

- Key to Map Symbols:**
- Semi-improved grassland
 - Buildings
 - Tall-herb vegetation
 - Trees
 - Shrubs
 - Surveyor positions during dawn re-entry surveys



Photo A: Existing farmhouse (north elevation)



Photo B: Building 1 (north elevation)



Photo C: Building 1 (north elevation) and Building 2 (west elevation)

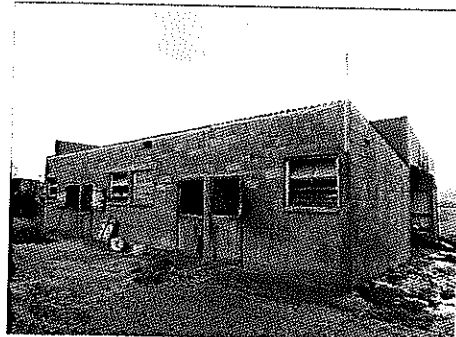


Photo D: Building 3 (north elevation)

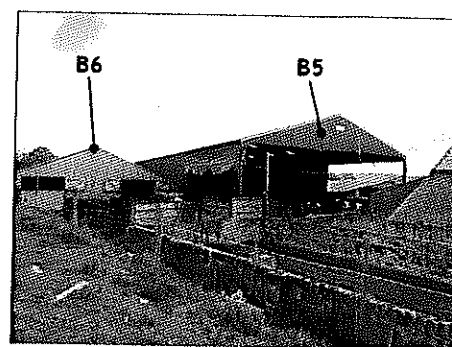


Photo E: Building 5 and 6



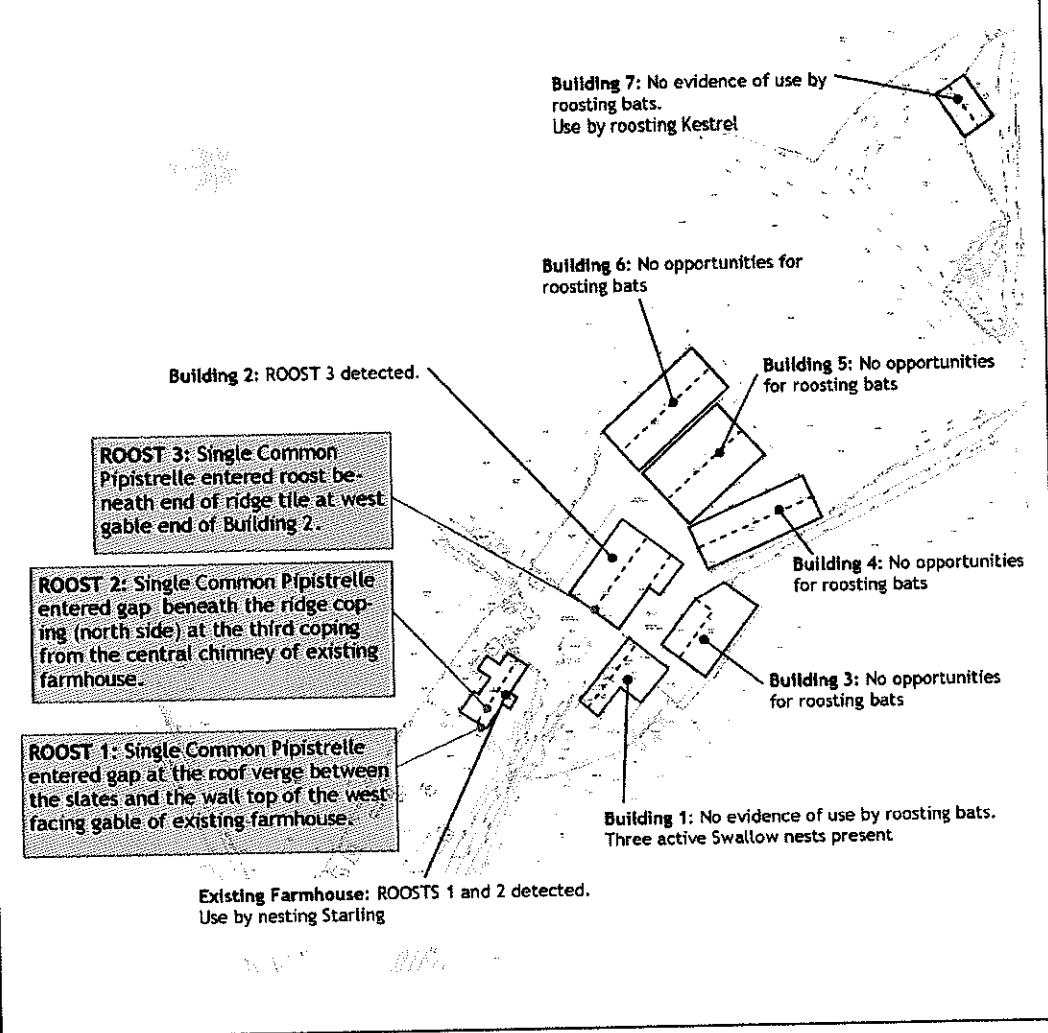
Photo F: Building 7

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Project Name: Elmridge Farm, Chipping		
Title: Plans to illustrate Elmridge Farm site and buildings surveyed		
Scale: NTS	Drawing No.: Figure 1	Date: Dec 2012
Reference No.: ERAP Ltd 2012_081		
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Building Reference	Brief Description	External Survey and Assessment	Internal Survey and Assessment	Dawn Re-entry Survey
Existing Farmhouse	Two storey farmhouse with white rendered elevation walls and a pitched slate covered roof.	Gaps suitable for bat access were detected in the following places: - a. At the bedding mortar beneath the ridge copings. b. At base of the chimney where the lead flashing has lifted. c. Holes in the roof where the slates have slipped. d. Holes in rotten timber soffits around porch on the south elevation. No bat droppings detected around exterior.	No underfelt or insulation present. No evidence of bat entry.	Detected single Common Pipistrelle re-entry into ROOSTS 1 and 2.
Building 1 (Barn)	Two storey stone built barn with a single storey brick built annex to the south. The buildings have pitched slate and stone tile covered roofs.	Gaps suitable for bat access were detected in the following places: - a. At the roof verge of the west facing gable (between the slates and the wall top); b. A crevice in the east elevation of the stone wall. Closer inspection confirmed that this is used by nesting birds owing to the presence of droppings; c. Around the stone lintel at the doorway on the east elevation but the gaps are heavily cobweb covered; d. Beneath the ridge copings; The remainder of the stone elevations are well pointed; no gaps suitable for bat access were detected. No bat droppings detected around exterior.	The internal walls are white washed and well-pointed; no gaps for bat access were detected on the ground or first floors. The first floor is open to the ridge internally. The pargework beneath the slates is visible; no underfelt is present. A gap at the underarch between rooms on the first floor was investigated further. No bats or droppings were detected. No bats or bat droppings detected internally.	No emergence or re-entry activity.
Building 2 (Barn)	Stone barn with a corrugated sheeting roof. A hay loft is present inside.	Well pointed stone elevation walls. Keystone archway at doorway is well sealed; no gaps present. Gaps behind fascia at roof edges. Timber shed annex to east; no opportunities for roosting bats.	Mouse droppings present over floor of hayloft. Internal walls are well-pointed; no gaps for bat access. Timber roof trusses heavily cobweb covered. No mortar gaps or joints. No bats or bat droppings detected internally.	Detected single Common Pipistrelle entering ROOST 3.
Building 3 (Lean-to)	Steel framed lean to with a corrugated sheeting roof. A breeze block cattle shed section with a sloping corrugated roof is present to the west.	No gaps or opportunities for roosting bats externally. No bat droppings detected around exterior.	No gaps at timber trusses suitable for bat access. No bats or bat droppings detected internally. No opportunities present for use by roosting bats.	No emergence or re-entry activity.
Building 4 (Cattle shed)	Timber framed cattle shed with a corrugated sheet metal roof.	No cracks or crevices suitable for access by roosting bats. Open fronted building.	No gaps at timber trusses suitable for bat access. No bats or bat droppings detected internally. No opportunities present for use by roosting bats.	No emergence or re-entry activity.
Building 5 (Cattle shed)	Steel framed open sided cattle shed with corrugated sheeting roof.	No cracks or crevices suitable for access by roosting bats. Open fronted building.	No bats or bat droppings detected internally. No opportunities present for use by roosting bats.	No emergence or re-entry activity.
Building 6 (Cattle shed)	Timber framed cattle shed with timber plank elevations and a pitched corrugated sheeting roof.	No cracks or crevices suitable for access by roosting bats. Open fronted building.	No bats or bat droppings detected internally. No opportunities present for use by roosting bats.	No emergence or re-entry activity.
Building 7 (Barn)	Single storey stone barn with a corrugated sheeting roof.	Gaps behind fascia on the gable ends. Gaps at eaves which may permit bat access to the stone wall tops. No gaps at doorway lintel. No bat droppings detected around exterior.	Well sealed where the timber purlins meet the elevation walls. Timber roof trusses heavily cobweb covered. No mortar gaps or joints. No bats or bat droppings detected internally. Internal walls are well-pointed; no gaps for bat access.	No emergence or re-entry activity.

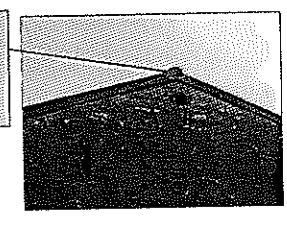
PLAN VIEW OF ELMRIDGE FARM, THE EXISTING FARMHOUSE AND BUILDINGS 1 TO 7



ROOST 1: Single Common Pipistrelle entered gap at the roof verge between the slates and the wall top of the west facing gable of existing farmhouse.

ROOST 2: Single Common Pipistrelle entered gap beneath the ridge coping (north side) at the third coping from the central chimney of existing farmhouse.

ROOST 3: Single Common Pipistrelle entered roost beneath end of ridge tile at west gable end of Building 2.



WEST ELEVATION OF EXISTING FARMHOUSE

REAR (north) ELEVATION OF EXISTING FARMHOUSE

WEST ELEVATION OF BUILDING 2

Project Name:
Elmrige Farm, Chipping

Title:
Plans to illustrate results of bat and bird surveys

Scale: NTS **Drawing No.:** Figure 2 **Date:** Dec 2012

Reference No.: ERAP Ltd 2012_081

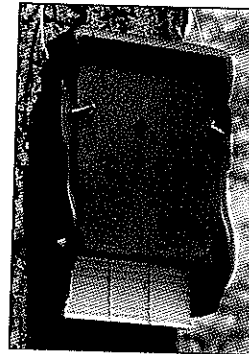
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Building	NEW Roost Access Point Type	Description	Number	Specification
Existing Farmhouse	A	Ridge Access: Gap (20mm high by 40mm wide) beneath ridge coping.	A1	In the same position as detected ROOST 1
			A2	Within 1 metre of the west gable end.
Converted Building 1	A	Ridge Access: Gap (20mm high by 40mm wide) beneath ridge coping.	A3	Main ridge within 1 metre of the west gable. Gap on south side.
			A4	Main ridge within 1 metre of the east gable. Gap on south side.
Converted Building 2	A	Ridge Access: Gap (20mm high by 40mm wide) beneath ridge coping.	A5	Main ridge within 1 metre of the west gable. Gap on south side.
			A6	Main ridge within 1 metre of the east gable. Gap on south side.
Converted Building 7	A	Ridge Access: Gap (20mm high by 40mm wide) beneath ridge coping.	A7	Main ridge within 1 metre of the south gable. Gap on east side.
			A8	Main ridge within 1 metre of the north gable. Gap on east side.
TOTAL				Detail A = 8, Detail B = 1,

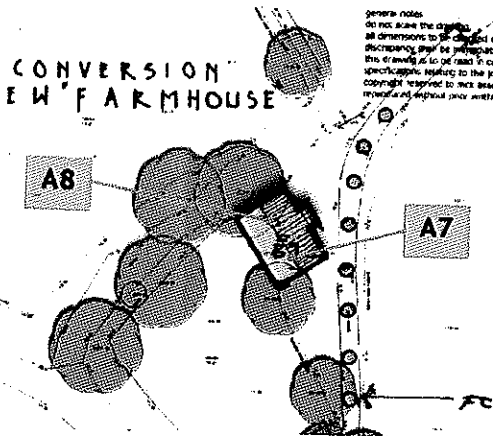
TWO 1FF SCHWEGLER BAT BOXES

To be installed on suitable trees prior to the commencement of works.

To ensure a provision for roosting bats is provided throughout all works.

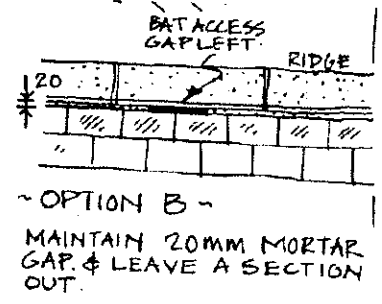
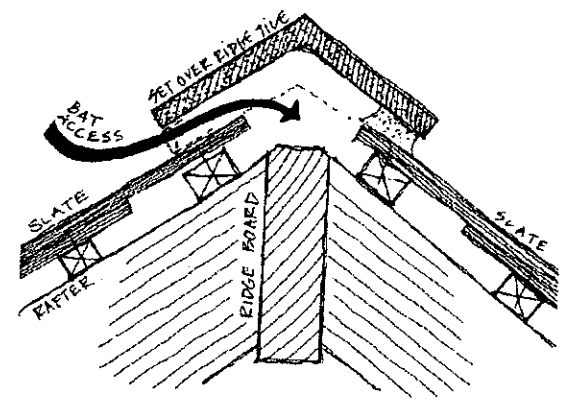


PROPOSED CONVERSION TO FORM NEW FARMHOUSE



General notes:
do not scale the drawing
all dimensions to be checked on
site. If discrepancies are found
this drawing shall be prepared
by the contractor. It is the
contractor's responsibility to the job
copyright reserved to the basic
drawing and design prior to work.

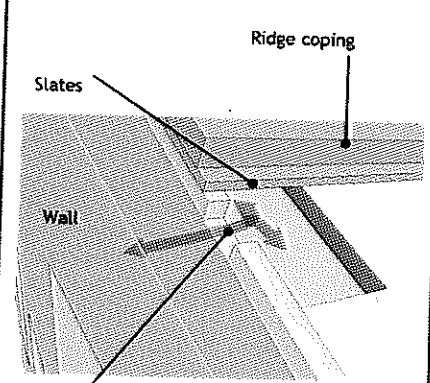
DETAIL A: Ridge Access to be installed in EIGHT positions



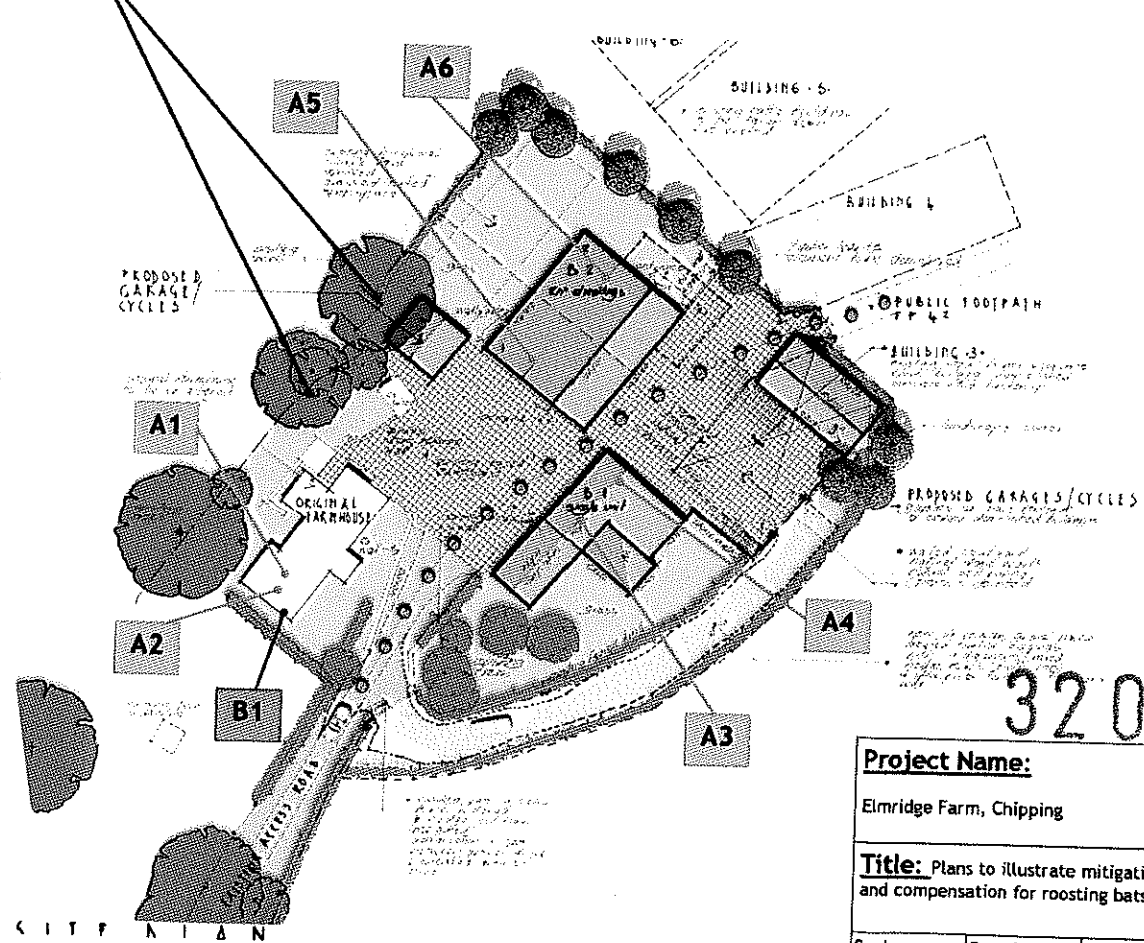
The void beneath the ridge coping is effectively sealed by mortar coupled with the pitch of the roof. The single gap will not permit the though passage of wind/air or ingress of water but will permit bat access into the outside shell of the building.

~ OPTION B ~
MAINTAIN 20MM MORTAR GAP & LEAVE A SECTION OUT.

DETAIL B: GAP AT ROOF VERGE REINSTATED



Bat access/egress gap (40mm wide by 20mm high) to be created by missing a section of mortar from the roof verge.

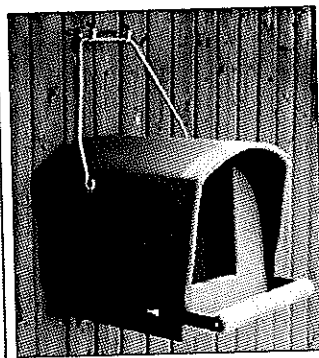
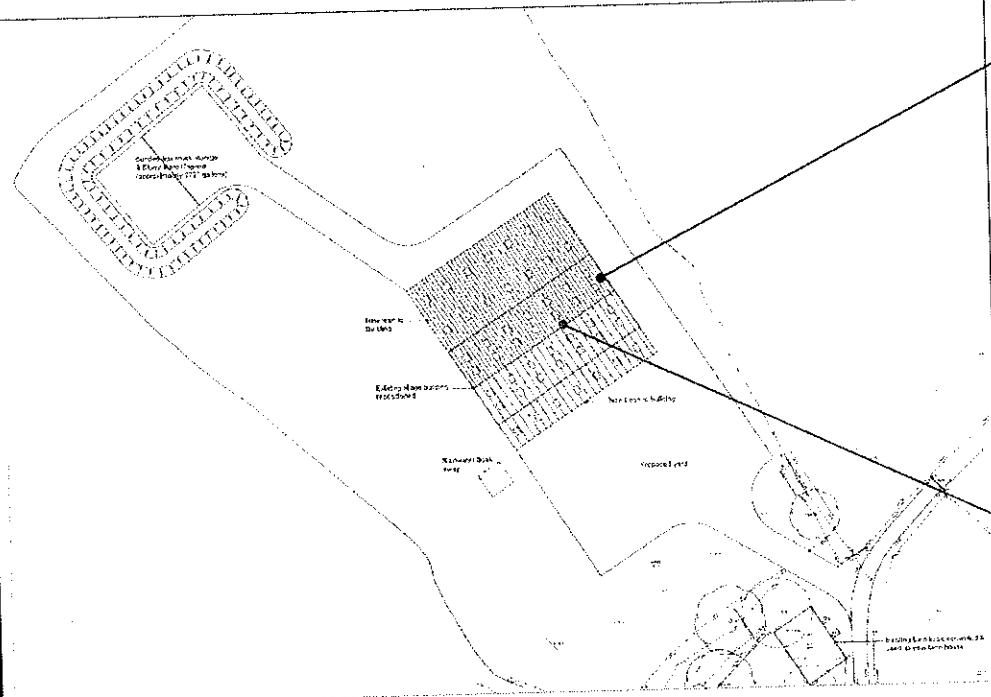


Project Name:		
Elmridge Farm, Chipping		
Title: Plans to illustrate mitigation and compensation for roosting bats		
Scale: NTS	Drawing No.: Figure 3	Date: Dec 2012
Reference No.: ERAP Ltd 2012_081		

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PROPOSED NEW FARM BUILDINGS IN FIELD 1



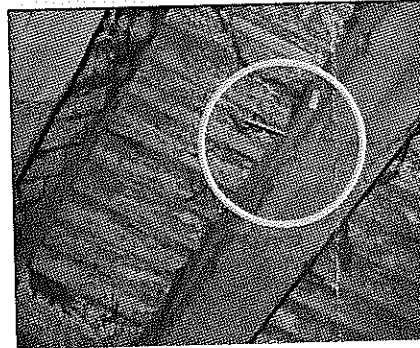
RECOMMENDED KESTREL BOX No. 28
One Kestrel box to be installed as high as possible inside the gable apex of the new farm buildings.

Will compensate for loss of roosting opportunity at Building 7.

Free flight access to be available from exterior

Available from www.nhbs.com

PROVISIONS FOR NESTING SWALLOW



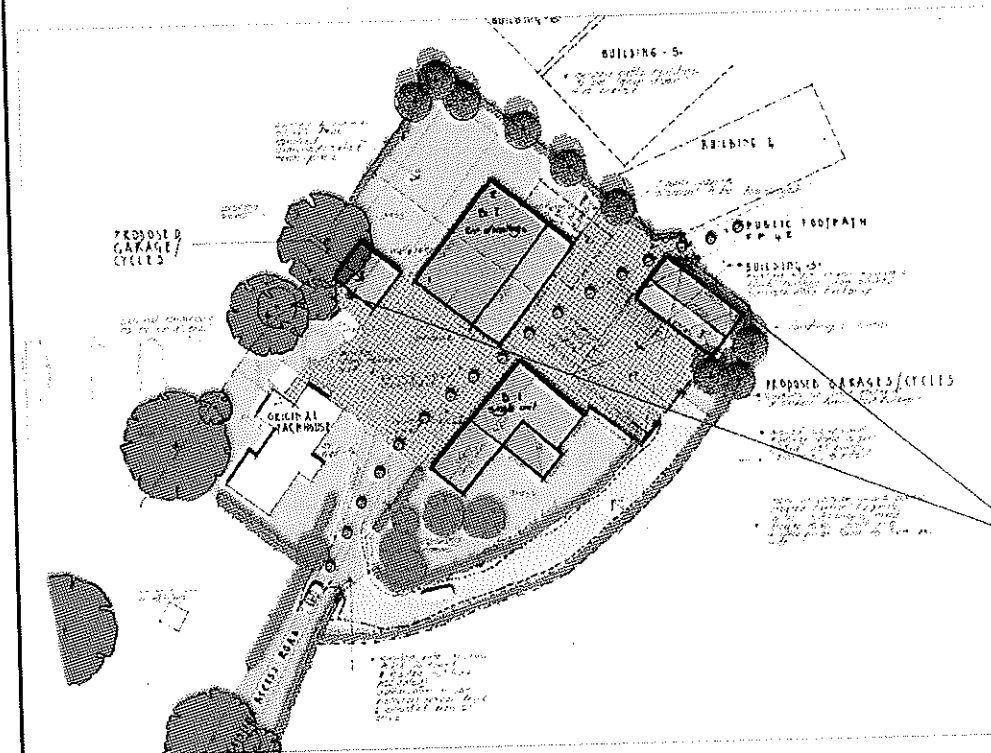
Timber will be installed to the steel beams at the new farm buildings.

Six partially inserted nails with a 10cm long strip of timber will be inserted into the timber to leave approximately 4cm of the nail protruding to provide a starting ledge.

This feature has been successfully used by nesting Swallow in the Woodplumpton area of Preston and will compensate for loss of nesting opportunity at Building 1.

Free flight access into the building must be available.

CONVERTED AND RENOVATED BUILDINGS AT ELMRIDGE FARM



TWO BOXES FOR NESTING STARLING TO BE INSTALLED

Two Schwegler 3S Starling boxes will be installed in the following positions: -

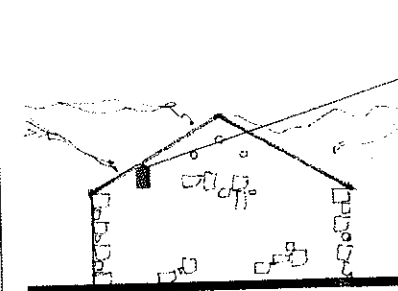
One on the west elevation of the double garage

One at the east elevation of the triple garage.

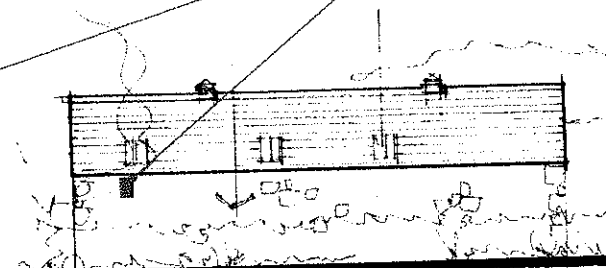
The boxes will compensate for the loss of the nesting opportunity used by Starling at the Existing Farmhouse.

Boxes to be installed directly beneath the eaves.

Available from www.nhbs.com



WEST ELEVATION OF DOUBLE GARAGE



EAST ELEVATION OF TRIPLE GARAGE

Project Name:

Elmridge Farm, Chipping

Title: Plans to illustrate proposed compensatory measures for use by nesting birds

Scale: NTS **Drawing No.:** Figure 4 **Date:** Dec 2012

Reference No.: ERAP Ltd 2012_081

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