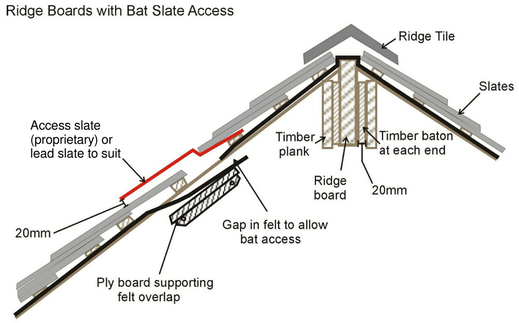
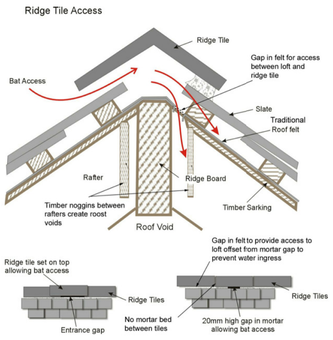
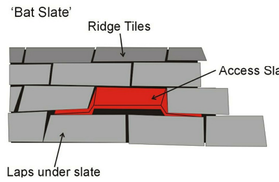
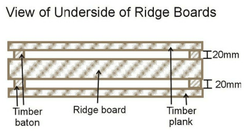
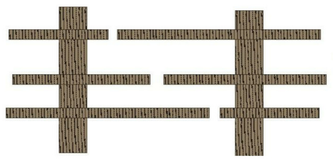










1 Stone or ceramic ridge tiles with pointing that allows bat access from the eaves to the cavity between the ridge tiles and the slates. Four gaps at the ridge (2 slates, 1 gaps each side per tile) allow access in to the bat loft via the void beneath the ridge tiles, a feature that is often used by Natterer's bats.

2 Slates lain on lats to create a 25mm void between the slates and traditional bitumastic sarking beneath.

3 Three bat slates to provide access to loft void.

4 Timber cladding on 2x38mm lats with bitumastic sarking beneath. Routed out grooves in the cladding create bat access behind the cladding whilst keeping water tight.

5 Hay loft type door on eastern elevation is left open over the first summer to allow bats to easily find access into the loft area. Then progressively closed, leaving a 30mm gap at the door top for bat access.

6 Rockwool insulation on loft floor.

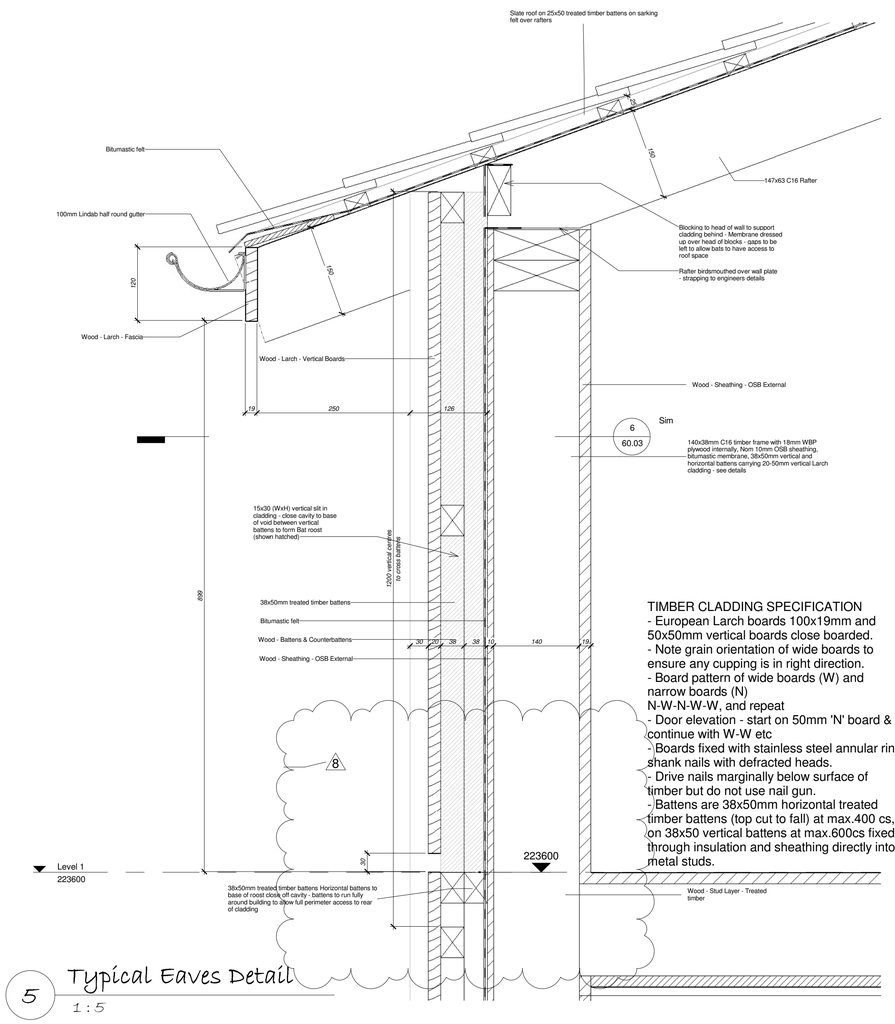
7 Overhanging eaves create suitable locations for nesting house martin. Gaps at eaves provide bat access routes.

General features:

The loft is constructed to be draft-proof, so higher temperatures can be achieved during the summer, encouraging maternity use. It is lined out with OSB board, which provides a good surface for bats to hold onto. The roof structure includes a ridge board with adjacent noggins creating gaps 150mm deep and narrowing from 30mm at the bottom to 15mm at the top. All roof timbers and noggins to be rough sawn and any timber treatment to be suitable for areas used by bats. Interior bat boxes within the loft provide voids suitable for whiskered and Natterer's bats.

NOTES:

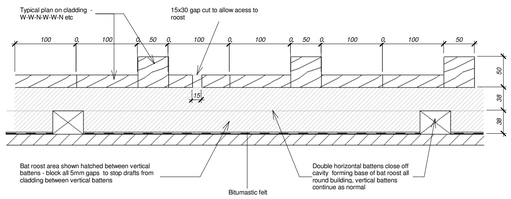
1. DO NOT SCALE from the drawing
2. Further dimensions required to be requested from the project technical team
3. Report discrepancies to JDDK project team immediately.
4. This model file contains the following consultants model files:-
   a) SIL-PP-00-00-M3-S-100 & 101 (Patrick Parsons)



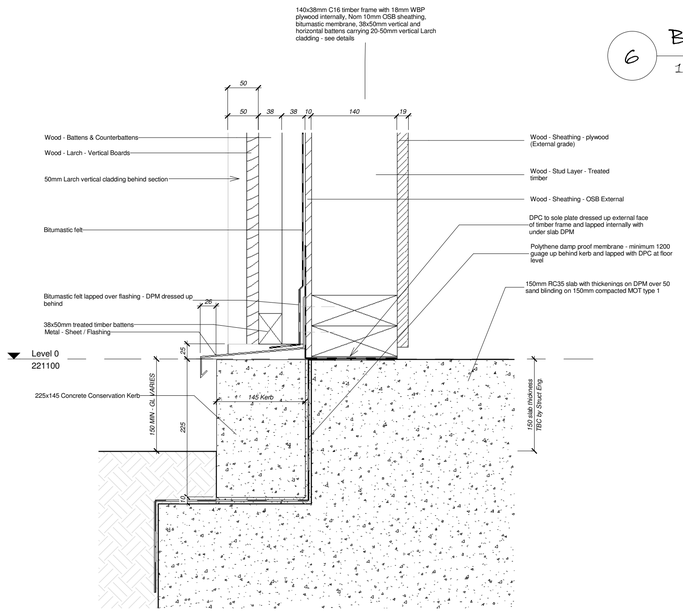
5 Typical Eaves Detail
1 : 5

TIMBER CLADDING SPECIFICATION
- European Larch boards 100x19mm and 50x50mm vertical boards close boarded.
- Note grain orientation of wide boards to ensure any cupping is in right direction.
- Board pattern of wide boards (W) and narrow boards (N)
N-W-N-W-W, and repeat
- Door elevation - start on 50mm 'N' board & continue with W-W etc
- Boards fixed with stainless steel annular ring shank nails with defracted heads.
- Drive nails marginally below surface of timber but do not use nail gun.
- Battens are 38x50mm horizontal treated timber battens (top cut to fall) at max.400 cs, on 38x50 vertical battens at max.600cs fixed through insulation and sheathing directly into metal studs.

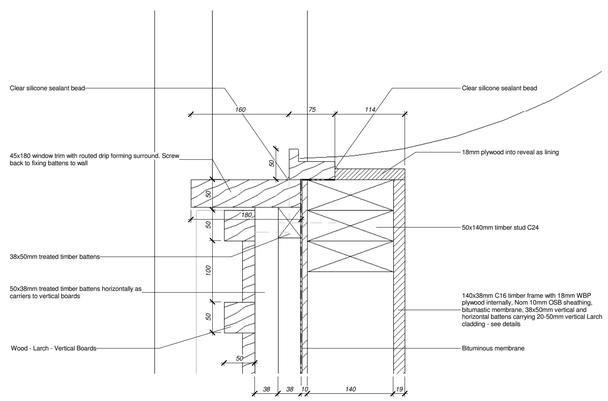
1 Bat Barn Roost Details
1 : 1



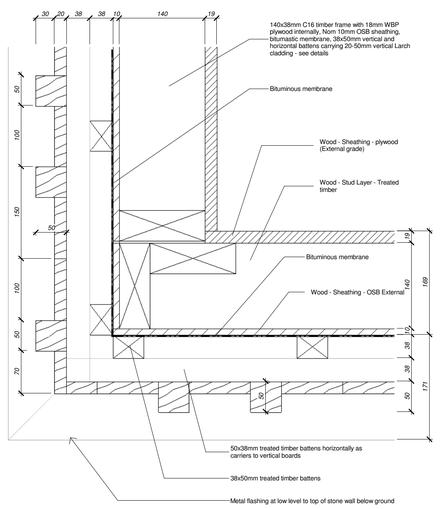
6 Bat Roost Plan
1 : 5



4 Sole Plate Detail
1 : 5



3 Door Jamb Detail
1 : 5



2 Corner Timber Detail
1 : 5

REV	BY	DATE	DESCRIPTION
P0 8	MH	2015/07/30	Add additional bat access points & increase roost area after discussions with Ecologist
P0 7	MH	2015/07/07	Revise bat barn notes
P0 6	MH	2015/07/06	Revise construction of bat roost, add notes to elevations, all references to membranes changed to bitumastic felt, update roost details
P0 5	MH	2015/07/06	Revise cladding to show close boarded with no gaps
P0 4	MH	2015/6/25	Add bat roost details; Change breather to bituminous membrane
P0 3	MH	2015.04.27	Add S.E sizes and notes to drawings; Revise FFL to suit GK levels
P0 2	MH	2015.04.09	Add technical details; ISSUE FOR TENDER
P0 1	MH	2014.01.23	ISSUED FOR PLANNING

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CLIENT
NNPA & YHA

PROJECT TITLE
THE SILL PROJECT

TITLE
BAT BARN ROOST DETAILS

MAIN CONTRACTOR

QUANTITY SURVEYOR | **M&E CONSULTANT**

STRUCTURAL CONSULTANT | **OTHER CONSULTANT**

DRAWING No. **SIL-JDDK-XX-XX-DR-A-(90.2)6003** REV **P08**

JDDK INTERNAL REF:	123	**JDDK REF NO:**	60.03
SCALE:	As indicated @ A1	**ISSUE DATE:**	06/29/12
DRAWN BY:	MH	**CHECKED BY:**	Checker

STATUS: S0 — PURPOSE OF ISSUE: TENDER