# **DOUBLE STOREY DWELLING** 31 CRANBROOK STREET, STRATHTULLOH

CIVIL / STRUCTURAL ENGINEER - PRIYAN WIJEYERATNE - PE0004228

MOBILE: 04010/16328

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CLIENT: **CASSISSI ARCHITECTS** 

**JOB NO: MF/1DSD - 2025** 

**WB CIVIL STRUCTURAL ENGINEERS** 

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**REGISTERED ENGINEER BUSINESS LICENSING AUTHORITY VICTORIA** 

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PE 2448, F.I.E.(AUST)., C.P.ENG.  $M.Eng(Struct).,\,M.Tech.(Mgt.),\,BSc(Civil)$  PROJECT: D/S DWELLING

PROJECT ADDRESS: 31 CRANBROOK STREET, **STRATHTULLOH VIC 3338**  SHEET NO: 1/16

SCALE: AS SHOWN

DATE: 28/11/2025

WARNING ALL SERVICES SHOWN ON THESE DRAWINGS ARE APPROXIMATE ONLY AND EXACT LOCATION IS TO BE CONFIRMED ON SITE BY CONTRACTOR PRIOR TO COMMENCEMENT OF ANY WORKS.

ISSUED FOR REVIEW ONLY PW 11/11/2025 DATE APRV. REMARKS/COMMENTS

### **GENERAL SPECIFICATIONS**

### **GENERAL**

- G1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANT'S DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY SHALL BE REFERRED TO THE ENGINEER OR ARCHITECT BEFORE PROCEEDING WITH THE WORK.
- G2. ALL DIMENSIONS ARE TO BE OBTAINED FROM THE ARCHITECT'S DRAWINGS OR FROM SITE. ENGINEER'S DRAWINGS MUST NOT BE SCALED.
- G3. DURING CONSTRUCTION THE BUILDER SHALL BE RESPONSIBLE FOR MAINTAINING THE STRUCTURE IN A STABLE CONDITION AND ENSURING NO PART SHALL BE OVERSTRESSED UNDER CONSTRUCTION ACTIVITIES.
- G4. MATERIAL AND WORKMANSHIP ARE TO BE IN ACCORDANCE WITH THE RELEVANT SAA CODES, BCA/NCC REQUIREMENTS UNLESS OTHERWISE NOTED IN THE PROJECT SPECIFICATION.
- G5. THE APPROVAL OF A SUBSTITUTION BY THE ENGINEER IS NOT AN AUTHORIZATION FOR AN EXTRA. ANY EXTRA INVOLVED MUST BE TAKEN UP WITH THE ARCHITECT BEFORE WORK COMMENCES.
- G6. THE STRUCTURAL WORK SHOWN ON THESE DRAWINGS HAS BEEN DESIGNED FOR THE FOLLOWING LIVE LOADS:-

AREA	LIVE LOAD
FLOOR	1.5 kPa
ROOF	0.25 kPa '0R' (1.8/A + 0.12) WHICHEVER IS GREATER
BALCONY (IF APPLICABLE)	2.0 kPa

- G7. FOUNDATION MATERIAL TO BE APPROVED BEFORE POURING CONCRETE FOR A SAFE BEARING CAPACITY OF: 100 kPa RAFT SLAB
- G8. ALL DETAILS SHOWN IN WBCSE DRAWING SETS ARE FOR STRUCTURAL PURPOSES ONLY. THE ARCHITECT AND BUILDER MUST ENSURE ALL CONSTRUCTION REQUIREMENTS SET BY THE BCA/NCC ARE MET. THIS OFFICE SHOULD BE CONTACTED IF ANY CLARIFICATION IS REQUIRED.

#### STRUCTURAL STEELWORK

- S1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 1250 AND/OR AS4100.
- S2. WELDING SHALL BE PERFORMED BY AN EXPERIENCED OPERATOR IN ACCORDANCE WITH AS 1554.
- S3. HIGH STRENGTH BOLTING SHALL BE IN ACCORDANCE WITH AS 1511.
- S4. TWO COPIES OF THE SHOP DETAIL DRAWINGS ARE TO BE SUBMITTED TO THE ENGINEERS AND APPROVAL OF SAME OBTAINED BEFORE COMMENCING FABRICATION. APPROVAL WILL NOT COVER DIMENSIONS OR LAYOUT.
- S5. THE BUILDER SHALL PROVIDE AND LEAVE IN PLACE UNTIL
  PERMANENT BRACING ELEMENTS ARE CONSTRUCTED SUCH TEMPORARY
  BRACING AS IS NECESSARY TO STABILIZE THE STRUCTURE DURING
  FRECTION
- S6. CAMBER TO STRUCTURAL STEEL ROOF BEAMS, TRUSSES, PORTALS, ETC., TO BE 2mm FOR EVERY 1M OR SPAN UNLESS OTHERWISE NOTED.
- S7. ALL CLEAT AND DRILLING FOR FIXING OF TIMBER MEMBERS, ETC., TO BE PROVIDED BY FABRICATOR.
- S8. EXCEPT WHERE OTHERWISE SHOWN CONNECTIONS SHALL HAVE 6mm CONTINUOUS FILLET WELDS, 2-M16 8.8/S BOLTS IN 1.5mm CLEARANCE HOLES AND 10mm THICK CLEAT PLATE.
- S9. CONCRETE ENCASED STEELWORK SHALL BE WRAPPED WITH SLAB FABRIC, UNLESS OTHERWISE SHOWN.
- S10.STEELWORK SHALL BE THOROUGHLY WIRE BRUSHED AND GIVEN ONE SHOP COAT OF APPROVED PRIMER EXCEPT THAT NONE SHALL BE APPLIED AT CONTACT SURFACES WHERE H.S. BOLTS USED.
- S11.ALL STEEL BEAMS AND LINTELS ARE TO HAVE 100mm MIN. END BEARING UP TO 1.0m & 150mm MIN. END BEARING OVER 1.0m, UNLESS OTHERWISE NOTED.
- S12.STEEL FRAMING MUST BE PROTECTED FROM CORROSION WHERE REQUIRED IN ACCORDANCE WITH BCA 2016 3.4.2.2

#### CONCRETE

- C1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600.
- C2. CONCRETE COVER TO ALL REINFORCEMENT (FINISHES NOT INCLUDED)

ELEMENT	FORMED AND	FORMED AND	NO FORM
ELEMENT	<u>SHELTERED</u>	<u>EXPOSED</u>	<u>work</u>
SLABS AND WALLS	20mm	30mm	65mm
BEAMS	25mm	40mm	65mm
COLUMNS	40mm	50mm	75mm
FOOTINGS		65mm	75mm

- C3.CONCRETE SIZES SHOWN DO NOT INCLUDE FINISH AND MUST NOT BE REDUCED OR HOLED IN ANY WAY WITHOUT THE ENGINEER APPROVAL. C4. DEPTHS OF BEAMS ARE GIVEN FIRST AND INCLUDE SLAB THICKNESS.
- C5. CONSTRUCTION JOINTS WHERE NOT SHOWN SHALL BE PROPERLY FORMED AND LOCATED TO THE APPROVAL OF THE ENGINEER.
- C6. REINFORCEMENT IS SHOWN DIAGRAMMATICALLY AND NOT NECESSARILY IN TRUE PROJECTION.
- C7. SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN POSITIONS SHOWN.
  WELDING OF REINFORCEMENT WILL NOT BE PERMITTED UNLESS SHOWN ON
  THE STRUCTURAL DRAWINGS.
- C8. REINFORCEMENT SYMBOLS:-
- L LOW DUCTILITY BARS TO AS 4671: 2001
- N NORMAL DUCTILITY BARS TO AS 4671: 2001
- E SEISMIC (EARTHQUAKE) DUCTILITY BAR TO AS 4671: 2001
- THE NUMBER FOLLOWING THE BAR SYMBOL IS THE NOMINAL BAR DIAMETER IN MILLIMETRES.
- C9. ALL CONCRETE SHALL BE GRADE 20MPa 100mm SLUMP (U.N.O.)
- C10. ALL REINFORCEMENT SHALL BE SUPPORTED IN ITS CORRECT POSITION SO AS NOT TO BE DISPLACED DURING CONCRETING ON APPROVED BAR CHAIRS AT 1.0m MAX CRS BOTH WAYS. WHERE REQUIRED PROVIDE SUPPORT BARS
- C11.CONCRETE TO BE KEPT FREE OF SUPPORTING BRICKWORK BY TWO LAYERS OF A SUITABLE MEMBRANE (MALTHOID, ETC.), OR AS DIRECTED BY THE ENGINEER. VERTICAL FACES OF CONCRETE TO BE KEPT FREE BY 10mm
- C12.WHERE WALLS ARE NON-LOAD BEARING AT EITHER HORIZONTAL OR VERTICAL FACES THEY SHALL BE SEPARATED FROM CONCRETE OR BRICKWORK BY 10mm THICK CANITE.
- C13.ALL REINFORCEMENT FOR ANY ONE POUR SHALL BE COMPLETELY PLACED AND TIED PRIOR TO INSPECTION BY THE ENGINEER OR ARCHITECT. NO CONCRETE SHALL BE POURED UNTIL REINFORCEMENT HAS BEEN INSPECTED AND APPROVED.
- C14.WHERE SLABS AND BEAMS ARE TO SUPPORT BRICKWORK OVER,
  FORMWORK AND PROPS MUST BE REMOVED BEFORE COMMENCEMENT OF
  BRICKWORK
- C15.TRENCH MESH IN BEAMS TO BE LAID CONTINUOUSLY WITH EACH LAYER BEING LAPPED FOR ITS FULL WIDTH AT INTERSECTIONS AND FOR A MINIMUM OF 500mm AT SPLICES. THE TRENCH MESH SHALL BE OVERLAPPED BY THE WIDTH OF THE FABRIC AT T & L JUNCTIONS.
- C16.WHEN NEW FOOTING IS ABUTTED TO THE ADJACENT STRUCTURES OF NEIGHBOURING BUILDING AT BOUNDARY, A MINIMUM OF 10mm THICK "ABLEFLEX" (OR APPROVED EQUIVALENT) MUST BE PLACED BETWEEN STRUCTURES (UNLESS OTHERWISE NOTED ON ENGINEERING DRAWINGS TYPICAL)

#### **BRICKWORK**

- B1. THE UNCONFINED COMPRESSIVE STRENGTH OF A BRICK UNIT TO BE MIN. OF 15MPa AND COMPRESSIVE STRENGTH OF MASONRY TO BE A MIN. OF 5.4 MPa
- B2. THE MORTAR MIX FOR BRICKWORK SHALL BE 1:1:6
- B3. FOR NON-LOAD BEARING WALLS SEE NOTE C13.
- B4. ARTICULATION (OR EXPANSION) JOINT SPACING MUST BE IN ACCORDANCE WITH AS4773.1 2015, AS4773.2 2015 & TECHNICAL NOTE 61 (AUG 2008) FOR ARTICULATED WALLING UNLESS NOTED OTHERWISE.
- B5. ALL WALL TIES MUST BE GALVANISED.

#### STRUCTURAL TIMBER

- T1. ALL TIMBER FRAMING IS TO BE IN ACCORDANCE WITH AS 1684-2010 RESIDENTIAL TIMBER FRAMED CONSTRUCTION.
- T2. ALL TIMBER STRESS GRADES NOMINATED SHALL BE IN ACCORDANCE WITH THE RELEVANT CODES AND MEANS THE STRUCTURAL QUALITY OF A TIMBER SECTION (REFER TO AS 1720).
- T3. TIMBER SHALL BE STORED AND HANDLED SO AS NOT TO BE DETRIMENTAL TO THEIR PERFORMANCE OR DAMAGE THEM. REFER APPENDIX H AS 1684–2:2010
- T4. ALL TIMBER SHALL BE DRY, IE: LESS THAN 15% MOISTURE CONTENT AT THE TIME OF CONSTRUCTION AND SHALL BE PROTECTED AND/OR TREATED AS NOTED.
- T5. ALL TIMBER BEAMS AND LINTELS ARE TO BEAR ON DOUBLE STUDS (ONE JAMB AND ONE BEARING STUD), UNLESS OTHERWISE NOTED.
- T6. BEAMS/STUDS HAVING MORE THAN 1 MEMBER TO BE NAIL LAMINATED TOGETHER IN ACCORDANCE WITH AS 1684-2010.
- T7. ALL EXPOSED TIMBER TREATMENT MUST BE IN ACCORDANCE WITH EXPOSURE CLASSIFICATION AS1684.2 TABLE B1, MINIMUM H3 TREATED OR DURABLE SPECIES TO BE ADOPTED TYPICAL U.N.O.

#### FRAMING

- F1. PROVIDE SOLID BLOCKING (45 WIDE x D-25 DEEP) SECURELY NAILED TO JOISTS/RAFTERS (D=DEPTH OF JOIST/RAFTER) AT 1800 MAX. CRS.
- F2. ALL EXTERNAL OR EXPOSED STEELWORK TO BE HOT DIP GALVANISED.
- F3. WATERPROOFING TO ARCHITECTS DETAILS.
- F4. ALL TIMBER FRAMING & BRACING NOT SHOWN TO COMPLY WITH AS1684 TIMBER FRAMING MANUAL.
- F5. ALL BRICKWORK LINTELS TO ARCHITECTS DETAILS. ALL BRICKWORK LINTELS TO COMPLY WITH F.3.3.3.5 OF B.C.A 2012 VOLUME 2.
- F6. ALL BEAMS/GIRDER & HIP TRUSSES TO BE SUPPORTED ON DOUBLE STUDS FACH FND U.N.O.
- F7. ALL LINTELS TO BE SUPPORTED ON SINGLE STUD AND JAMB STUD U.N.O.
- F8. ALL TRUSSES & WALL FRAMES TO MANUFACTURER'S DESIGN & DETAILS.
- F9. TRUSS DIRECTION ASSUMED AS SHOWN (IF APPLICABLE). CONTACT THIS OFFICE IF DIFFERENT TRUSS LAYOUT IS USED SO LINTELS ETC CAN BE REDESIGNED (IF REQUIRED).
- F10.ALL TIMBER LINTELS TO BE DESIGNED BY THE TRUSS MANUFACTURER.
  TYPICAL U.N.O
- F11. BUILDER TO SUPPLY MANUFACTURERS TRUSS LAYOUT TO THIS OFFICE FOR APPROVAL PRIOR TO CONSTRUCTION. TRUSS DESIGN MUST BE IN ACCORDANCE WITH AS1720 AND AS1684. TRUSS FABRICATOR/BUILDER IS RESPONSIBLE FOR PROVIDING ADEQUATE ROOF/WALL BRACING TO ENSURE STABILITY OF THE STRUCTURE IN ACCORDANCE TO AS1684.
- F12.ALL INTERNAL WALLS TO BE NON-LOAD BEARING (TYPICAL) UNLESS HATCHED OTHERWISE ON PLANS.

#### INSPECTIONS

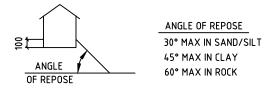
I1. ALL STRUCTURAL WORK MUST BE INSPECTED AND APPROVED IN WRITING PRIOR TO ANY WORK PROCEEDING. 48 HOUR MIN. NOTICE IS REQUIRED FOR ALL INSPECTIONS.

### SITE DRAINAGE

- D1. AT THE TIME OF THE PREPARATION OF THIS DOCUMENT, IF THE DRAINAGE DESIGN WAS NOT PREPARED OR CERTIFIED BY THIS OFFICE THEN THE DRAINAGE SYSTEM MAY NEED TO BE DOCUMENTED BY A SUITABLY QUALIFIED PERSON TO COMPLY WITH AS2870-2011. THE DRAINAGE DESIGNER SHOULD ENSURE THAT THE ELEMENTS OF THE DRAINAGE SYSTEM DESIGN ARE CONSIDERED WITH RESPECT TO THE PROPOSED FOOTING SYSTEM.WE RECOMMEND THAT WBCSE OR AN EQUIVALENT CERTIFIED PRACTITIONER, REVIEW ALL THE DOCUMENTATION TO ENSURE COMPLIANCE.
- D2. SITES SHOULD BE DRAINED SO THAT WATER CANNOT POND AGAINST OR NEAR THE HOUSE. THE GROUND IMMEDIATELY ADJACENT TO THE HOUSE SHOULD BE GRADED TO FALL 50mm OVER THE FIRST METRE.WHERE THIS IS IMPRACTICABLE (IE: ON SEVERAL SLOPING SITES) USE A.G. DRAINS ADJACENT TO FOOTINGS WHERE THE GROUND FALLS TOWARDS THE BUILDING.

### FOOTING: ANGLE OF REPOSE

- A1. FOOTING MUST NOT UNDERMINE EXISTING FOOTING OR BE UNDERMINED BY PROPOSED EXCAVATION.
- A2. ENSURE ADEQUATE ANGLE OF REPOSE AT ALL TIMES (REFER DETAILS BELOW).
- A3. NOTIFY THIS OFFICE IF FOOTING UNDERMINE OCCURS.
- A4. PIPE DEPTH & LOCATION MUST BE CONFIRMED PRIOR TO CONSTRUCTION.



### OH & SAFETY

- 01. FOR ALL WORKS CONDUCTED ON THIS PROJECT, THE BUILDER SHALL HAVE ALL APPROPRIATE AND SUFFICIENT SAFETY MEASURES AND PROCEDURES IN PLACE
- 02. DEEP TRENCHES MAY EXIST ON THIS SITE. BUILDER TO ENSURE NECESSARY SAFETY MEASURES ARE TAKEN TO PREVENT FALL AND TRIPPING HAZARDS ARE FI IMINATED.
- O3. FOR LARGE SPAN BEAMS ( SAY6000mm), BUILDER TO ENSURE SEAT PLATES/ANGLES TO STEEL COLUMNS FOR MAJOR BEAMS AND LINTELS ARE INSTALLED FOR SAFER CONNECTION, BOLTING AND SITE WELDING.
- 04. ADEQUATE PROPPING MAY BE REQUIRED FOR ANY RETAINING/LOAD
  BEARING WALLS ON BOUNDARIES. TEMPORARY SHORING MAY BE REQUIRED.
- 05. PROVISIONS SHALL BE MADE FOR APPROPRIATE DISTANCE FOR ROOF BATTENS/RAFTERS TO PROVIDE A SAFE WORKING PLATFORM DURING ROOF INSTALLATION AND WORKING AT HEIGHTS.
- 06. BUILDER MAY NEED TO BE AWARE OF APPROPRIATE MEASURES TO DEAL WITH HAZARDOUS MATERIALS SUCH AS ASBESTOS THAT MAY BE FOUND IN SERVICE PITS.
- 07. IF A CRANE IS REQUIRED, THE BUILDER IS TO PROVIDE ADEQUATE SAFETY MEASURES FOR CRANE USAGE AROUND POWER LINES.
- 08. IF ANY DIGGING IS REQUIRED OUTSIDE OF SITE BOUNDARIES, INFORMATION REGARDING EXISTING COUNCIL ASSETS NEED TO BE SOUGHT FROM "DIAL BEFORE YOU DIG".
- 09. THE SAFETY CONCERNS AND HAZARDS IDENTIFIED ABOVE REPRESENT COMMONLY OCCURRING RISKS. THE LIST DOES NOT COVER THE FULL RANGE OF RISK AVOIDANCE MEASURES REQUIRED.

CLIENT: CASSISSI ARCHITECTS

JOB NO: MF/1DSD - 2025

WB CIVIL STRUCTURAL ENGINEERS

ABN: 84119322436

OFFICE:

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PE 2448, F.I.E.(AUST)., C.P.ENG. M.Eng(Struct)., M.Tech.(Mgt.), BSc(Civil) PROJECT: D/S DWELLING

PROJECT ADDRESS: 31 CRANBROOK STREET, STRATHTULLOH VIC 3338 SHEET NO: 2/16

SCALE: AS SHOWN

DATE: 28/11/2025

CIVIL STRUCTURAL ENGINEERS

# **WAFFLE SLAB PLAN** POD CONFIGURATION IS INDICATIVE ONLY. BUILDER MAY REARRANGE THEM TO ACHIEVE OPTIMUM POD DISTRIBUTION STEP SLAB TO BE DROPPED/RECESSED AS PER ARCHITECTURAL LEVELS SPECIFICATIONS FOR GARAGE AND PORCH. 2000mm LONG 3 X N12 CRACK CONTROL BARS. PLACED DIAGONALLY (TYP.)

### **GROUND FLOOR WAFFLE SLAB, RIBS & PIERS**

**SCALE 1: 100** 

#### **SLAB NOTES:**

- REFER TO SHEET NO: 3/? FOR SLAB & BEAMS REINFORCEMENT SPECIFICATION.
- SLAB REINFORCEMENT TO BE LAPPED NOT LESS THAN 225mm OR 2 CROSS WIRES. SUPPORT MESH ON BAR CHAIRS AT 1000mm MAXIMUM SPACING IN BOTH DIRECTION.
- BEAM/RIB REINFORCEMENT TO BE LAPPED AND TIED A MINIMUM OF 500mm AT SPLICES. LAP FULL BEAM WIDTH AT RIB INTERSECTIONS.
- REINFORCEMENT SHALL BE FIXED IN POSITION BY BAR CHAIRS OR APPROVED SIMILAR.
- CONCRETE SHALL BE TRANSPORTED, PLACED, VIBRATED AND CURED IN ACCORDANCE WITH AS 2870 & GOOD BUILDING PRACTICE.
- SET DOWN SLAB SURFACE RECESSES AS SPECIFIED IN ARCHITECTURAL DRAWINGS.
- FINISHED FLOOR LEVELS AS PER ARCHITECTURAL DRAWINGS.
- IT IS BUILDER'S RESPONSIBILITY TO CARRYOUT SETTING OUT ACCURATELY AS PER ARCHITECTURAL DRAWINGS AND DOUBLE CHECK BEFORE POURING CONCRETE INCLUDING SETTING DOWN OF BATHROOM RECESS AND ANY OTHER RECESS.
- SOIL REPORT NO:???? DATED: ?/??/???? BY ??????? SOIL TESTING.
- SITE SOIL CLASSIFICATION: CLASS ???
- SUBGRADE TO BE FREE OF VEGETATION & ROOTS AND WELL COMPACTED BEFORE FILLING AND SPREADING WITH QUARRY PRODUCT.

### WAFFLE SLAB SCHEDULE

#### SLAB DETAILS

		OVERALL SLAB DEPTH
U.N.	225 mm U.N.O	VOID FORM HEIGHT
U.N.	100 mm U.N.O	SLAB THICKNESS
U.N.	110 mm U.N.O	INTERNAL RIB WIDTH
U.N.	300 mm U.N.O	EXTERNAL RIB WIDTH
U.N.	150 mm U.N.O	STEM WIDTH

- PROVIDE MEMBRANE IN ACCORDANCE WITH BCA (LAPPED 200 MIN. AND TAPED AT JOINTS) ON MAXIMUM 50mm COMPACTED QUARRY PRODUCT.
- MEMBRANE MINOR PENETRATIONS MUST BE TAPED. IN ACCORDANCE WITH AS2870;
- CONCRETE STRENGTH = 20 MPa AT 28 DAYS. SLUMP = 100mm

### SLAB REINFORCEMENT

TOP

SLAB FABRIC	SL92	U.N.O.
EXTERNAL BEAM	3-L11TM	U.N.O.
RIB	1-N12 BAR	U.N.O.
<u>BOTTOM</u>		

U.N.O. INTERNAL RIB 1-N12 BAR EXTERNAL RIB 3-L11TM U.N.O.

BUILDER TO ENSURE SETTING FINISHED WAFFLE SLAB LEVEL INCLUDING PORCH AS PER ARCHITECTURAL PLANS OR MIN. 150mm - 300mm ABOVE SURROUNDING FINISHED GROUND LEVEL. ALSO, GRADE FINISHED SURROUNDING GROUND AWAY FROM SLAB PERIMETER.

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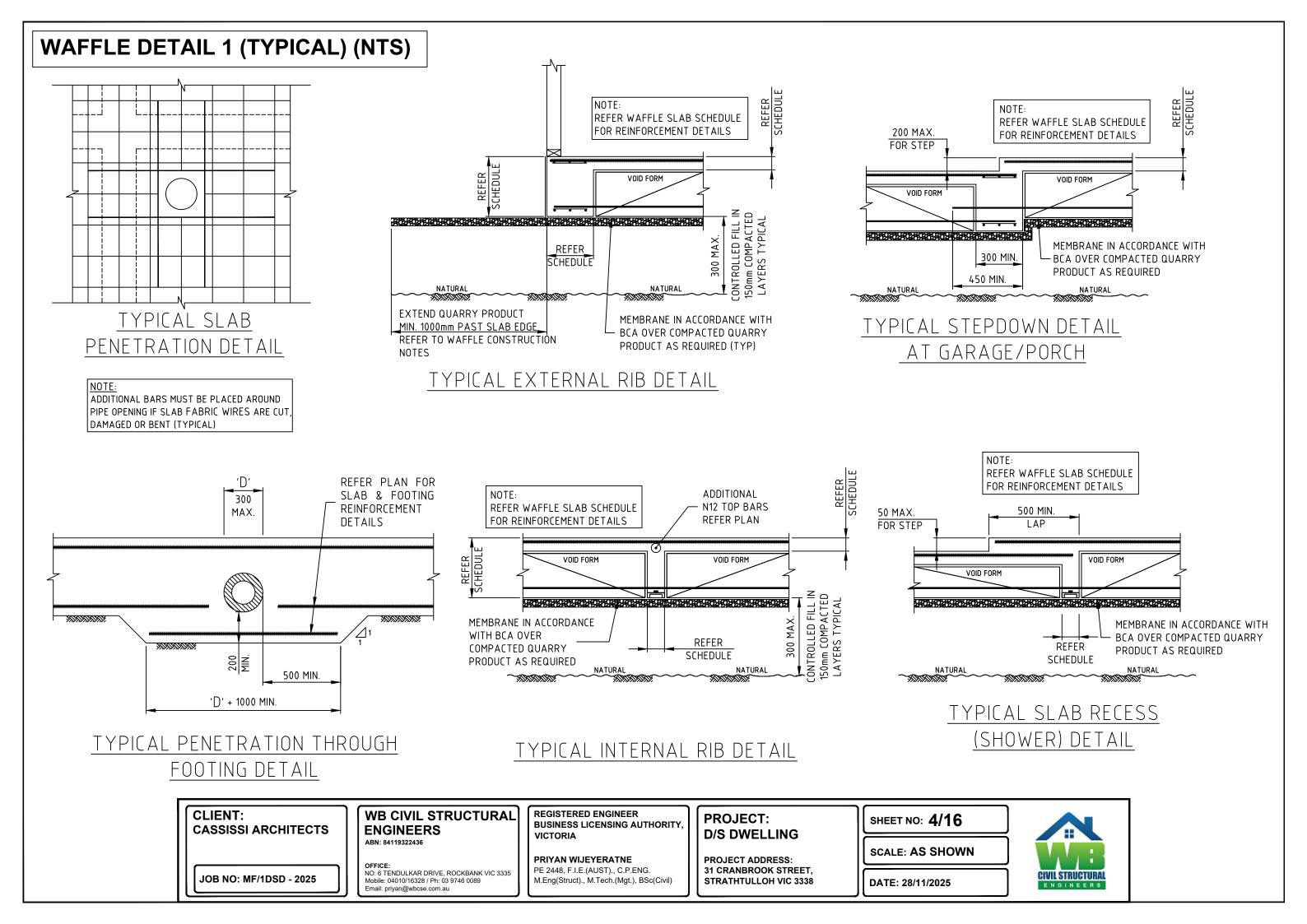
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### PROJECT: D/S DWELLING

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SCALE: AS SHOWN





### WAFFLE DETAIL 2 (TYPICAL) (NTS) OFFSET TO CENTERLINE OF PIPE TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION KKKKKKK DEPTH OF PIPE INVERT TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION BLINDING CONCRETE TO BE TAKEN THROUGH ANY FILL/LOOSE MATERIAL AND FOUNDED MINIMUM 100mm BELOW ANGLE OF REPOSE DUE TO PIPE TRENCH ANGLE OF REPOSE: 30° MAX. IN SAND 45° MAX. IN CLAY 60° MAX. IN ROCK 500 500

TYPICAL ANGLE OF REPOSE DETAIL

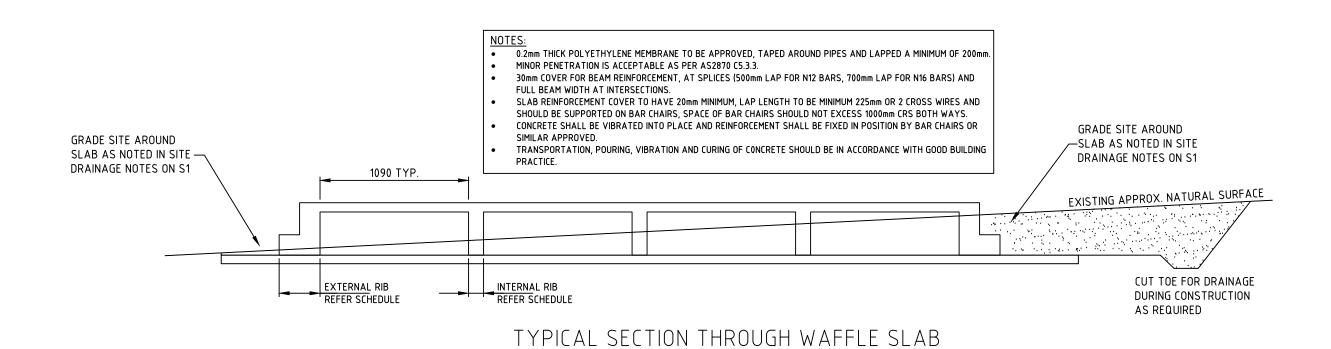
(IF REQUIRED)

PIPE

TYPICAL TIMBER FULL STIRRUP POST ON CONCRETE SLAB/FOOTING DETAIL

ADDITIONAL BOTTOM BARS AT EACH SIDE OF DRAINAGE PIPE MIN.100mm PIPE TO MATCH CLEAR DISTANCE TO EDGE WAFFLE SLAB REINF'T OF RIB NORMAL RIB BOTTOM BAR CUT TO SUIT (TYP) CUT POD TO FORM REQUIRED WIDTH MINIMUM 100mm

TYPICAL PIPE THROUGH WAFFLE RIB PLAN VIEW



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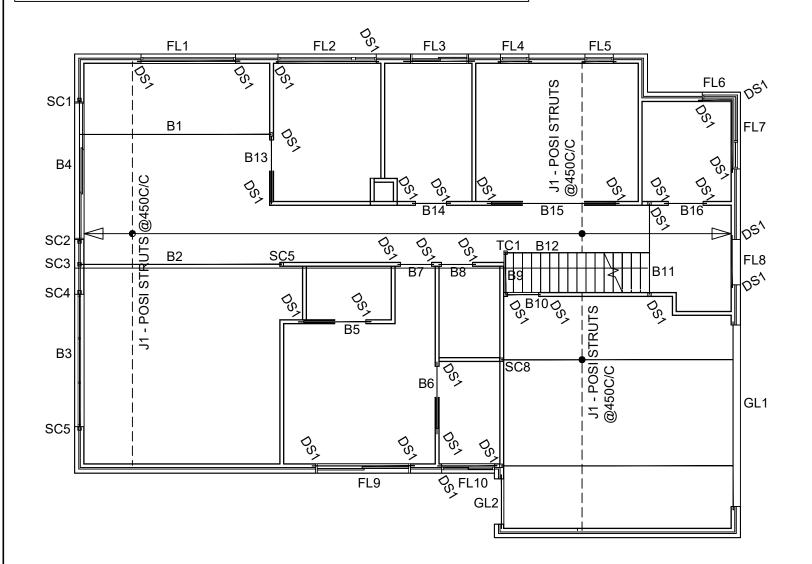
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PROJECT ADDRESS: 31 CRANBROOK STREET, **STRATHTULLOH VIC 3338**  SHEET NO: 5/16

SCALE: AS SHOWN



## FLOOR TIMBER FRAMING PLAN (NTS)



	MEMBER SCHEDULE - FLOOR				
MARK	SECTION	REMARKS/CONNECTIONS			
B1	200UB22.3	G300			
B2	200UB22.3	G300			
В3	200UB22.3	G300			
В4	200UB22.3	G300			
В5	190mmX45mm	MGP12			
В6	190mmX45mm	MGP12			
В7	2/190mmX45mm	MGP12 - LAMINATED			
В8	2/190mmX45mm	MGP12 - LAMINATED			
В9	2/190mmX45mm	MGP12 - LAMINATED			
<b>B10</b> 190mmX45mm MGP12		MGP12			
<b>B11</b> 2/240mmX45mm MGP12 - LA		MGP12 - LAMINATED			
B12	<b>B12</b> 2/240mmX45mm MGP12				
B13	<b>B13</b> 190mmx45mm MGP12				
B14	<b>B14</b> 190mmx45mm MGP12				
<b>B15</b> 2/240mmX45mm MGP12 - LAMINATE		MGP12 - LAMINATED			
B16	190mmx45mm	MGP12			
FL1	2/240mmX45mm	MGP12 - LAMINATED			
FL2	2/240mmX45mm	MGP12 - LAMINATED			
FL3	2/190mmX45mm	MGP12 - LAMINATED			
FL4	140mmX45mm	MGP12			
FL5	140mmX45mm	MGP12			
FL6	190mmX45mm	MGP12			
FL7	190mmx45mm	MGP12			
FL8	190mmx45mm	MGP12			
FL9	2/190mmX45mm	MGP12 - LAMINATED			
FL10	190mmx45mm	MGP12			

TC1	200mmX200mm	F7 - OREGON COLUMN	
J1	300mm @ 450 C/C	POSI -STRUT - AS PER MANUFACTURER'S SPECIFICATION	
BJ1	300mm @ 450 C/C	POSI -STRUT - AS PER MANUFACTURER'S SPECIFICATION	
GL1	VER: 12mmX250mm HOR: 12mmX200mm	MIN. YIELD ST: 250MPa	
GL2	VER: 10mmX250mm HOR: 10mmX200mm	MIN. YIELD ST: 250MPa	
SC1 TO SC5	SHS 89mmX3.5mm th.	G350	
DSX	DSX WHERE DOUBLE STUDS MARKED, REFER TO TABLE ON SHT. NO: ?/?		
TIMBER STUD WALLS TO BE LOAD BEARING - 2/90X45 F7 - TOP PLATES			

& 1/90X45 F7 - BOTTOM PLATE - STUD SPACING 450mm C/C - BOTH STOREYS

BEAMS WHERE POSSIBLE AND ECONOMICAL MAY BE CONTINUOUS OVER SUPPORTS

LINTEL SIZES TO BE PICKED FROM TABLE IN SHEET NO: ?/?

CLIENT: CASSISSI ARCHITECTS

JOB NO: MF/1DSD - 2025

WB CIVIL STRUCTURAL ENGINEERS

ABN: 84119322436

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PRIYAN WIJEYERATNE

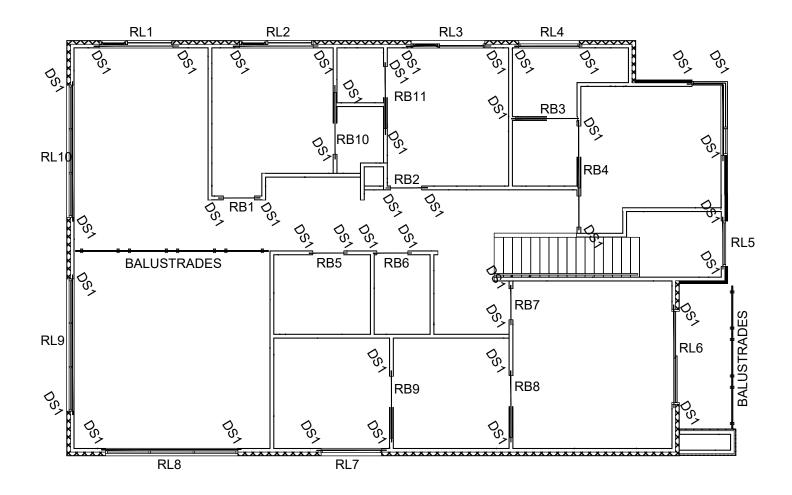
PE 2448, F.I.E.(AUST)., C.P.ENG. M.Eng(Struct)., M.Tech.(Mgt.), BSc(Civil) PROJECT: D/S DWELLING

PROJECT ADDRESS: 31 CRANBROOK STREET, STRATHTULLOH VIC 3338 SHEET NO: 6/16

SCALE: AS SHOWN



### **ROOF TIMBER FRAMING PLAN**



MARK	SECTION	REMARKS/CONNECTIONS
RB1	140mmx35mm	MGP12
RB2	140mmx35mm	MGP12
RB3	140mmx35mm	MGP12
RB4	140mmx35mm	MGP12
RB5	140mmx35mm	MGP12
RB6	140mmx35mm	MGP12
RB7	140mmx35mm	MGP12
RB8	140mmx35mm	MGP12
RB9 140mmx35mm		MGP12
RB10	140mmx35mm	MGP12
RB11	140mmx35mm	MGP12
RL1 240mmx45mm		MGP12
RL2 240mmx45mm		MGP12
RL3 240mmx45mm		MGP12
RL4	240mmx45mm	MGP12
RL5	240mmx45mm	MGP12
RL6	240mmx45mm	MGP12
RL7	240mmx45mm	MGP12
RL8	2/240mmx45mm	MGP12 - LAMINATED
RL9	2/240mmx45mm	MGP12 - LAMINATED
RL10	2/240mmx45mm	MGP12 - LAMINATED

TIMBER STUD WALLS TO BE LOAD BEARING - 2/90X45 F7 - TOP PLATES & 1/90X45 F7 - BOTTOM PLATE - STUD SPACING 450mm C/C - BOTH STOREYS

BEAMS WHERE POSSIBLE AND ECONOMICAL MAY BE CONTINUOUS OVER SUPPORTS

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## TIMBER FRAMING DETAIL 1 - TYPICAL (NTS)

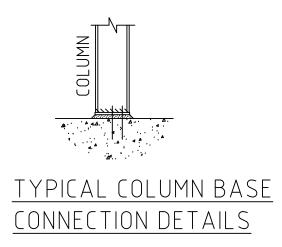
6mm CFW TO COLUMN. 2-M12 CHEMSET
ANCHORS (65 MIN. DISTANCE FROM SLAB EDGE)
20mm NOMINAL GROUT BED

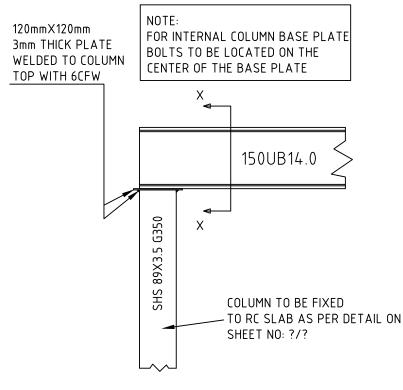
110mm EMBEDMENT
90
65
90
65
90
65
90
65

12mm BASE PLATE,

BASE PLATE PLAN

10mm THK END PLATE





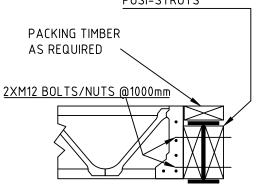
STEEL COLUMN TO STEEL

BEAM CONNECTION

DETAIL

TYPICAL STEEL BEAM TO
STEEL COLUMN DETAIL

TIMBER PLATE MGP12 125X45 OR EQUIVALENT TO HANG POSI-STRUTS

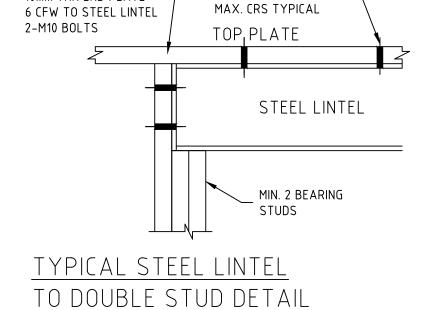


SECTION X-X

STEEL BEAM TO POSI STRUT

CONNECTION DETAIL

NOTE
UBS MAY BE SUBSTITUTED
WITH EQUIVALENT PFCs.



M10 BOLTS AT 900mm

CLIENT: CASSISSI ARCHITECTS

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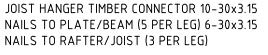
## PROJECT: D/S DWELLING

PROJECT ADDRESS: 31 CRANBROOK STREET, STRATHTULLOH VIC 3338 SHEET NO: 8/16

SCALE: AS SHOWN



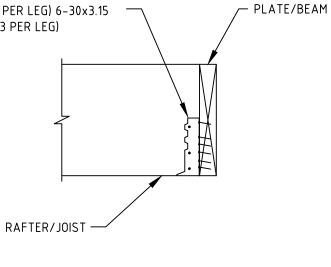
### **TIMBER FRAMING DETAIL 2 - TYPICAL (NTS)**



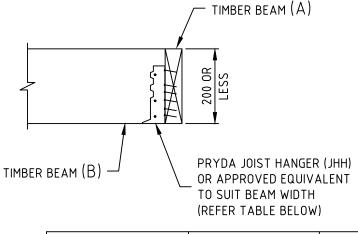
### NOTE:

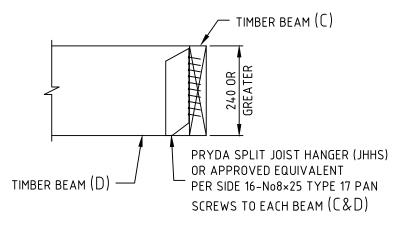
1. AT DOUBLE JOIST TO DOUBLE JOIST USE JOIST HANGER TO ONE JOIST AND TRIP L GRIP FIXING TO SECOND JOIST WITH 5 NAILS/LEG. (15 NAILS)

2. AT DOUBLE JOIST TO WALL PLATE USE JOIST HANGER TO ONE JOIST AND TRIP L GRIP FIXING TO SECOND JOIST WITH 5 NAILS/LEG. (15 NAILS) 2-16¢ DYNABOLTS TO WALL SPACE DYNABOLTS AT 80mm CRS AND 80mm EDGE DISTANCE



TYPICAL TIMBER TO TIMBER RAFTER/JOIST CONNECTION

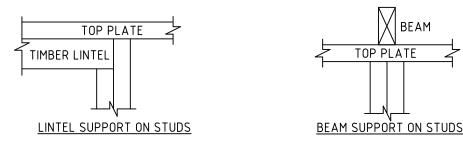




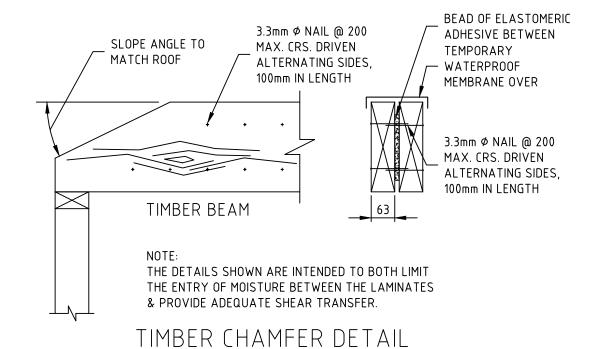
BEAM WIDTH (B)	BRACKET	FIXING
63	JHH65	20-No12×35 TYPE 17 HEX HEAD SCREWS TO BEAM (A) 16-No12×35 TYPE 17 HEX HEAD SCREWS TO BEAM (B)
70	JHH75	20-No12×35 TYPE 17 HEX HEAD SCREWS TO BEAM (A) 16-No12×35 TYPE 17 HEX HEAD SCREWS TO BEAM (B)
90	JHH100	24-No12×35 TYPE 12 HEX HEAD SCREWS TO BEAM (A) 18-No12×35 TYPE 12 HEX HEAD SCREWS TO BEAM (B)

### ALTERNATIVE TIMBER BEAM TO TIMBER BEAM CONNECTIONS (FOR PORCH AND/OR ALFRESCO AREAS ONLY)

ALL STUDS SHALL BE NAIL		DS1	DS2	DS3	DS4	TS1	TS2	TS3	QS1	QS2	FS1	FS2
	INATED IN ACCORDANCE + AS1684.2	90x45	90x45	70×45	120×45	90x45	90x45	70×45	90x45	90x45	90x45	90x45
*****	1 73 1004.2	MGP10	F17 KD HW	F17 KD HW	MGP10	MGP10	F17 KD HW	F17 KD HW	MGP10	F17 KD HW	MGP10	F17 KD HW
TEL	NO. OF BEARING STUD	1	1	1	1	1	1	1	2	2	2	2
N N	NO. OF JAMB STUD	1	1	1	1	2	2	2	2	2	3	3
BEAM	NO. OF BEARING STUD	2	2	2	2	3	3	3	4	4	5	5



TIMBER STUDS SCHEDULE



### **CLIENT: CASSISSI ARCHITECTS**

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BEAM

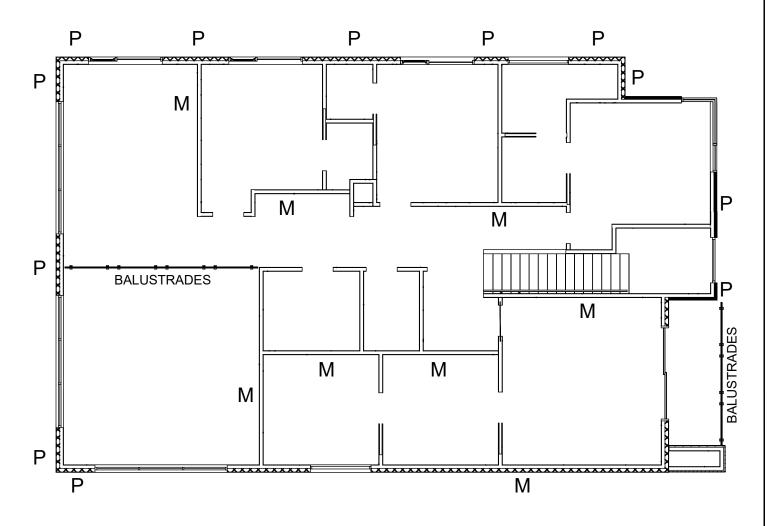
### PROJECT: D/S DWELLING

PROJECT ADDRESS: 31 CRANBROOK STREET, **STRATHTULLOH VIC 3338**  SHEET NO: 9/16

SCALE: AS SHOWN



# **BRACING PLAN (NTS)** Р Р Ρ Р Р M Р Μ Р Р M



### **GROUND FLOOR**

### **UPPER FLOOR**

### **BRACING LEGEND**

- M 1.5kN/m CAPACITY METAL BRACING REFER TO TYPICAL DETAILS
- P 3.4kN/m CAPACITY PLYWOOD BRACING REFER TO TYPICAL DETAILS
- 0 PLYWOOD BRACING OVER ALL WALL AREA, AROUND OPENINGS AS PER AS1684

### WIND RATING - N2

- MAXIMUM DESIGN GUST WIND SPEED FOR THIS SITE IS 40 M/S;
- WIND SPEED CALCULATION (VH) FOR USE IN ULTIMATE LIMIT STATE DESIGN ONLY, CALCULATED IN ACCORDANCE WITH THE LIMITATIONS AS IN AS 4055, SECTION 2.1.

#### ALTERNATIVE BRACING METHOD NOTE:

- OTHER EQUIVALENT CAPACITY BRACING METHOD IS PERMITTED IN LIEU OF SPECIFIED BRACING METHOD SHOWN ON DRAWINGS;
- INSTALLATION OF ALL BRACING UNITS MUST BE IN ACCORDANCE WITH THE RESIDENTIAL TIMBER FRAMED CONSTRUCTION MANUALS AS 1684.2-2010

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### PROJECT: D/S DWELLING

PROJECT ADDRESS: 31 CRANBROOK STREET, STRATHTULLOH VIC 3338

### SHEET NO: 10/16

SCALE: AS SHOWN

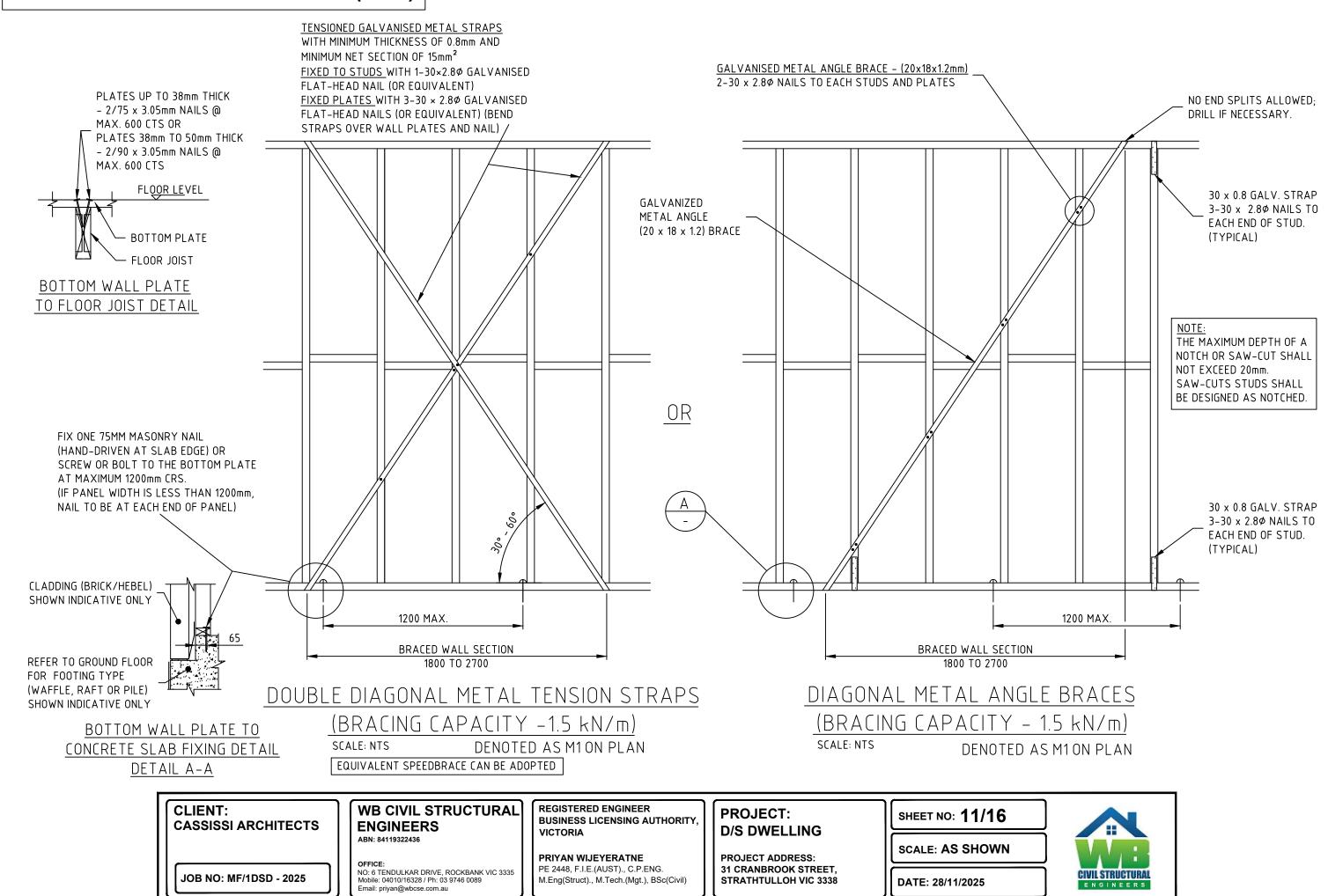
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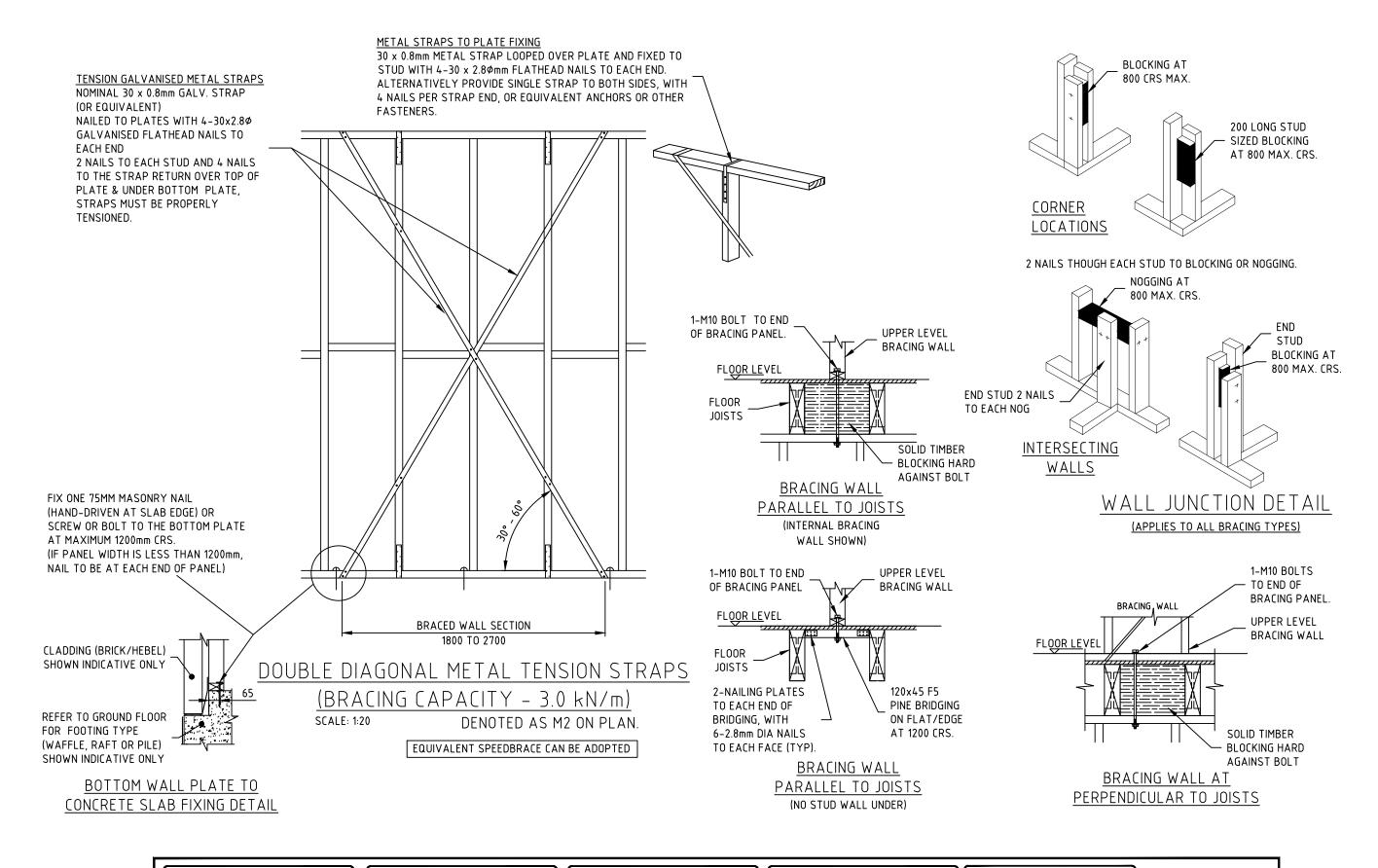
USE TYPE "O" PLYWOOD BRACING OVER ALL WALL AREA,

AROUND OPENINGS - AS PER AS1684

### **BRACING DETAIL 1 - TYPICAL (NTS)**



### **BRACING DETAIL 2 - TYPICAL (NTS)**



**CLIENT: CASSISSI ARCHITECTS** 

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PE 2448, F.I.E.(AUST)., C.P.ENG. M.Eng(Struct)., M.Tech.(Mgt.), BSc(Civil) PROJECT: D/S DWELLING

**PROJECT ADDRESS:** 31 CRANBROOK STREET, STRATHTULLOH VIC 3338 SHEET NO: 12/16

SCALE: AS SHOWN



### **BRACING DETAIL 3 - TYPICAL (NTS)**

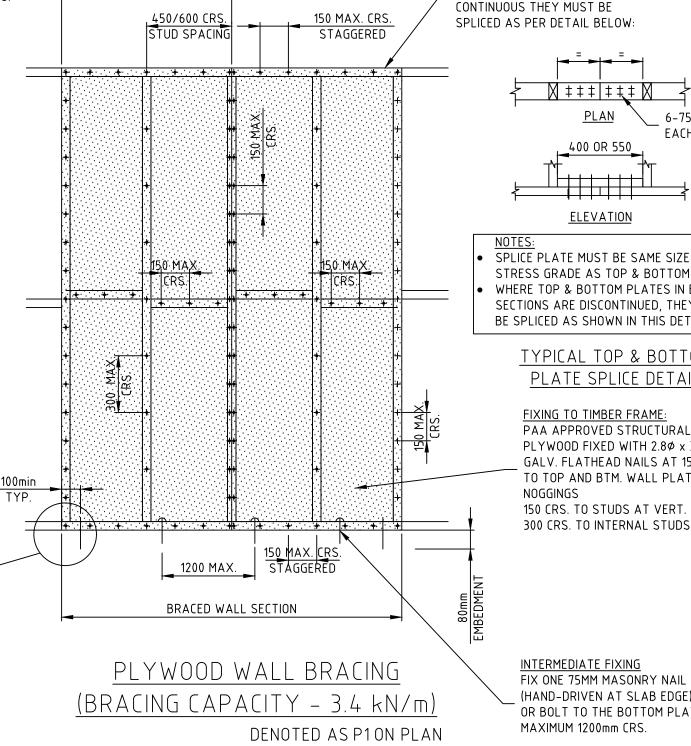
- 1. PLYWOOD BUTT JOINTS SHALL BE AT A COMMON STUD WITH CLOUTS AT CRS. SHOWN.
- HORIZONTAL BUTT JOINTS TO BE FIXED TO NOGGING AT 150 CRS.
- ALLOW TO PACK OUT ADJACENT STUDS WITH CONTINUOUS STRIPS OF PLY TO RECEIVE WALL LINING.
- POWER FIX TOP PLATE AND END STUDS TO ADJACENT STEELWORK AT 600 CRS.

MINIMUM PLYWOOD THICKNESS (mm)				
PLYWOOD STRESS	STUD SPACING (mm)			
GRADE	450 CRS	600 CRS		
NO NOGGING (EXC	EPT HORIZONTAL	BUTT JOINTS)		
F8	7	9		
F11	4.5	7		
F14	4	6		
F27	3	4.5		
WITH ONE ROW OF NOGGING				
F8	7	7		
F11	4.5	4.5		
F14	4	4		
F27	3	3		

FIX ONE 75MM MASONRY NAIL (HAND-DRIVEN AT SLAB EDGE) OR SCREW OR BOLT TO THE BOTTOM PLATE AT MAXIMUM 1200mm CRS. (IF PANEL WIDTH IS LESS THAN 1200mm, NAIL TO BE AT EACH END OF PANEL)

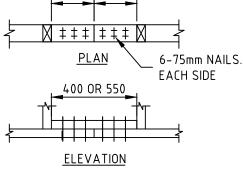
CLADDING (BRICK/HEBEL) SHOWN INDICATIVE ONLY

REFER TO GROUND FLOOR FOR FOOTING TYPE (WAFFLE, RAFT OR PILE) SHOWN INDICATIVE ONLY



PANEL WIDTH

WHERE TOP AND BOTTOM PLATES IN BRACED SECTIONS ARE NOT CONTINUOUS THEY MUST BE SPLICED AS PER DETAIL BELOW:



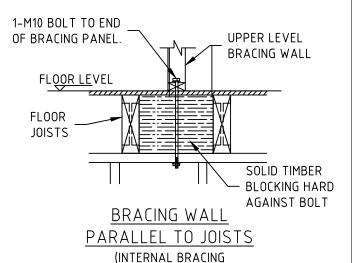
SPLICE PLATE MUST BE SAME SIZE & STRESS GRADE AS TOP & BOTTOM PLATES

WHERE TOP & BOTTOM PLATES IN BRACED SECTIONS ARE DISCONTINUED, THEY MUST BE SPLICED AS SHOWN IN THIS DETAIL

### TYPICAL TOP & BOTTOM PLATE SPLICE DETAIL

FIXING TO TIMBER FRAME: PAA APPROVED STRUCTURAL PLYWOOD FIXED WITH 2.80 x 30 GALV. FLATHEAD NAILS AT 150 CRS. TO TOP AND BTM. WALL PLATES. & NOGGINGS 150 CRS. TO STUDS AT VERT. EDGES.

INTERMEDIATE FIXING FIX ONE 75MM MASONRY NAIL (HAND-DRIVEN AT SLAB EDGE) OR SCREW OR BOLT TO THE BOTTOM PLATE AT MAXIMUM 1200mm CRS.



**UPPER LEVEL** 1-M10 BOLT TO END OF BRACING PANEL **BRACING WALL** FLOOR LEVEL **FLOOR JOISTS** 2-NAILING PLATES 120x45 F5 TO EACH END OF PINE BRIDGING ON FLAT/EDGE BRIDGING, WITH 6-2.8mm DIA NAILS AT 1200 CRS. TO EACH FACE (TYP).

WALL SHOWN)

BRACING WALL PARALLEL TO JOISTS (NO STUD WALL UNDER)

BOTTOM WALL PLATE TO CONCRETE SLAB FIXING DETAIL (END FIXING)

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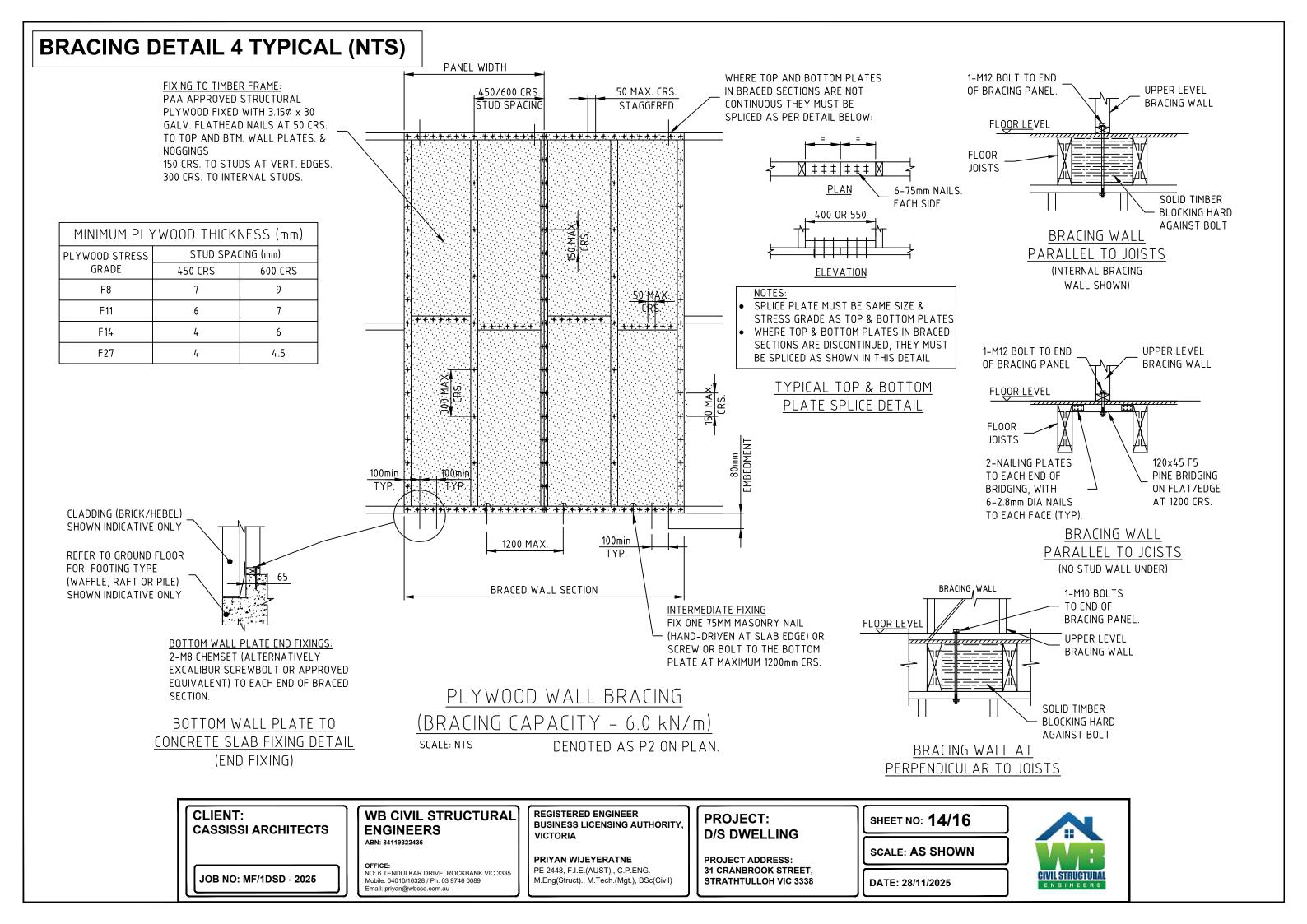
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### PROJECT: D/S DWELLING

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SCALE: AS SHOWN





### STEEL ANGLE & TIMBER LINTEL TABLES

TIMBER ROOF LINTEL		
SCHEDULE (RL)		
SPAN (mm) SECTION		
0 - 1200	190 × 45 F7 KD PINE	
1201 - 1800	190 x 45 F17 KD HW	
1801 - 2400	240 x 45 F17 KD HW	
2401 - 3000	2 - 240 x 45 F17 KD HW OR 2 - 240 × 45 HYSPAN	
3001 - 3600	2 - 290 × 45 F17 KD HW OR 2 - 300 × 45 HYSPAN	

METAL ROOF-FOR MAXIMUM LOAD WIDTH OF 6.0m EQUIVALENT TIMBER GRADES & SECTIONS MAY BE USED

1st FLOOR TIMBER		
LINTEL SCHEDULE (FL)		
SPAN (mm)	SECTION	
900	90 × 45 F7 KD PINE	
1200	120 x 35 F7 KD PINE	
1800	190 x 45 F7 KD PINE	
2400	240 x 45 F7 KD PINE	
3000 240 × 45 F17 KD HW OR 240 × 45 HYSPAN		

SUPPORTING METAL ROOF-LOAD WIDTH OF 2.5m MAX AND FIRST FLOOR LOAD WITH OF 3.0m MAX EQUIVALENT TIMBER GRADES & SECTIONS MAY BE USED

ANGLE LINTEL TABLE (L)			
ANGLE LINTEL SPAN (mm)	BRICK HEIGHT		
	800mm MAX.	3200mm MAX.	
0 - 900	100 x 100 x 6 EA	100 x 100 x 8 EA	
901 – 1600	100 x 100 x 6 EA	100 x 100 x 10 EA	
1601 –2100	100 x 100 x 6 EA	150 x 100 x 10 UA	
2101 – 2600	150 x 100 x 10 UA	150 x 100 x 10 UA + 50 x 10 EXT. PL	
2601 - 3100	150 x 100 x 10 UA	150 x 100 x 12 UA + 75 x 12 EXT. PL	
3101 – 3600	150 x 100 x 12 UA	N/A	

- 1. ANGLE LINTEL TO EACH MASONRY SKIN TYPICAL
- 2. SET ANGLES WITH LONG LEG VERTICAL TYPICAL U.N.O.
- 3. HOT DIP GALVANISED TO ALL EXPOSED ANGLE LINTELS TYPICAL

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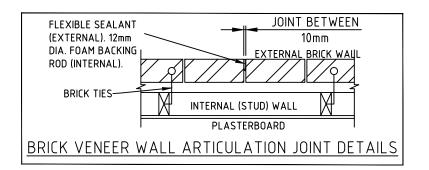
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SCALE: AS SHOWN

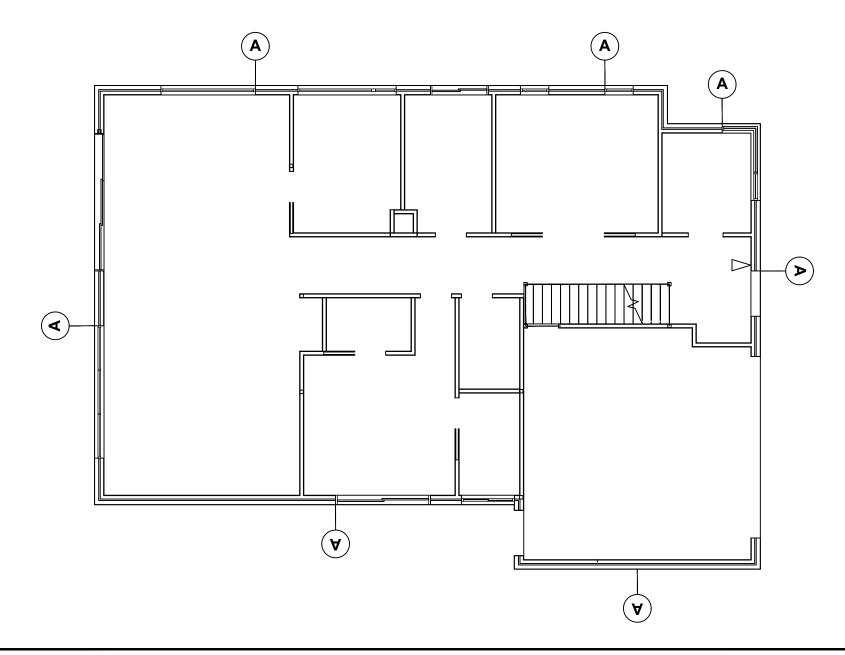


## **ARTUCULATION JOINTS & DETAIL (NTS)**



NOTE

FOLLOW SAME VERTICAL LINE OF "AJS" TO BOTH STOREY EXTERNAL WALLS, WHERE POSSIBLE.



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