

DRAWING NOTES:

- DRAWING TO BE READ IN CONJUNCTION WITH ALL DESIGN DRAWINGS.
- DRAWING TO BE READ IN CONJUNCTION WITH THE FOLLOWING REPORTS.
 - 2.1. ECOLOGICAL ASSESSMENT (DAVID CLEMENTS ECOLOGY, JULY 2023).
 - 2.2. WILDLIFE PROTECTION PLAN (DAVID CLEMENTS ECOLOGY, JULY 2023).
- REFER TO THE FOLLOWING NOTES FOR SITE WIDE CONSIDERATIONS.
- GREAT-CRESTED NEWT (GCN) OTHER AREAS**
 - 4.1. WORK AT OTHER PARTS OF THE SITE, WHERE GCN IS UNLIKELY TO OCCUR, WILL TAKE PLACE UNDER A REPTILE METHOD STATEMENT, WHICH WILL ALSO ACT AS A NON-LICENCED METHOD STATEMENT FOR GCN.
 - 4.2. IT WILL NOT BE NECESSARY TO HAVE A GCN DEROGATION LICENCE IN PLACE BEFORE CARRYING OUT WORK OUTSIDE THE ROTARY ZONE AND WEST ORCHARD.
- REPTILES**
 - 5.1. SMALL NUMBERS OF SLOW WORM COULD POTENTIALLY MOVE ON TO ANY GRASSLAND AREAS OF THE SITE, PARTICULARLY AREAS THAT ARE LEFT UNMANAGED. THEREFORE, REGULAR GRASS CUTTING SHOULD CONTINUE ALONG THE UTILITIES ROUTE, TO REDUCE THE ATTRACTION OF THE SITE FOR SLOW WORM.
 - 5.2. ANY AREAS OF GRASSLAND THAT ARE LEFT UNMANAGED ARE LIKELY TO REQUIRE A REPTILE METHOD STATEMENT TO BE ADHERED TO, WHILE CARRYING OUT THE WORKS.
 - 5.3. ANY WORKS ACROSS THE SITE AFFECTING POTENTIAL HIBERNATION HABITAT SUCH AS RUBBLE OR WOOD PILES, LOOSE HARD STANDINGS, TREE STUMPS AND ROOTS ETC SHOULD ALSO TAKE PLACE BETWEEN APRIL AND OCTOBER, OUTSIDE OF THE REPTILE HIBERNATION PERIOD.
- DORMOUSE**
 - 6.1. THE WORKS PROPOSED FOR OTHER AREAS OF THE SITE HAVE MINIMAL RISK OF DISTURBING DORMOUSE AND WILL BE COVERED BY A PRECAUTIONARY APPROACH TO WORKS.
- OTTER, BADGER, HEDGEHOG AND OTHER MAMMALS**
 - 7.1. THE DEVELOPMENT WILL TAKE A PRECAUTIONARY APPROACH IN RESPECT OF OTTER AND BADGER.
 - 7.2. ANY HERAS FENCING WILL BE INSTALLED WITH GAPS UNDERNEATH AT LEAST 250mm HIGH TO ALLOW PASSAGE BY OTTER, BADGER AND OTHER FAUNA.
 - 7.3. NIGHT-TIME WORKING WILL BE KEPT TO A MINIMUM.
 - 7.4. THERE WILL BE NO LIGHTING OF THE SITE AT NIGHT, OTHER THAN BY SHORT-DURATION PIR MOTION-ACTIVATED SECURITY LIGHTING.
 - 7.5. ANY TRENCHES >0.5M IN DEPTH WILL EITHER BE COVERED AT NIGHT OR WILL BE LEFT WITH A GENTLY SLOPING PLANK (OR SIMILAR) RUNNING FROM THE BOTTOM TO THE SURFACE TO ACT AS AN ESCAPE RAMP FOR ANY FAUNA WHICH MAY FALL IN INCLUDING SMALL MAMMAL SPECIES SUCH AS HEDGEHOG ETC.
 - 7.6. ANY OPEN PIPEWORK WITH AN OUTSIDE DIAMETER OF GREATER THAN 120mm MUST BE COVERED AT THE END OF EACH WORK DAY TO PREVENT HEDGEHOGS AND OTHER SMALL MAMMALS ENTERING/BECOMING TRAPPED.
 - 7.7. ANY EXPOSED PIPES AND TRENCHES MUST BE CHECKED FOR TRAPPED OTTERS (AND OTHER WILDLIFE) EACH MORNING BEFORE STARTING CONSTRUCTION ACTIVITIES.
- TREE ROOT PROTECTION ZONE**
 - 8.1. ANY GROUND WORKS DUE TO TAKE PLACE CLOSE TO ANY MATURE TREES WILL NEED TO BE ASSESSED BY A QUALIFIED ARBORIST FOR POTENTIAL EFFECTS ON THE ROOT PROTECTION ZONE OF EACH TREE.
- PLANTING**
 - 9.1. REPLACEMENT PLANTING OF TREES AND HEDGEROWS (AT A RATIO OF 2:1) WILL BE REQUIRED TO COMPENSATION FOR ANY TREES OR HEDGEROWS THAT NEED TO BE REMOVED. SUITABLE NATIVE TREE AND SHRUB SPECIES WILL BE SOURCED.
 - 9.2. A SUITABLE NATIVE WILDFLOWER SEED MIX WILL BE SOWN ON THE TURBED GROUND FOLLOWING THE BACKFILLING OF TRENCHES. AN APPROPRIATE MIX WOULD BE EMORSGATE STANDARD GENERAL WILDFLOWERS (EM2F), WHICH IS MADE UP OF SPECIES' LARGELY PRESENT IN THE LOCAL AREA. ADDING YELLOW RATTLE SEEDS, WILL HELP TO SUPPRESS GRASS GROWTH AND ALLOW WILDFLOWERS TO THRIVE. THE GRASSLANDS AROUND THE BRO TATHAN WEST BUILDINGS ARE ALREADY RELATIVELY SPECIES RICH; WILDFLOWER SEED WILL NOT BE ADDED TO THESE AREAS. NO WILDFLOWER SEED WILL BE ADDED TO THE GRASSLANDS ON OR ADJACENT TO THE AIRFIELD, TO AVOID ATTRACTING WILDLIFE THAT MAY INCREASE THE RISK OF BIRD-STRIKE.

REPTILES
THIS AREA HAS AN INCREASED RISK OF COMMON REPTILES (SLOW WORM) BEING PRESENT. WORK WITHIN THIS AREA WILL NEED TO BE CARRIED OUT DURING THE ACTIVE REPTILE SEASON, BETWEEN MARCH AND OCTOBER INCLUSIVE, FOLLOWING A REPTILE METHOD STATEMENT. THE WORKS WILL BE SUPERVISED BY A SUITABLY QUALIFIED ECOLOGIST. SMALL NUMBERS OF SLOW WORM COULD POTENTIALLY MOVE ON TO ANY GRASSLAND AREAS OF THE SITE, PARTICULARLY AREAS THAT ARE LEFT UNMANAGED. THEREFORE, REGULAR GRASS CUTTING SHOULD CONTINUE ALONG THE UTILITIES ROUTE, TO REDUCE THE ATTRACTION OF THE SITE FOR SLOW WORM. ANY AREAS OF GRASSLAND THAT ARE LEFT UNMANAGED ARE LIKELY TO REQUIRE A REPTILE METHOD STATEMENT TO BE ADHERED TO, WHILE CARRYING OUT THE WORKS. ANY WORKS AFFECTING POTENTIAL HIBERNATION HABITAT SUCH AS RUBBLE OR WOOD PILES, LOOSE HARD STANDINGS, TREE STUMPS AND ROOTS ETC SHOULD ALSO BE UNDERTAKEN OUTSIDE OF THE REPTILE HIBERNATION PERIOD.

WORKS TO BE UNDERTAKEN BETWEEN MARCH AND OCTOBER, INCLUSIVE

NESTING BIRDS
ANY WORKS AFFECTING POTENTIAL BIRD NESTING HABITATS, INCLUDING TRIMMING AND CLEARANCE OF SCRUB AND HEDGES ETC, SHOULD AVOID THE MAIN BIRD NESTING SEASON WHICH RUNS APPROXIMATELY FROM MARCH TO AUGUST INCLUSIVE. IF WORKS MUST BE CARRIED OUT DURING THIS PERIOD, THEY MUST BE PRECEDED BY A NESTING BIRD SURVEY. IF ANY SMALL AREAS OF POTENTIAL BIRD NESTING HABITATS ARE TO BE REMOVED, ANY SCRUB, SMALL TREES OR BRAMBLE SHOULD IDEALLY BE CLEARED TO APPROXIMATELY 200mm HEIGHT DURING THE WINTER PERIOD AND THEN MAINTAINED IN THIS CONDITION BY REGULAR RE-CUTTING UNTIL THE START OF GROUND WORKS. IN SOME INSTANCES, IT MAY BE POSSIBLE TO CARRY OUT A PRE-WORKS NESTING BIRD CHECK DURING THE NESTING SEASON TO DETERMINE WHETHER THERE IS ANY NESTING ACTIVITY IN THE AREA. IN THE EVENT OF A NEST BEING FOUND, THE ROUTE WILL BE DIVERTED TO AVOID DISTURBANCE.

OPTIMAL TIME FOR WORKS BETWEEN SEPTEMBER AND FEBRUARY, INCLUSIVE, WHEN WORKING BETWEEN MARCH AND AUGUST, A PRE-WORKS NESTING BIRD CHECK MUST BE CARRIED OUT BY A SUITABLY QUALIFIED ECOLOGIST.

BAT HOUSES
THERE IS UNLIKELY TO BE A NEED TO CARRY OUT WORKS CLOSE TO THE BAT HOUSES; ANY WORKS WITHIN 5m WILL NEED TO BE ASSESSED FOR THE POTENTIAL TO CAUSE DISTURBANCE AND MAY NEED TO TAKE PLACE OUTSIDE THE SENSITIVE MATERNITY PERIOD (I.E. NOT BETWEEN MAY AND AUGUST INCLUSIVE).

ANY WORKS WITHIN 5m OF THE BAT HOUSES WILL NEED TO TAKE PLACE BETWEEN SEPTEMBER AND APRIL, ALTHOUGH THIS IS NOT CURRENTLY PLANNED AND ROUTES HAVE BEEN DEVELOPED SO THEY ARE SUITABLE FAR AWAY.

BATS
BATS ARE UNLIKELY TO BE AFFECTED BY THE PROPOSED WORKS, HOWEVER, IF ANY MATURE TREES NEED TO BE PRUNED OR REMOVED, THEN A PRE-WORKS CHECK FOR ROOSTING BATS WILL BE CARRIED OUT BY A SUITABLY QUALIFIED AND LICENCED ECOLOGIST AND ANY FURTHER ADVICE FOLLOWED.

ANY PRUNING OR TREE REMOVAL WILL NEED TO BE CONSULTED WITH THE LICENCED ECOLOGIST.

GREAT CRESTED NEWTS
WORKS WITHIN THIS AREA REQUIRE A NRW GCN DEROGATION LICENCE / EUROPEAN PROTECTED SPECIES (EPS) LICENCE TO BE IN PLACE WITH A DETAILED METHOD STATEMENT. THE WORKS WILL NEED TO TAKE PLACE BETWEEN MARCH AND OCTOBER. ALL WORKS IN THESE AREAS WILL BE CARRIED OUT UNDER THE SUPERVISION OF A SUITABLY QUALIFIED AND LICENCED ECOLOGIST. IMMEDIATELY PRIOR TO WORKS IN A PARTICULAR AREA THERE WILL BE A NEED FOR EXTENSIVE FINGER-TIP SEARCHING BY THE ECOLOGIST.

WORKS TO BE UNDERTAKEN BETWEEN MARCH AND OCTOBER, INCLUSIVE

DORMOUSE AND GREAT CRESTED NEWTS
NO WORKS PLANNED IN THIS AREAS. IF FOR ANY REASON, WORKS ARE LATER PLANNED FOR THIS AREA, THE WORKS WILL NEED TO FOLLOW THE RELEVANT ADVICE FOR DORMOUSE AND GREAT CRESTED NEWTS. THE PLANNED WORKS SHALL BE DISCUSSED WITH A SUITABLY QUALIFIED AND LICENCED ECOLOGIST BEFORE BEING UNDERTAKEN.

NO WORKS ARE PLANNED IN THIS AREA, ANY WORK IS TO BE DISCUSSED WITH A SUITABLY QUALIFIED AND LICENCED ECOLOGIST BEFORE BEING UNDERTAKEN.

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WORKS TO BE UNDERTAKEN BETWEEN MARCH AND OCTOBER, INCLUSIVE

SKYLARK
SKYLARK, A GROUND NESTING BIRD, IS KNOWN TO NEST ON AREAS OF THE AIRFIELD AND ALSO IN THE FIELDS ADJACENT TO THE SITE AT BRO TATHAN NORTH. IDEALLY, WORKS IN THESE AREAS WILL TAKE PLACE BETWEEN SEPTEMBER AND FEBRUARY, OUTSIDE OF THE MAIN BIRD NESTING SEASON TO AVOID THE POSSIBILITY OF DISTURBING NESTING SKYLARK. OTHERWISE, PRE-WORKS NESTING BIRD CHECKS WILL NEED TO BE CARRIED OUT AND WORKS MAY NEED TO BE DELAYED OR THE UTILITIES ROUTE DIVERTED, IF SKYLARK IS FOUND TO BE NESTING.

OPTIMAL TIME FOR WORKS BETWEEN SEPTEMBER AND FEBRUARY, INCLUSIVE, WHEN WORKING BETWEEN MARCH AND AUGUST, A PRE-WORKS NESTING BIRD CHECK MUST BE CARRIED OUT BY A SUITABLY QUALIFIED ECOLOGIST.

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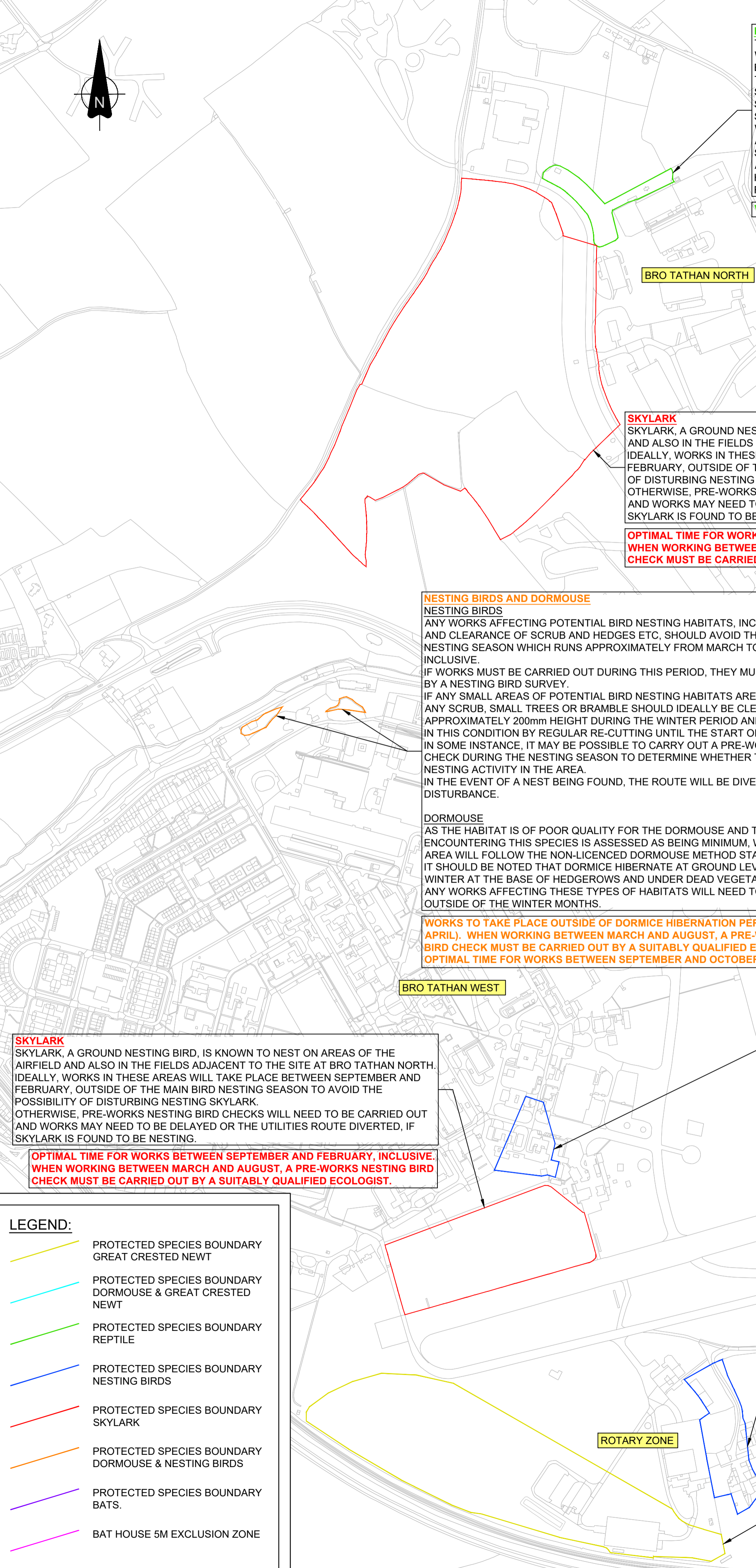
DORMOUSE
AS THE HABITAT IS OF POOR QUALITY FOR THE DORMOUSE AND THE RISK OF ENCOUNTERING THIS SPECIES IS ASSESSED AS BEING MINIMUM, WORKS IN THIS AREA WILL FOLLOW THE NON-LICENCED DORMOUSE METHOD STATEMENT. IT SHOULD BE NOTED THAT DORMICE HIBERNATE AT GROUND LEVEL DURING THE WINTER AT THE BASE OF HEDGEROWS AND UNDER DEAD VEGETATION; THEREFORE ANY WORKS AFFECTING THESE TYPES OF HABITATS WILL NEED TO TAKE PLACE OUTSIDE OF THE WINTER MONTHS.

WORKS TO TAKE PLACE OUTSIDE OF DORMICE HIBERNATION PERIOD (NOVEMBER TO APRIL). WHEN WORKING BETWEEN MARCH AND AUGUST, A PRE-WORKS NESTING BIRD CHECK MUST BE CARRIED OUT BY A SUITABLY QUALIFIED ECOLOGIST.

OPTIMAL TIME FOR WORKS BETWEEN SEPTEMBER AND OCTOBER, INCLUSIVE.

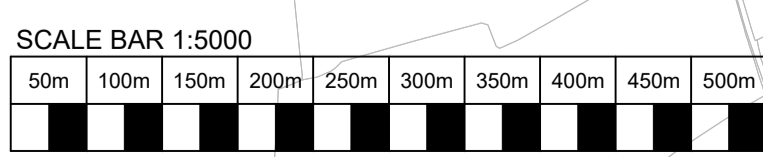
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LEGEND:

- PROTECTED SPECIES BOUNDARY GREAT CRESTED NEWT
- PROTECTED SPECIES BOUNDARY DORMOUSE & GREAT CRESTED NEWT
- PROTECTED SPECIES BOUNDARY REPTILE
- PROTECTED SPECIES BOUNDARY NESTING BIRDS
- PROTECTED SPECIES BOUNDARY SKYLARK
- PROTECTED SPECIES BOUNDARY DORMOUSE & NESTING BIRDS
- PROTECTED SPECIES BOUNDARY BATS.
- BAT HOUSE 5M EXCLUSION ZONE



32-1-01	ISSUED FOR PLANNING	19/10/23	SL	RS	RS
REV:	DESCRIPTION	DATE	DRW	CHK	APP
Drawing Title: SERIES 100 - GENERAL ECOLOGICAL CONSTRAINTS GENERAL ARRANGEMENT					
Burroughs Project No.:	50192	Scale:	1:5000	Original Paper Size:	A1
Drawing Number:	50192-BUR-GEN-XX-DR-C-0116				
Status:	Status Description: FOR INFORMATION				
Revision:	Revision Description: P1.0 - ISSUED FOR PLANNING				
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N:50192-00 BRO TATHAN UTILITIES01 DR160192-BUR-GEN-XX-DR-C-0116 ECOLOGICAL CONSTRAINTS DWG