

SLAB EDGE BEAMS TO BE SUPPORTED BY 400mm DIAMETER PIERS SPACED AT 2.0m MAXIMUM CENTRES EXCAVATED TO FIRM UNIFORM NATURAL GROUND WITH AN ALLOWABLE SAFE BEARING CAPACITY OF AT LEAST 300kPa. IF ROCK IS ENCOUNTERED IN TRENCHES OR PIER HOLES THE ENTIRE EDGE BEAM MUST BE PIERED TO IT, BUT THE DIAMETER OF THE PIERS MAY BE REDUCED TO 300mm

THE SLAB SHOWN ON THIS DRAWING HAS BEEN DESIGNED FOR A CLASS "M" SITE IN ACCORDANCE WITH THE REQUIREMENTS OF AS2870 AND AS3600 AND IF CONSTRUCTED IN ACCORDANCE WITH THE DETAILS SHOWN ON THIS DRAWING WILL BE STRUCTURALLY ADEQUATE FOR THE SINGLE STOREY BRICK VENEER ADDITION ON THIS SITE.

THE DESIGN OF THESE STRUCTURAL DRAWINGS HAVE BEEN BASED ON AN "N2" WIND AREA & CLASS "M" SITE CLASSIFICATION. WIND AREA AND SITE CLASSIFICATION TO BE CONFIRMED BY THE APPROPRIATE COUNCIL ENGINEERING OFFICER. AMENDMENTS MAY BE REQUIRED IF WIND RATING & SITE CLASSIFICATION DIFFERS.

PLAN - CONCRETE PIER & FOUNDATION SLAB LAYOUT

Overlap fabric one whole uncut wire panel plus 25mm minimum at splices.

400mm diameter piers spaced at 2.0m maximum centres excavated to firm uniform natural ground

Concrete Notes:

- This drawing is to be read in conjunction with the Architectural drawing and specifications.
- Workmanship and materials to comply with AS3600 and associated Australian Standards.
- Characteristic concrete compressive strength in accordance with AS3600 to be 25MPa.
- Concrete slump to be 80mm.
- Concrete to be mechanically vibrated during placing.
- Cure concrete by keeping constantly damp for at least 5 days after placing.
- Reinforcement to be supported on bar chairs spaced at every 5th wire in both directions.
- Maximum depth of filling to be 900mm
- Filling to be thoroughly compacted in shallow layers by multiple passes of earth moving equipment.
- Top of filled embankment to be not less than 1.0m from edge of slab. Filled embankment to be suitably retained or battered off at a stable slope and protected against erosion.
- Grade finished ground surface to divert water away from slab and to prevent ponding.
- Termite protection to be in accordance with AS3660.1-1995 and Council's requirements.
- Construction requirements and site maintenance outlined in AS2870-1996 are to be followed. Performance expectations set out in AS2870-1996 Appendix B are acceptable. Refer also to CSIRO Information sheet 10-91 "Guide to house owners on foundation maintenance and footing performance" - a copy of which is available from our office.

THE CONCRETE PIER LAYOUT SHOWN ABOVE IS AN APPROXIMATE INDICATION ONLY. THE EXACT NUMBER AND LOCATION OF ALL THE SUPPORT PIERS ARE TO MATCH THE EXISTING BEARER LOCATIONS AND ARE TO BE DETERMINED ON SITE BY THE BUILDER PRIOR TO THE ORDERING OF THE MATERIALS AND THE COMMENCEMENT OF ANY BUILDING WORK.

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STRUCTURALLY SOUND CONDITION CERTIFICATION:

This is to certify an inspection was made of the existing cottage located at 51 Fitzroy Road, Lambton on Sunday the 25th of February 2018. The existing cottage is of timber framed, with timber weatherboard style cladding construction, timber floor bearers joists and timber roof framing. The roof consists of terracotta roof tiles. We are satisfied the cottage is of a structurally sound condition and is suitable for re-siting to an N2 wind classified area in accordance with Australian Standard AS2870.

PROPOSED WORKS STRUCTURAL CERTIFICATION:

This is to certify that we have checked the design of the concrete footing pad and reinforced concrete foundation slab details on this drawing and are satisfied that they are structurally adequate for a class "M" site in accordance with AS2870 and they are adequate for the proposed relocated existing cottage and brick veneer addition to be constructed and attached to the existing cottage

Approved:
Trevor B. HALL B.Sc (Eng), F.I.E. Aust, C.P. Eng.

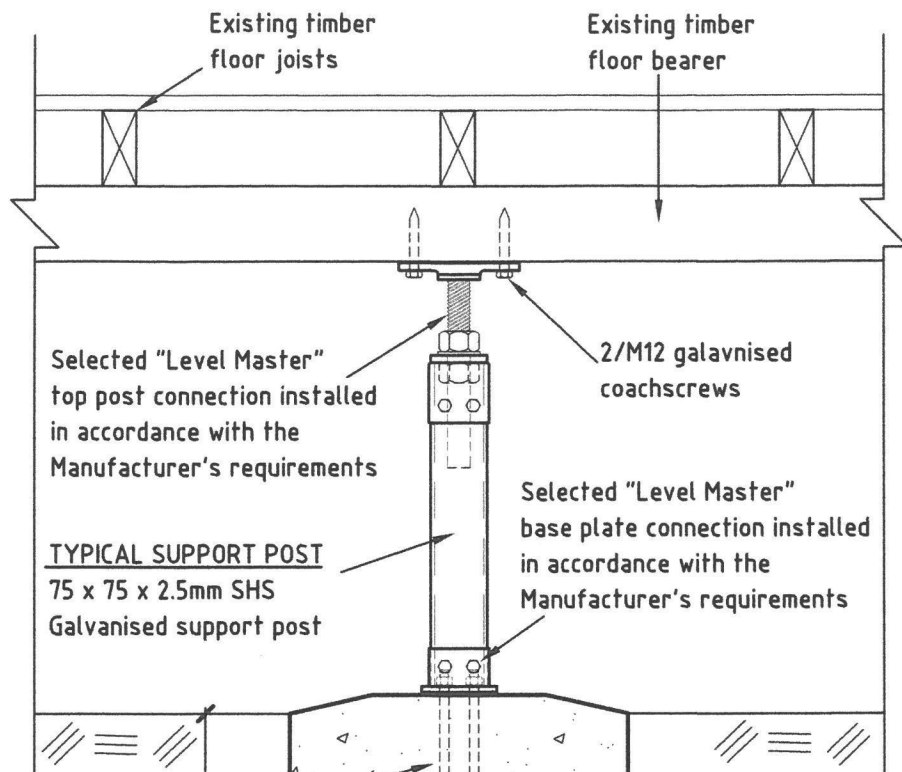
Amendments	Approved
Designed: T.B Hall	Date: 4th June 2018
	Ref No. 105055-1

WILSON'S QUALITY DRAFTING & DESIGN.
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DO NOT SCALE OFF DRAWING use all specified dimensions.

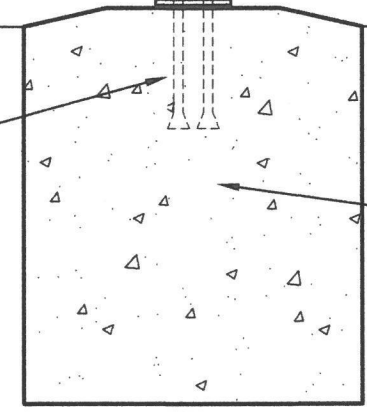
ISSUE	DATE	REVISION

SCALES: 1:100
DRAWN: B. Wilson
REF No. EZ02032018
SHEET: S1 ISSUE:
PROPOSED SECOND DWELLING AT LOT 1, DP545845, No.79 MAYO ROAD, LLANDILO, NSW, 2747. FOR: MR E. & MRS F. ZARELLA.
STRUCTURAL DETAILS



2/M12 galvanised chemset anchors
165mm embedment

500
minimum

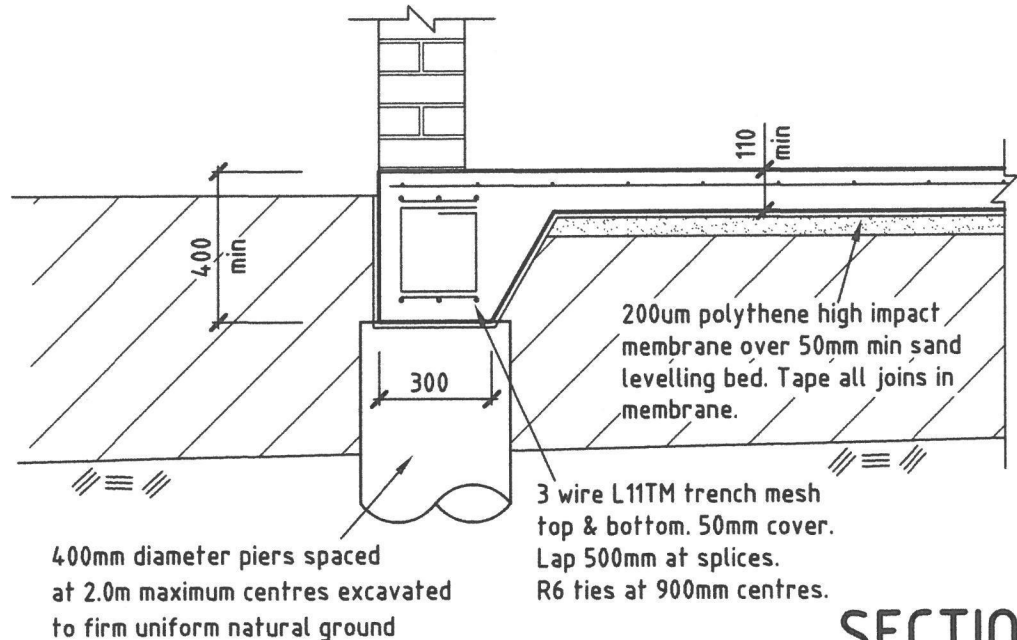


450
diameter

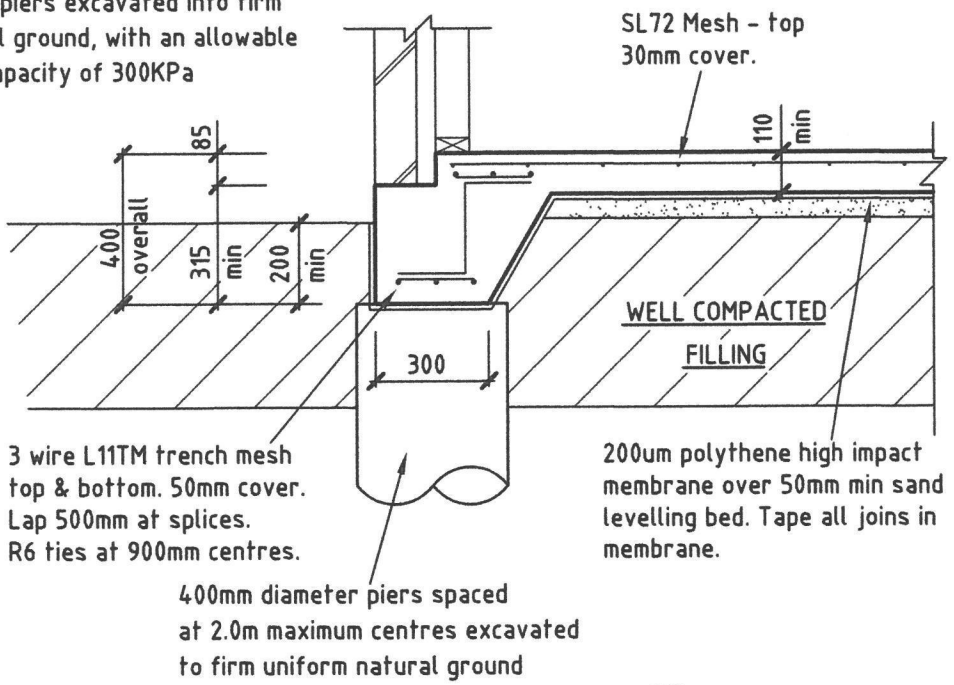
450mm diameter x 500mm minimum deep mass concrete piers excavated into firm uniform natural ground, with an allowable safe bearing capacity of 300KPa

DETAIL - TYPICAL CONCRETE SUPPORT PAD FOR STEEL SUPPORT POSTS.

SCALE 1:10



SECTION A
SCALE 1:20



SECTION B
SCALE 1:20

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PROPOSED WORKS STRUCTURAL CERTIFICATION:
This is to certify that we have checked the design of the concrete footing pad and reinforced concrete foundation slab details on this drawing and are satisfied that they are structurally adequate for a class "M" site in accordance with AS2870 and they are adequate for the proposed relocated existing cottage and brick veneer addition to be constructed and attached to the existing cottage

Approved: *Trevor B. Hall*
Trevor B. HALL B.Sc (Eng), F.I.E. Aust, C.P. Eng.

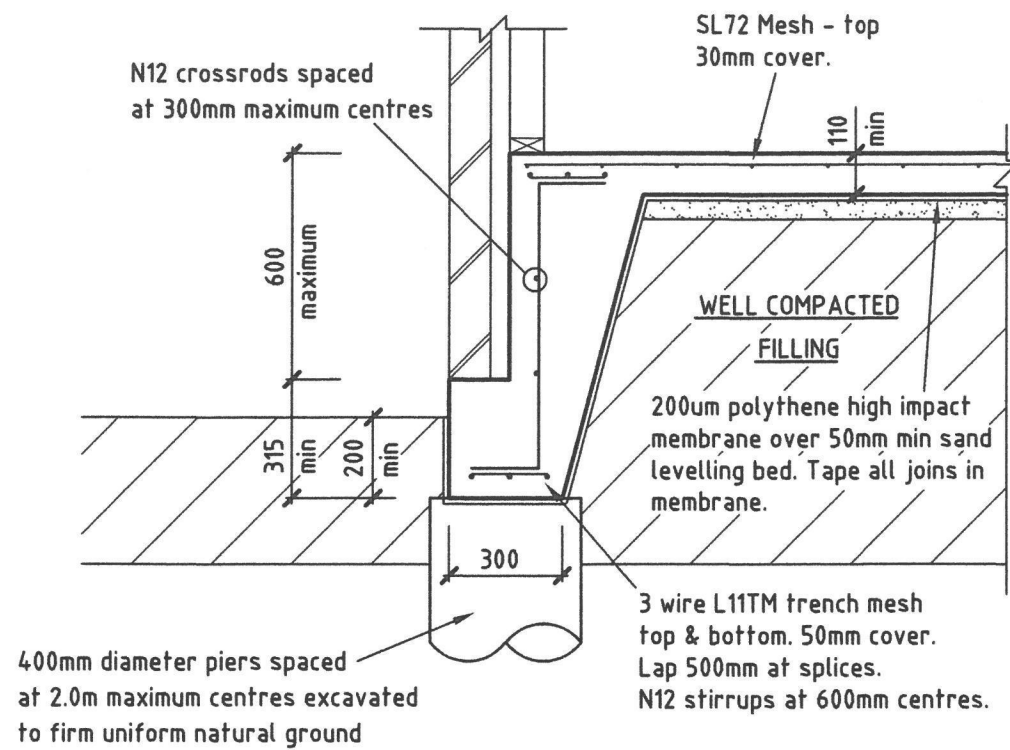
Amendments	Approved
Designed: T.B Hall	Date: 4th June 2018
Ref No. 105055-2	

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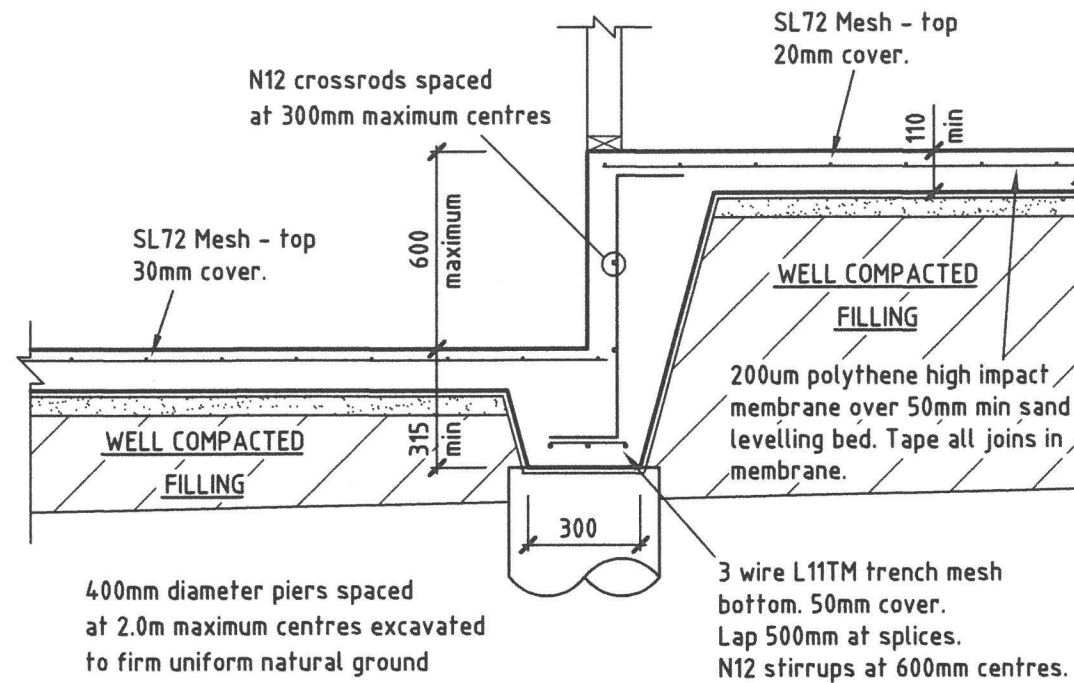
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ISSUE	DATE	REVISION

SCALES: 1:10, 1:20
DRAWN: B. Wilson
REF No. EZ02032018
SHEET: S2 ISSUE:
PROPOSED SECOND DWELLING AT LOT 1, DP545845, No.79 MAYO ROAD, LLANDILO, NSW, 2747. FOR: MR E. & MRS F. ZARELLA.
STRUCTURAL DETAILS



SECTION C
SCALE 1:20



SECTION D
SCALE 1:20

DETAIL - DEEPENED EDGE BEAM RECESS.



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PROPOSED WORKS STRUCTURAL CERTIFICATION:

This is to certify that we have checked the design of the concrete footing pad and reinforced concrete foundation slab details on this drawing and are satisfied that they are structurally adequate for a class "M" site in accordance with AS2870 and they are adequate for the proposed relocated existing cottage and brick veneer addition to be constructed and attached to the existing cottage

Approved:
Trevor B. HALL B.Sc (Eng), F.I.E. Aust, C.P. Eng.

Amendments	Approved
Designed: T.B Hall	Date: 4th June 2018 Ref No. 105055-3

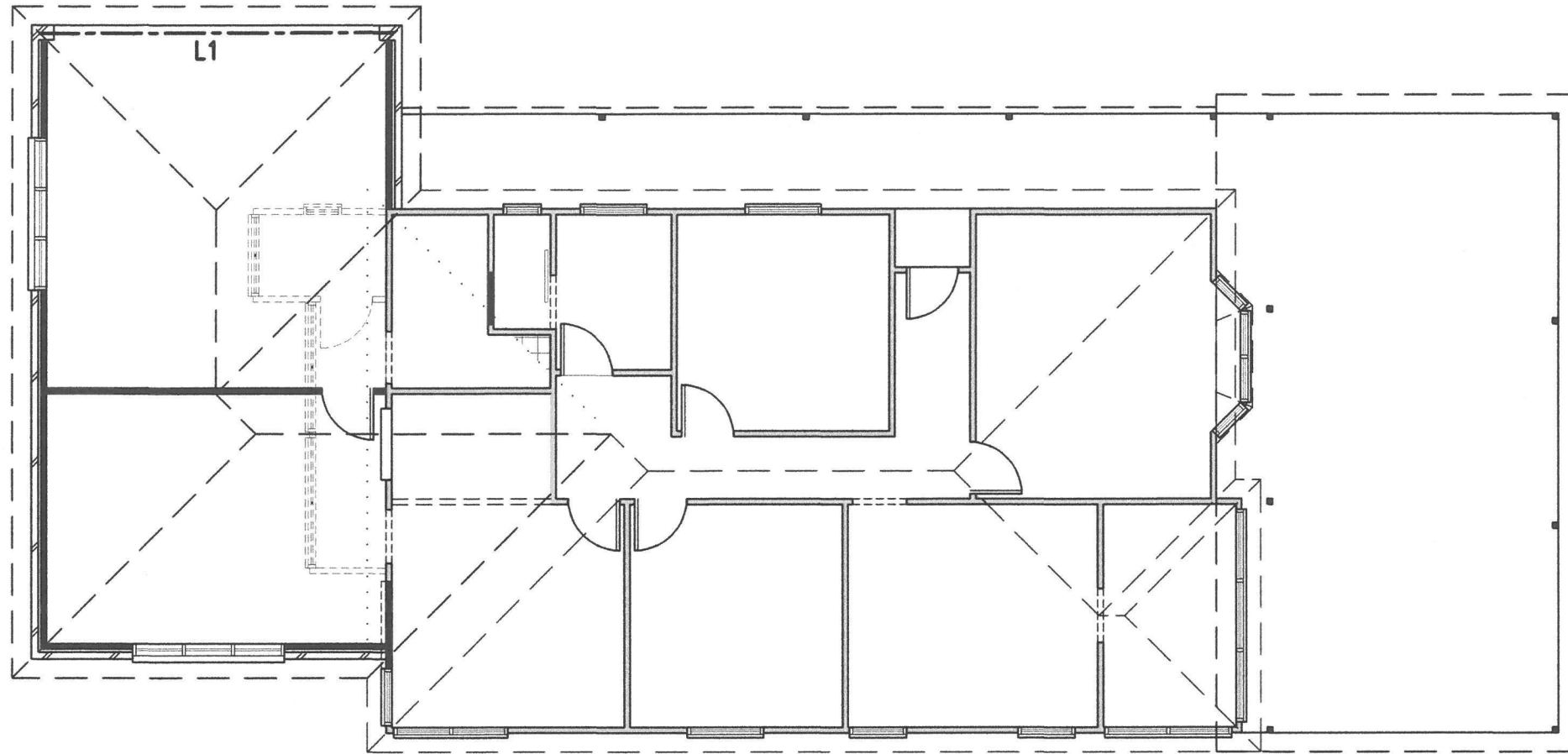
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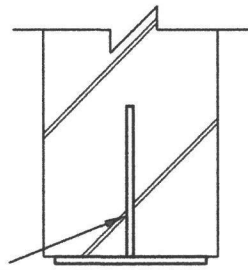
SCALES: 1:20
DRAWN: B. Wilson
REF No. EZ02032018
SHEET: S3 ISSUE:

PROPOSED SECOND DWELLING AT LOT 1, DP545845, No.79 MAYO ROAD, LLANDILO, NSW, 2747.
FOR: MR E. & MRS F. ZARELLA.
STRUCTURAL DETAILS



PLAN - LINTEL SUPPORT BEAM LAYOUT

SCALE 1:100



250 web x 200 flange
x 10mm Galintel T bar

**DETAIL - LINTEL BEAM L1 OVER
PANEL LIFT DOOR OPENING.**

SCALE 1:10

NOTES: GALINTEL TEE (FOR GARAGE OPENING)

1. Tee to be propped at 1200mm maximum centres
2. Props to remain in place until mortar achieves full strength (7 days)
3. Mortar mix 1:4 (minimum) and applied to all faces between brick & mortar (including bottom flange & vertical web)
4. Minimum 5 brick courses to both sides.



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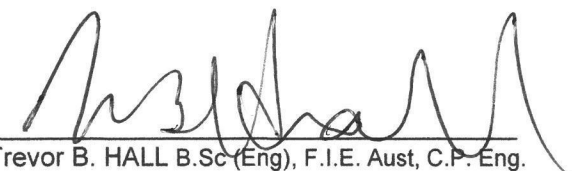
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PROPOSED WORKS STRUCTURAL CERTIFICATION:

This is to certify that we have checked the design of the steel support lintel beam on this drawing and are satisfied they are adequate for the proposed relocated existing cottage and brick veneer addition to be constructed and attached to the existing cottage.

Approved: 
Trevor B. HALL B.Sc (Eng), F.I.E. Aust, C.P. Eng.

Amendments	Approved
Designed: T.B Hall	Date: 4th June 2018
	Ref No. 105055-4



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ISSUE	DATE	REVISION

SCALES:	1:100, 1:10
DRAWN:	B. Wilson
REF No.	EZ02032018
SHEET:	ISSUE:
S4	

**PROPOSED SECOND DWELLING AT
LOT 1, DP545845, No.79 MAYO ROAD,
LLANDILO, NSW, 2747.
FOR: MR E. & MRS F. ZARELLA.**

STRUCTURAL DETAILS