINARY	01/12/2021
No.	Revision/Issue	Date

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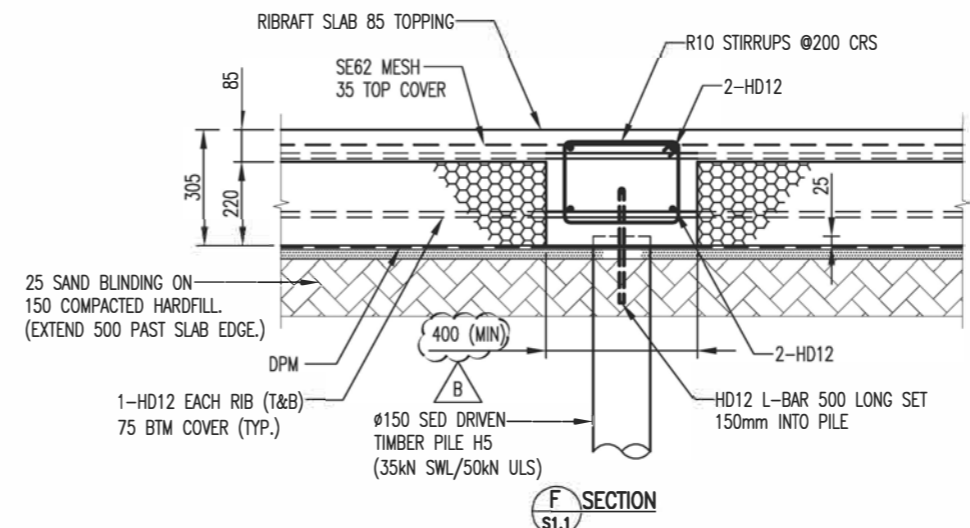
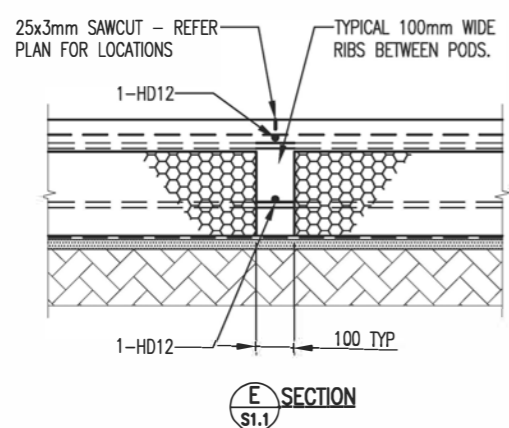
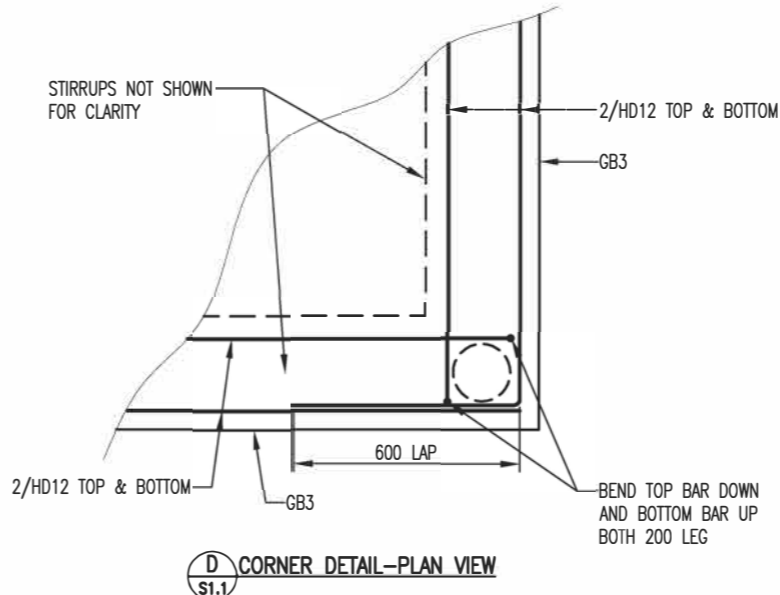
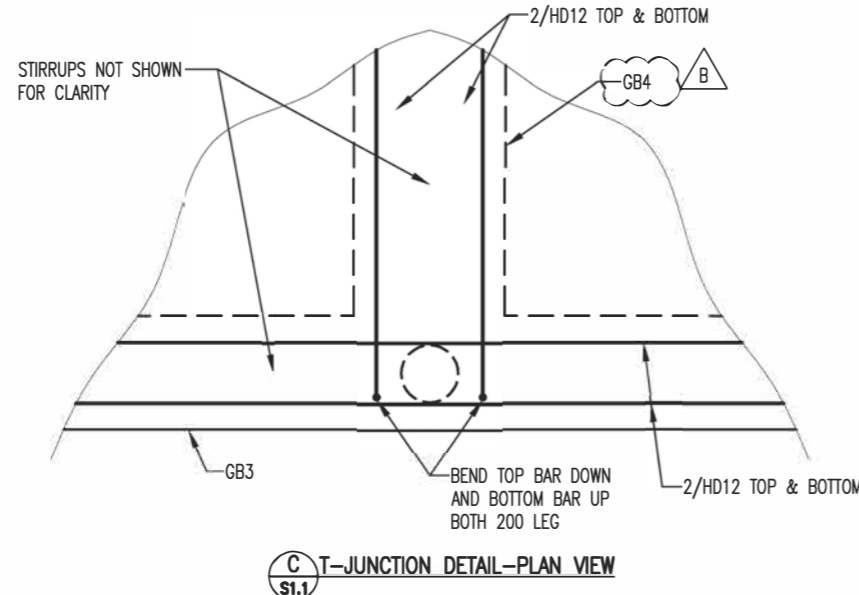
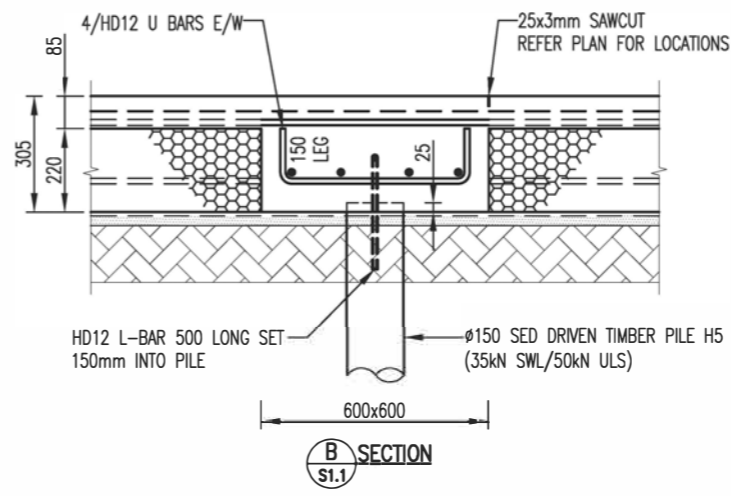
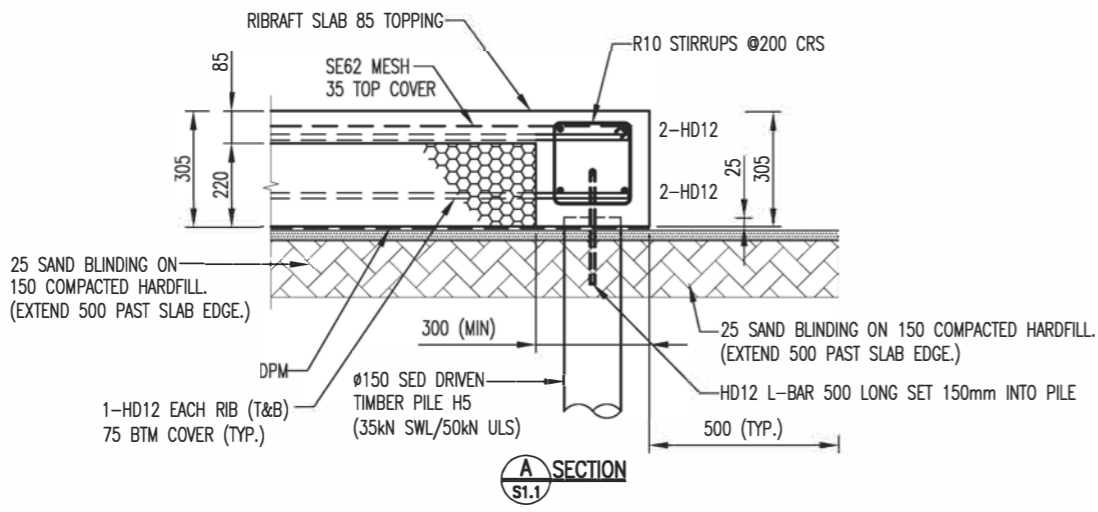
Designed	VM
Drawn	MC
Checked	VM
Approved	DL

Client

Project

Drawing Title	
SECTION Z2	
Job No.	Sheet
21104	S2.2
Date	01/12/2021
Scale	1:100
Issue	B A3





**BUILDING CONSENT**

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**30/03/2022**

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No.	Revision/Issue	Date
B	BUILDING CONSENT	11/03/2022
A	BUILDING CONSENT	06/12/2021
P1	PRELIMINARY	01/12/2021

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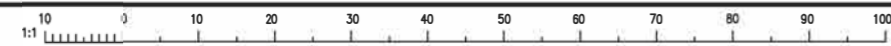
Designed VM  
Drawn MC  
Checked VM  
Approved DL

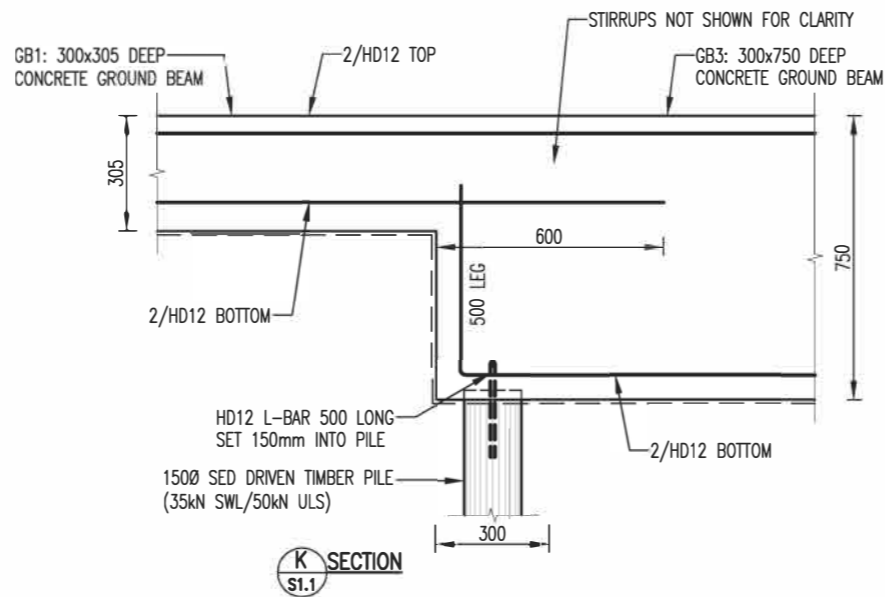
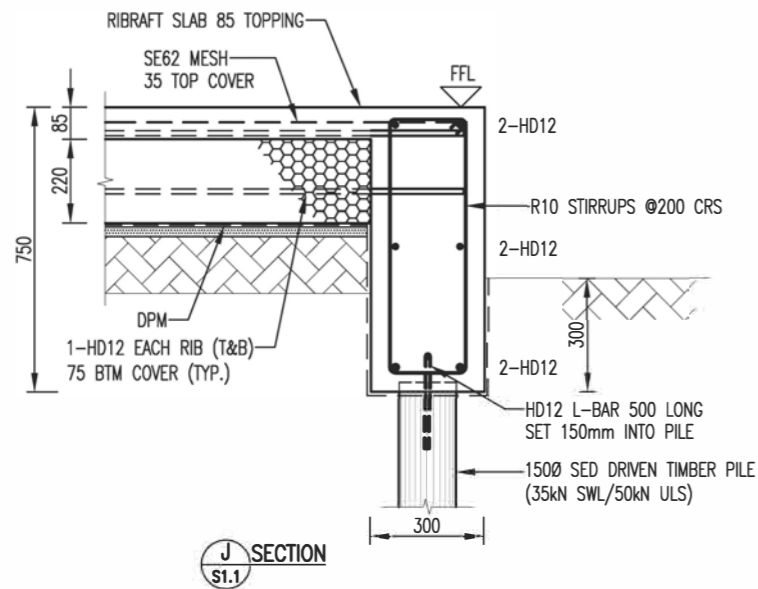
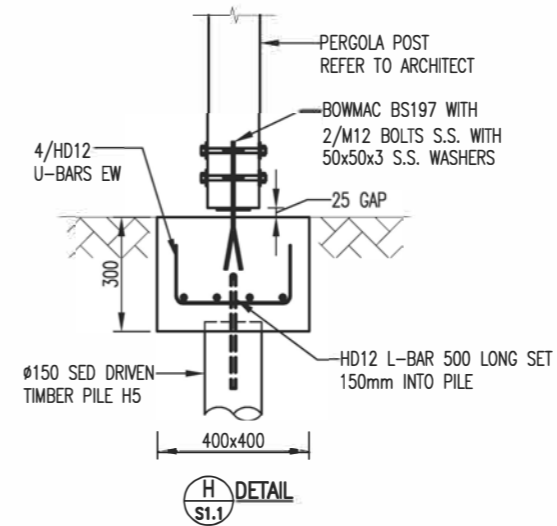
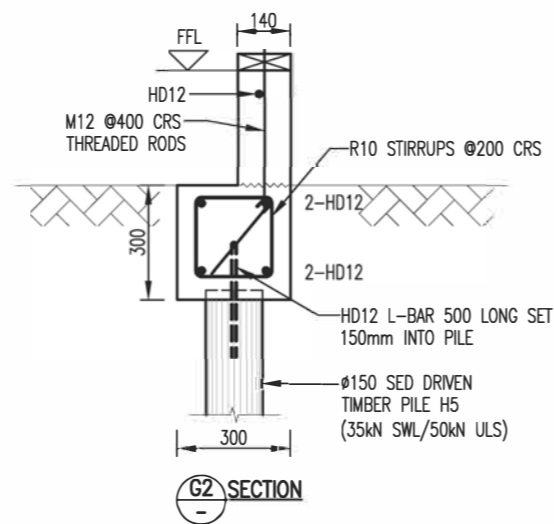
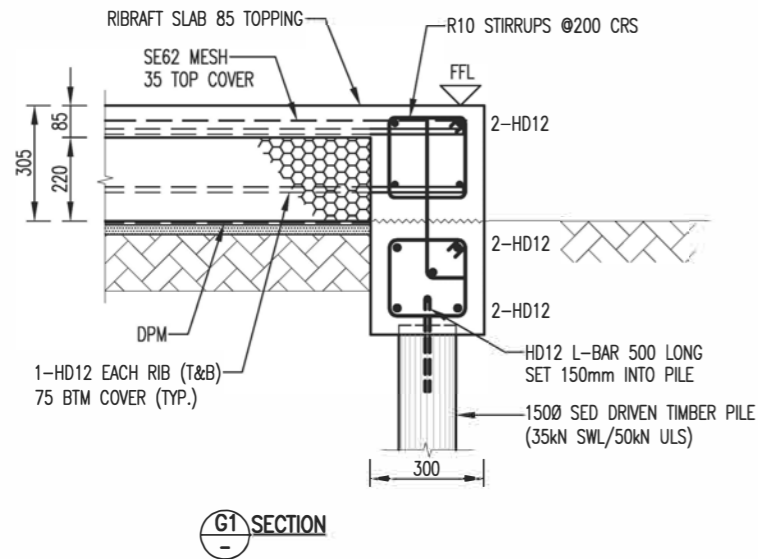
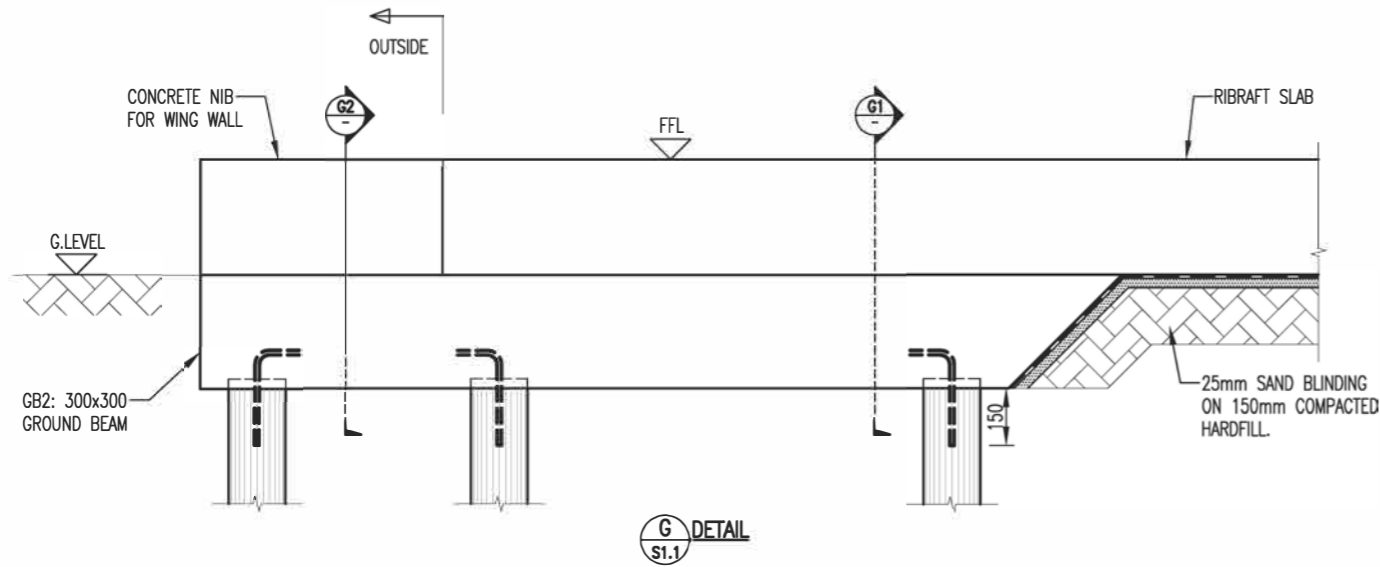
Client

Project  
NEW DWELLINGS

Drawing Title  
FOUNDATION DETAILS -1

Job No. 21104	Sheet S3.1
Date 01/12/2021	Issue B
Scale 1:20	A3





**BUILDING CONSENT**

**GRANTED**

**30/03/2022**

**HUTT CITY COUNCIL**

HUTT CITY  
TEKONGA

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No.	Revision/Issue	Date
A	BUILDING CONSENT	06/12/2021
P1	PRELIMINARY	01/12/2021



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Designed	VM
Drawn	MC
Checked	VM
Approved	DL

Client

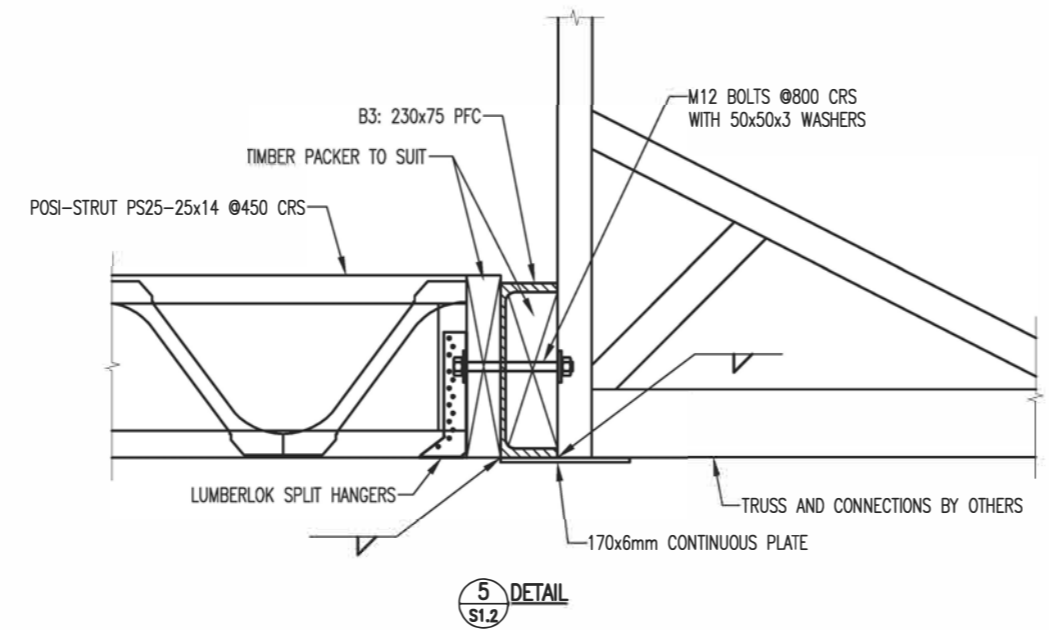
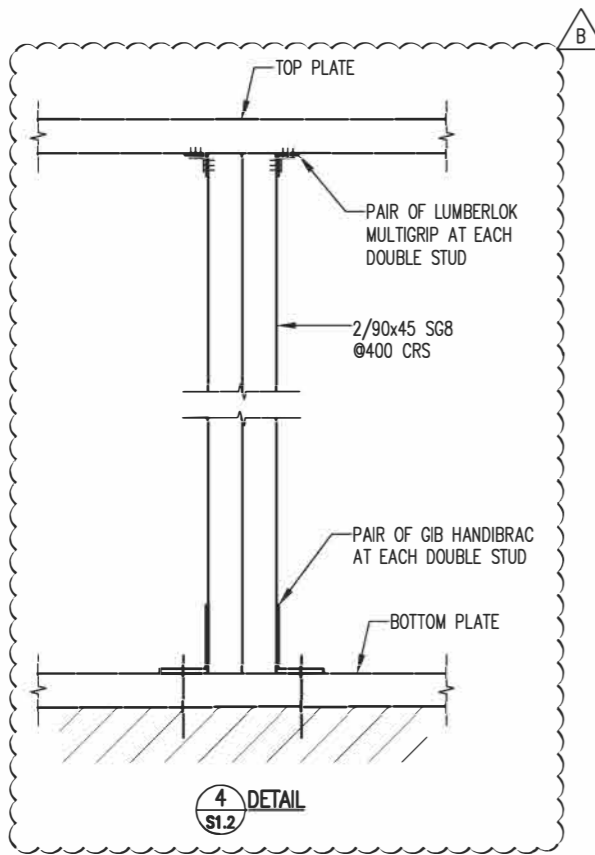
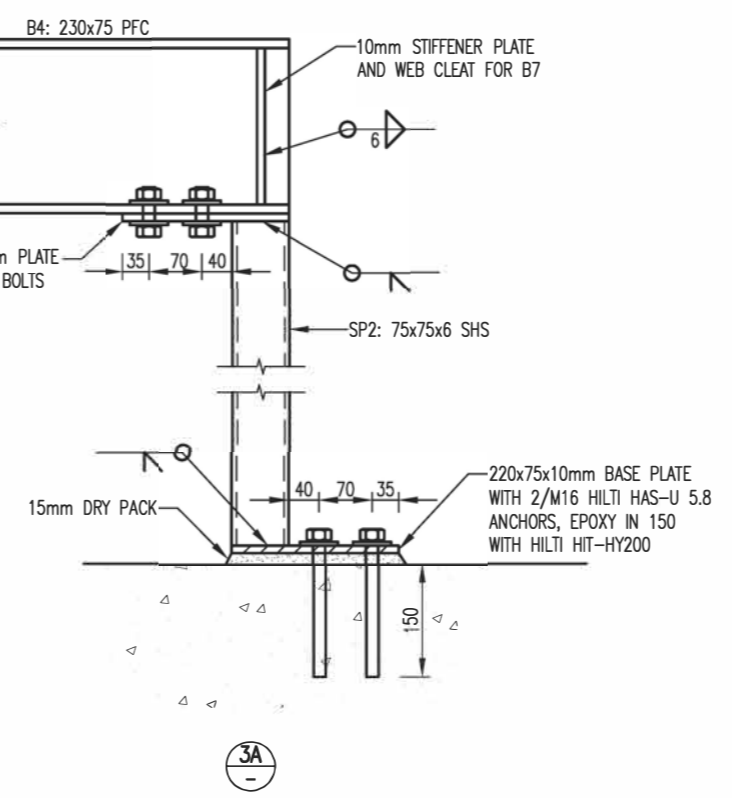
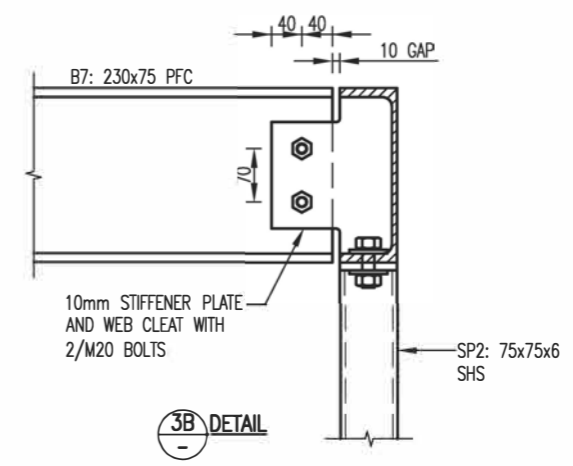
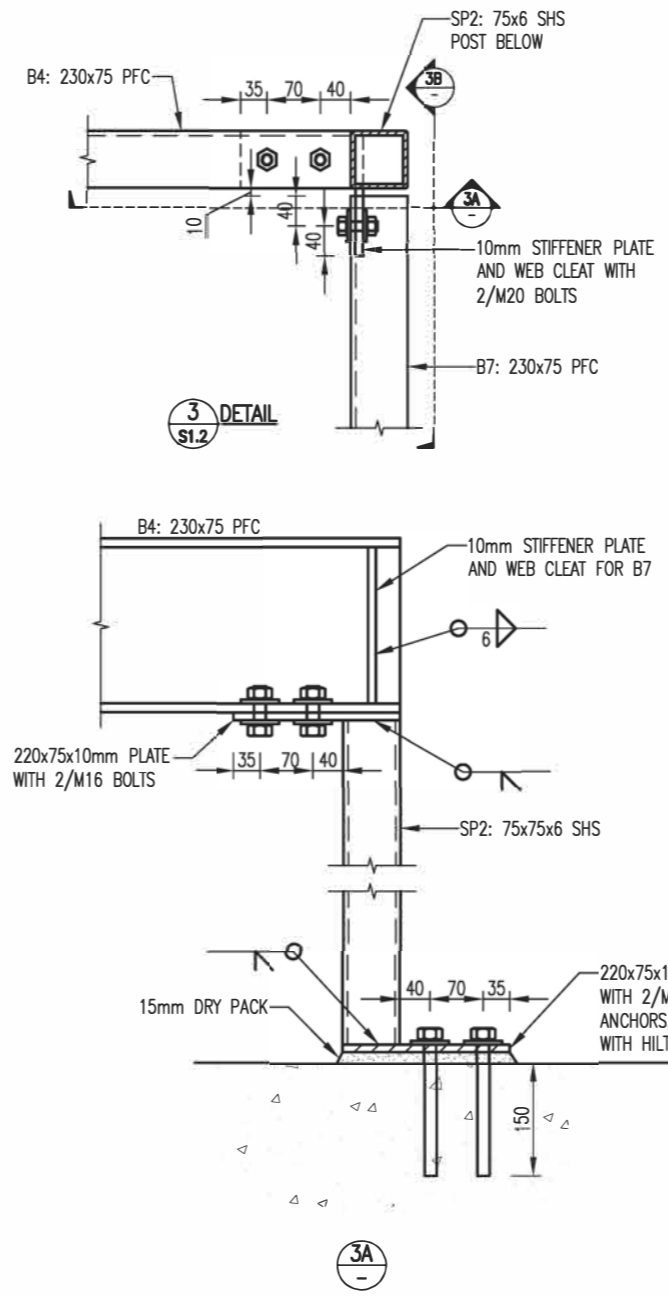
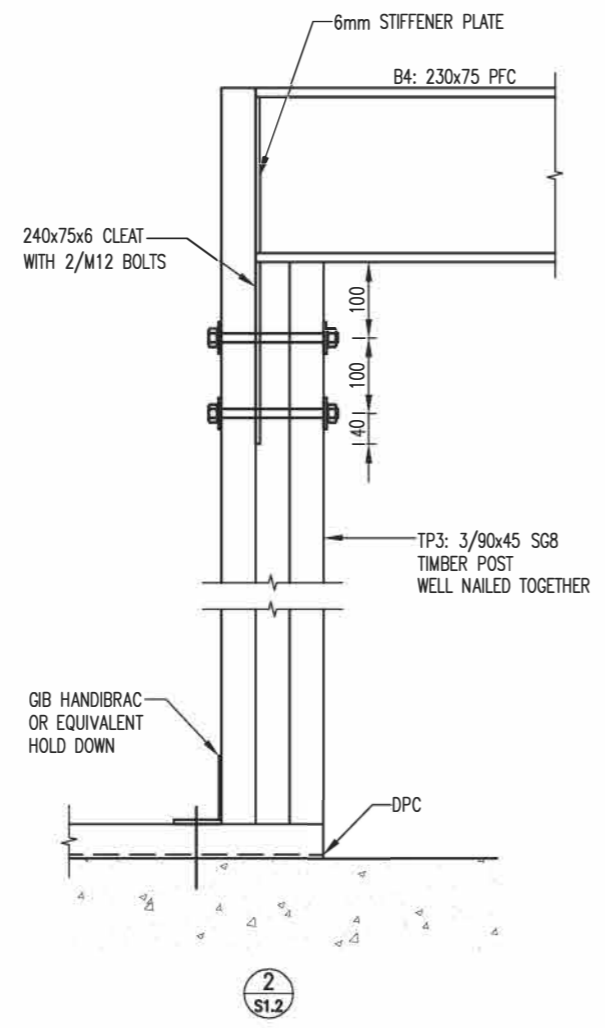
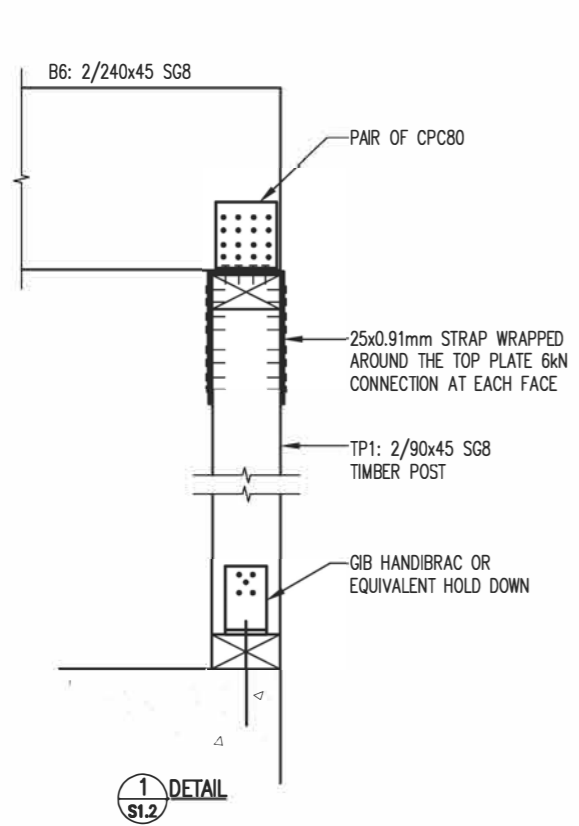
Project

Drawing Title  
FOUNDATION DETAILS -2

Job No.	Sheet
21104	S3.2
Date	01/12/2021
Scale	Issue A
1:20	A3







**BUILDING CONSENT**

**GRANTED**

**30/03/2022**

**HUTT CITY COUNCIL**

HUTT CITY  
TE HĀHĀ KĀHĀHĀ

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B	BUILDING CONSENT	11/03/2022
A	BUILDING CONSENT	06/12/2021
P1	PRELIMINARY	01/12/2021
No.	Revision/Issue	Date

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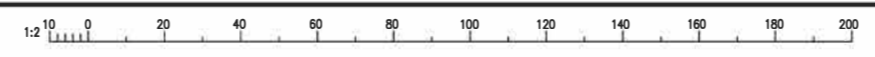
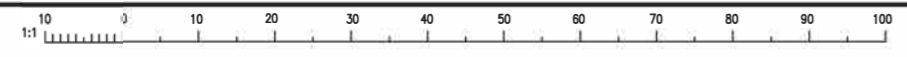
Designed	VM
Drawn	MC
Checked	VM
Approved	DL

Client

Project  
NEW DWELLINGS  
137 WHITES LINE EAST,  
UNITS 2 & 3,  
WAIWHETU, LOWER HUTT

Drawing Title  
DETAILS -1

Job No.	21104	Sheet	S4.1
Date	01/12/2021		
Scale	1:10	Issue	B A3





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B	BUILDING CONSENT	11/03/2022
A	BUILDING CONSENT	06/12/2021
P1	PRELIMINARY	01/12/2021
No.	Revision/Issue	Date



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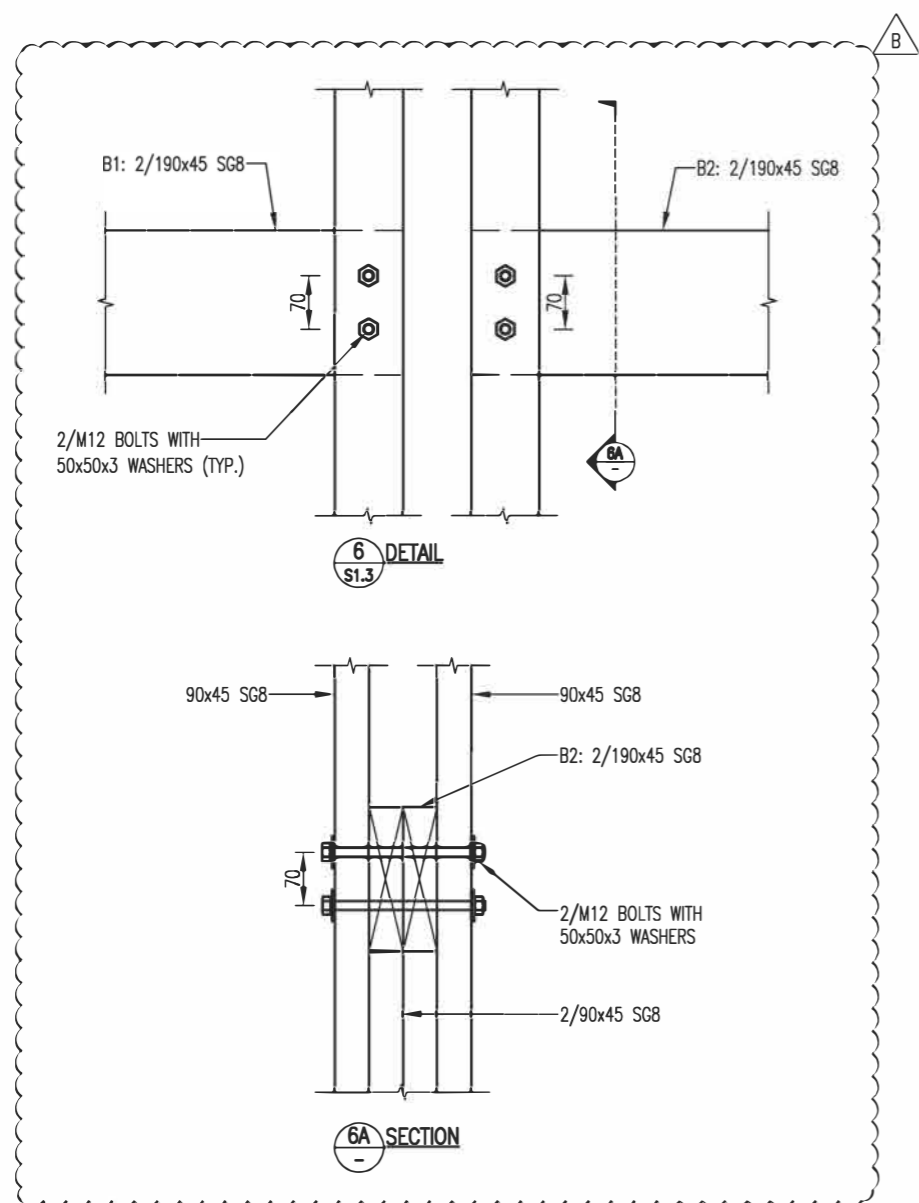
Designed	VM
Drawn	MC
Checked	VM
Approved	DL

Client

Project

Drawing Title  
 DETAILS -2

Job No.	21104	Sheet	S4.2
Date	01/12/2021		
Scale	1:10	Issue	B A3



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**30/03/2022**

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