

NOTES  
GENERAL

- G1. THE DRAWINGS ARE TO BE READ TOGETHER WITH ALL ARCHITECTS DRAWINGS AND SPECIFICATIONS
- G2. DIMENSIONS SHALL NOT BE OBTAINED BY SCALING FROM THE DRAWINGS. ALL SETTING OUT DIMENSIONS VERIFIED AND DISCREPANCIES SHALL BE REFERRED TO THE ENGINEER PRIOR TO COMMENCEMENT OF WORK.
- G3. CARE IS REQUIRED DURING CONSTRUCTION SO THAT STRUCTURAL ELEMENTS ARE NOT OVERSTRESSED AND KEPT STABLE AT ALL TIMES
- G4. DESIGN, MATERIALS AND WORKMANSHIP ARE TO BE IN ACCORDANCE WITH CURRENT S.A.A. STANDARDS AND STATUTORY AUTHORITY REGULATIONS EXCEPT WHERE VARIED BY CONTRACT DOCUMENTS.

FOOTINGS AND RETAINING

- F1. FOOTINGS HAVE BEEN DESIGNED TO BE FOUNDED ON UNDISTURBED DRY FIRM SOIL HAVING AN ALLOWABLE BEARING CAPACITY OF 400 kPa, REFER TO FOOTING PLANS FOR EXTRA DETAILS.
- F2. FOUADATION MATERIAL SHALL BE APPROVED BEFORE PLACING MEMBRANE, REINFORCEMENT OR CONCRETE AND SHALL BE INSPECTED BY THE ENGINEER PRIOR TO PLACING CONCRETE.
- F3. FOOTINGS TO BE CONSTRUCTED AND BACKFILLED AS SOON AS POSSIBLE FOLLOWING EXCAVATION TO AVOID SOFTENING BY RAIN OR DRYING OUT BY EXPOSURE

STRUCTURAL STEEL

- S1. ALL STEEL WORK TO BE GRADE 300PLUS STEEL. HOLLOW SECTION TO BE 350 UNLESS NOTED OTHERWISE. DESIGN FABRICATION AND ERECTION TO BE IN ACCORDANCE WITH AS 4100.
- S2. STEELWORK SHALL HAVE A CORROSION PROTECTION TREATMENT.
- ALL BOLTS TO BE M16 GRADE 8.8/S AND ALL FILLET WELDS TO BE 6mm CONTINUOUS UNLESS NOTED OTHERWISE. ALL BOLTS, NUTS AND WASHERS ARE TO BE HOT DIPPED GALVANISED.

CONCRETE

- C1. ALL WORK TO BE IN ACCORDANCE WITH AS3600 CURRENT EDITIONS WITH AMENDMENTS

CONCRETE CHARACTERISTICS

ELEMENT	COMPRESSIVE STRENGTH		MAX AGG SIZE
	$f_c - 28$ DAYS	SLUMP	
SLABS & COLUMNS	32	80	20
PIERS AND FOOTINGS	32	80	20
R.C. RETAINING WALL	32	140	10
ELSEWHERE	25	80	20

- C2. CONCRETE SHALL HAVE NO ADMIXTURES WITHOUT THE ENGINEER'S APPROVAL.
- C3. REINFORCEMENT SYMBOLS:

- N 500N GRADE DEFORMED BAR
- S 250S GRADE DEFORMED BAR
- R 250R GRADE ROUND BAR
- SL 500L GRADE WIRE MESH
- THE NUMBER FOLLOWING THESE SYMBOLS IS THE BAR DIAMETER IN MM.
- ALL WELDED MESH FABRIC SHALL BE SUPPLIED IN FLAT SHEETS AND SHALL COMPLY WITH CURRENT AS1304 AND AMENDMENTS.

- C4. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TIPPED CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1 METRE CENTRES BOTH WAYS.
- BARs SHALL BE TIED AT ALTERNATE INTERSECTIONS. IN EXPOSURE CONDITIONS B1 USE PLASTIC CHAIRS.

- C5. FORMWORK IS TO BE ERECTED TO COMPLY WITH CURRENT AS3610.
- C6. THE FINISHED CONCRETE SHALL BE A DENSE HOMOGENEOUS MASS, COMPLETELY FILLING THE FORMWORK, THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS. ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTINGS SHALL BE COMPACTED WITH MECHANICAL VIBRATORS.

- C7. CLEAR CONCRETE COVER TO ALL REINFORCEMENT SHALL BE AS FOLLOWS (UNID)

CONCRETE GRADE	CAST AGAINST GROUND	CAST IN FORMS AND EXPOSED	CAST IN FORMS AND NOT EXPOSED
25	50mm	30mm	20mm
32	60mm	40mm	-
40	65mm	45mm	-

- C8. CURING OF ALL CONCRETE TO BE ACHIEVED BY KEEPING SURFACES CONTINUOUSLY WET FOR A PERIOD OF 7 DAYS. APPROVED SPRAYED ON CURING COMPOUNDS MAY BE USED WHERE NO FLOOR FINISHES ARE PROPOSED. WET HESSIAN MAY BE USED FOR CURING.
- C9. CONSTRUCTION SUPPORT PROPPING IS TO BE LEFT IN PLACE TO AVOID OVERSTRESSING THE STRUCTURE DUE TO CONSTRUCTION LOADING. NO BRICKWORK OR PARTITION WALLS ARE TO BE CONSTRUCTED ON SUSPENDED SLABS UNTIL ALL PROPPING IS REMOVED AND THE SLAB HAS ABSORBED ITS DEAD LOAD DEFLECTION AND ACHIEVED DESIGN STRENGTH.
- C10. CONSTRUCTION JOINTS IF NOT SHOWN ON DRAWINGS SHALL BE LOCATED ACCORDING TO THE ENGINEER INSTRUCTIONS.

- C11. THE ENGINEER SHALL BE GIVEN 24 HOURS NOTICE FOR REINFORCEMENT INSPECTION AND CONCRETE SHALL NOT BE DELIVERED UNTIL THE REINFORCEMENT IS IN ACCORDANCE WITH THE DESIGN.

BRICKWORK

- Br-1. BRICKWORK IS TO BE CONSTRUCTED WITH MORTAR IN THE RATIO 1:1:6, CEMENT:LIME:SAND AND TO BE ADEQUATELY CURED PRIOR TO BEING LOADED.
- SAND TO BE CLEAN SAND WITH NO CLAY CONTENT. MASONRY TO BE CONSTRUCTED TO CURRENT AS3700.
- Br-2. BRICKS USED IN THE CONSTRUCTION OF LOAD-BEARING WALLS SHALL HAVE MINIMUM 20MPa. COMPRESSIVE STRENGTH.
- Br-3. TWO LAYERS OF APPROVED METAL BASED SLIP MATERIAL SHALL BE USED OVER ALL LOAD-BEARING WALLS THAT SUPPORT CONCRETE SLABS. NON LOAD-BEARING WALLS SHALL HAVE 10mm COMPRESSIBLE MATERIAL AND TIES TO THE SLAB SOFFIT.
- Br-4. NO BRICKWORK OR BLOCKWORK SHALL BE CONSTRUCTED ON SUSPENDED SLABS UNTIL ALL PROPPING HAS BEEN REMOVED FROM THE UDRSIDE OF SLAB AND THE CONCRETE HAS THE SPECIFIED 28 DAY CYLINDER STRENGTH VERIFIED BY TESTS.

BLOCKWORK

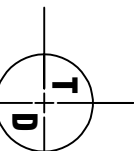
- Bl-1. CONCRETE BLOCKS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 15MPa. AND CONFORM TO AS1600. MORTAR IS TO BE 1:1/2:3, CEMENT:LIME:SAND. MASONRY TO BE CONSTRUCTED TO CURRENT AS1700.
- Bl-2. WHERE CORES OF HOLLOW BLOCKS ARE TO BE FILLED A PROPERLY COMPACTED 25MPa. CONCRETE USING 10mm AGGREGATE WITH 140mm SLUMP SHALL BE USED.
- Bl-3. REINFORCEMENT STARTER BARS TO BE ACCURATELY LOCATED TO SUIT BLOCK CORES.
- ALLOW 65mm COVER FROM OUTSIDE OF BLOCKWORK
- ALL REINFORCEMENT LAP LENGTHS TO BE IN ACCORDANCE WITH CURRENT AS3600.

TIMBER

- T1. ALL TIMBER CONSTRUCTION TO BE IN ACCORDANCE WITH AS1684 & AS1720.
- ALL DREGION TO BE GRADED F7 UNLESS NOTED OTHERWISE.
- ALL HARDWOOD TO BE MINIMUM GRADE F14.
- EXPOSED TIMBER TO BE TREATED RADIATA PINE TO AS1604, OR HARDWOOD DURABILITY CLASS 1 OR 2.
- T2. ALL JOISTS TO HAVE BLOCKING OVER SUPPORT BEARERS AND AT MAXIMUM 3m CENTRES.
- T3. ROOF TRUSSES TO BE DESIGNED BY THE MANUFACTURER TO AS1720.
- T4. ALL HOLES FOR BOLTS TO BE EXACT SIZE.
- WASHERS TO BE USED UNDER ALL HEADS AND NUTS AND TO BE AT LEAST 2.5 TIMES THE BOLT DIAMETER. BOLTS TO BE M16 GRADE 4.6/S UNLESS NOTED OTHERWISE.

TRANSI DESIGN

STRUCTURAL AND CIVIL CONSULTING ENGINEERS DRAFTING DESIGNS



Shop 5/80 THORNEY ROAD, FAIRFIELD WEST, 2165  
Tel (02) 9604 1188 - 0411 442 632

SCALE AS SHOWN	
DATE	30MAY2024
DESIGN	ST
CHECKED	ST

PROPOSED SECONDARY DWELLING  
AT: 21 TAYLOR STREET, LAKEEMBA  
LOT 1 IN DP 124857

FOOTING NOTES

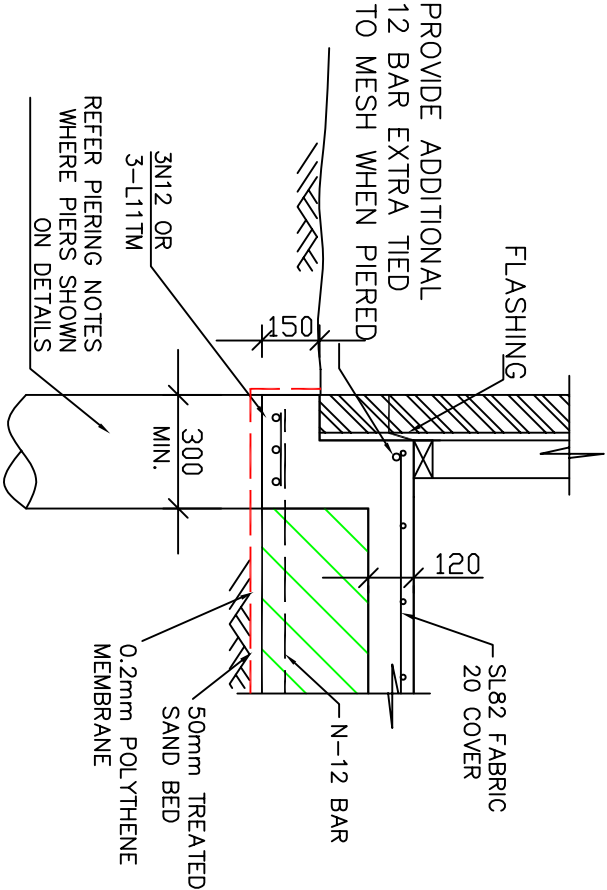
DRAWING NUMBER EP30052024
ISSUED DATE: 30MAY2024

REINFORCEMENT FOR RIBS @ BEAMS

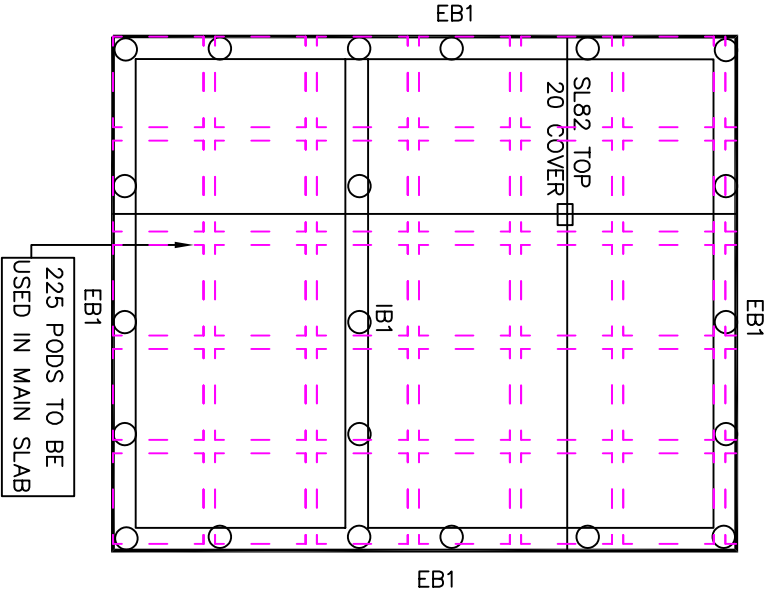
WIDTH	TOP STEEL	BOTTOM STEEL
111 TO 269	-	2N12
270 TO 330	1N12	3N12 OR 3-L11TM
331 TO 440	2N12	4N12 OR 4-L11TM
441 TO 550	3N12	5N12

SLAB DETAILS

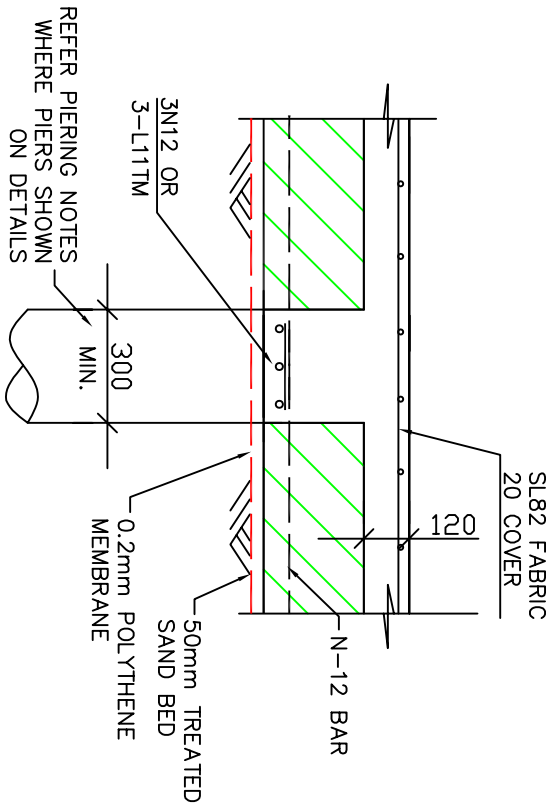
WAFFLE POD HEIGHTS	225 & 150 U.N.O
WAFFLE POD SIZE	1100x1100
SLAB THICKNESS	100mm U.N.O
BEAM DEPTH	310 & 235 U.N.O
CONCRETE STRENGTH	
SLAB	32 MPA
PIER	32 MPA



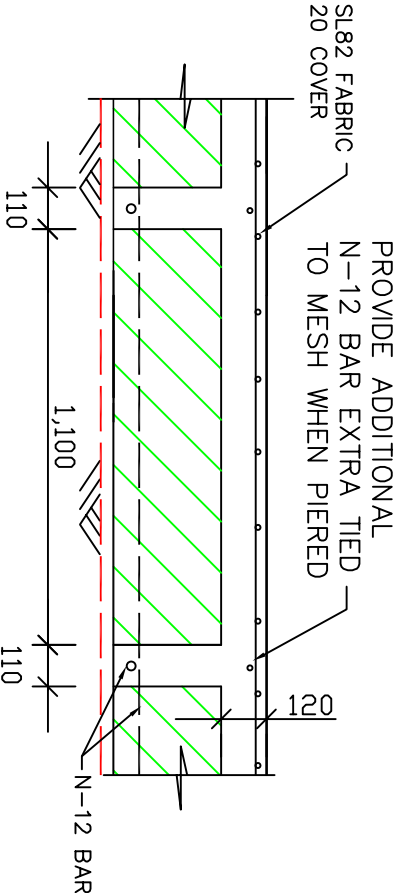
DROP EDGE BEAM DETAIL “EB1”



FOOTING PLAN



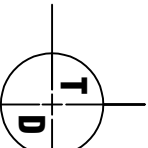
INTERNAL BEAM “IB1”



TYPICAL INTERNAL RIB

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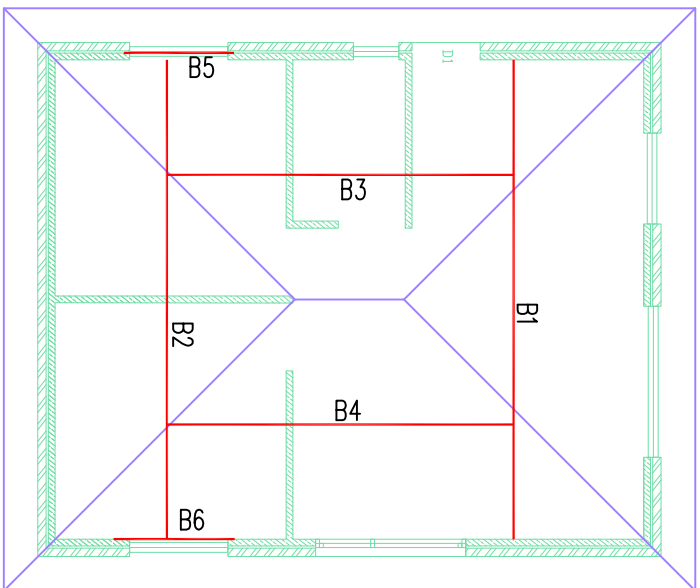
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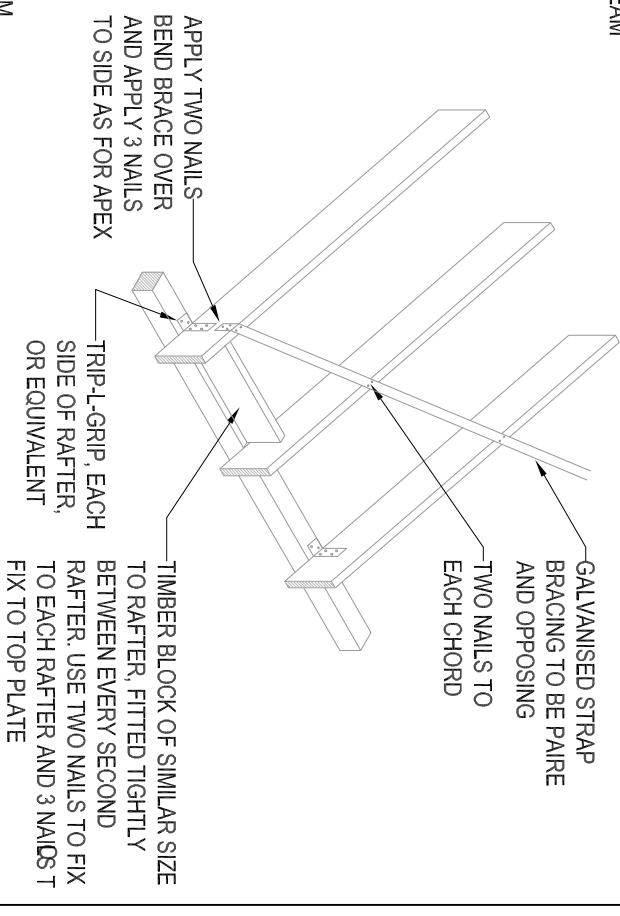
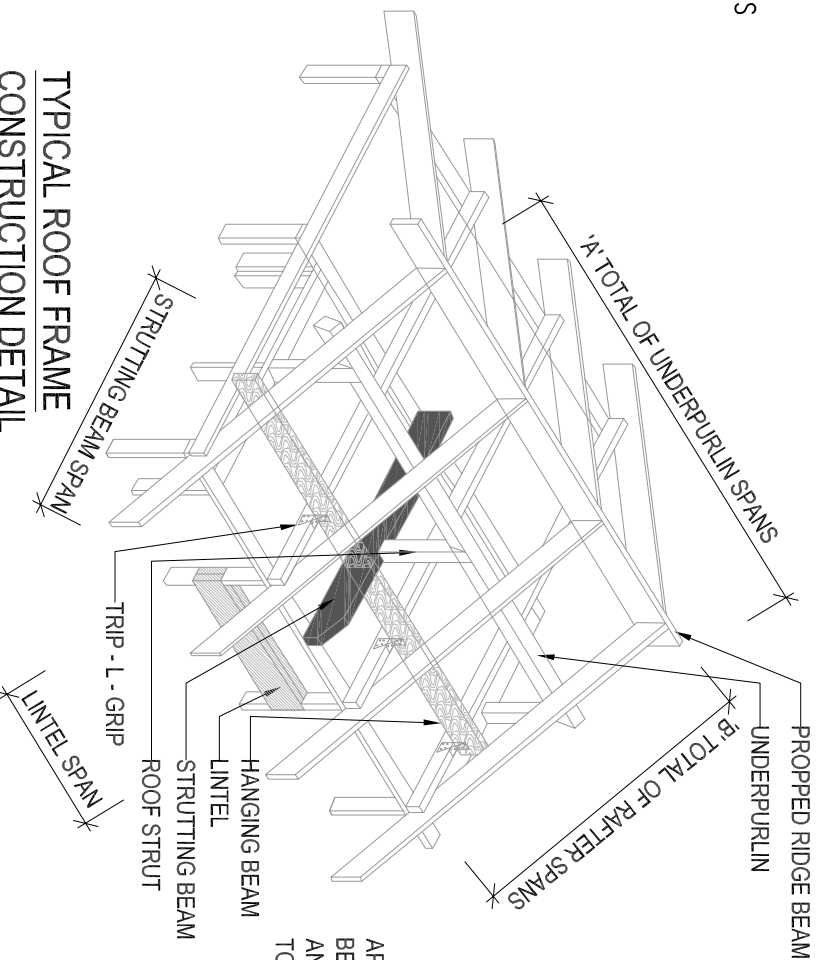
FOOTING PLAN AND DETAILS

DRAWING NUMBER	EP300052024
ISSUED DATE:	30MAY2024



BEAMS SCHEDULE	
DESIGNATION	PARTICULARS
BEAM--B1	375x50 LVL
BEAM--B2	240x50 LVL
BEAM--B3	240x50 LVL
BEAM--B4	240x50 LVL
BEAM--B5	240x50 LVL
BEAM--B6	240x50 LVL

 GROUND FLOOR WALLS  
 ROOF TILES LINE  
 INDICATES LVL BEAMS

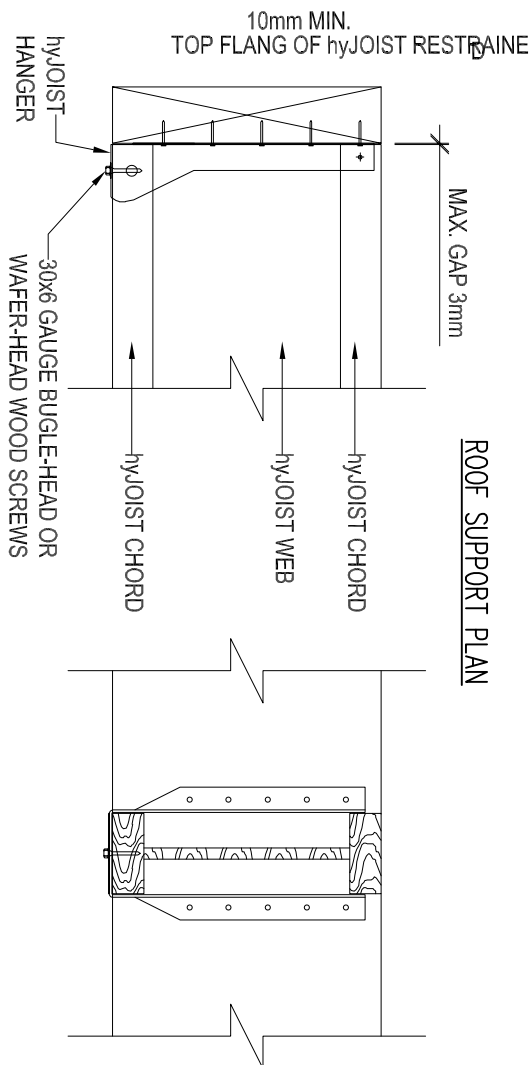


## TYPICAL ROOF BRACING DETAIL

NTS

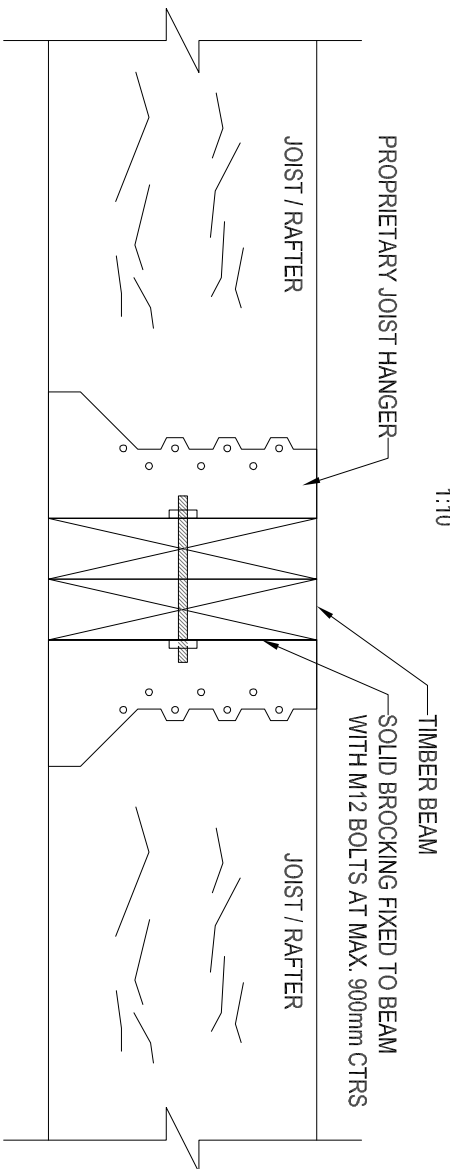
## TYPICAL ROOF FRAME CONSTRUCTION DETAIL

NTS



### JOIST TO BEAM CONNECTION - TYPICAL DETAIL

1:10

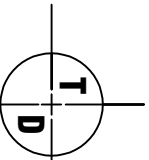


JOIST / RAFTER PERPENDICULAR TO TIMBER BEAM

1.10

# TRANSI DESIGN

# STRUCTURAL AND CIVIL CONSULTING ENGINEERS DRAFTING DESIGNS



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DESIGN	ST
CHECKED	ST

## PROPOSED SECONDARY DWELLING

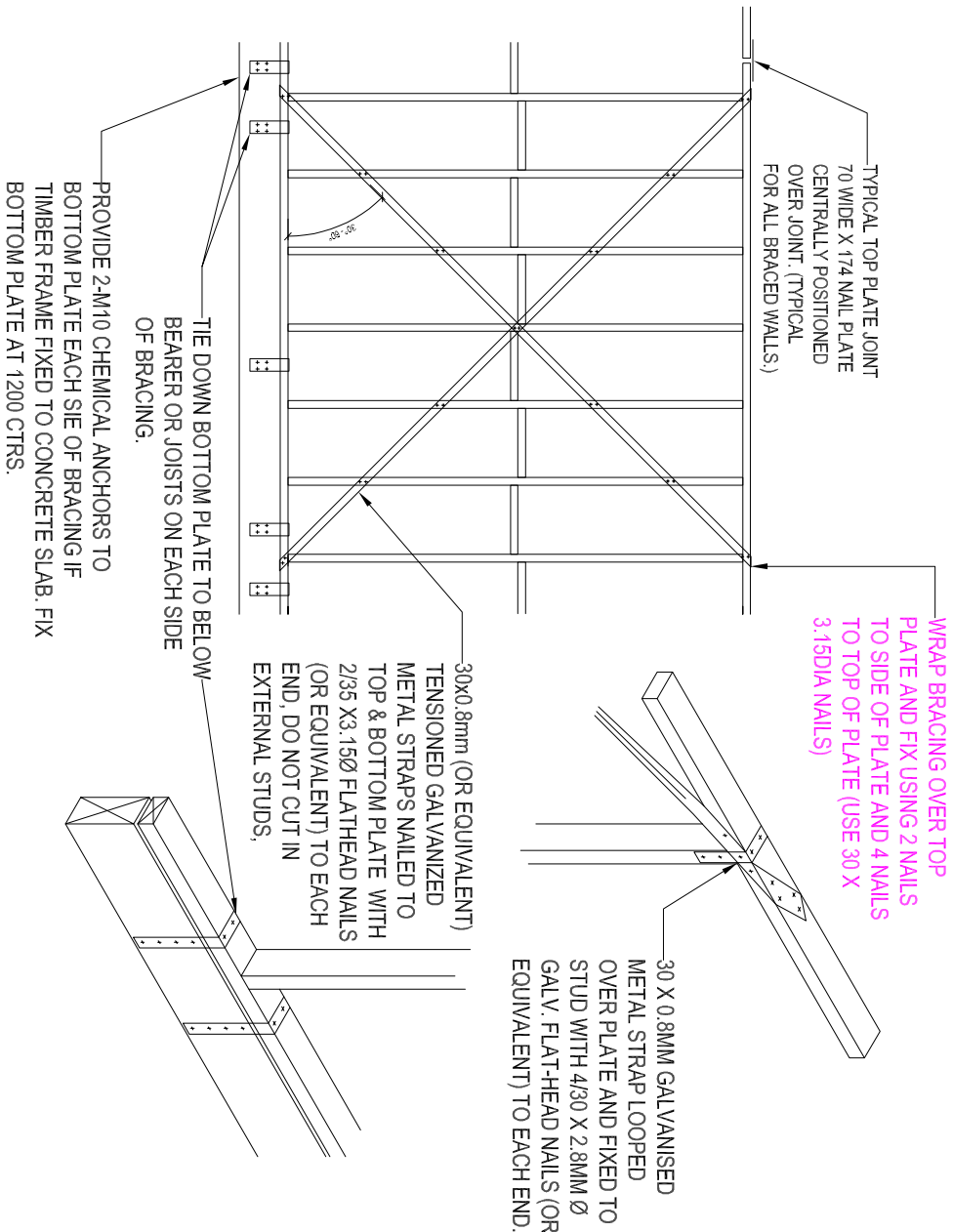
AT: 21 TAYLOR STREET, LAKEMBA

LOT 1 IN DP 124857

## ROOF SUPPORT AND DETAILS

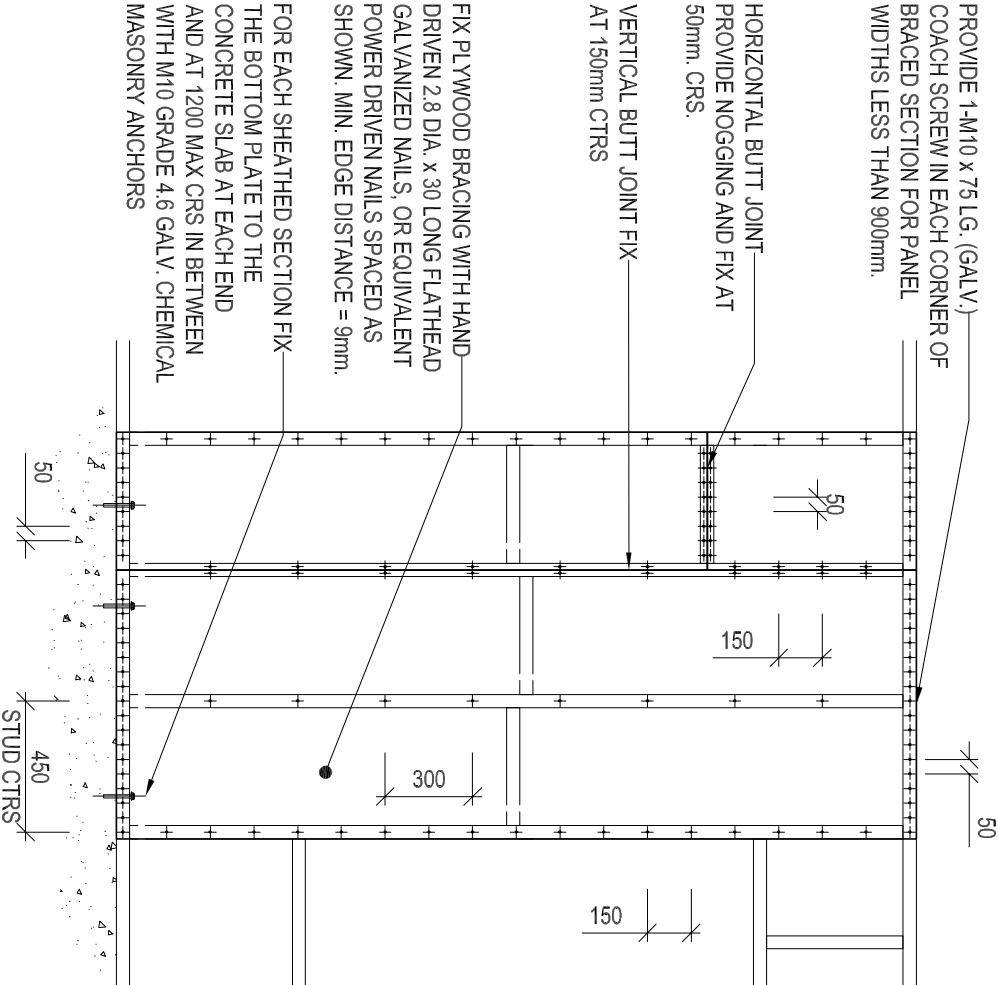
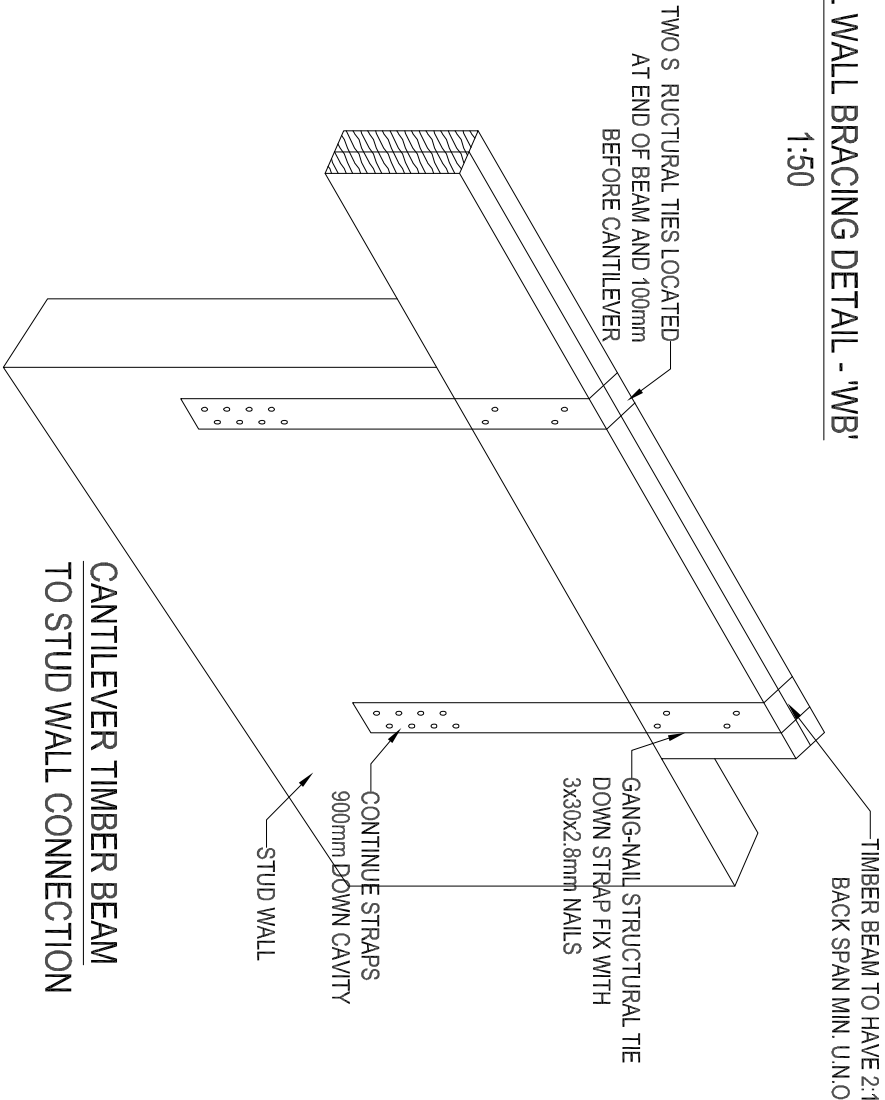
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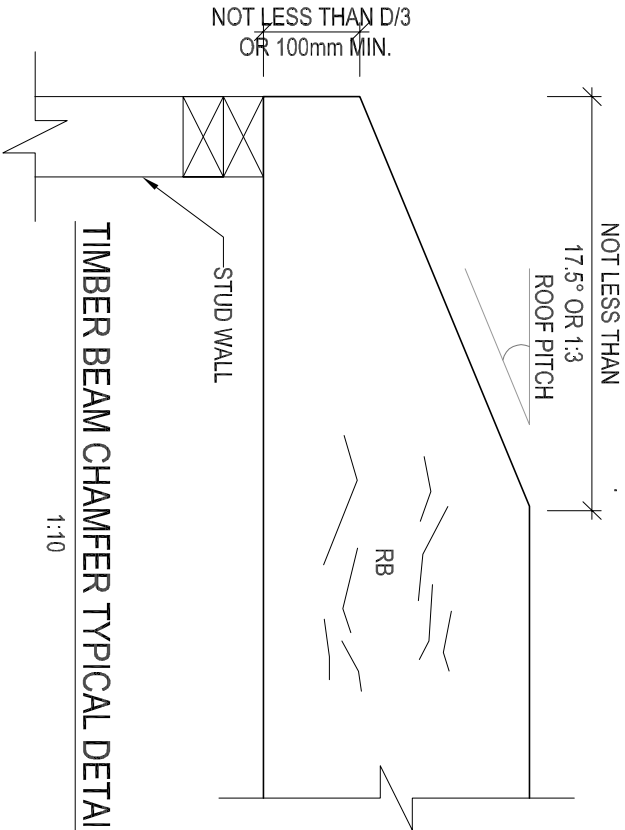
TYPICAL WALL BRACING DETAIL - 'WB'

1:50



TYPICAL PLYWOOD WALL BRACING TO CONCRETE SLAB DETAIL - 'WB-P'

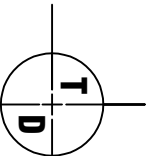
1:20



CANTILEVER TIMBER BEAM TO STUD WALL CONNECTION

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SCALE AS SHOWN

DATE 30MAY2024

DESIGN ST

CHECKED ST

PROPOSED SECONDARY DWELLING

AT: 21 TAYLOR STREET, LAKEEMBA

LOT 1 IN DP 124857

DRAWING NUMBER

EP300052024

ISSUED DATE:

30MAY2024

FRAME DETAILS

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