GENERAL

G1 - These drawing shall be read in conjunction with all other working drawings and specifications and with such other written instructions as maybe issued during the course of the construction. All discrepancies and variations shall be referred to the engineer before proceeding with the work.

G2 - All materials and workmanship shall be in accordance with the relevant and current standards Australia code and with the BY-LAWS and ordinances of the relevant building authorities except where varied by the project specification.

G3 - All dimensions shown shall be verified by the builder on site. Engineer's drawings shall not be scaled for dimensions. Engineer's drawings issued in any electronic format must not be used for dimensional setout.Refer to the architect's drawings for all dimensional setout information.

G4 - During construction, the structure shall be maintained in a stable condition and no part shall be overstressed. Temporary bracing shall be provided by the builder to keep the works and excavations stable at all times.

G5 - Unless noted, otherwise all levels are in meters and all dimensions are in millimeters.

FOOTING:

F1 - Footings shall be located centrally under wall and columns unless noted otherwise.

F2 - Do not backfill retaining walls (other than cantilever walls) until floor construction at top and bottom is completed. Ensure free draining backfill and drainage is in place.

F3 - Footings to be constructed and backfilled as soon as possible following excavation to avoid softening or drying out by exposure.

F4- Footing have been designed for allowable bearing pressure of Foundtaion materials shall be approved for this pressure before placing concrete in footings. NoteL Firm uniform natural bearing must be obtained.

SLAB MAINTENANCE

SM1 - During the life of a building, damage in various forms is likely to occur to the concrete slab. Good housekeeping will keep problems to a minimum and extend the life of the floor and road slabs. The following likely areas of damage may or may not occur during the life of the building.

SM2 - Damage to joints such as fretting or breaking away at floor should be repaired using epoxy concrete repair products and the jointing material made good.

SM3 - Cracking of slabs which may occur over the life of the slab should be repaired by epoxy grouting as soon as possible to prevent local fretting and breaking away. The definition of a crack which may become detrimental is one which is greater than 0.3mm.

SM4 - Local damage due to mechanical processes or pallets (with protruding nails) should be repaired as soon as possible with an epoxy concrete repair product.

SM5 - Local movement of slabs caused by external sources such as egress of water should be referred to the structural engineer to determine the best method of repair.

SM6 - Joint sealants will generally break down and need replacement after 12 months when most of the slab shrinkage has taken place. Resealing needs to be carried out to ensure ongoing support to slab edges.

SM7 - If solid wheeled materials handling equipment is to be used. Joint damage can be expected and a regular maintenance program will be required.

WELD TESTING

W1 - Testing of category SP welds shall be completed using ultrasonic testing methods by an approved testing authority in accordance with AS1554, Part 1-1985.

W2 - Minimum testing required shall be at least 50% of full strength butt welds.

W3 - Should any weld be found defective in accordance with AS1554:1 1985 further tests shall be carried out on the same steel work to compliance as shown.

W4 - All defective welds shall be ground out.

TIMBER

T1 - All material and workmanship shall be in accordance with AS1720. Timber sized where not indicated shall be in accordance with AS1684 or NSW timber framing manual.

T2 - Timber sizes quoted are nominal, actual sizes shall not be more than 5% under quoted sizes.

T3 - Timber particle-board flooring shall be 19mm thick premium grade to AS1859 and shall be laid strictly in accordance with the manufacturers details and specifications.

T4 - All roof trusses and rafters shall be fixed to wall plates using 2 'Teco Triple Grip' connectors at each joint.

CONCRETE

C1 - All workmanship and materials shall be in accordance with AS3600 except as varies by the contract documents.

C2 - Readymix Concrete supply shall comply with AS1379

C3 - Concrete components and quality shall be as follows:

Building Elements Footing & Slab	Footing & Slab on Ground	Suspended Cone & Cols F'c
F'c MPa	25	32
Max.agg.size mm	20	20
Slump mm	60-100	80-100
Cement type	A	A
Admixture	NIL	NIL
Control Testing Type	PLANT	PLANT

All concrete strength must be verified by plant testing unless otherwise specified.

C4 - Clear concrete cover to reinforcement including ties and stirrups shall be as follows in the table below unless otherwise:minimum cover to reinforcement to comply with exposure and /or 90min.fire-resistance

Structural Element	Concrete Strength (MPa)	Condition A1 in sheltered location or protected by approved W.P.M	Condition A2 exposed to non-aggressive soil & non-industrial & cost line>50km	Condition B1 1 to 50kms from coastline, exposed to environment & industrial	Condition B2 under 1km from coastline & exposed environment
Pads, Footing, Pile & Pile cape	20	---	65	75	---
	25	---	50	65	---
	32	---	40	50	60
	40	---	30	40	50
Strip footing and pedestals	20	---	50	---	---
	25	---	40	60	---
	32	---	30	40	65
	40	---	20	30	45
Columns	20	---	---	---	---
	25	25	30	---	---
	32	25	25	40	---
	40	25	25	30	45
Beams	20	---	---	---	---
	25	30	30	---	---
	32	30	25	40	---
	40	30	25	30	45
Slabs	20	30	50	---	---
	25	30	30	---	---
	32	25	25	40	---
	40	25	25	30	45
Walls	20	35	50	---	---
	25	35	35	---	---
	32	35	35	40	---
	40	35	35	35	45

Where concrete is casting against the ground in the nonresidential construction, the cover given in the table above shall be increased by 20mm to the surface in contact with the ground or 10mm if that surface is protected by a damp-proof membrane. Chairs for reinforcement shall be obtained by the use of stainless steel or plastic bar chairs for bottom reinforcement. All chairs to be spaced at maximum of 750mm centers

C5 - Construction joints shall be properly formed and used only where shown or specifically approved by the engineer.

C6 - No holes, chases or embedment of pipes, other than those shown on the structural drawings shall be made in concrete members without the prior approval of the engineer.

C7 - Where the lap length is not specified, it shall be sufficient to develop the full strength of the reinforcement and not less than shown in the table below:

Combination of minimum values		Minimum tensile development length of reinforcement splices in mm for standard compaction and formwork to AS3600&AS3610						
Concrete Strength	Cover to nearest bar or fitment	Reinforcement Bar Sizes						
		N12	N16	N20	N24	N28	N32	N36
20MPa 25MPa 32MPa	50mm 30mm 25mm	375	475	700	950	1250	1550	1875
25MPa 32MPa 40MPa	60mm 40mm 30mm	300	400	550	750	1000	1225	1500
32MPa 40MPa 50MPa	65mm 45mm 35mm	300	400	500	600	800	1000	1200
40MPa 50MPa	70mm 50mm	300	400	500	600	700	800	950

C8 - All reinforcement shall be to AS1302 symbols:
F: wire reinforcing fabric R: Structural grade round bar
N: Deformed bars W: Plain & deformed bar
Designation code of reinforcement bars as in example: 17N20@350
17: no. of bars in groups 350: Spacing in mm ctc.
N20: nominal bar size in mm

C9 - Horizontal formwork shall be stripped when approved by the engineer.

C10 - Splices in reinforcement shall be made only in the position shown or as otherwise approved by the engineer.

C11 - All concrete shall be placed and 'cured' in accordance with AS3600. Where curing compound is used it must be applied:
(a) Onto slab within 2 hours of placing concrete
(b) Onto walls and columns immediately after stripping the formwork

C12 - Slabs and beams shall bear only on the beams, walls, etc., shown on the drawings; all other building elements shall be kept 15mm clear from soffits of structure. All reinforcement shall be to AS1302 symbols: E: wire reinforcing fabric.

C13 - Removal of formwork and formwork supports from under the slabs and beams not supporting structures above and not carrying superimposed construction loads greater than 1.5kPa shall be done to the following guidelines:

Formed Surface	Classification of the supporting member	Hot condition t>21°C	Average condition 12°C<t<21°C	cold condition t>5°C
Beams	Forms supports for eff span	5 days	7 days	12 days
	<3m	10 days	21 days	28 days
	3-5m	14 days	21 days	28 days
	>5m	14 days	28 days	28 days
Slabs	Forms supports for eff span	4 days	6 days	8 days
	<3m	7 days	14 days	21 days
	3-5m	10 days	21 days	28 days
	>5m	14 days	28 days	28 days
Walls	Forms	5 days	7 days	9 days

C14 - Reinforcement is shown diagrammatically: it is not necessarily shown in true projection

C15 - Slab reinforcement shall extend at least 65mm onto masonry support walls unless notedotherwise

C16 - Where TRANSVERSE BARS are not shown provide N12@400 splice where necessary and lap with main bars: 400mm

C17 - Columns, piers and pedestals shall be placed 48 hours minimum prior to concrete placing in the slabs and beams above.

C18 - Curing of all concrete surfaces shall commence immediately after surfaces finished as specified.

C19 - Concrete sizes do not include thickness of applied finishes

C20 - Depths of beams are given first and include slab thickness

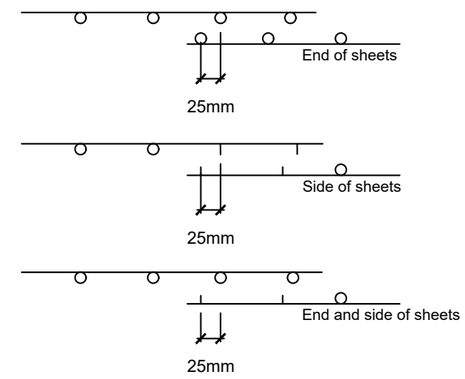
C21 - Refer to architect's details for chamfers, drip grooves, reglets, etc., maintain cover to reinforcement at these details.

C22 - Standard cog lengths unless noted otherwise:

Bar Diameter	Min Cog Length (mm)
N12	180
N16	210
N20	260
N24	310
N28	360
N32	400

NOTE: Increase bar laps by 30% where concrete depth below bar is more than 300mm

C23 - Minimum mesh laps:



C27 - The engineer shall be given 24 hours notice for reinforcement inspection and concrete shall not be delivered until engineers approval is obtained

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PROJECT
PROPOSED NEW GRANNY

Client
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Publish Date
21/05/2024

DRAWING TITLE
GENERAL NOTES 1

91 FIFTH AVE
CAMPSIE NSW 2194

NTS

DRAWING NO.
S01

STRUCTURAL STEELWORK

S1 - All workmanship and materials shall be in accordance with AS4100, AS1554 and all other relevant documents & specification.

S2 - Hole punching will not be permitted in the material of base thickness greater than 10mm

S3 - Materials of thickness greater than 12mm must not be sheared unless approved by the engineer.

S4 - All welds shall be 6mm-E48XX-Category 'SP' continuous fillet or full penetration butt welds to AS1553, AS1554 and AS4100 unless noted otherwise.

S5 - All gusset plates shall be 10mm thick unless noted otherwise.

S6 - All bolts shall be M20-4.6 N/S unless noted otherwise.

S7 - All standard bolt holes shall be of diameter 2mm max. greater that of the bolt and of diameter 1mm max greater that of the pin or the high strength bolt.

S8 - All steelwork not encase in concrete shall be painted as follows:
- a- two 75mic. (DFT) coats of Dulux Zincanode 304 paint, or
- b- after completion or erection where site welds are used two additional on site coats, to effected areas, as per 'a'.

No paint shall be applied until the preparation work has been inspected and passed by the engineer unless noted otherwise

Application DFT must be inspected/passed by the engineer unless noted otherwise

Alternatively all steelwork not encase in concrete shall be hot dip galvanized to AS4680@min. coat thickness of 100mic

All paint work shall be applied to manufacturer's written specifications.

S9 - The paintwork specification shall be extended as follows:
one 125 mic. (DFT) coat of Dulus Dureblid STE followed by two 60mic.(DFT) full gloss coats of Dulux Acrathane IF, in selected color. Other paint system may be used with engineer's approval

S10 - Grouting for bases and base plates shall consist of a stiff non-shrink 25MPa epoxy mortar mix hammered into place unless noted otherwise.

S11 - All cold-formed or pressed sections of 2.6mm or thicker sections shall be formed of an approved galvanized materials.

BRICK AND BLOCK MASONRY

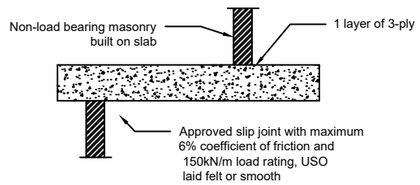
M1 - All workmanship & material shall be in accordance with AS3700-Masonry structures, current addition with amendments and manufacture's specifications where applicable.

M2 - The design strength of masonry shall be:

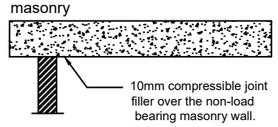
Masonry Elements	Unconf. Strength or f'uc	Mortar Composition		
		Cement	Lime	Sand
Load bearing brickwork	50MPa	1	0.25	3
Ground floor load bearing brickwork	50MPa	1	0.25	3
General brickwork	20MPa	1	1.00	4
Concrete Blockwork	20MPa	1	0	3

M3 - Wall ties shall be minimum grade 316 medium duty. Type A stainless steel wall ties to conform to AS3700 and AS2699-SAA Wall ties for Masonry Construction. Ties shall be spaced at 400*600 max ctrs unless noted otherwise.

M4 - Horizontal joints at concrete slab (unless detailed otherwise)



M4(b) - Non-load bearing masonry



M5 - Damp-proof course material shall be at least 20mm wider than the thickness of the masonry in which it is placed.

M6 - Over-flashing, where applicable, shall be set into mortar joints raked to the depth of at least 15mm into masonry.

M7 - Vertical expansion joints shall be provided at 6m max centers U.N.O

M8 - Weep holes (or 10mm drainage tubes for grouted masonry) shall be provided at vertical joints spaced at 1000max. Start in the external masonry walls; open full height above the damp-proof course of flashing.

M9 - No chases shall be cut into load bearing masonry without the written approval of the structural engineer U.N.O

M10 - All cavities shall be left free from mortar droppings or other material which might bridge or block the cavity.

M11 - Freshly laid masonry shall not be used to support scaffolding, formwork or any other equipment.

M12 - Unless noted otherwise the cores or cavities of reinforced masonry shall be filled with concrete having a characteristic compressive strength at 28 days of 25MPa and complying to AS3600 with min.300kg/cu.m cement.

M13 - When place concrete (or grout) shall have a slump of 150-200mm and it shall be fully compacted.

M14 - Maximum coarse aggregate size in concrete used to fill cores or cavities shall not be greater than 10mm.

M15 - Minimum reinforced cover shall be 30mm to comply to AS3700 Classification R4 and the requirement for a fire-resistance period of 120min or as may be required by local council.

M16 - All reinforced block-work must be provided with the inspection and clean-out holes.

M17 - Flashing must provided at all cavity, along with weep holes or drainage outlets as per Clause 11 of these notes.

M18 - All load bearing brickwork and un-reinforced concrete masonry shall have galvanized woven wire mesh placed into mortar at every second horizontal joints to first 4 joints above the slab and where required by the standard specification and good building practices.

M19 - All reinforcement bars must be galvanized with min.coating mass 600g/sqm horizontal bars placed centrally, so as not to interfere with the placement of vertical reinforcement U.N.O

M20 - The splices should be located just above the footings so that the vertical reinforcement may be tied to starter bars through clean-out holes

M21 - All additional splices and clean-out holes should be placed at the intermediate heights, corresponding to the grouting brick.

M22 - All load bearing brickwork shall have a characteristic unconfined compressive strength of 30MPa as defined by AS3700 mortar type shall be 1:3 (Cement:Sand)

M23 - All wall cavity shall be filled with cement mortar from the top of the footing to below the damp course unless otherwise

M24 - Where brickwork supports concrete slab and beams top course shall be laid frogs down and covered with two layers of method similar.

STANDARD LINTELS FOR BRICKWORK

All lintels for brickwork shall be of the size as listed below U.N.O

SPAN(mm)	Standard Angle	Galinlet	SPAN (mm)	Standard Angle	Galinlet
a. Non-load bearing internal and external wall			b. All load bearing wall		
Upto 600mm	75*10 Flat Plate	85*85*5kg/m FLAT	Upto 600mm	75*10 Flat Plate	85*85*5kg/m FLAT
625-900	75*50*6L	100*100*9.5 kg/m L	625-900	75*75*8L	100*100*9.5 kg/m L
925-1200	75*50*6L	100*100*9.5 kg/m L	925-1200	100*75*8L	150*100*12 kg/m L
1225-1800	75*75*8L	100*100*9.5 kg/m L	1225-1800	125*75*10L	150*100*12 kg/m L
1825-2100	100*75*8L	100*100*9.5 kg/m L	1825-2100	150*90*10L	150*100*12 kg/m L
2125-2400	100*75*10L	150*100*12 kg/m L	2125-2400	150*90*10L	N.A
2425-2700	100*75*10L	150*100*12 kg/m L	2425-2700	150*90*12L	N.A
2725-3000	125*75*10L	N.A	2725-3000	250UB37 or 2-180UB22	N.A

NOTES TO THE TABLE:
1. This table is to be read in conjunction with structural steelwork notes.
2. Galintel is a proprietary lintel by Galinted pty.Ltd.
3.All lintels to have a minimum bearing length of 110mm each end and to be hot dip galvanized to AS4680

SITE PREPARATION

SP1 - Strip off all vegetation, rubbish and topsoil containing organic or root matter from the area of the building.

SP2 - Provide suitable surface and/or subsoil drainage in conjunction with, or subsequently, bulk earthwork as required on site, to minimize ingress of moisture adjacent to , or beneath the building

SP3 - Fill consisting of material compacted to 95% max. STD dry density in layers by repeated rolling with tracked excavator or proprietary compaction plant.

SP4 - Filling is to be free of rubbish, plastic clay or large pieces which would inhabit compaction.

SP5 - Rolled fill depth shall not exceed 0.6m compacted in layers no more than 300mm for sand material or 300mm compacted in layers of not more tha 150mm for other approved material.

SP6 - The fill shall continue past the edge of the slab by at least 1.0m and shall be retained or battered beyond this point by a slope protected from erosion and not steeper than two horizontal to one vertical.

SP7 - Blind with sand and lay vapor-proof membrane.

SP8 - Vapour barrier shall be polyethylene sheeting of 0.2mm thickness, lapping shall be not less than 200mm at joints. penetrations by pipes shall be taped.

SP9 - If fill exceeds 600mm from natural ground level for the slab on ground, provide extra bottom steel mesh or to be referred to engineer.

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PROJECT
PROPOSED NEW GRANNY

Client
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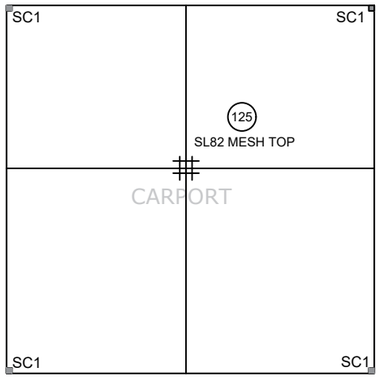
Publish Date
21/05/2024

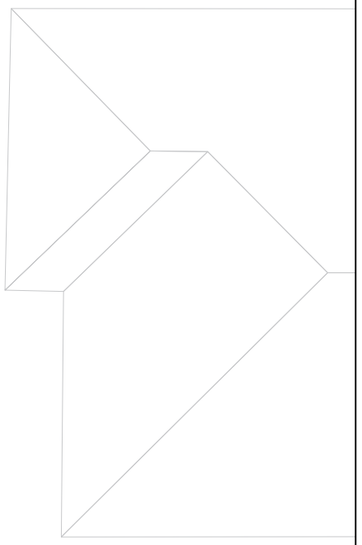
DRAWING TITLE
GENERAL NOTES 2

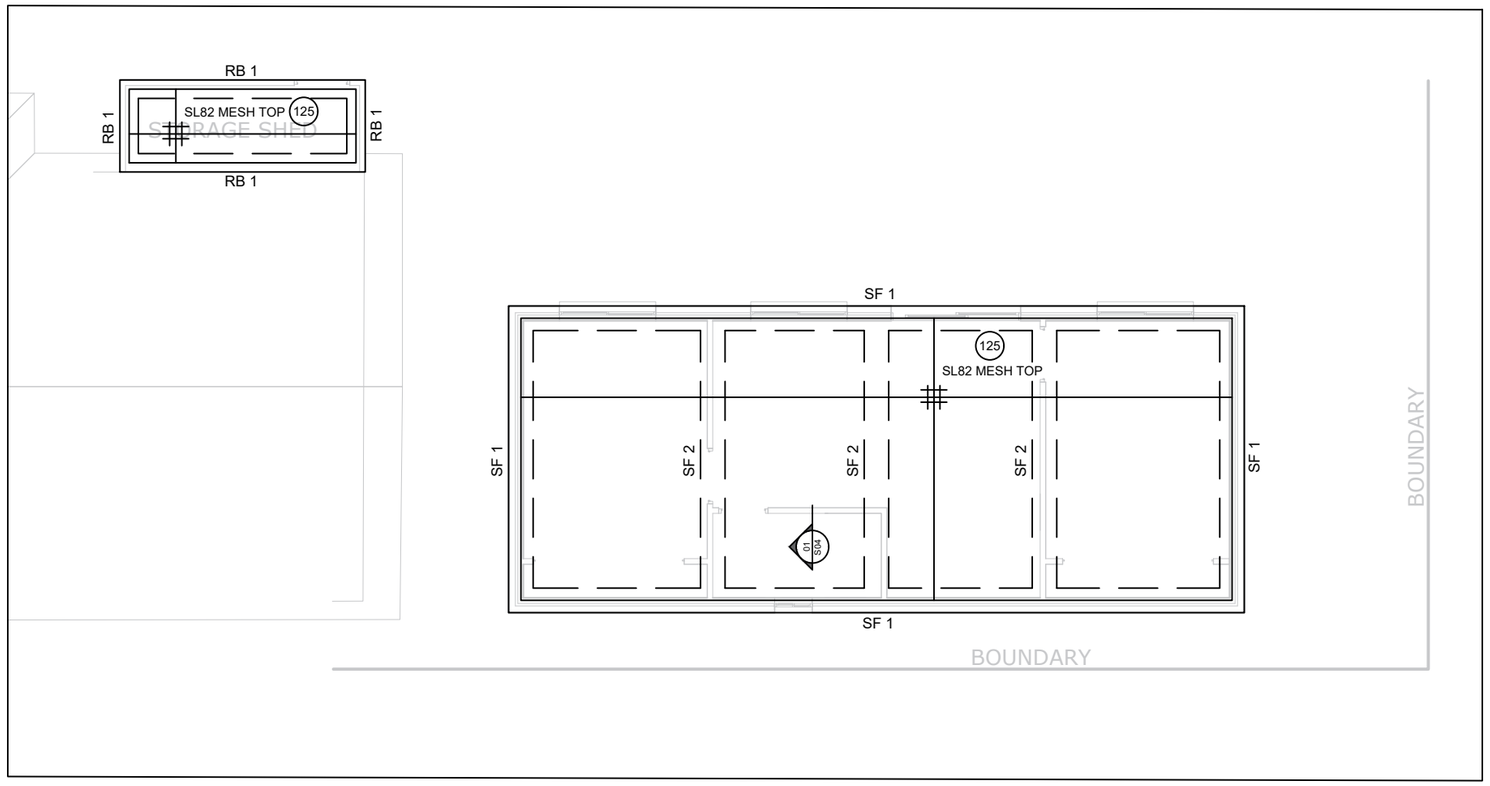
91 FIFTH AVE
CAMPSIE NSW 2194

NTS

DRAWING NO.
S02







STRIP & RAFT FOOTING LAYOUT

SCALE 1:100

125 DENOTES SLAB THICKNESS

- SLAB LEVEL TO BE TAKEN FROM ARCHITECTURAL PLANS.
- SLAB REINFORCEMENT to be SL72 MESH TOP UNLESS DENOTED ON LAYOUT.
- MIN. SLAB COVER TO BE 20mm TOP
- MIN. FOOTING COVER TO BE 40mm.
- CONCRETE STRENGTH (fc) = 32MPa.
- FOOTING TO SET ON SOIL WITH BEARING CAPACITY OF 100kPa MINIMUM.

LEGEND	
RB1	300X500 RAFT FOOTING. REFER TO DETAILS
SF1	400X500 STRIP FOOTING. REFER TO DETAILS
SF2	400X500 STRIP FOOTING. REFER TO DETAILS
SC1	90X90X6mm SHS. REFER TO DETAILS

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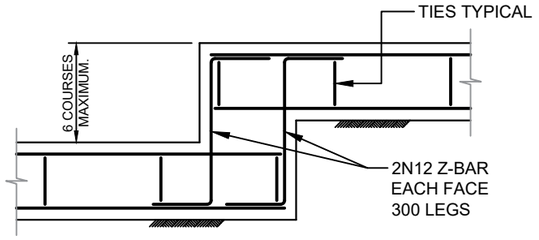
DRAWING TITLE
STRIP & RAFT FOOTING LAYOUT

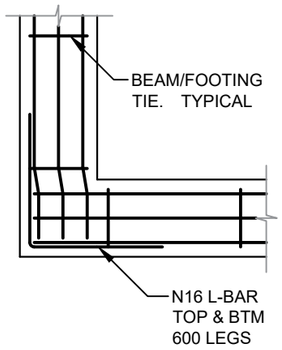
91 FIFTH AVE
CAMPSIE NSW 2194

1:100 A3

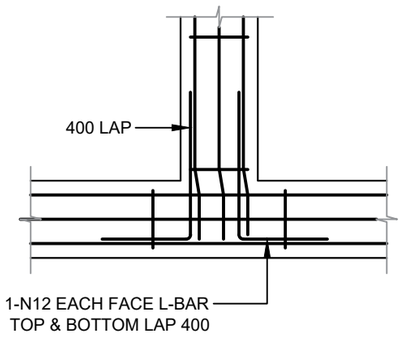
DRAWING NO.
S03



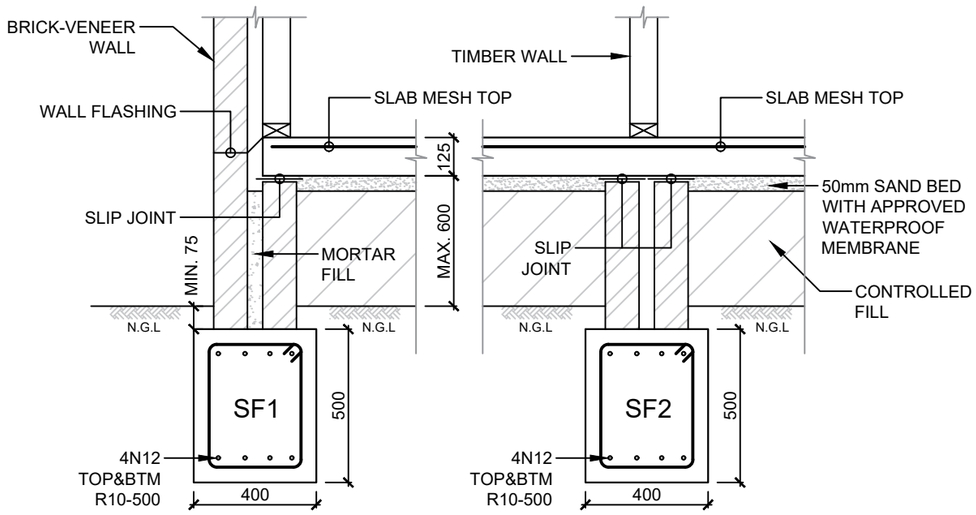
TYPICAL STEP IN THICKENINGS AND FOOTINGS
SCALE 1:20



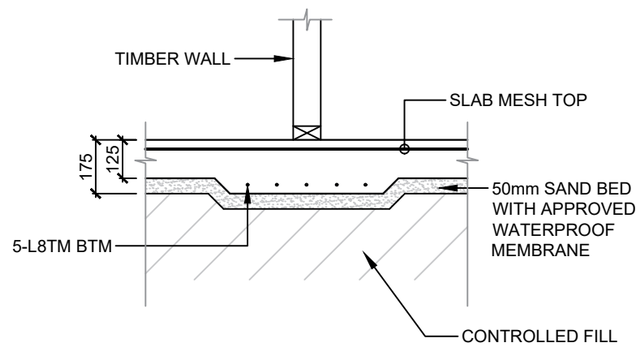
CORNER DETAILS
SCALE 1:20



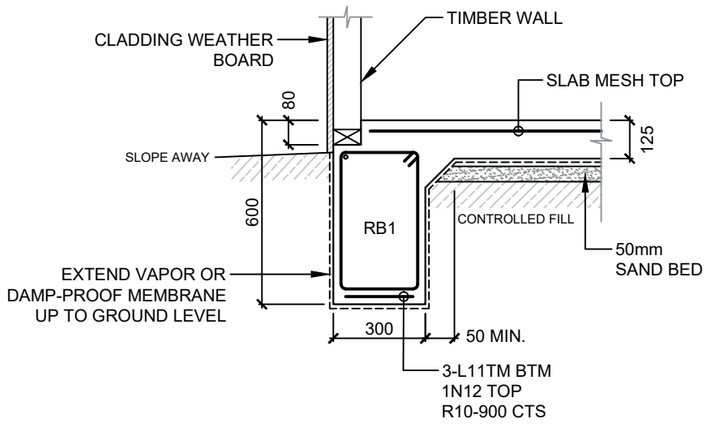
JUNCTION DETAILS
SCALE 1:20



STRIP FOOTING SECTION WITH SLAB
SCALE 1:20



DETAILS SECTION 1
SCALE 1:20



EDGE "RB1" DETAILS
SCALE 1:20

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Client
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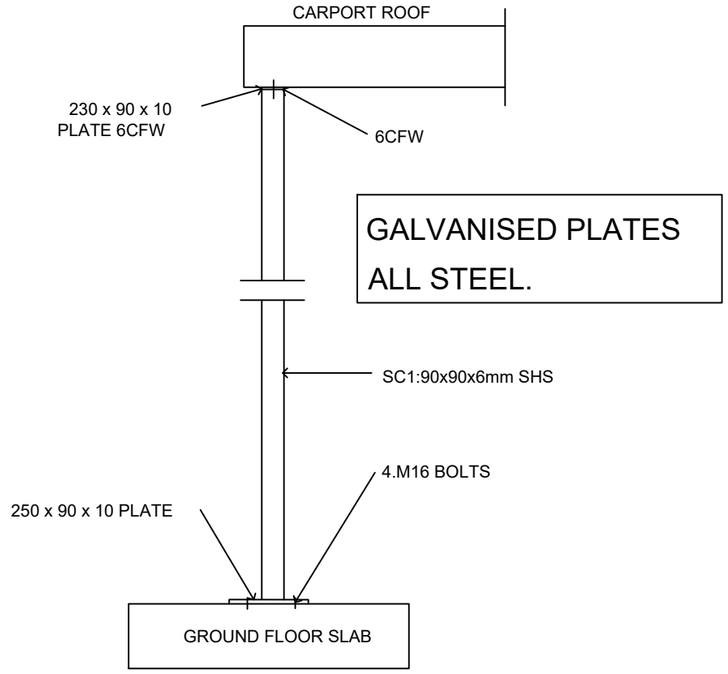
Publish Date
21/05/2024

DRAWING TITLE
STRIP & RAFT FOOTING LAYOUT DETAILS

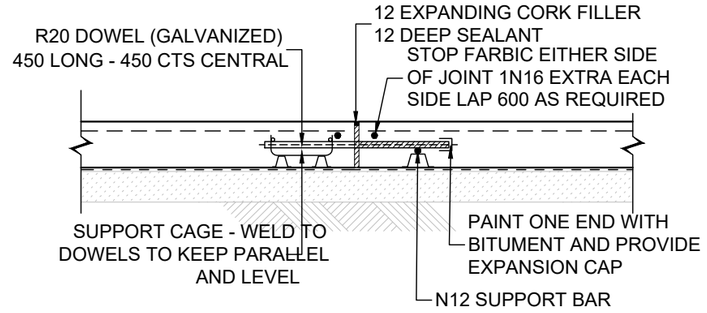
91 FIFTH AVE
CAMPSIE NSW 2194

1:20 A3

DRAWING NO.
S04

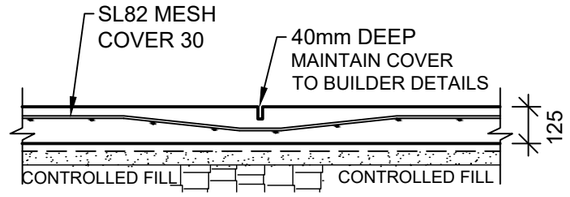


TYPICAL CONNECTION STEEL BEAM TO POST



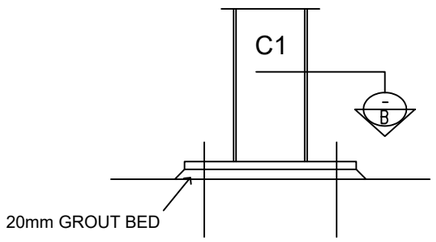
E.J. - EXPANSION JOINT

SCALE 1:20

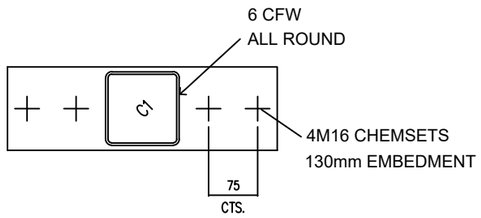


TYPICAL SLAB ON GROUND SECTION

SCALE 1:20



C1 COLUMN BASE PLATE



SECTION B-B

RKINFRA
DESIGN | CONSULTING | DEVELOPMENT

Designed/Drawn
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CANTERBURY BANKSTOWN

Zoning
R2

Lot/DP
2/10850

PROJECT
PROPOSED NEW GRANNY

Client
-

Publish Date
21/05/2024

DRAWING TITLE
STEEL BEAM & SLAB ON GROUND DETAILS

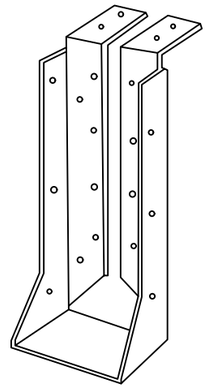
91 FIFTH AVE
CAMPSIE NSW 2194

1:20 A3

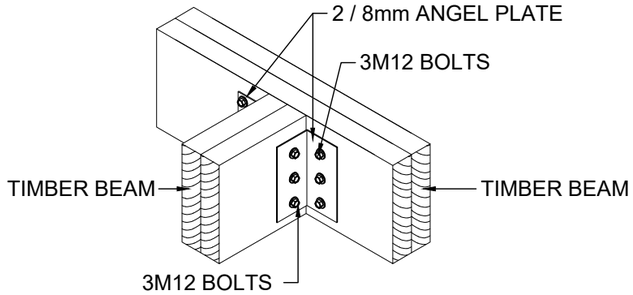
DRAWING NO.
S05

LINTEL SCHEDULE

SPAN	STUD WALL	MIN. END BEARING	CAVITY BRICKWORK	MIN. END BEARING
900	100x50 F7	50mm	90x10 PL	110mm
1200	150x50 F7	50mm	90x90x6 EA	110mm
1500	150x75 F7	50mm	90x90x8 EA	110mm
1800	250x50 F7	50mm	90x90x8 EA	110mm
2100	250x50 F7	50mm	90x90x10 EA	230mm
2400	250x75 F7	50mm	150x90x8 L	230mm
2700	300x75 F7	50mm	150x90x10 L	230mm
3000	150x75 PFC	50mm	200 PFC WITH 10PL	230mm
4000	150x75 PFC	50mm	200 PFC WITH 10PL	230mm

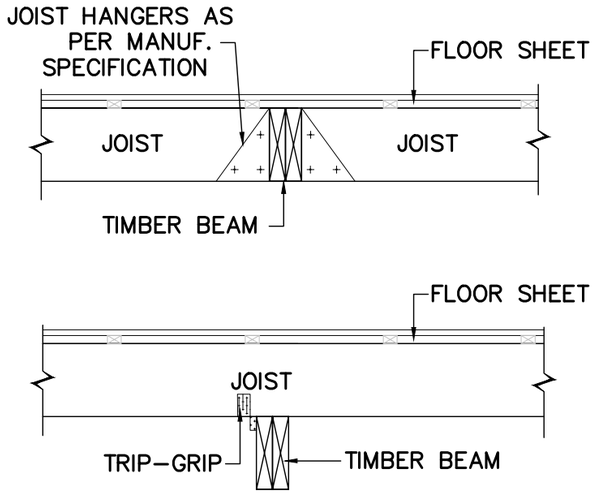


TRIPPLE GRIPS



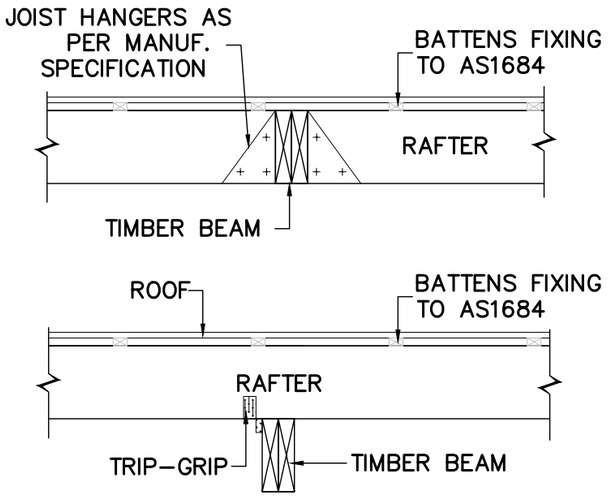
TYPICAL TIMBER BEAM CONNECTION DETAIL

SCALE 1:20



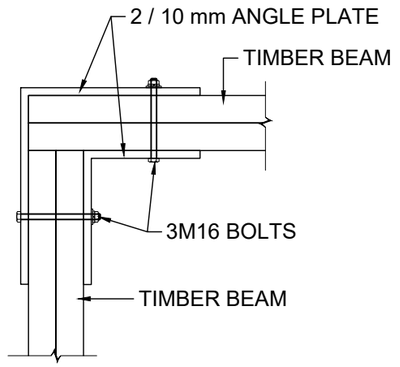
TYPICAL JOIST TO BEAM DETAIL

SCALE 1:20



TYPICAL RAFTER TO BEAM DETAIL

SCALE 1:20



CORNER TIMBER BEAM CONNECTION DETAIL

SCALE 1:20

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PROJECT
PROPOSED NEW GRANNY

Client
-

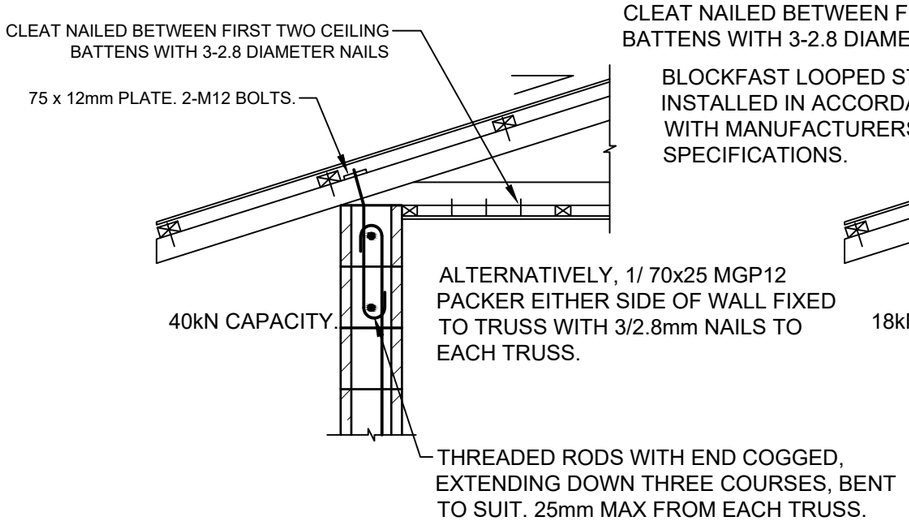
Publish Date
21/05/2024

DRAWING TITLE
TIMBER BRACING DETAILS

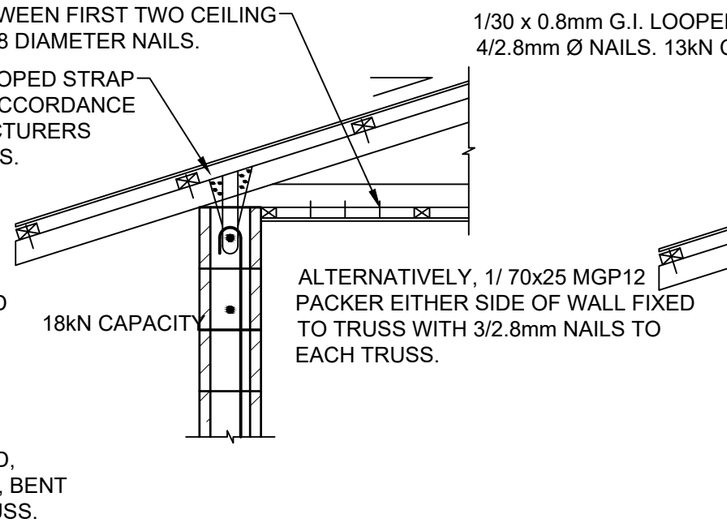
91 FIFTH AVE
CAMPSIE NSW 2194

1:20 A3

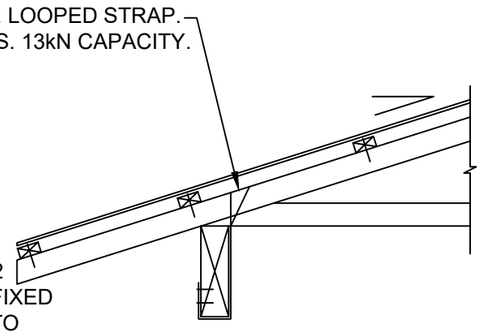
DRAWING NO.
S06



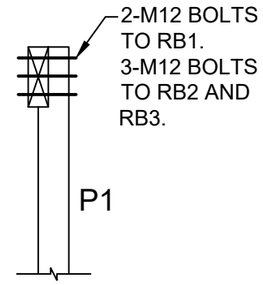
TRUSS TIE DOWN DETAIL
1:20



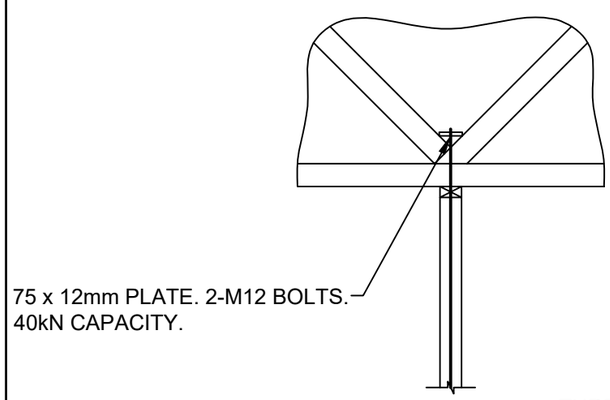
TRUSS TIE DOWN DETAIL
1:20



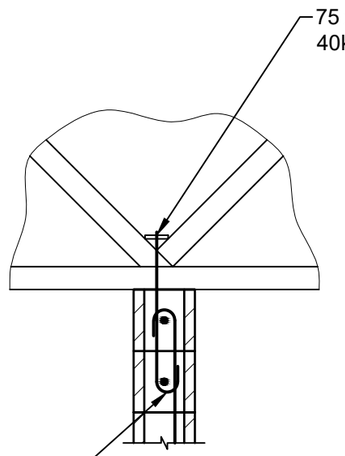
TRUSS TO ROOF BEAM DETAIL
1:20



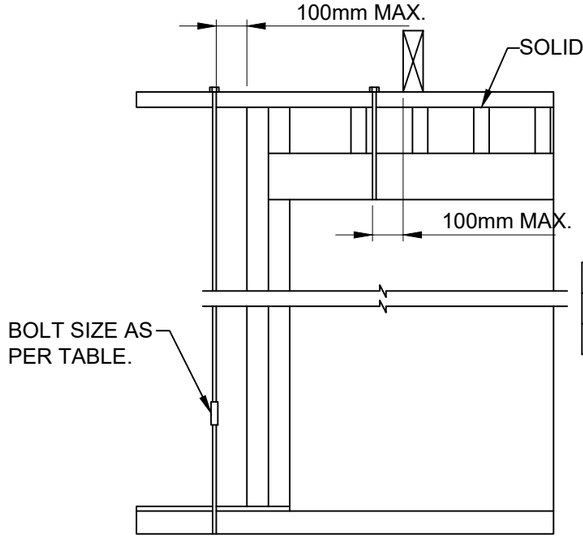
ROOF BEAM TO P1 DETAIL
1:20



TRUSS TO WALL DETAIL
1:20



TRUSS TO WALL DETAIL
1:20



	J2	J3	J4	JD4	JD5	JD6
M12 BOLT	27	27	26	20	16	12
M16 BOLT	50	50	46	35	28	21

NOTE:
THE TOP PLATE SHALL BE FIXED TO THE LINTEL WITHIN 100mm OF EACH RAFTER/TRUSS.

LINTEL TIE DOWN DETAIL
NTS

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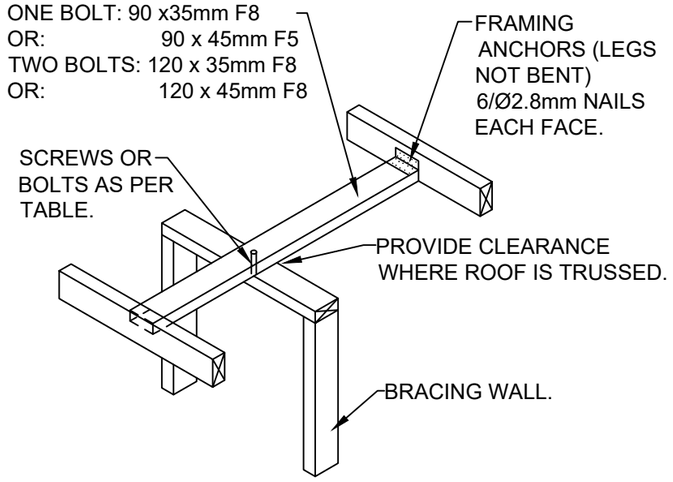
DRAWING TITLE
TIMBER BRACING DETAILS

91 FIFTH AVE
CAMPSIE NSW 2194

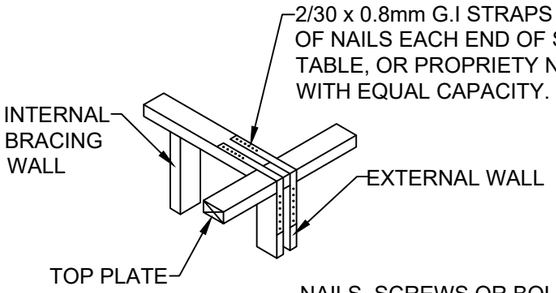
NTS

DRAWING NO.
S07

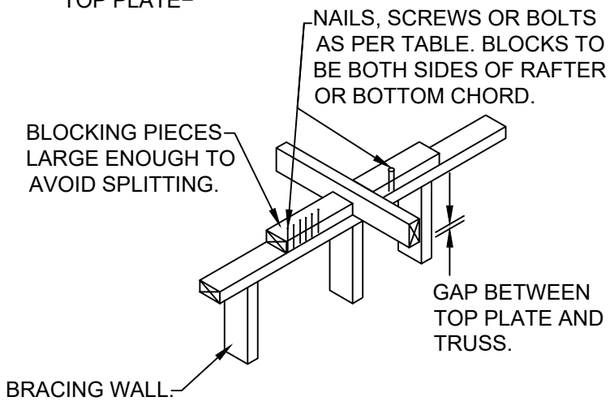
TRIMMER:
ONE BOLT: 90 x35mm F8
OR: 90 x 45mm F5
TWO BOLTS: 120 x 35mm F8
OR: 120 x 45mm F8



	J2	J3	J4	JD4	JD5	JD6
SCREWS						
1/No.14 TYPE17	4.8	3.5	2.5	3.5	2.5	1.8
2/No.14 TYPE 17	9.7	6.9	4.9	6.9	4.9	3.6
3/No.14 TYPE 17	13	9.3	6.6	9.8	7.4	5.4
BOLTS						
M10	6.4	4.1	2.6	4.3	3.0	2
M12	7.6	4.9	3.1	5.1	3.6	2.5
2/M10	12	8.0	5.1	8.4	5.9	4.0
2/M12	13	9.3	6.1	9.8	7.0	4.9

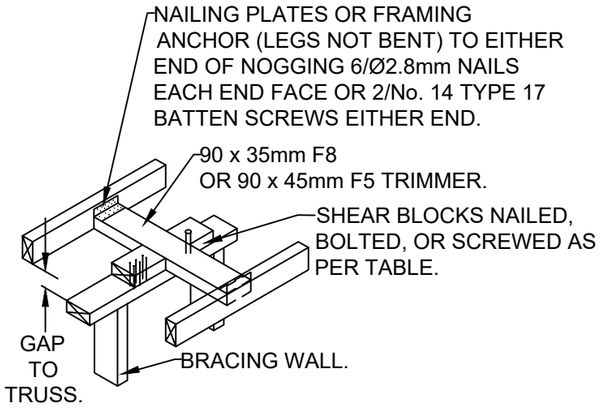


		J2	J3	J4	JD5	JD6	
STRAPS NAILS							
1	4/2.8	4.3	3.1	2.2	3.3	3.0	2.1
	6/2.8	6.5	4.6	3.3	4.9	4.0	3.1
2	4/2.8	8.7	6.2	4.4	6.6	5.4	4.1
	6/2.8	13	9.3	6.6	9.8	8.1	6.1

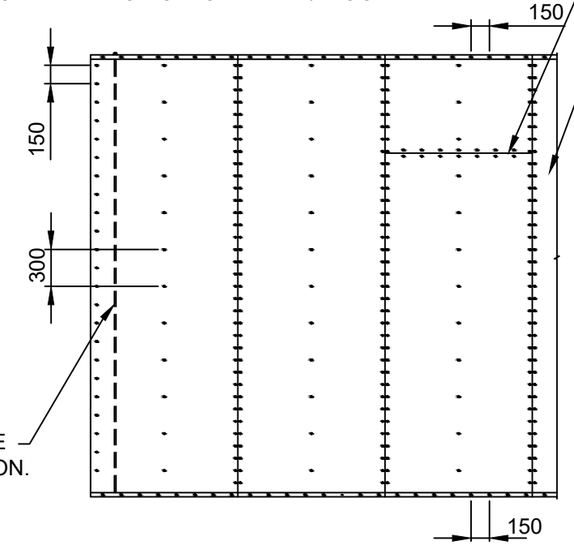


	J2	J3	J4	JD4	JD5	JD6
NAILS						
4/3.05	5.0	3.6	2.5	3.6	3.0	2.2
6/3.05	6.6	4.7	3.4	5.0	4.2	3.1
4/3.33	5.6	4.0	2.8	4.0	3.3	2.5
6/3.33	7.4	5.3	3.7	5.5	4.6	3.5
BOLTS						
M10	6.4	4.1	2.6	4.3	3.0	2.0
M12	7.6	4.9	3.1	5.1	3.6	2.5
2/M10	13	8.0	5.1	8.4	5.9	4.0
SCREWS						
2/No. 14 TYPE 17	9.7	6.9	4.9	6.9	4.9	3.6
3/No. 14 TYPE 17	15	10	7.4	10	7.4	5.4

PLYWOOD SHALL BE NAILED TO FRAME USING 30 x 2.8Ø GALVANISED FLATHEAD NAILS OR EQUIVALENT.
M12 RODS SHALL BE USED AT EACH END OF SHEATHED SECTION TOP PLATE TO BOTTOM PLATE/FLOOR FRAME.

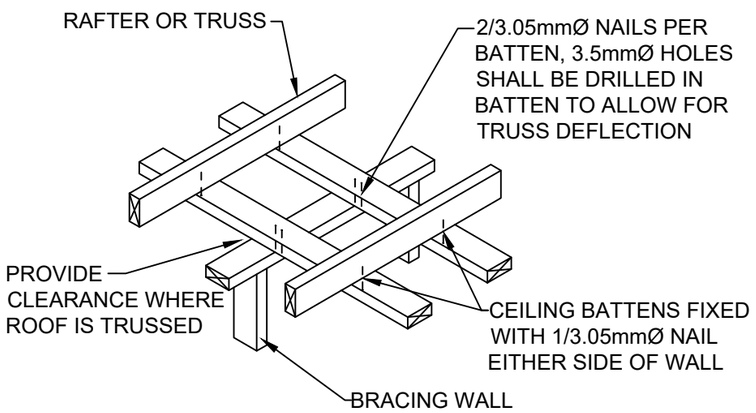


	J2	J3	J4	JD4	JD5	JD6
NAILS						
4/3.05	5.0	3.6	2.5	3.6	3.0	2.2
6/3.05	6.6	4.7	3.4	5.0	4.2	3.1
4/3.33	5.6	4.0	2.8	4.0	3.3	2.5
6/3.33	7.4	5.3	3.7	5.5	4.6	3.5
BOLTS						
M10	6.4	4.1	2.6	4.3	3.0	2.0
M12	7.6	4.9	3.1	5.1	3.6	2.5
2/M10	13	8.0	5.1	8.4	5.9	4.0
SCREWS						
2/No. 14 TYPE 17	9.7	6.9	4.9	6.9	4.9	3.6
3/No. 14 TYPE 17	13	9.2	6.6	9.8	7.4	5.4



MINIMUM PLYWOOD THICKNESS (mm)		
STRESS GRADE	STUD SPACING (mm)	
	450	600
F11	6	7
F14	4	7

FIXING OF BOTTOM PLATE TO FLOOR FRAME OR SLAB:
M12 RODS AS SHOWN PLUS A 13 kN CAPACITY CONNECTION AT MAXIMUM 1200mm CENTRES.



J2	J3	J4	JD4	JD5	JD6
2.5	1.8	1.3	1.8	1.5	1.1

SINGLE SIDED PLYWOOD BRACING WALL: 6.4kN/m CAPACITY

NTS

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DRAWING TITLE
TIMBER BRACING DETAILS

91 FIFTH AVE
CAMPSIE NSW 2194

NTS

DRAWING NO.
S08