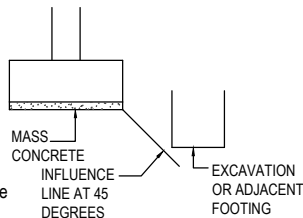


GENERAL NOTES

- G1 These drawings shall be read in conjunction with other consultants' drawings and specifications and with other such 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.
- G2 All dimensions are in millimetres, UNO (unless noted otherwise).
- G3 No dimension shall be obtained by scaling the drawings.
- G4 All levels and setting out dimensions shown on the drawings shall be checked on site prior to the commencement of the work.
- G5 During construction the structure shall be maintained in a stable condition and no part shall be overstressed.
- G6 Damp-proofing & sealing details shall be in accordance with Architect's details. All joints in concrete elements shall be suitably sealed or damp-proofed.

FOUNDATIONS

- F1 Assumed classification of site: M (Moderately Reactive Site) UNO.
- F2 Footings have been designed for an allowable bearing pressure of 150 kPa UNO. All foundations must be stable and uniform throughout.
- F3 Foundation material shall be inspected and approved for the above site classification and allowable bearing pressure by a Geotechnical Engineer before placing footing reinforcement.
- F4 Footings shall be placed centrally under walls and columns, UNO.
- F5 Where an excavation is required or exists below the base of a footing the side of the excavation shall be located away from edge of footing by the same distance that the excavation is below footing base. where this cannot be achieved, 'hyten engineering' shall be contacted for further direction. mass concrete is to extend to the influence line as required.



- F6 All walls and columns shall be concentric with the supporting footings unless noted otherwise on the drawings.

LOADING

- L1 Superimposed floor loads are generally in accordance with AS 1170.1 or as noted in Table L4.
- L2 Wind loads are in accordance with AS/NZS 1170.2 as follows:
Region : A 2 Regional Wind Velocity, V500 : 45 m/s Category : 3, UNO.
- L3 Earthquake loads are in accordance with AS 1170.4 as follows:
a = 0.08 S = 1.0 I = 1.0, UNO.
- L4 Live loads & additional dead loads: (to AS/NZS 1170.1)

Area subject to loading	Live Load		Add. Dead Load
	Uniform	Point	
Floors - Internal	1.50 kPa	1.80 kN	0.50 kPa
Floors - External & Garage	3.00 kPa	1.80 kN	1.00 kPa
Roof Areas	0.25 kPa	1.40 kN	0.15 kPa

MASONRY

- M1 All workmanship and materials shall be in accordance with AS 3700.
- M2 Characteristic compressive strength of masonry (F_{uc}) = 24 MPa

Durability Requirements			
Mortar	Salt Attack Resistance Grade	Built In Component	Min. Cover to Reinforcement & Tendons in Grouted Cavities
M2	Protected	R1 (Galv'd 300 g/m² each side)	5
M3	General Purpose	R3 (Galv'd 470 g/m² each side)	15
M4	Exposure	R4 (Stainless)	30

- M3 All masonry walls supporting slabs and beams shall have a pre-greased two layer galvanised steel slip joint between concrete and masonry.
- M4 All masonry walls supporting or supported by concrete floors shall be provided with vertical joints to match any control joints in the concrete.
- M5 Non load bearing walls shall be separated from concrete above by 12 mm thick closed cell polyethylene strip.
- M6 Provide vertical control joints at 8 metres maximum centres, and 4 metres maximum from corners in masonry walls, and between new & existing brickwork.
- M7 Masonry retaining walls are to be backfilled with either of the following material:
- Coarse grained soil with low silt content
 - Residual soil containing stones
 - Fine silty sand
 - Granular materials with low clay content

REINFORCED CONCRETE

- C1 All workmanship and materials shall be in accordance with AS 3600 current edition, except where varied by the contract documents.
- C2 Concrete quality shall be as follows (subject to note C4 being satisfied):

Element	Slump mm	Max. Agg. Size mm	Cement Type	f _c at 28 Days MPa
Footings	80	20	Normal Portland Type A	20
Slabs on Ground	80	20		25
Suspended Floors	80	20		32

- C3 Engineer to approve any admixtures used in concrete mix.
- C4 Cover to reinforcement shall be obtained by the use of approved bar chairs. All chairs to be placed at 750 maximum centres.
- C5 Minimum clear concrete cover to reinforcement including ties and stirrups (other than residential slabs on ground or footings) shall be as follows uno.

Exposure Classification	Minimum Cover (mm)				
	Concrete Strength (f _c)				
	20 MPa	25 MPa	32 MPa	40 MPa	>50 MPa
A1	20	20	20	20	20
A2	(50)	30	25	20	20
B1	-	(60)	40	30	25
B2	-	-	(65)	45	35
C	-	-	-	(70)	50

For bracketed figures refer to AS 3600 current edition table 4.10.3.2

- C6 Residential slab on ground and footings cover requirements: (Minimum concrete grade N20)
- Unprotected ground: 40 mm
 - External exposure: 40 mm
 - Membrane in contact with ground: 30 mm
 - Internal surface: 20 mm
 - Strip & pad footing: 40 mm
- C7 All concrete shall be mechanically vibrated. Vibrators shall not be used to spread concrete.
- C8 Sizes of concrete elements do not include thickness of applied finishes.
- C9 No holes or chases other than those shown on the structural drawings shall be made in concrete members without the prior approval of the Engineer.
- C10 Construction joints where not shown shall be located to the approval of the Engineer.
- C11 Curing of all concrete is to be achieved by keeping surfaces continuously wet for a period of 3 days, and prevention of loss of moisture for a total of 7 days followed by gradual drying out. Approved sprayed on compounds may be used where no floor finishes are proposed. Polythene sheeting or wet hessian may be used if protected from wind and traffic.
- C12 Construction support propping is to be left in place where needed to avoid over stressing the structure due to construction loading. No masonry or partition walls are to be constructed on suspended levels until all propping is removed and the slab has absorbed its dead load deflection.
- C13 Conduits, pipes, etc. shall only be placed in the middle one third of slab depth and spread at not less than 3 diameters.
- C14 Reinforcement symbols :
- N - Denotes deformed grade 500 normal ductility reinforcing bars to AS/NZS 4671.
 - R - Denotes plain round grade 250 normal ductility reinforcing bars to AS/NZS 4671.
 - SL - Denotes deformed grade 500 low ductility reinforcing mesh to AS/NZS 4671.
 - RL - Denotes deformed grade 500 low ductility reinforcing mesh to AS/NZS 4671.
 - L--TM - Denotes deformed grade 500 low ductility trench mesh to AS/NZS 4671.

- C15 Reinforcement is represented diagrammatically; it is not necessarily shown in true projection.
- C16 Splices in reinforcement shall be made only in positions shown or otherwise approved by the Engineer.
- C17 Fabric reinforcement shall have splices made so that the overlap, measured between the outermost transverse wires of each sheet of fabric, is not less than the spacing of those wires plus 25 mm.
- C18 Welding of reinforcement shall not be permitted unless shown on the structural drawings or approved by the Engineer.
- C19 All thicknesses shown are minimum structural requirements, no reduction thickness due to falls or topping is permitted. refer architect drawings for all slab falls and confirmation of slab steps. No penetrations greater than 150mm diameter, or embedment of pipes greater than 40mm
- C20 diameter other than those shown on the structural drawings shall be made in concrete slabs. for all other concrete members no penetrations, chases or embedments shall be made without prior approval by 'hyten engineering'

STRUCTURAL STEEL

- S1 All workmanship and materials shall be in accordance with AS 4100, AS 1163, AS 1554.1 and AS/NZS 4600.
- S2 The structural design has been based on the following steel grades, UNO:
Hot rolled universal beams, columns, channels & angles: 300PLUS
Circular, square & rectangular hollow sections: C350/C450LO
Cold formed open DuraGal profiles: C400/C450LO
Cold formed lipped Cee & Zed purlins: G550/G500/G450
- S3 The structural design has been based on MBPMA nominal size Cee & Zed lipped purlins. All purlin profiles shall be in accordance with the MBPMA specifications.
- S4 Qualifications of welding procedures and personnel shall conform to Section 4 of AS 1554.1. Non destructive testing of welds shall include 100% visual inspection and additional testing as shown on the drawings.
- S5 All welds shall be 6 mm continuous fillet type SP, UNO. All butt welds shall be complete penetration in accordance with AS 1554.1, UNO.
- S6 Bolt designation:
4.6/S: Commercial bolts to AS 1111, snug tightened
8.8/S: High strength structural bolts to AS 1562, snug tightened
8.8/TB: High strength structural bolts to AS 1562, fully tensioned bearing joint to AS 1511
8.8/TF: High strength structural bolts to AS 1562, fully tensioned friction joint to AS 1511
- S7 All bolts shall be M16 8.8/S, with a minimum of 2 bolts per connection, UNO. High strength TF & TB bolts shall be installed using approved load indicator washers, or in accordance with the part turn method nominated in AS 4100.
- S8 Gusset plates shall be 10 mm thick, grade 300PLUS steel, UNO.
- S9 Concrete encased steelwork shall be wrapped with SL41 fabric and shall have a minimum of 50 mm cover, UNO.
- S10 Steelwork not encased shall have the following surface treatment :

Exposure Classification	Steelwork Protection Required
A1 / A2	Power tool clean to AS1627 Class 1 1 Coat Alkyd Primer (Zinc Phosphate)
B1	Abrasive blast to AS1627 Class 2.5 1 Coat Inorganic Zinc Silicate
B2	Hot Dipped Galvanised to AS4680

- S11 Where sealed tube members are hot dip galvanised, the fabricator shall provide drill holes as necessary.
- S12 All transport and erection damage, site welds etc., shall be reinstated to an equivalent finish to adjacent steelwork

MASONRY NOTES

- M1 All workmanship and materials shall be in accordance with as 3700.
- M2 All blockwork walls shall be constructed in grade 16 blocks (15mpa) according to as 2733. all Bricks shall have a minimum unconfined compressive strength of 20 mpa according to as 3600. the maximum unrestrained five year expansion of bricks shall be in accordance with nata test bo1. All masonry supporting or supported by concrete floors shall be provided with vertical joints to match any control joints in the concrete.
- M3 Non load bearing wall shall be separated from concrete above by 12mm thick close cell polyethelene strips.
- M4 No chases or recesses are permitted in the load bearing masonry without the approval of the engineer.
- M5 Mortar admixtures shall not be used without the written approval of the engineer. unless noted otherwise the nominal proportions by volume of mortar shall be 1 : 1 : 6 of cement, lime and sand. no plasticisers to be used in the mix.
- M6 Grout used to fill cavities and cores in reinforced masonry 15mpa and a slump of 230mm (+/- 25mm). maximum aggregate size of 10mm rounded gravel. nominal proportions shall be 1 : 0.3 : 3 : 2 of cement, lime, sand and aggregate and with a minimum cement content of 300 kg/cm. provide clean out holes at base of pilasters and every core of reinforced walls.
- M7 Horizontal joint reinforcement shall be provided at maximum 600 vertical spacing for all concrete blockwork, concrete brickwork, and calcium silicote brickwork.
- M8 Hollow blockwork openings greater than 600mm vertically or horizontally shall be trimmed at the sides and bottom by filling one core and reinforce with 1n12 extending 600mm past opening. the top of the opening shall have a reinforced lintel beam, arch bar or steel angle support as detailed. All ties and reinforcement shall have a minimum clear cover of 50mm to external face of masonry. All walls shall be tied or bonded at their intersections.
- M1 No cavity or core shall be filled to a height greater than 1200mm without suitable shoring. All masonry walls and piers supporting slabs and beams between concrete soffit and the top of the masonry element, denoted as 's.j.' throughout.
- M1 Provide vertical control joints at 10m maximum centres and 5m maximum from corners in all masonry walls, u.n.o. by as2870.
- M1 Backfill to retaining walls to be free draining granular material unless noted otherwise. provide subsoil drain to weep holes.
- M1 Do not construct masonry walls on suspended concrete slabs until slab has been stripped and de-propped.
- M1 All cavity construction to have galvanised/stainless steel wall ties installed as per clause 3.8, in as 3700.

SITE PREPARATION FOR SLABS ON GROUND

- P1 Strip topsoil containing organic matter. Proof roll fill sub grade and remove any soft zones.
- P2 Where additional fill is required to the underside of slabs on ground, non cohesive materials such as sand and gravel dust shall be placed by "controlled" compaction in horizontal layers of 200 mm (loose) maximum depth. This fill shall be compacted to at least 95% of Standard Maximum Dry Density (SMDD), in accordance with AS 1289.
- P3 For slabs on ground, sand 50 mm approximate thickness is to be spread as a levelling layer and well watered down.
- P4 Damp-proofing membrane unpunctured and taped at laps, is to be placed over the sand, sufficient membrane being provided at edges to return under brickwork. Where no brickwork, tape membrane to side of footing below ground.

FOUNDATION MAINTENANCE

FOUNDATION SOILS : All soils are affected by water. Silts are weakened by water and some sands can settle if heavily watered, but most problems arise on clay foundations. Clays swell and shrink due to changes in moisture content and the potential amount of the movement is implied in the site classification in Australian Standard AS2870, which is specified as follows:

- A Stable (Non-reactive).
- S Slightly Reactive.
- M Moderately Reactive.
- H Highly Reactive.
- E Extremely Reactive.

CLASS A & S SITES : Sands, silts and clays shall be protected from becoming extremely wet by adequate attention to site drainage and prompt repair of plumbing leaks.

CLASS M, H & E SITES : Sites classified as M, H, or E shall be maintained at essentially stable moisture conditions and extremes of wetting and drying prevented. This will require attention to the following :

Drainage of the site : The site shall be graded or drained so that water cannot pond against or near the house. The ground immediately adjacent to the house shall be graded to a uniform fall of 50 mm minimum away from the house over the first metre. The sub floor space for houses with suspended floors shall be graded or drained to prevent ponding where this may affect the performance of the footing system. The site drainage requirements shall be maintained for the economic life of the building.

Limitations on gardens : The development of the gardens shall not interfere with the drainage requirements or the sub floor ventilation and weep hole drainage systems. Garden beds adjacent to the house should be avoided. Care should be taken to avoid over watering of gardens close to the house footings.

Restrictions on trees and shrubs : Planting of trees should be avoided near the foundation of a house or neighbouring house on reactive sites as they can cause damage due to drying of the clay at substantial distances. To reduce, but not eliminate, the possibility of damage, tree planting should be restricted to a distance from the house of :

- 1.50 x mature height for Class E sites
- 1.00 x mature height for Class H sites
- 0.75 x mature height for Class M sites

Where rows or groups of trees are involved, the distance from the building should be increased. Removal of trees from the site can also cause similar problems.

Repair of leaks : Leaks in plumbing, including storm water and sewerage drainage should be repaired promptly.

The level to which these measures are implemented depends on the reactivity of the site. The measures apply mainly to masonry houses and masonry veneer houses. For frame houses clad with timber or sheeting, lesser precautions may be appropriate.

BRICK LINTEL SCHEDULE

OPENING SIZE (mm)	INTERNAL SKIN	EXTERNAL SKIN	END BEARING
UP TO 900mm	100 x 8mm FLAT BAR	100 x 6mm FLAT BAR	100 mm
1200	100 x 10mm FLAT BAR	100 x 8mm FLAT BAR	100 mm
1500	100 x 100 x 8mm ANGLE	100 x 100 x 6mm ANGLE	150 mm
2100	150 x 100 x 8mm ANGLE	150 x 100 x 6mm ANGLE	150 mm
2400	150 x 100 x 8mm ANGLE	150 x 100 x 8mm ANGLE	150 mm
2700	150 x 100 x 10mm ANGLE	150 x 100 x 10mm ANGLE	150 mm
3000	150 x 100 x 12mm ANGLE	150 x 100 x 12mm ANGLE	150 mm

*ALL STEEL LINTELS TO BE HOT DIPPED GALVANIZED

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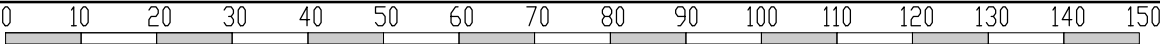
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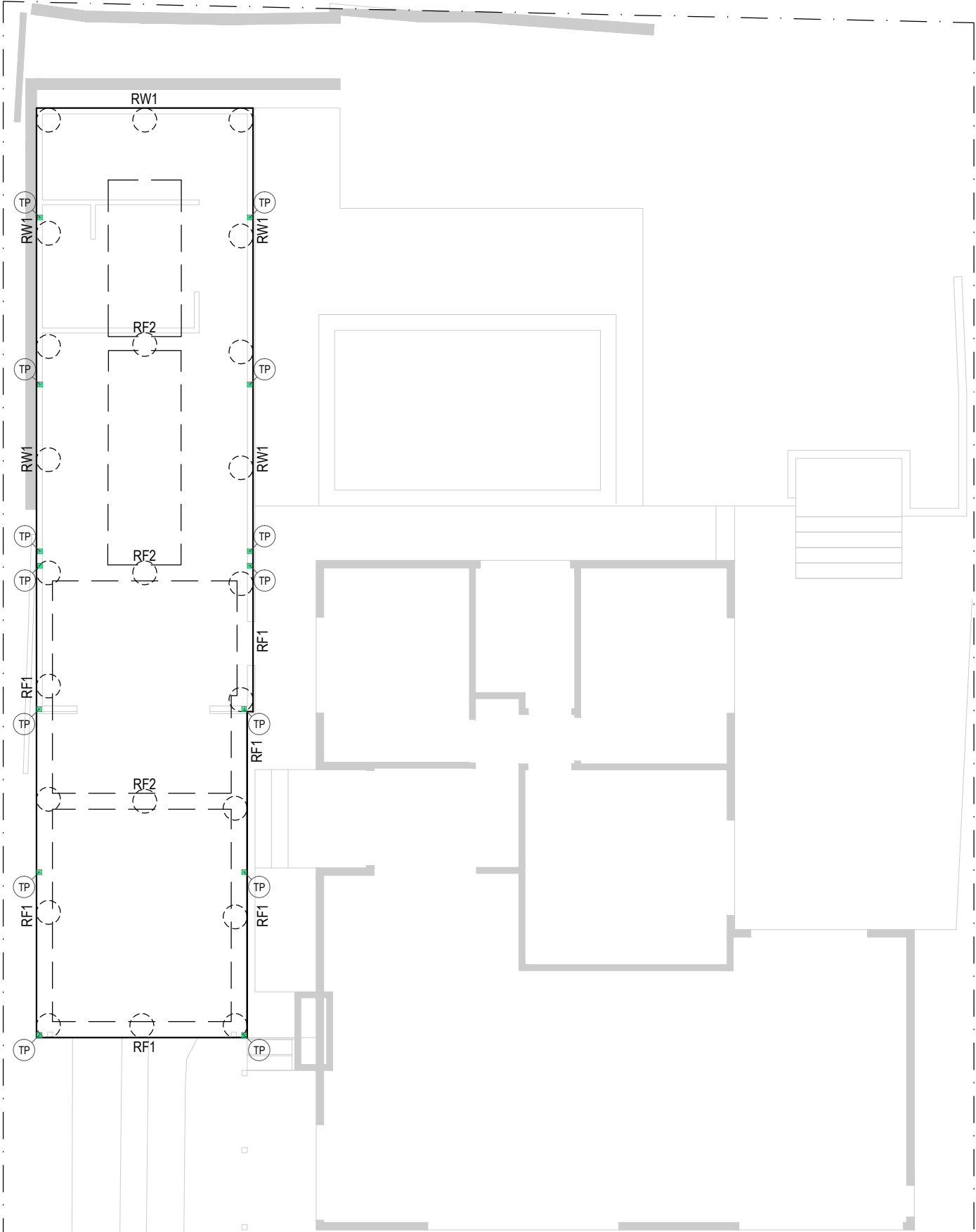
Rev.	Description	By.	App.	Date
B	ISSUED FOR C.C.	G.N.	M.A.	04.11.2020
A	ISSUED FOR C.C.	J.J.	M.A.	04.11.2020



Client	SALLY RHYS JONES
Project	87 DOLPHIN CRES, AVALON BEACH

Title	COVER SHEET	Design	M.A.	Drawn	J.J.
ISSUED FOR CONSTRUCTION CERTIFICATE		Project Number 20 H 579	Drawing Number S00		





GROUND FLOOR SLAB PLAN

SCALE 1:100

RAFT SLAB NOTES:

- 1. IN LOCATIONS WHERE BEARING IS INADEQUATE OR NON UNIFORM, PROVIDE PIERS IN ACCORDANCE WITH ENGINEERS INSTRUCTIONS ON SITE. IT IS THE BUILDERS RESPONSIBILITY TO ADVISE THE ENGINEER OF ANY SUCH CONDITION PRIOR TO PLACING REINFORCEMENT.
- 2. ALL TOPSOIL AND GRASS ROOTS TO BE REMOVED FROM THE AREA ON WHICH THE SLABS ARE TO REST. FILLING TO BE INERT (NON REACTIVE) GRANULAR MATERIAL, WHERE REQUIRED, WELL WATERED AND COMPACTED IN 200 MM. MAX. LAYERS IN ACCORDANCE WITH AS2870.
- 3. POUR SLABS ON FORTECON MEMBRANE LAID OVER 50 COMPACTED SAND BED
- 4. ALL EXPOSED SLABS TO BE WATERPROOFED WITH APPROVED SYSTEMS
- 5. NOTE: ALL SLABS ON GROUND TO BE TYPE S1 UNLESS FILL EXCEEDS 600MM ACCORDINGLY IF FILL EXCEEDS 600MM, USE TYPE S2.

SLAB S1 TO BE 100 THICK WITH SL82 MESH TOP THROUGHOUT.
SLAB S2 TO BE 150 THICK WITH SL82 MESH TOP AND BTM. THROUGHOUT.

NOTES:

- 1. DRAWING TO BE READ IN CONJUNCTION WITH ARCHITECTURALS.
- 2. REFER TO ARCHITECTURAL DRAWINGS FOR ALL SETOUT, LEVELS, FALLS ETC.
- 3. GEOTECHNICAL ENGINEER TO VERIFY THE SAFE BEARING CAPACITY OF FOUNDATION MATERIAL PRIOR TO CONSTRUCTION.

CONCRETE QUALITY				
ELEMENT	SLUMP	AGGREGATE MAX. SIZE	CEMENT TYPE	f _c
SLAB ON GROUND	80mm	20mm	A	32 MPa

REINFORCEMENT COVER SCHEDULE				
MEMBER	COVER			EXPOSURE CLASSIFICATION
	TOP	BOTTOM	SIDES	
EXTERNAL SLAB	40mm	40mm	40mm	A2
INTERNAL SLAB	30mm	30mm	30mm	A1

FOUNDATION NOTE

THE FOOTINGS SHALL BE FOUNDED ON **STIFF CLAY** MATERIAL WITH A MINIMUM SAFE BEARING CAPACITY OF **200 kPa**. IF VIRGIN MATERIAL NOT FOUND THEN PIERS MUST BE PROVIDED AS PER PLAN.

BORED PIER NOTE

BORED PIERS SHALL BE USED IN ACCORDANCE WITH THE FOLLOWING:

- ALL PIERS TO BE 450Ø MASS CONCRETE (f_c=25MPa) U.N.O
- SET OUT AS PER THE ADJACENT PLAN.
- PIERS TO BE FOUND ON **VERY STIFF CLAY** THAT IS UNIFORM & STABLE THROUGHOUT.
- FOUNDED A MINIMUM OF **700mm** BELOW EXISTING GROUND LEVEL.
- ALL PIER GREATER THAN 2m or THROUGH FILL GREATER THAN 1m DEEP or CLASS P SITE TO BE REINFORCED WITH: 4N16 + R10-300 HELICAL TIES
- MINIMUM SAFE **END BEARING OF 300 kPa & SKIN FRICTION OF 30 kPa**.
- WHERE ROCK IS ENCOUNTERED, ALL PIERS TO BE FOUNDED OFF ROCK THAT IS UNIFORM & STABLE WITH A MINIMUM SAFE END BEARING OF **600 kPa**.

IMPORTANT:
IT SHOULD BE NOTED THAT EXISTING STRUCTURE AND DETAILS HAVE BEEN ASSUMED BASED ON LOCAL KNOWLEDGE. IN ADDITION, PLANS AND DETAILS ISSUED FOR THIS PROJECT MAY BE SUBJECT TO CHANGE DURING CONSTRUCTION. IT IS THE BUILDERS RESPONSIBILITY TO ADVISE HYTEN ENGINEERING IF CHANGES ARE REQUIRED &/OR WHAT IS INDICATED ON THE PLANS DO NOT CORRELATE TRUE TO SITE &/OR DURING CONSTRUCTION.

EXISTING STRUCTURE HAS BEEN ASSUMED TO BE ADEQUATE. IF THIS IS NOT TRUE &/OR THERE APPEARS TO BE STRUCTURAL ADEQUACY CONCERNS OF THE EXISTING STRUCTURE THEN IT IS THE BUILDERS RESPONSIBILITY TO ADVISE HYTEN ENGINEERING PRIOR OR DURING CONSTRUCTION.

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Client	SALLY RHYS JONES
Project	87 DOLPHIN CRES, AVALON BEACH

Title	GROUND FLOOR SLAB PLAN
ISSUED FOR	CONSTRUCTION CERTIFICATE
Project Number	20 H 579

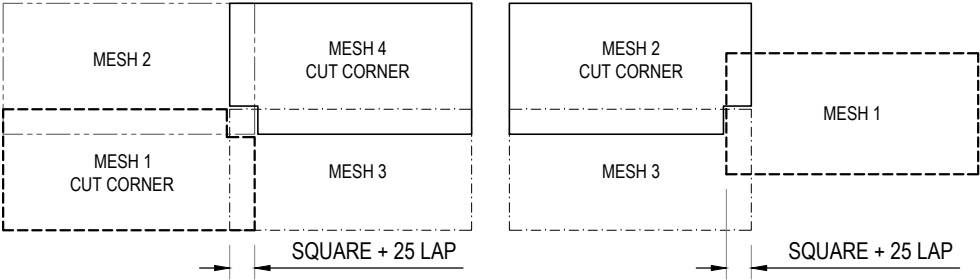
Design	Drawn
M.A.	J.J.
Drawing Number	S01

RAFT FOOTING: RF2

'T' / CROSS JUNCTION

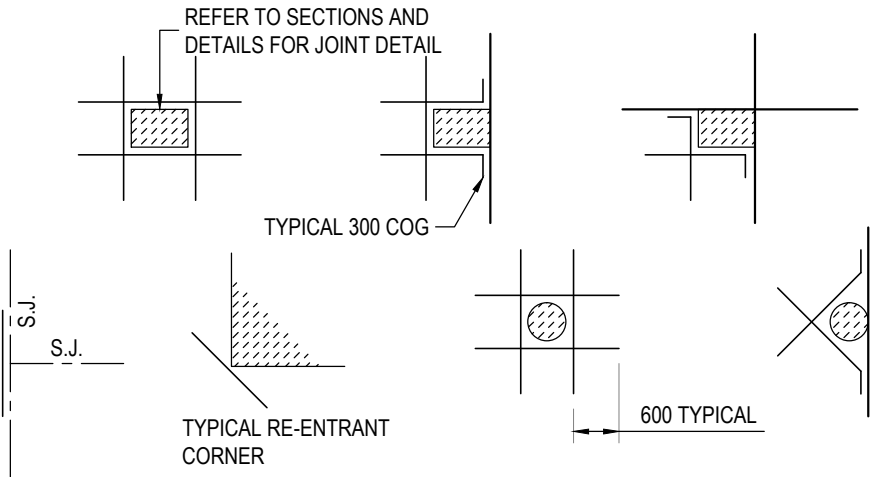
CORNER JUNCTION

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MESH IN SLAB ON GROUND LAPPING DETAIL

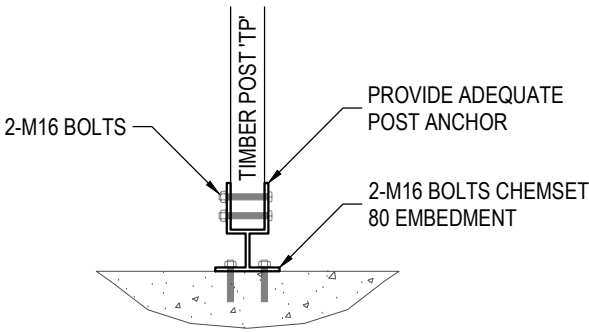
ALL MESH LAPS TO COMPLY WITH ALTERNATE DIAGRAMS AND CONSTRUCTION NOTES



SLAB ON GROUND - ALL TRIMMERS TO BE 2N12 TOP U.N.O.
SUSPENDER SLAB - ALL TRIMMERS TO BE 3 N16 T&B. U.N.O.

TYP. TRIMMER DETAIL

AT ALL COLUMNS, WALLS, PITS, FLOOR WASTES, ETC.
THAT CAUSE A PENETRATION THROUGH THE SLAB



TYP. TIMBER POST ANCHOR DETAIL

SCALE 1:20

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Client	SALLY RHYS JONES
Project	87 DOLPHIN CRES, AVALON BEACH

Title	GROUND FLOOR SLAB DETAILS
ISSUED FOR	CONSTRUCTION CERTIFICATE
Project Number	20 H 579

Design	Drawn
M.A.	J.J.
Drawing Number	S03

DESIGN LOADS:

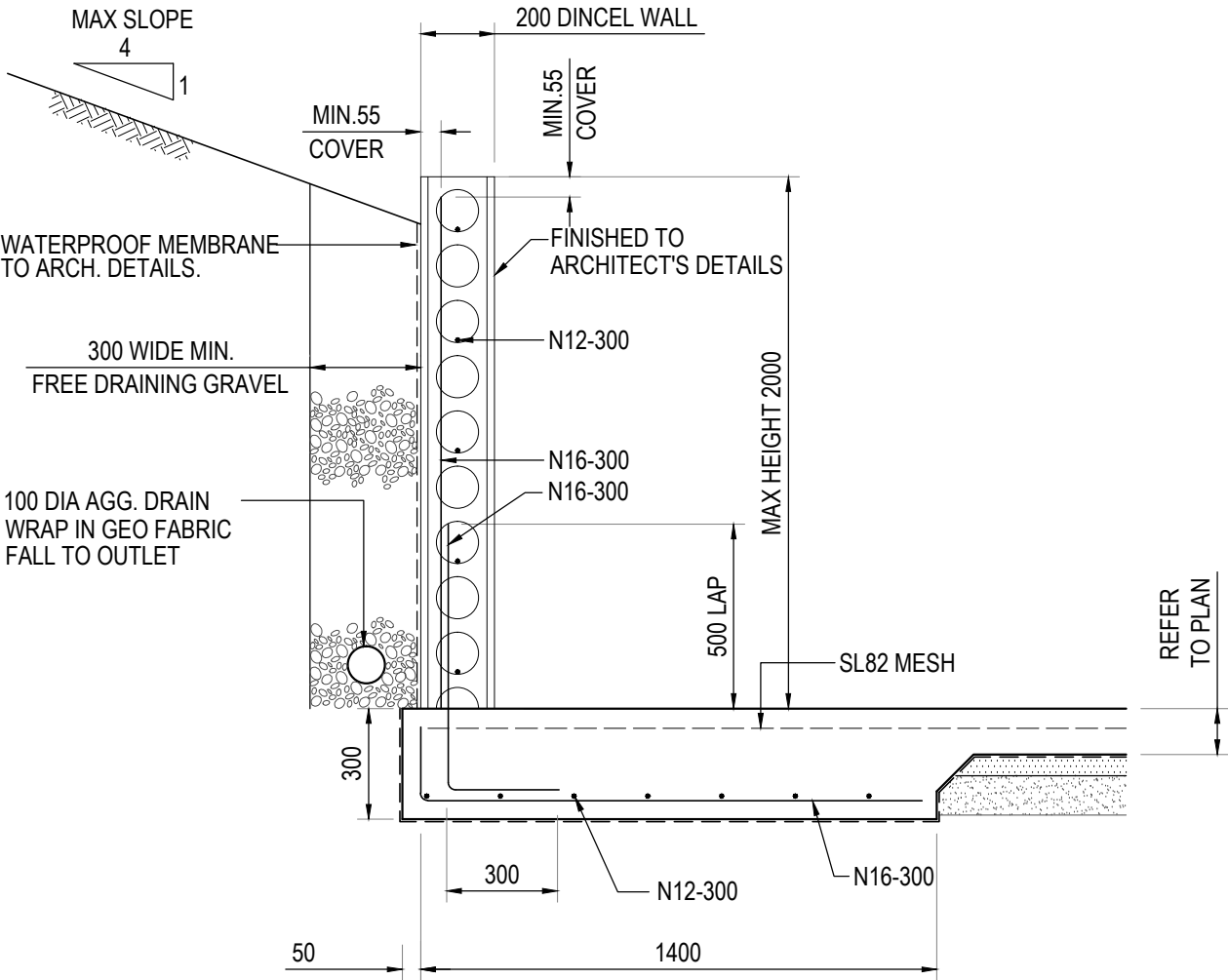
- 8.0 kPa EQUIVLENT FLUID PRESSURE
- 2t/sqm BACKFILL DENSITY
- MAX 1:4 SLOPE BEHIND WALL
- MIN ALLOWABLE BEARING CAPACITY 300 kPa (FOUND IS STIFF CLAY)

NOTES:

1. DRAWING TO BE READ IN CONJUNCTION WITH ARCHITECTURALS.
2. REFER TO ARCHITECTURAL DRAWINGS FOR ALL SETOUT, LEVELS, FALLS ETC.
3. GEOTECHNICAL ENGINEER TO VERIFY THE SAFE BEARING CAPACITY OF FOUNDATION MATERIAL PRIOR TO CONSTRUCTION.

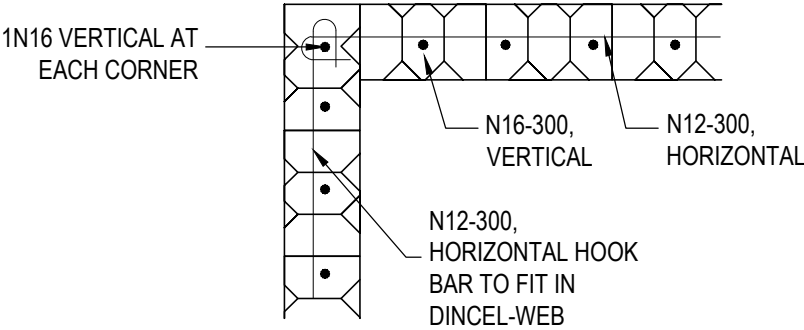
CONCRETE QUALITY				
ELEMENT	SLUMP	AGGREGATE MAX. SIZE	CEMENT TYPE	f _c
FOOTING	80mm	20mm	A	25 MPa

REINFORCEMENT COVER SCHEDULE				
MEMBER	COVER			EXPOSURE CLASSIFICATION
	TOP	BOTTOM	SIDES	
STRIP FOOTING	40mm	40mm	40mm	A1



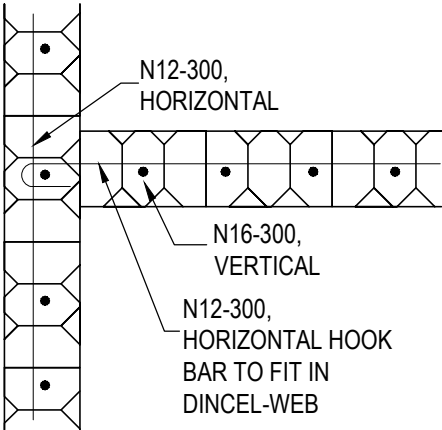
RETAINING WALL 'RW1'

SCALE 1:20



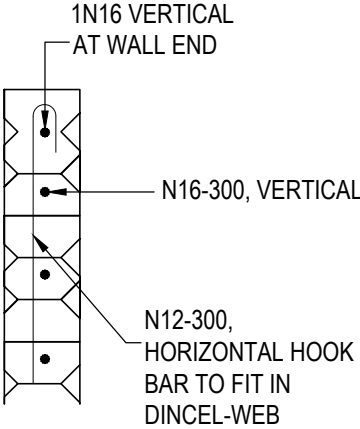
TYP. CORNER DETAIL

SCALE 1:20



TYP. 'T' INTERSECTION DETAIL

SCALE 1:20



TYP. END DETAIL

SCALE 1:20

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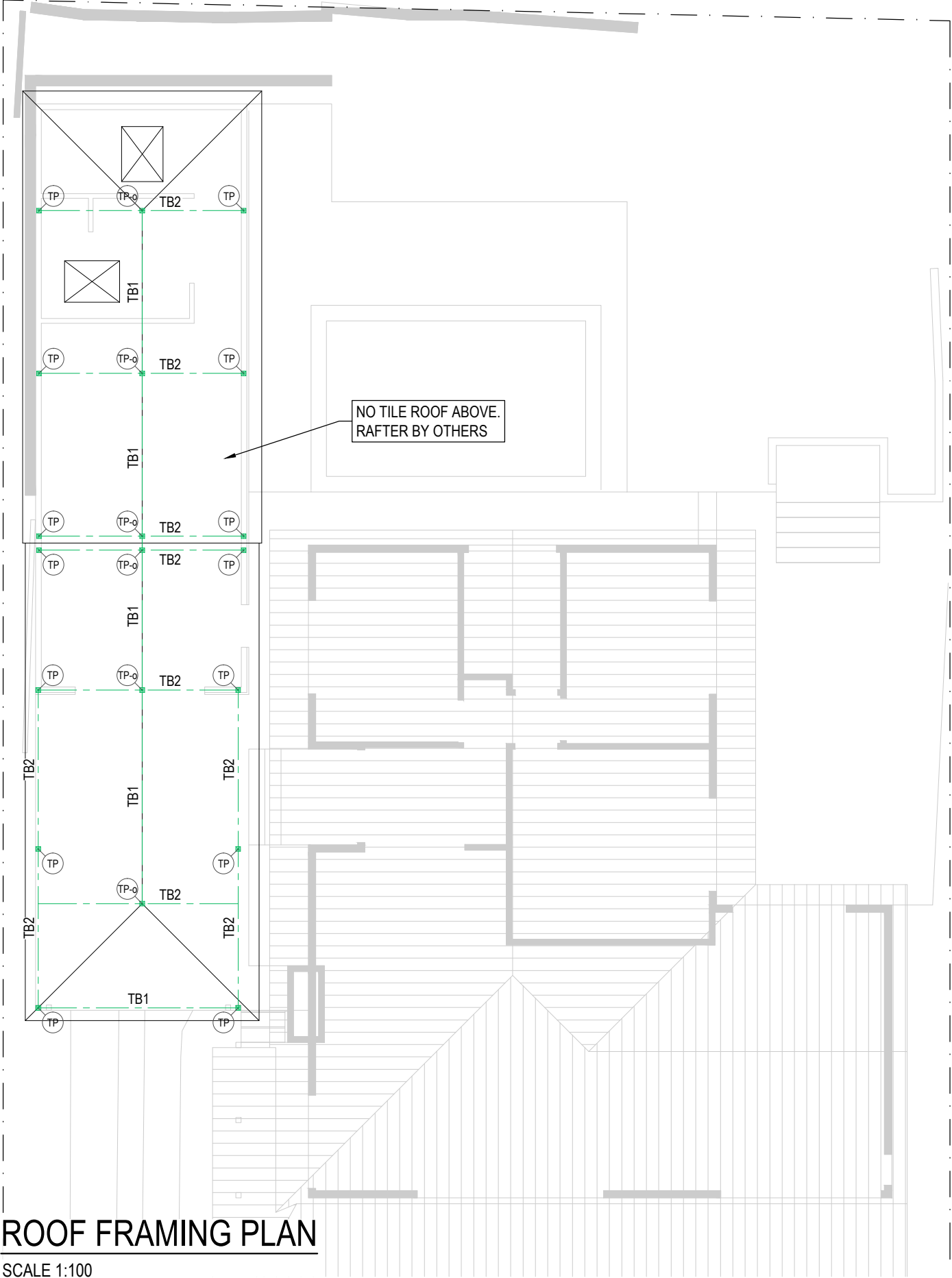


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Client	SALLY RHYS JONES
Project	87 DOLPHIN CRES, AVALON BEACH

Title		RETAINING WALL SECTION AND DETAILS
ISSUED FOR	CONSTRUCTION CERTIFICATE	Project Number 20 H 579

Design	Drawn
M.A.	J.J.
Drawing Number	
S04	



ROOF FRAMING PLAN

SCALE 1:100

FRAMING NOTES:

ALL DETAILS TO BE CONFIRMED DURING CONSTRUCTION
ALL EXPOSED TIMBER TO BE PRESSURE TREATED TO AS1684
ALL TIMBER TO BE IN ACCORDANCE TO AS1684
ROOF TO BE BUILT IN ACCORDANCE TO AS1684

STRUCTURAL MEMBER SCHEDULE			
MARK	DESCRIPTION	SIZE	COMMENTS
TP	TIMBER POST	90 x 90 F7 or 3 / 90 x 45 TIMBER STUD	TREATED PINE
TB1	TIMBER BEAM	2 / 200 x 45 hySPAN or 240 x 63 hySPAN	-
TB2	TIMBER BEAM	2 / 240 x 45 hySPAN	-

LEGEND

TP

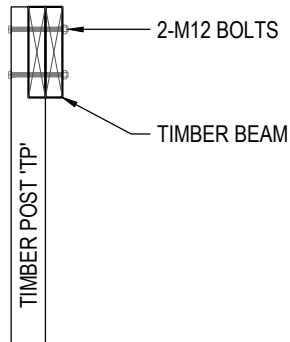
PROPOSED TIMBER POST UNDER

TP-O

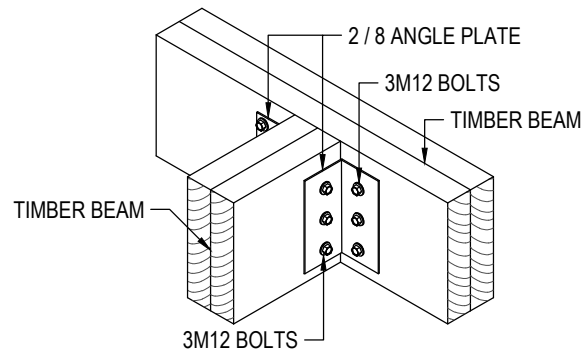
PROPOSED TIMBER POST OVER

TB#

PROPOSED TIMBER BEAM



TYP. TIMBER BEAM TO
TIMBER POST DETAIL
N.T.S.



TYP. TIMBER BEAM
CONNECTION DETAIL
N.T.S.

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If HYTEN Engineering has not been engaged to carry out
structural inspections, no certificate will be issued.

Rev.	Description	By.	App.	Date
B	ISSUED FOR C.C.	G.N.	M.A.	04.11.2020
A	ISSUED FOR C.C.	J.J.	M.A.	04.11.2020



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Client	SALLY RHYS JONES
Project	87 DOLPHIN CRES, AVALON BEACH

Title		Design	Drawn
ROOF FRAMING DETAILS		M.A.	J.J.
ISSUED FOR		Project Number	Drawing Number
CONSTRUCTION CERTIFICATE		20 H 579	S06