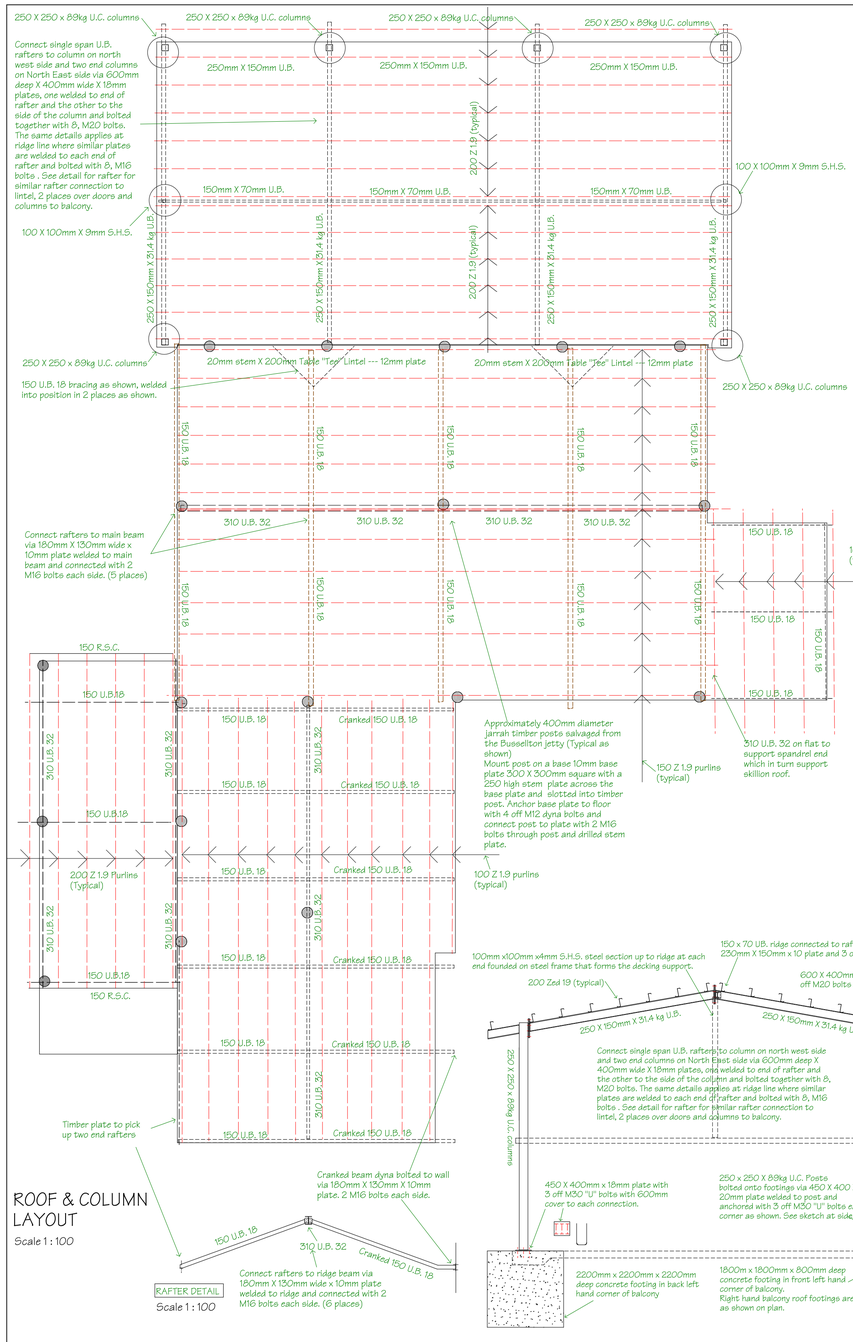
250 X 250 x 89kg U.C. columns
Connect single span U.B. rafters to column on north west side and two end columns on North East side via 600mm deep X 400mm wide X 15mm plates, one welded to end of rafter and the other to the side of the column and bolted together with 8, M20 bolts. The same details applies at ridge line where similar plates are welded to each end of rafter and bolted with 8, M16 bolts . See detail for rafter for similar rafter connection to lintel, 2 places over doors and columns to balcony.
250mm X 150mm U.B.
200 Z 1.9 (typical)
100 X 100mm X 9mm S.H.S.
150mm X 70mm U.B.
250 X 150mm X 31.4 kg U.B.
20mm stem X 200mm Table "Tee" Lintel --- 12mm plate
150 U.B. 18 bracing as shown, welded into position in 2 places as shown.
150 U.B.18
310 U.B. 32
Connect rafters to main beam via 150mm X 130mm wide x 10mm plate welded to main beam and connected with 2 M16 bolts each side. (5 places)
100 Z 1.9 purlins (typical)
150 R.S.C.
Cranked 150 U.B. 18
200 Z 1.9 Purlins (typical)
Timber plate to pick up two end rafters
Cranked beam dyna bolted to wall via 180mm X 130mm X 10mm plate. 2 M16 bolts each side.
RAFTER DETAIL
Scale 1 : 100
Connect rafters to ridge beam via 180mm X 130mm wide x 10mm plate welded to ridge and connected with 2 M16 bolts each side. (6 places)
Approximately 400mm diameter jarrah timber posts salvaged from the Busselton jetty (Typical as shown)
Mount post on a base 10mm base plate 300 X 300mm square with a 250 high stem plate across the base plate and slotted into timber post. Anchor base plate to floor with 4 off M12 dyna bolts and connect post to plate with 2 M16 bolts through post and drilled stem plate.
150 Z 1.9 purlins (typical)
310 U.B. 32 on flat to support spandrel end which in turn support skillion roof.
ROOF & COLUMN LAYOUT
Scale 1 : 100
100mm x100mm x4mm S.H.S. steel section up to ridge at each end founded on steel frame that forms the decking support.
200 Zed 19 (typical)
150 x 70 U.B. ridge connected to rafters via a 220mm X 150mm x 10 plate and 3 off M 16 bolts.
600 X 400mm x 18mm plate with 8 off M20 bolts to each connection.
Connect single span U.B. rafters to column on north west side and two end columns on North East side via 600mm deep X 400mm wide X 15mm plates, one welded to end of rafter and the other to the side of the column and bolted together with 8, M20 bolts. The same details applies at ridge line where similar plates are welded to each end of rafter and bolted with 8, M16 bolts . See detail for rafter for similar rafter connection to lintel, 2 places over doors and columns to balcony.
450 X 400mm x 18mm plate with 3 off M30 "U" bolts with 600mm cover to each connection.
250 x 250 X 89kg U.C. Posts bolted onto footings via 450 X 400 X 20mm plate welded to post and anchored with 3 off M30 "U" bolts each corner as shown. See sketch at side.
2200mm x 2200mm x 2200mm deep concrete footing in back left hand corner of balcony
1800m x 1800mm x 800mm deep concrete footing in front left hand corner of balcony.
Right hand balcony roof footings are as shown on plan.
BALCONY ROOF ENGINEERING DETAILS
Scale 1 : 75
250 X 250 x 89kg U.C. Posts bolted onto footings via 450 X 400 X 20mm plate welded to post and anchored with 3 off M30 "U" bolts each corner as shown. See sketch at side.
FOOTING 2200 X 2200 X 800mm deep
FOOTING 2200 X 2500 X 800mm deep
CROSSED BOX INDICATES SLAB UNDER CONTAINERS
Slab is under containers is 200mm thick generally with 9mm diameter welded mesh reinforcing steel 100mm X 150mm fabric with 70mm top cover. the slab is thickened around the perimeter to 400mm thick with 400mm base.
FOOTING 1800 X 1800 X 800mm deep
150 X 150 X 24kg U.C. Column connected to to footing with M16 with 2 off M16 "U" bolts and via a welded plate to beam over with 4 M16 bolts.
Limestone block mase retaining wall, made form reconstituted Limestone blocks 1000mm X 400mm X 400mm stepped out one block width (400mm) for every 800mm rise in height.
150 X 150 X 24kg U.C. Column connected to to footing with M16 with 2 off M16 "U" bolts and via a welded plate to beam over with 4 M18 bolts.
FOOTING 1800 X 1800 X 800mm deep
250 x 250 X 89kg U.C. Posts bolted onto footings via 450 X 400 X 20mm plate welded to post and anchored with 3 off M30 "U" bolts each corner as shown. See sketch at side.
Hatched area indicates new slab
Slab is concrete 150mm thick generally with 9mm diameter welded mesh reinforcing steel 100mm X 150mm fabric with 70mm top cover.
Thickening at edge 400 wide and 400 deep, F8 Trench Mesh reinforcing
Thickening
150 x 75 X 18kg U.B.
310 U.B. 32
150 x 150mm U.B. 18 standing posts cast into concrete footing 4 places.
150 x 150mm U.B. 18 beam welded to top of posts to form frame for floor modules.
Vertical hatch indicates deck modules
100 X 100mm X 10mm Angle iron dyna bolted to wall base every 600mm M12 bolts.
Ledge to accept floor modules
Thickening at edge 400 wide and 400 deep, F8 Trench Mesh reinforcing
Thickening.
EXISTING
SLABS, FOOTINGS, RETAINING WALLS & DECK FLOOR LAYOUT
Scale 1 : 100
200 x 200 Tee Lintel coach bolted into top of timber posts
250 x 150mm U.B.
150 U.B.18 rafter
600 x 400mm x 20mm plate one welded to bracket as shown and the othe welded to end of rafter. Bolt together with 8 off M20 bolts
SECTION VIEW
100mm X 100mm X 6mm S.H.S. brackets welded to lintel
Box gutter (red) sitting on brackets
400mm diameter timber post (typical)
Purlins not shown on plan view.
150 U.B.18 bracing welded into place
PLAN VIEW
BOX GUTTER DETAIL OVER BALCONY
Scale 1 : 50
REVISED PLAN SHOWING REVISED SEWERAGE SYSTEM November 2018
Updated Construction Drawings for CHALET RIGI
CDC No. 201501706 issued by Quintin Kleyn, Hendry Group on 27/10/2015.
Extensions & Alterations --- Reissued Building License No. 2015/1189 dated 2/12/2015 by Kalamunda Council.
Outbuilding Kiosk and Toilets --- Reissued Building License No. 2015/1195 dated 3/3/2016 by Kalamunda Council
As-Built Engineering Sign Off & Structural Adequacy
Approved by: 27th July, 2018
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Drawn by: Dennis Sheppard, Sheppard Desings
Detailed Engineering and Manufacturing Details by Ahmet Atak, Letizia Building and Michael Coote. As built details reviewed and inspected by Michael Coote
Engineering Design and Specification Reviewed, by Timeloc Pty Ltd, trading as Just SIPS
JUST SIPS STRUCTURAL INSULATED PANEL SYSTEMS
Environmentally Sustainable Building Solutions
Timeloc Pty Ltd trading as Just SIPS
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AS CONSTRUCTED ENGINEERING
REVISED PLAN SHOWING REVISED WASTE WATER TREATMENT AND EFFLUENT SYSTEM MAY 14th 2019
SHEPPARD
DESIGN & DRAFTING SERVICES
Incorporating Celestial Photographics
Member BDAWA
27 Salisbury Avenue, South Perth WA 6151.
Ph/Fax : 9367 7319. Email : dennisshep@bigpond.net.au
PROPOSED EXTN's & ALTN's TO CHALET RIGI FOR SAFERIGHT INTERNATIONAL.
No. 415, MUNDARING WEIR ROAD, PIESSE BROOK.
SCALE As noted.
DRAWN D.S.
DATE June 2016
Dwg No. Annexure 1