

**LEGEND**

100

INDICATES 100mm THICK SLAB WITH SL82 MESH TOP ON 0.2mm POLYTHENE MEMBRANE ON 50 TO 100mm COMPACTED METAL DUST ON NATURAL GROUND OR COMPACTED FILL. COMPACT FILL IN 150 MAX. LAYERS TO 98% STANDARD COMPACTION.

'SP' - DENOTES STEEL POST.  
REFER TO FRAMING LAYOUT FOR REQUIREMENTS.

'TP' - DENOTES TIMBER POST.  
REFER TO FRAMING LAYOUT FOR REQUIREMENTS.

**NOTES**

1. ALL FOOTINGS ARE TO BE FOUNDED 200 MIN. INTO NATURAL GROUND AND/OR WHERE FOOTINGS ARE IN FILL EXCAVATE FOR MASS CONCRETE PIERS TO NATURAL GROUND. 450 WIDE x 600 LONG AT 3000 MAX. CENTRES.
2. THESE SLABS AND FOOTINGS HAVE BEEN DESIGNED FOR A MODERATELY REACTIVE SITE, IF OTHER CONDITIONS ARE FOUND, PLEASE NOTIFY ENGINEER PRIOR TO COMMENCEMENT OF WORK.
3. ANY FILL PLACED ON THIS SITE IS TO BE GRANULAR NON-COHESIVE MATERIAL WITH A CBR OF NOT LESS THAN 15. FILL IS TO BE PLACED IN LAYERS OF LOOSE THICKNESS NOT EXCEEDING 200mm AND COMPACTED TO 98% STANDARD COMPACTION TO ASI289.
4. ALL FOOTINGS ARE TO BE MAINTAINED IN ACCORDANCE WITH THE CSIRO BROCHURE "GUIDE TO HOMEOWNERS ON FOUNDATION MAINTENANCE AND FOOTING PERFORMANCE." PARTICULARLY IN REGARD TO LOCATION OF TREES AND SHRUBS. ALL TREES AND SHRUBS SHOULD BE PLANTED A MINIMUM OF 1.5 TIMES THE PLANTS MATURE HEIGHT FROM ANY FOOTINGS.
5. CONFIRM ALL LEVELS SHOWN WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
6. REFER TO DRAWING GNI FOR GENERAL NOTES.
7. REFER TO DRAWINGS S2 AND S3 FOR SLAB AND FOOTING DETAILS.
8. FOR TERMITE CONTROL UNDER SLABS REFER TO AS. 3660.1.



| ISSUE | DESCRIPTION            | DATE     |
|-------|------------------------|----------|
| A     | FOR CONSTRUCTION       | 01.09.23 |
| P1    | PRELIMINARY FOR REVIEW | 30.08.23 |

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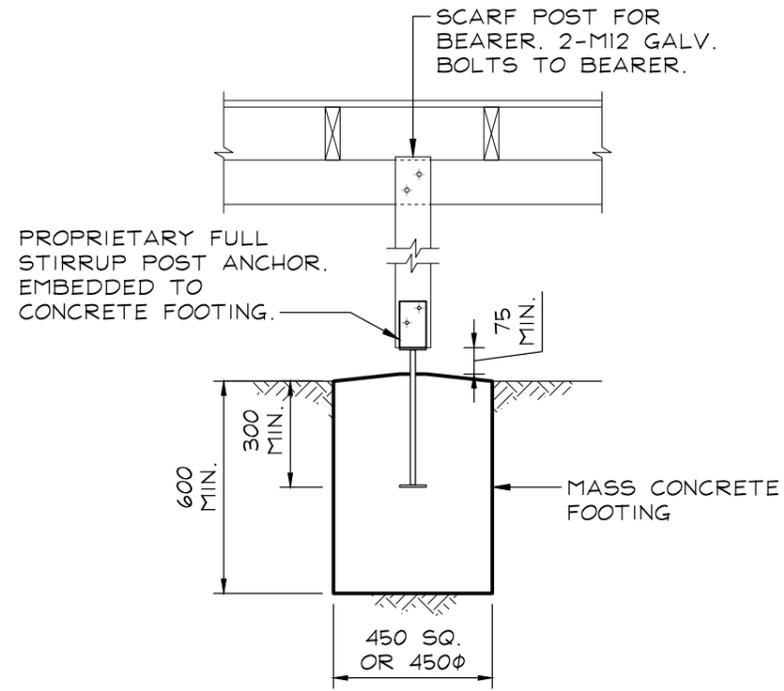
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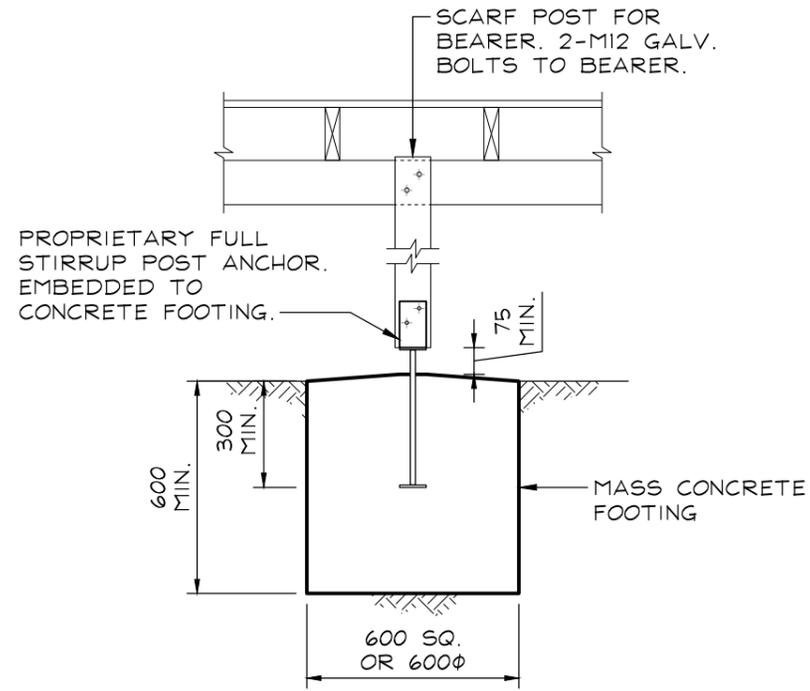
AT  
**111B BALEMO DRIVE, OCEAN SHORES NSW 2483**

FOR  
**JOSH KILGARIFF**

|   |             |                         |                      |
|---|-------------|-------------------------|----------------------|
| DRAWING TITLE<br><b>SLAB AND FOOTING LAYOUT</b> |             |                         |                      |
| DESIGN<br>EC                                    | DRAWN<br>MN | DRAWING SCALE<br>1:100  | SHEET SIZE<br>A3     |
| PROJECT REF No<br><b>200337.2</b>               |             | DRAWING No<br><b>S1</b> | REVISION<br><b>A</b> |



FOOTING DETAIL TYPE P1



FOOTING DETAIL TYPE P2

|           |       |                        |          |
|-----------|-------|------------------------|----------|
| REVISIONS |       |                        |          |
|           | A     | FOR CONSTRUCTION       | 01.09.23 |
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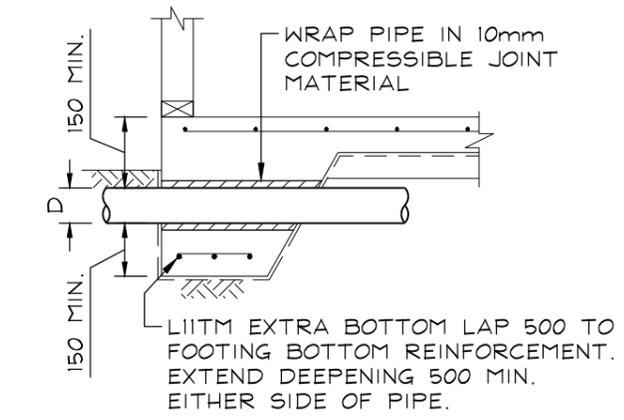
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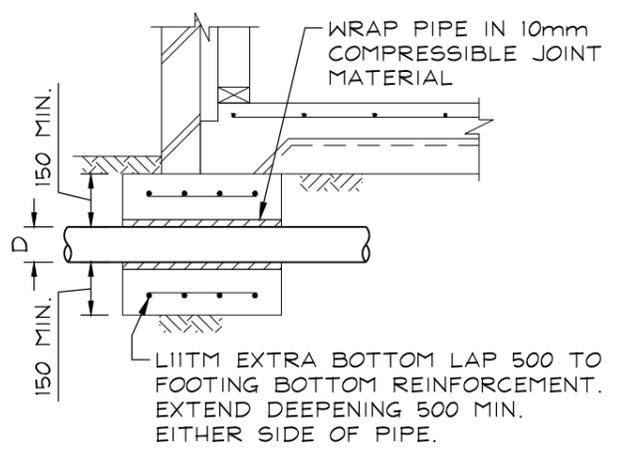
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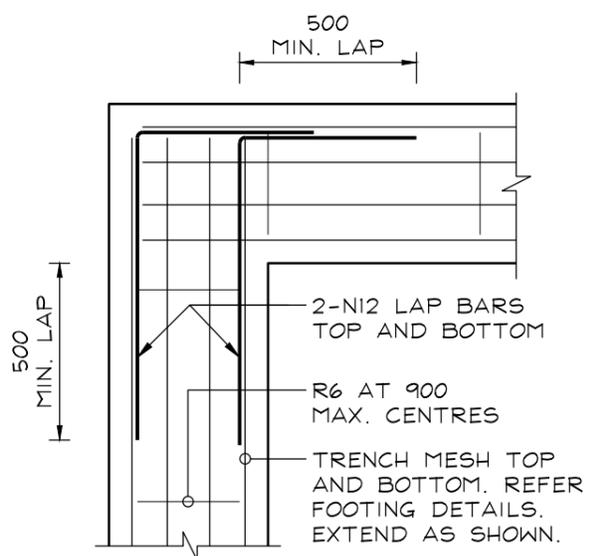
|  |             |                         |                      |
|--|-------------|-------------------------|----------------------|
| DRAWING TITLE<br><b>SLAB AND FOOTING DETAILS</b> |             |                         |                      |
| DESIGN<br>EC                                     | DRAWN<br>MN | DRAWING SCALE<br>1:20   | SHEET SIZE<br>A3     |
| PROJECT REF No<br><b>200337.2</b>                |             | DRAWING No<br><b>S2</b> | REVISION<br><b>A</b> |



EDGE BEAM

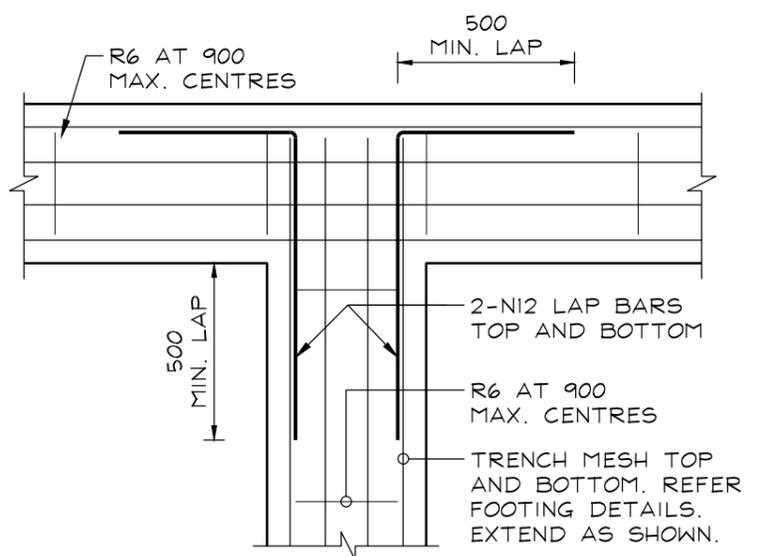


STRIP FOOTING



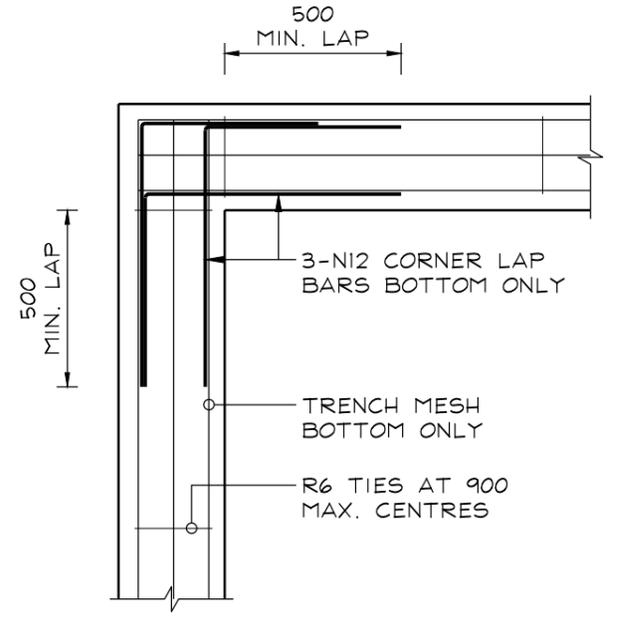
STRIP FOOTING LAP BARS DETAIL

SCALE - 1:20



EDGE BEAM CORNER LAPS DETAIL

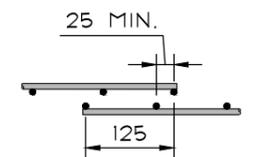
TOP FABRIC OMITTED FOR CLARITY. SCALE - 1:20.



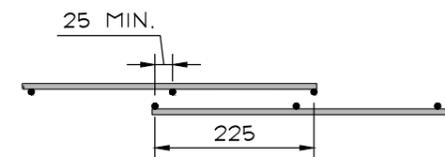
NOTES:-  
 1. PROVIDE TERMITE TREATMENT AS PER AS3660.1 TO FOOTING PENETRATIONS.  
 2. WHERE VERTICAL SECTION OF PIPE PENETRATES FOOTING, DEEPEN FOOTING BY 'D' MIN.

PIPE PENETRATIONS DETAIL

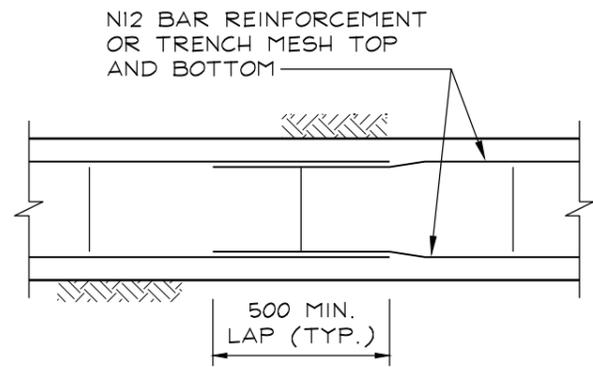
SCALE - 1:20



HARC MESH SIDE LAP DETAIL

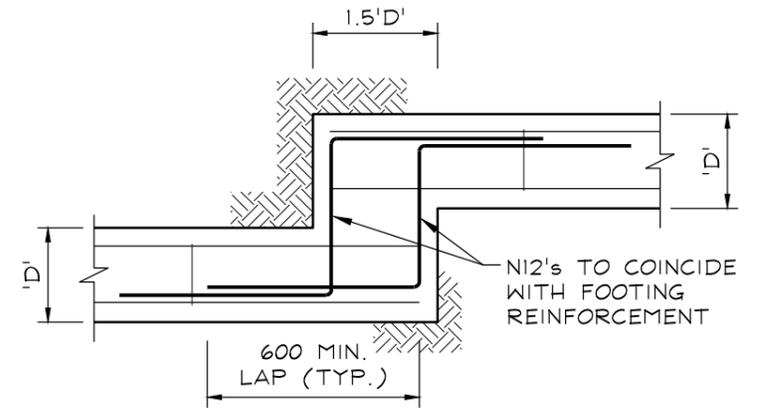


STANDARD FABRIC SIDE LAP DETAIL



FOOTING REINFORCEMENT LAP ELEVATION

SCALE - 1:20. TYPICAL ALL FOOTINGS.



STEP IN STRIP FOOTINGS DETAIL

SCALE - 1:20

FOR L8TM AND LIITM: 500 MIN. LAP. PROVIDE BAR CHAIRS AT 800 MAX. CENTRES.

REINFORCING LAPS DETAIL

SCALE - 1:10

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PROJECT  
**PROPOSED SECONDARY DWELLING**

AT  
**111B BALEMO DRIVE, OCEAN SHORES NSW 2483**

FOR  
**JOSH KILGARIFF**

| DRAWING TITLE                   |       |               |            |
|---------------------------------|-------|---------------|------------|
| <b>SLAB AND FOOTING DETAILS</b> |       |               |            |
| DESIGN                          | DRAWN | DRAWING SCALE | SHEET SIZE |
| EC                              | MN    | 1:20, 1:10    | A3         |
| PROJECT REF No                  |       | DRAWING No    | REVISION   |
| 200337.2                        |       | S3            | A          |

# MEMBER SCHEDULE

## POSTS

TP1..... 90 SQ. HWD F17  
 FULL HEIGHT  
 TP2..... 90 SQ. HWD F17

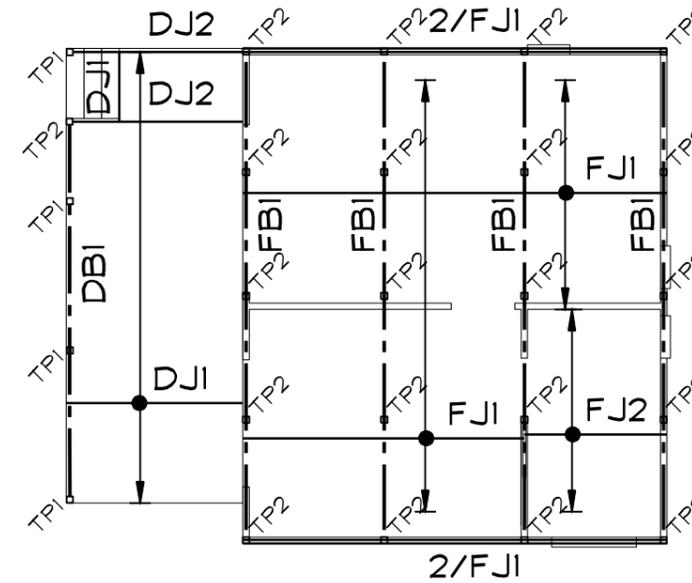
## BEARERS

FBI..... 170 x 63 LVL13  
 DBI..... 170 x 45 HWD F27

## JOISTS

ALL JOIST SPACINGS AT 450 MAX.  
 CENTRES UNLESS NOTED OTHERWISE

FJ1..... 150 x 45 LVL13  
 FJ2..... 130 x 45 LVL13  
 DJ1..... 190 x 35 MGPI0 H3  
 DJ2..... 190 x 45 MGPI0 H3



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FOR  
**JOSH KILGARIFF**

|  |             |                         |                      |
|--|-------------|-------------------------|----------------------|
| DRAWING TITLE<br><b>FRAMING LAYOUT</b> |             |                         |                      |
| DESIGN<br>EC                           | DRAWN<br>MN | DRAWING SCALE<br>1:100  | SHEET SIZE<br>A3     |
| PROJECT REF No<br><b>200337.2</b>      |             | DRAWING No<br><b>S4</b> | REVISION<br><b>A</b> |

# MEMBER SCHEDULE

## POSTS

TPI..... 100 SQ. HWD F17  
FULL HEIGHT

SPI..... 76 x 3.6 GALV. CHS  
THROUGH ROOF BRACKET  
AS PER DETAIL ON  
DRAWING S6

MS..... DENOTES MULTIPLE STUDS

## LINTELS

L1..... 2/140 x 45 HWD F27 OR  
200 x 63 LVL13

L2..... 90 x 45 MGPI0

L3..... 90 x 35 MGPI0

## VERANDAH BEAMS

VBI..... 190 x 35 MGPI0

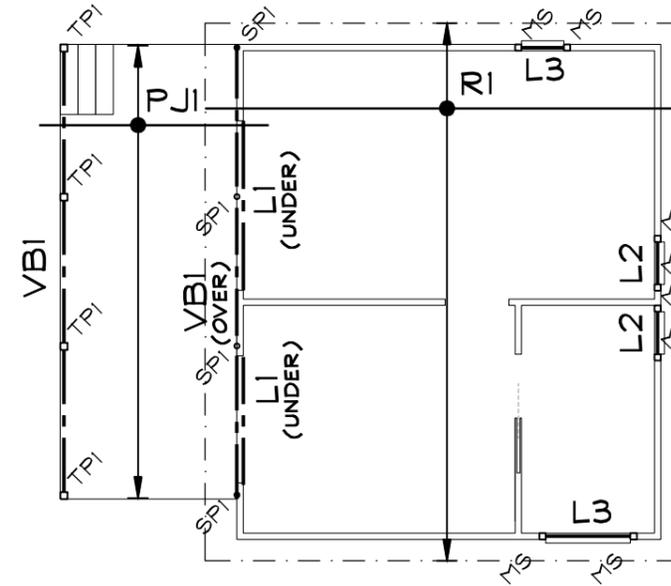
## PERGOLA JOISTS

PJI..... 140 x 35 MGPI0

## RAFTERS

ALL RAFTER SPACINGS AT 600 MAX.  
CENTRES UNLESS NOTED OTHERWISE

RI..... 170 x 63 LVL13



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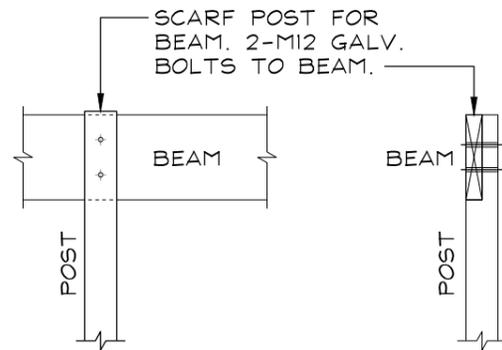
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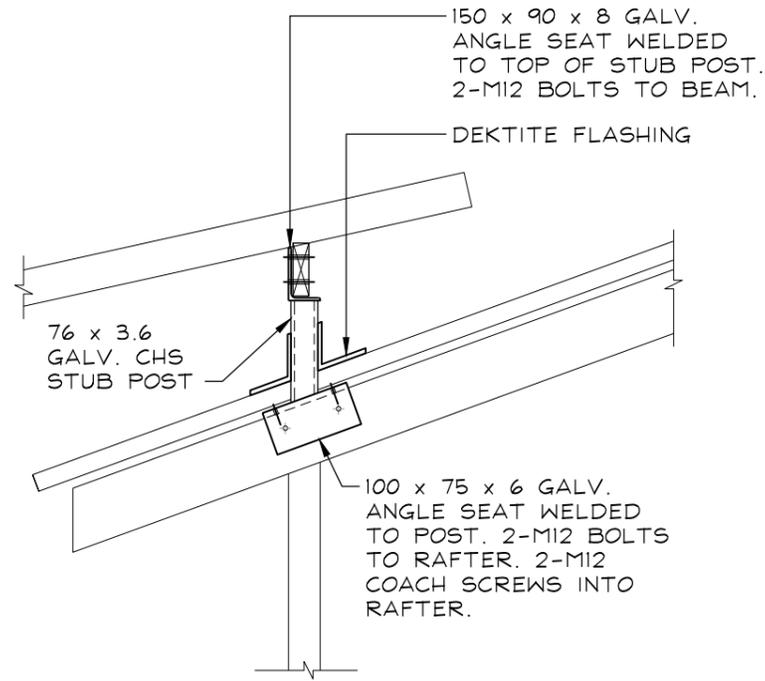
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FOR  
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| DRAWING TITLE         |       |               |            |
|-----------------------|-------|---------------|------------|
| <b>FRAMING LAYOUT</b> |       |               |            |
| DESIGN                | DRAWN | DRAWING SCALE | SHEET SIZE |
| EC                    | MN    | 1:100         | A3         |
| PROJECT REF No        |       | DRAWING No    | REVISION   |
| 200337.2              |       | S5            | A          |



TYPICAL HWD TIMBER POST TO HWD TIMBER BEAM DETAIL



PATIO ROOF STUB POST DETAIL

|           |       |                        |          |
|-----------|-------|------------------------|----------|
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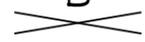
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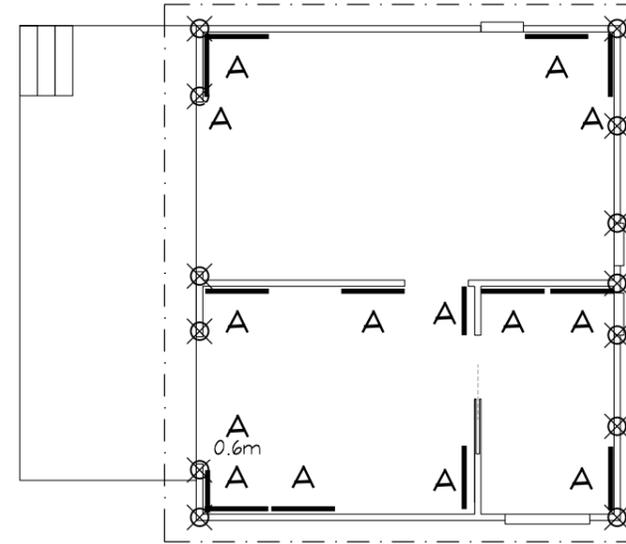
FOR  
**JOSH KILGARIFF**

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| DRAWING TITLE<br><b>FRAMING DETAILS</b> |             |                         |                      |
| DESIGN<br>EC                            | DRAWN<br>MN | DRAWING SCALE<br>1:20   | SHEET SIZE<br>A3     |
| PROJECT REF No<br><b>200337.2</b>       |             | DRAWING No<br><b>S6</b> | REVISION<br><b>A</b> |

**LEGEND**

- A** — INDICATES PLY BRACING TO 6.0kN/m. LENGTH 900mm U.N.O. REFER TO BRACING DETAIL SHEET.
- B**  INDICATES STRAP 'X' BRACE. REFER TO BRACING DETAIL SHEET.
- ⊗** INDICATES M12 HOLD DOWN ROD. REFER TO HOLD DOWN DETAIL SHEET.

|  |       |
|--|-------|
| WIND LOADS ARE IN ACCORDANCE WITH AS4055 AS FOLLOWS: |       |
| <b>REGION B</b>                                      |       |
| DESIGN WIND SPEED                                    | 50m/s |
| TERRAIN CATEGORY                                     | 3.0   |
| TOPOGRAPHIC CLASSIFICATION                           | T0    |
| WIND CLASSIFICATION                                  | N3    |



|           |       |                        |          |
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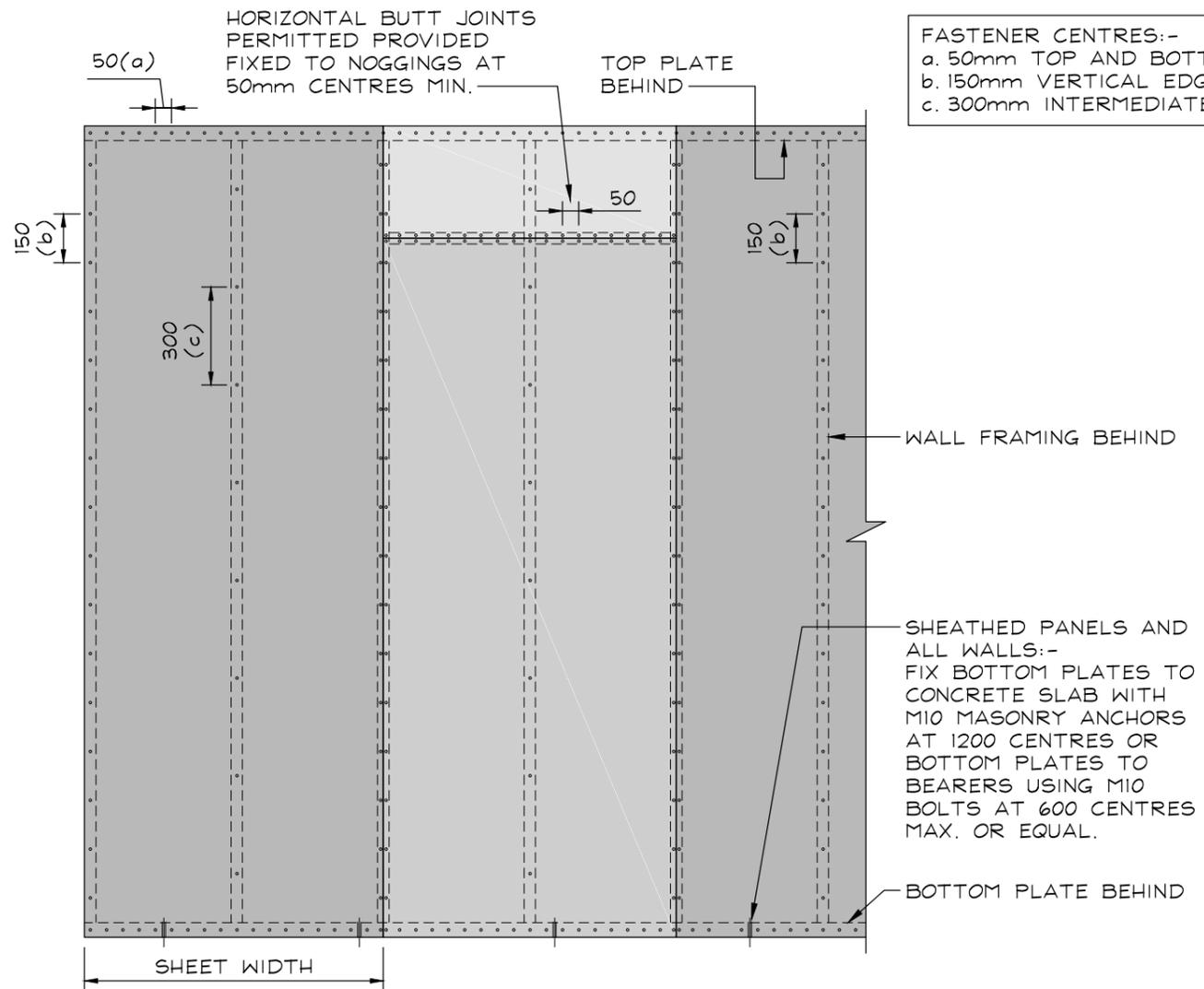
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FOR  
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|  |             |                         |                      |
|--|-------------|-------------------------|----------------------|
| DRAWING TITLE<br><b>BRACING AND HOLD DOWN LAYOUT</b> |             |                         |                      |
| DESIGN<br>EC   | DRAWN<br>MN | DRAWING SCALE<br>1:100  | SHEET SIZE<br>A3     |
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FASTENER CENTRES:-  
 a. 50mm TOP AND BOTTOM PLATE  
 b. 150mm VERTICAL EDGES  
 c. 300mm INTERMEDIATE STUDS

WALL FRAMING BEHIND

SHEATHED PANELS AND ALL WALLS:-  
 FIX BOTTOM PLATES TO CONCRETE SLAB WITH M10 MASONRY ANCHORS AT 1200 CENTRES OR BOTTOM PLATES TO BEARERS USING M10 BOLTS AT 600 CENTRES MAX. OR EQUAL.

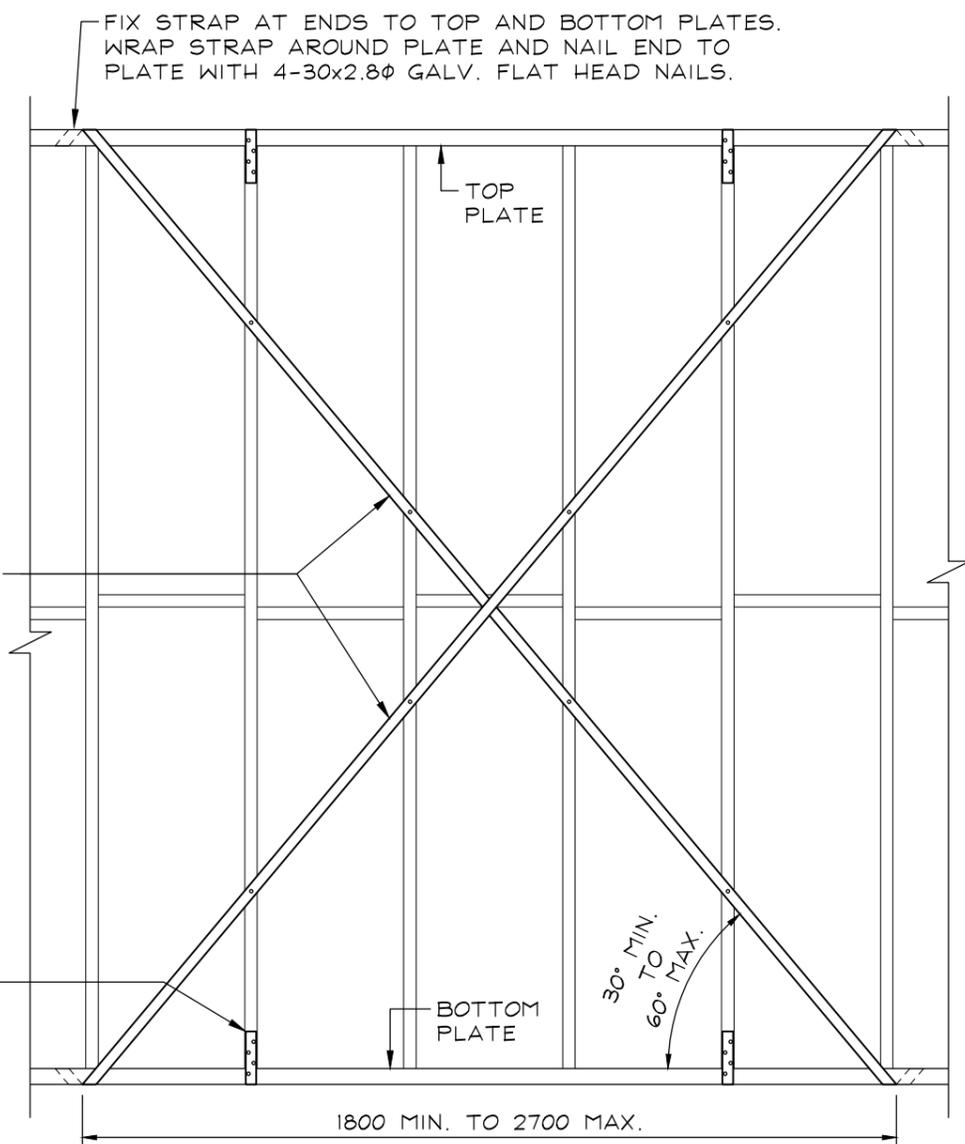
BOTTOM PLATE BEHIND

**PLYWOOD BRACING WALL DETAIL TYPE 'A'**  
 FASTENER DIAGRAM FOR TABLE 8.18 BELOW.  
 DESIGN RACKING RESISTANCE = 6.0kN/M.

| PLYWOOD STRESS GRADE | PLYWOOD THICKNESS, mm    |     |
|----------------------|--------------------------|-----|
|                      | MAXIMUM STUD SPACING, mm |     |
|                      | 450                      | 600 |
| F8                   | 7                        | 9   |
| F11                  | 6                        | 7   |
| F14                  | 4                        | 6   |
| F27                  | 4                        | 4.5 |

30 x 0.8 GALV. STRAPPING.  
 TENSION STRAPS USING PROPRIETARY METAL CLAMP.

30 x 0.8 GALV. METAL STRAP LOOPED OVER PLATE AND FIXED TO STUD WITH 4/30 x 2.8φ GALV. FLAT HEAD NAILS (OR EQUIVALENT) TO EACH END. ALTERNATIVELY, PROVIDE SINGLE STRAPS TO BOTH SIDES, WITH 4 NAILS PER STRAP END, OR EQUIVALENT ANCHORS OR OTHER FASTENERS.



SHEATHED PANELS AND ALL WALLS:-  
 FIX BOTTOM PLATES TO CONCRETE SLAB WITH M10 MASONRY ANCHORS AT 1200 CENTRES OR BOTTOM PLATES TO BEARERS USING M10 BOLTS AT 1200 CENTRES MAX. OR EQUAL.

**METAL CROSS BRACING WALL DETAIL TYPE 'B'**

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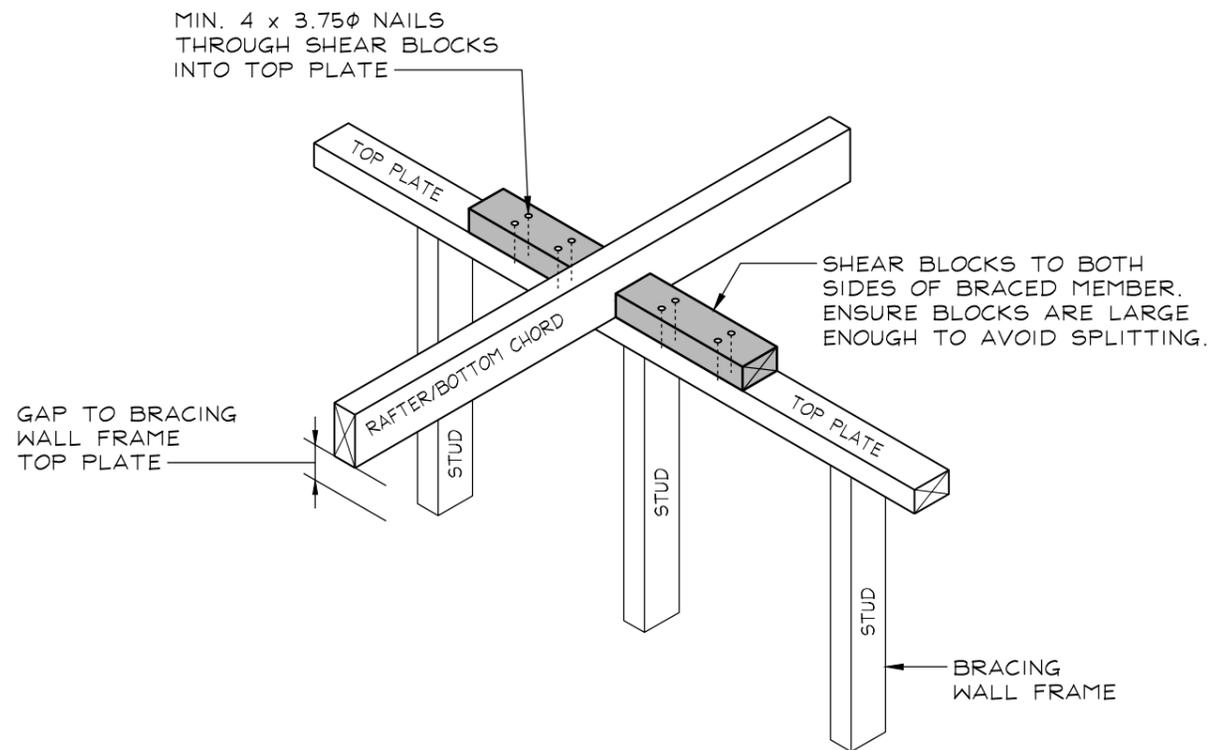
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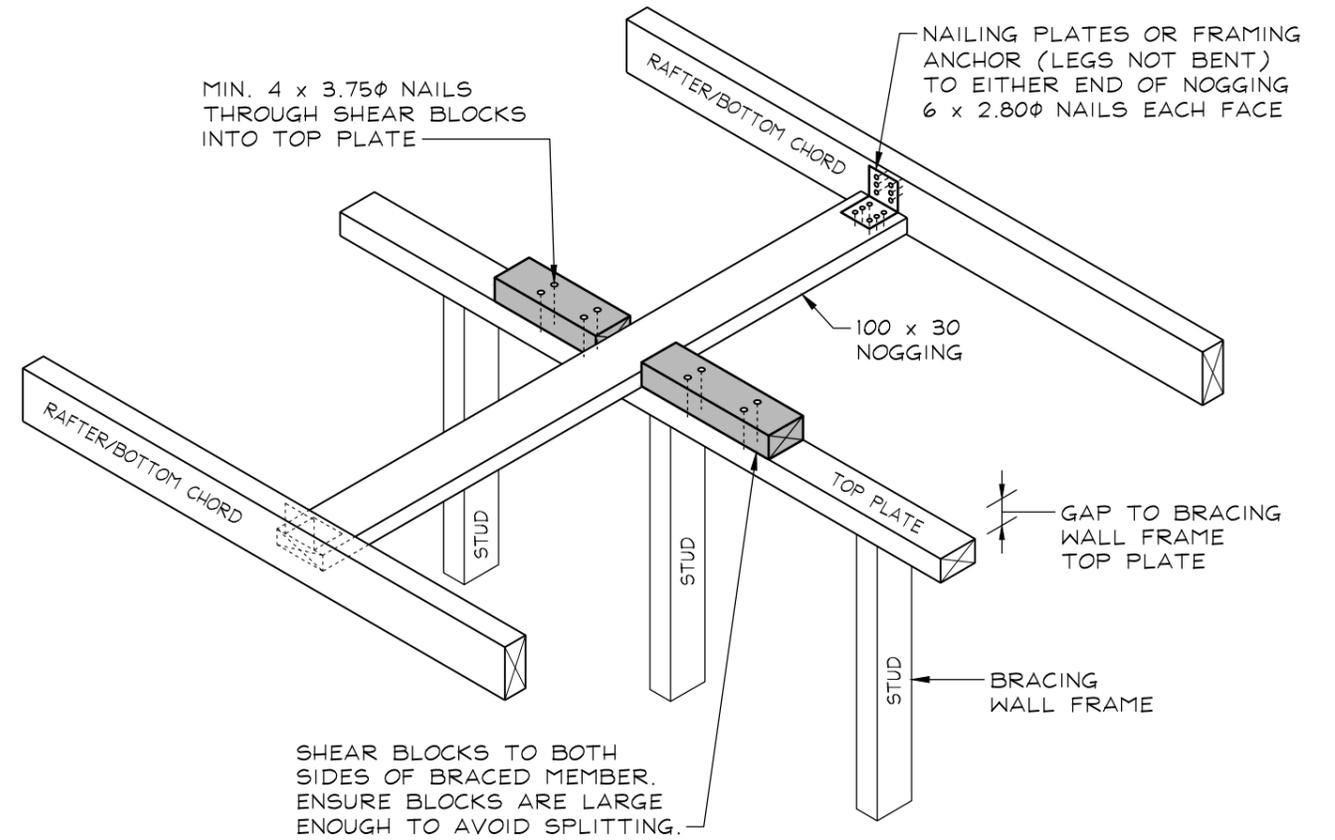
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FOR  
**JOSH KILGARIFF**

| DRAWING TITLE                     |             |                         |                      |
|-----------------------------------|-------------|-------------------------|----------------------|
| <b>BRACING DETAILS 1</b>          |             |                         |                      |
| DESIGN<br>EC                      | DRAWN<br>MN | DRAWING SCALE<br>1:20   | SHEET SIZE<br>A3     |
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RAFTER/JOIST/TRUSS AT RIGHT ANGLES TO BRACING WALL  
CONNECTION TO BE INSTALLED AT EVERY INTERSECTING TRUSS (600 MAX. CENTRES)



RAFTER/JOIST/TRUSS PARALLEL TO BRACING WALL  
CONNECTION TO BE INSTALLED AT 600 MAX. CENTRES

**TYPICAL INTERNAL BRACING WALL CONNECTION TO RAFTERS/JOISTS/TRUSSES**

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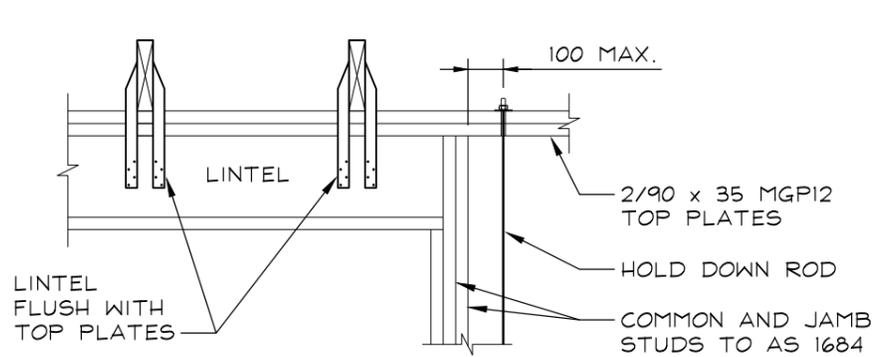
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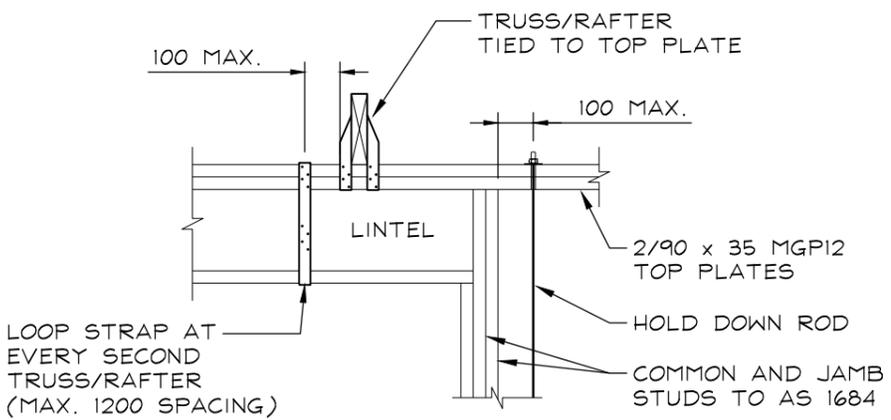
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FOR  
**JOSH KILGARIFF**

| DRAWING TITLE            |            |               |            |
|--------------------------|------------|---------------|------------|
| <b>BRACING DETAILS 2</b> |            |               |            |
| DESIGN                   | DRAWN      | DRAWING SCALE | SHEET SIZE |
| EC                       | MN         | 1:10          | A3         |
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| <b>200337.2</b>          | <b>S9</b>  | <b>A</b>      |            |

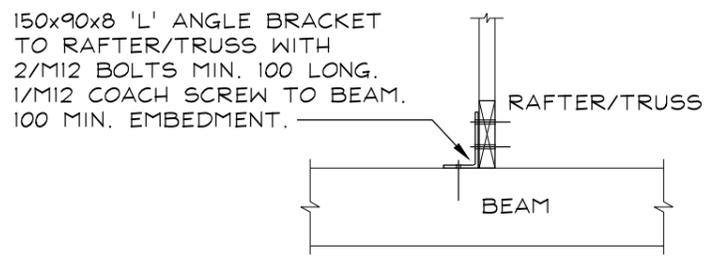


OPTION 1 - TRUSS/RAFTER TIED DIRECTLY TO LINTEL

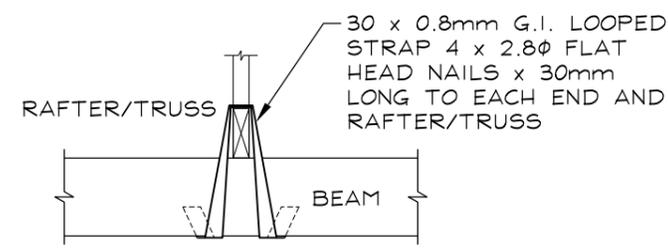


OPTION 2 - CYCLONE STRAP TO TOP PLATE ONLY

**TIE DOWN AT OPENINGS**  
SCALE - 1:20

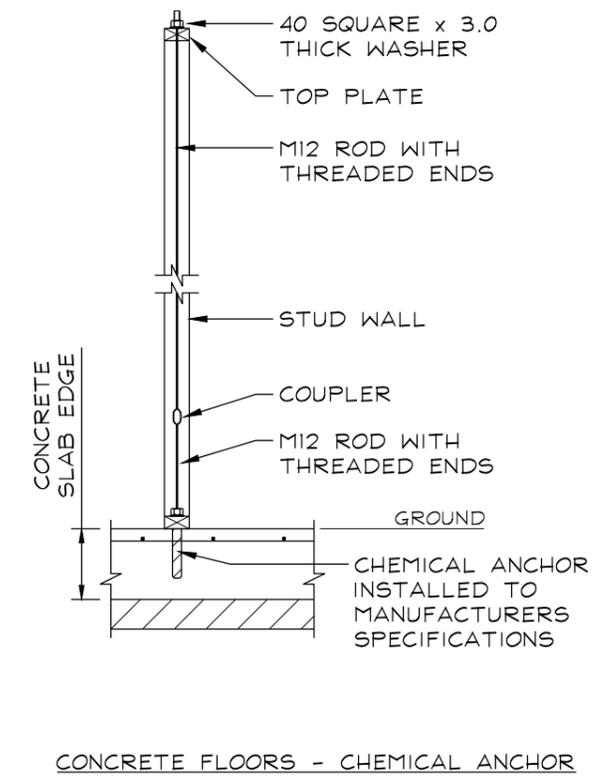
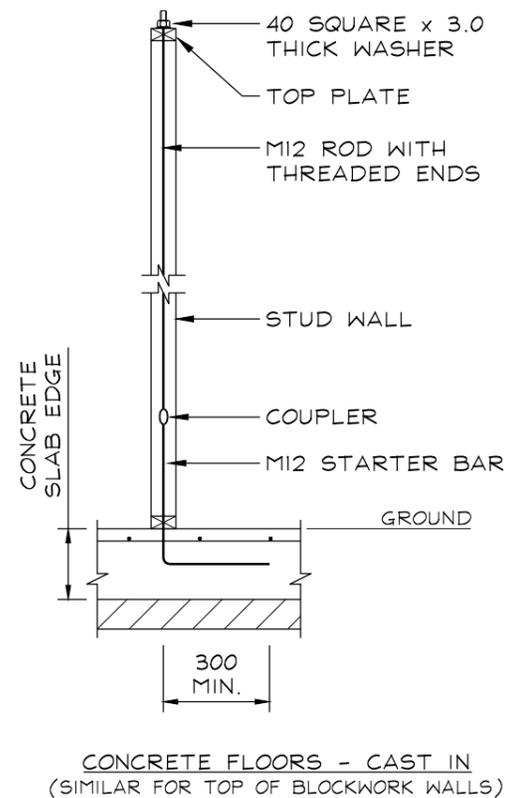
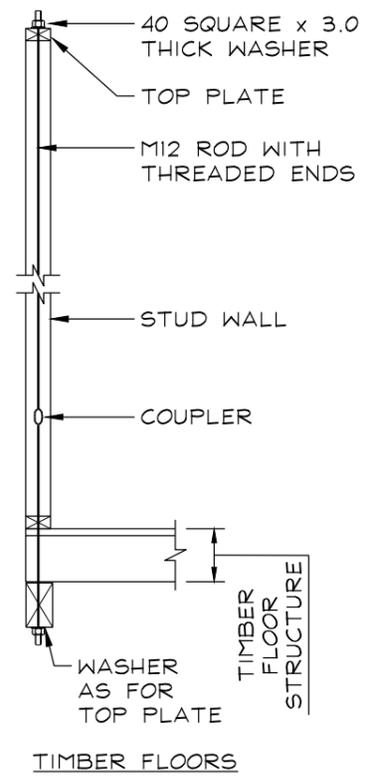


'L' ANGLE BRACKET OPTION

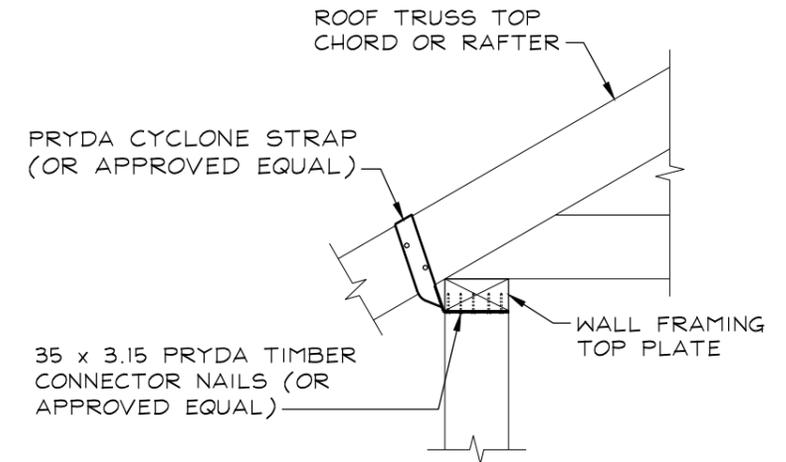


LOOPED G.I. STRAPPING OPTION

**ROOF TRUSS OR RAFTER TO BEAM DETAIL**



**TYPICAL HOLD DOWN ROD CONNECTIONS**  
SCALE - 1:20



**TYPICAL ROOF TRUSS OR RAFTER TO TOP PLATE TIE DOWN CONNECTION**  
SCALE - 1:10

| ISSUE | DESCRIPTION            | DATE     |
|-------|------------------------|----------|
| A     | FOR CONSTRUCTION       | 01.09.23 |
| P1    | PRELIMINARY FOR REVIEW | 30.08.23 |

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PROJECT  
**PROPOSED SECONDARY DWELLING**  
AT  
**111B BALEMO DRIVE, OCEAN SHORES NSW 2483**  
FOR  
**JOSH KILGARIFF**

| DRAWING TITLE            |       |               |            |
|--------------------------|-------|---------------|------------|
| <b>HOLD DOWN DETAILS</b> |       |               |            |
| DESIGN                   | DRAWN | DRAWING SCALE | SHEET SIZE |
| EC                       | MN    | AS SHOWN      | A3         |
| PROJECT REF No           |       | DRAWING No    | REVISION   |
| 200337.2                 |       | S10           | A          |

**GENERAL NOTES**

- THE DESIGN AND DETAILS SHOWN ON THESE DRAWINGS ARE APPLICABLE TO THIS PROJECT ONLY AND MAY NOT BE REPRODUCED IN WHOLE OR IN PART OR BE USED FOR ANY OTHER PROJECT OR PURPOSE WITHOUT THE WRITTEN PERMISSION OF PETER LUCENA WITH WHOM THE COPYRIGHT RESIDES.
- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL DRAWINGS, OTHER CONSULTANTS' DRAWINGS, SPECIFICATIONS AND SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
- ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT AND CURRENT SAA CODES AND WITH THE BY-LAWS AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITIES EXCEPT WHERE VARIED BY THE PROJECT SPECIFICATIONS.
- ALL DIMENSIONS SHOWN SHALL BE VERIFIED BY THE BUILDER ON SITE. ENGINEER'S DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS.
- 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.
- UNLESS NOTED OTHERWISE ALL LEVELS ARE IN METRES AND ALL DIMENSIONS ARE IN MILLIMETRES.
- THE STRUCTURAL COMPONENTS DETAILED ON THESE DRAWINGS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE RELEVANT SAA CODES AND LOCAL GOVERNMENT ORDINANCES FOR THE FOLLOWING LOADINGS.

FLOOR USAGE..... **RESIDENTIAL**

LIVE LOAD kPa..... **1.5 kPa**

|  |              |
|--|--------------|
| WIND LOADS ARE IN ACCORDANCE WITH AS4055 AS FOLLOWS: |              |
| <b>REGION B</b>                                      |              |
| DESIGN WIND SPEED                                    | <b>50m/s</b> |
| TERRAIN CATEGORY                                     | <b>3.0</b>   |
| TOPOGRAPHIC CLASSIFICATION                           | <b>T0</b>    |
| WIND CLASSIFICATION                                  | <b>N3</b>    |

**TIMBER NOTES**

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF AS1720-SAA TIMBER STRUCTURES CODE.
- ALL STRUCTURAL TIMBER SHALL BE OF A STRESS GRADE AS INDICATED ON THE DRAWINGS.
- ALL HARDWOOD SHALL HAVE A MINIMUM STRESS GRADING F14 UNLESS NOTED OTHERWISE. ALL SOFTWOODS SHALL HAVE A MINIMUM STRESS GRADING F5 UNLESS NOTED OTHERWISE.
- TIMBER SHALL BE HANDLED AND STORED SO AS NOT TO OVERSTRESS THE MEMBERS AT ANY TIME. TIMBER DELIVERED TO THE SITE SHALL BE STORED ON A LEVEL BED NOT LESS THAN 150mm OFF THE GROUND, EVENLY SUPPORTED, WELL VENTILATED AND PROTECTED FROM THE ELEMENTS.
- ALL BOLTS IN TIMBER CONSTRUCTION TO BE MINIMUM M12 UNLESS NOTED OTHERWISE.
- IN ALL TIMBER BOLTED JOINTS, ALL NUTS AND BOLTS ARE TO BE THOROUGHLY GREASED AND PROVIDED WITH STEEL WASHERS BOTH ENDS.
- ALL LAMINATED VENEER LUMBER AND GLUE LAMINATED MEMBERS ARE TO BE LINED AND PROTECTED FROM THE EXTERIOR ENVIRONMENT.

**CONCRETE NOTES**

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600 CURRENT EDITION WITH AMENDMENTS, EXCEPT WHERE VARIED BY CONTRACT DOCUMENTS.

**CONCRETE QUALITY:-**

THE CHARACTERISTIC COMPRESSIVE STRENGTH AND SLUMP OF THE CONCRETE MUST NOT BE LESS THAN THE VALUE STATED BELOW.

| ELEMENT           | F'c MPa (28 DAYS) | SLUMP (mm) | AGGREGATE SIZE (mm) |
|-------------------|-------------------|------------|---------------------|
| FOOTINGS          | 20 MIN.           | 80 MAX.    | 20                  |
| SLAB ON GRADE     | 25 MIN.           | 80 MAX.    | 20                  |
| POLISHED CONCRETE | 32 MIN.           | 80 MAX.    | 20                  |
| SUSPENDED SLAB    | 32 MIN.           | 80 MAX.    | 20                  |

PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS3600.

- NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING.
- ALL REINFORCEMENTS SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TIPPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS NOT GREATER THAN 1 METRE CENTRES BOTH WAYS. BARS SHALL BE TIED AT ALTERNATE INTERSECTIONS.
- CONCRETE SIZES SHOWN DO NOT INCLUDE THICKNESS OF APPLIED FINISHES.
- NO HOLES, CHASES OR EMBEDMENT OF PIPES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ENGINEER.
- CONSTRUCTION JOINTS WHERE SHOWN SHALL BE LOCATED TO THE APPROVAL OF THE ENGINEER.
- THE FINISHED CONCRETE SHALL BE A DENSE HOMOGENEOUS MASS, COMPLETELY FILLING THE FORMWORK THOROUGHLY IMBEDDING THE REINFORCEMENT AND FREE OF AIR POCKETS. ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTINGS SHALL BE COMPACTED WITH MECHANICAL VIBRATORS.
- CURING OF ALL CONCRETE IS TO BE ACHIEVED BY KEEPING SURFACES CONTINUALLY WET FOR A PERIOD OF 3 DAYS AND PREVENTION OF LOSS OF MOISTURE FOR A TOTAL OF 7 DAYS FOLLOWED BY A GRADUAL DRYING OUT. APPROVED SPRAYED ON CURING COMPOUNDS MAY BE USED WHERE NO FLOOR FINISHES ARE PROPOSED. POLYTHENE SHEETING OR WET HESSIAN MAY BE USED IF PROTECTED FROM WIND AND TRAFFIC.
- THE ENGINEER SHALL BE GIVEN 24 HOURS NOTICE FOR REINFORCEMENT INSPECTION IF REQUIRED AND CONCRETE SHALL NOT BE DELIVERED UNTIL FINAL APPROVAL IS OBTAINED.
- CONDUITS, PIPES ETC., SHALL ONLY BE LOCATED IN THE MIDDLE 1/3 OF THE SLAB DEPTH AND SPACED AT NOT LESS THAN 3 DIAMETERS.

**REINFORCEMENT SYMBOLS:**

- N - DENOTES GRADE 500 MPa N BARS TO AS4671 GRADE N.
- R - DENOTES GRADE 250 MPa HOT ROLLED PLAIN BARS TO AS4671.
- 4-LIITM - DENOTES GRADE 500 MPa RIBBED 11mmØ BAR TRENCH MESH 4No. TO AS4671.
- SL - DENOTES HARD-DRAWN REINFORCED FABRIC TO AS4671.

- REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY IN TRUE PROJECTION.
- WELDING OR HEATING OF REINFORCEMENT SHALL NOT BE PERMITTED UNLESS SHOWN ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE ENGINEER.
- SLAB FABRIC SHALL BE LAPPED 2 TRANSVERSE WIRES PLUS MINIMUM 25mm.
- TRENCH MESH SHALL BE SPLICED, WHERE NECESSARY, BY A MINIMUM LAP OF 500mm.
- THE LAP LENGTH OF THE BAR SPLICES SHALL NOT BE LESS THAN 500mm FOR BARS 12mm DIAMETER OR LESS.
- CLEAR CONCRETE COVER TO REINFORCEMENT FOR DURABILITY SHALL BE AS FOLLOWS UNLESS SHOWN OTHERWISE:

| EXPOSURE                   | CONCRETE COVER |
|----------------------------|----------------|
| • CAST AGAINST GROUND      | 50mm           |
| • EXTERNAL EXPOSED SURFACE | 45mm           |
| • INTERNAL EXPOSED SURFACE | 20mm           |

**MASONRY NOTES**

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3700-SAA MASONRY CODE.
- BRICKS SHALL HAVE A MINIMUM CRUSHING STRENGTH OF 25MPa. MORTAR TO BE MIXED IN THE PROPORTIONS 1 : 1 : 6 CEMENT : HYDRATED LIME : SAND ( OR EQUIVALENT SAND/CEMENT MORTAR WITH PLASTICISERS ) AND MORTAR COMPRESSIVE STRENGTH AT 28 DAYS TO BE 12 MPa MINIMUM.
- ALL WALLS SUPPORTING SLABS AND BEAMS SHALL HAVE TWO LAYERS OF MALTOID LAID ON 10mm LEVEL MORTAR BED BETWEEN THE CONCRETE AND MASONRY U.N.O.
- ALL BRICKWORK SUPPORTING OR SUPPORTED BY CONCRETE FLOORS SHALL BE PROVIDED WITH VERTICAL JOINTS TO MATCH ANY CONTROL JOINTS IN CONCRETE.
- NON LOAD BEARING WALLS SHALL BE SEPARATED FROM CONCRETE ABOVE BY 12mm THICK CLOSED CELL POLYETHYLENE STRIP.
- NO CHASES OR RECESSES ARE PERMITTED IN LOAD BEARING MASONRY WITHOUT APPROVAL OF ENGINEER.
- REINFORCED CONCRETE BLOCKWORK SHALL COMPLY WITH THE FOLLOWING UNLESS NOTED OTHERWISE:
  - BLOCKS SHALL BE STRENGTH GRADE 15 CONFORMING TO AS/NZS 4455.
  - MORTAR SHALL COMPRISE 1 CEMENT : 0.25 LIME : 3 SAND.
  - MORTAR COMPRESSIVE STRENGTH AT 28 DAYS TO BE 11 MPa MINIMUM.
  - PROVIDE CLEAN OUT HOLES AT BASE OF ALL WALLS AND ROD CORE HOLES TO REMOVE PROTRUDING MORTAR FINS. CLEAN OUT HOLES NOT REQUIRED FOR WALLS ≤ 1200 TALL.
  - CORE FILLING GROUT TO BE F'c = 20 MPa, 10mm AGGREGATE, 230mm SLUMP.
  - CORE FILL IN MAXIMUM 1800mm HIGH LIFTS.
  - PROVIDE 65mm COVER TO REINFORCEMENT FROM OUTSIDE OF THE BLOCKWORK TO ALLOW ADEQUATE GROUT COVER.
- PROVIDE VERTICAL CONTROL JOINTS AT 10m MAXIMUM CENTRES.
- NO MASONRY OR PARTITION WALLS ARE TO BE CONSTRUCTED ON SUSPENDED SLABS OR BEAMS UNTIL ALL PROPPING IS REMOVED.

**RETAINING WALLS**

- PROVIDE GEOTEXTILE FABRIC TO VERTICAL SURFACE OF RETAINED MATERIAL. LAY FABRIC IN VERTICAL LENGTHS EXTENDING FROM BASE OF BLOCKWORK THROUGH TO TOP OF CUT/FILL. FOLD FABRIC OVER BACKFILL.
- PROVIDE WATERPROOF MEMBRANE TO REAR OF WALL.
- BACKFILL BEHIND RETAINING WALLS WITH CLEAN PROPERLY COMPACTED FREE DRAINING NON-COHESIVE GRANULAR MATERIAL. PROVIDE SUBSOIL DRAIN OR WEEP HOLES.

**STEELWORK NOTES**

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS4100 AND AS1554 EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
- UNLESS NOTED OTHERWISE, ALL STEEL SHALL BE IN ACCORDANCE WITH AS1204 GRADE 250.
- BOLT DESIGNATION:
  - 4.6/S - COMMERCIAL BOLTS OF GRADE 4.6 TO AS1111-SNUG TIGHTENED.
  - 8.8/S - HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS1252-SNUG TIGHTENED.
  - 8.8/TB - HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS1252 FULLY TENSIONED TO AS1511 AS A BEARING JOINT.
  - 8.8/TF - HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS1252 FULLY TENSIONED TO AS1511 AS A FRICTION JOINT WITH FACING SURFACES LEFT UNCOATED.
- UNLESS NOTED OTHERWISE ALL BOLTS SHALL BE M20 GRADE 8.8/S.
  - NO CONNECTION SHALL HAVE LESS THAN 2 BOLTS.
  - TB AND TF BOLTS TO BE INSTALLED USING APPROVED LOAD INDICATING WASHERS.
- UNLESS NOTED, ALL WELDS SHALL BE 6mm CONTINUOUS FILLET TYPE GP USING E41XX ELECTRODES - BUTT WELDS SHALL BE COMPLETE PENETRATION BUTT WELDS TO AS1554.
- UNLESS NOTED, ALL CLEAT PLATES TO BE 10mm.
- CONCRETE ENCASED STEELWORK SHALL BE WRAPPED IN ACCORDANCE WITH AS4100 AND TO HAVE 50mm MINIMUM CONCRETE COVER.
- PROVIDE STEEL PLATES TO ALL HOLLOW SECTIONS, WITH "BREATHERS" HOLES IF MEMBERS TO BE HOT DIP GALVANISED.
- ALL STEELWORK TO BE SECURED WITH TEMPORARY BRACES AS NECESSARY TO STABILISE THE STRUCTURE DURING ERECTION.
- THE BUILDER SHALL PROVIDE ALL CLEATS AND DRILL ALL HOLES NECESSARY FOR FIXING STEEL TO STEEL AND TIMBER TO STEEL WHETHER OR NOT THEY ARE DETAILED ON THE DRAWINGS.
- THE ROOF STRUCTURE HAS BEEN DESIGNED FOR NORMAL ROOF LOADS ONLY AND DOES NOT ALLOW FOR ANY EXTRA LOADS SUCH AS HOISTS, MONORAILS ETC. EXCEPT WHERE SHOWN ON THE DRAWINGS.
- STRUCTURAL STEELWORK SHALL HAVE THE FOLLOWING SURFACE TREATMENT UNLESS OTHERWISE SPECIFIED:

| ELEMENT            | SURFACE CLEANING | PRIMING            |
|--------------------|------------------|--------------------|
| Internal Steelwork | Power Brush      | R.O.Z.P.           |
| External Steelwork | Class 2.5        | Hot Dip Galvanised |

|                  |       |                        |          |   |
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|                  | A     | FOR CONSTRUCTION       | 01.09.23 | PRINCIPAL ENGINEERS SIGNATURE   |
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|                  | ISSUE | DESCRIPTION            | DATE     |   |



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|   |
|---|
| PROJECT<br><b>PROPOSED SECONDARY DWELLING</b>         |
| AT<br><b>111B BALEMO DRIVE, OCEAN SHORES NSW 2483</b> |
| FOR<br><b>JOSH KILGARIFF</b>                          |

|                                       |             |                               |                      |
|---------------------------------------|-------------|-------------------------------|----------------------|
| DRAWING TITLE<br><b>GENERAL NOTES</b> |             |                               |                      |
| DESIGN<br>EC                          | DRAWN<br>MN | DRAWING SCALE<br>NOT TO SCALE | SHEET SIZE<br>A3     |
| PROJECT REF No<br><b>200337.2</b>     |             | DRAWING No<br><b>GN1</b>      | REVISION<br><b>A</b> |