COLLYWESTON QUARRY

PLANNING APPLICATION TO VARY CONDITION 2 OF PLANNING 13/00120/MINVOC UNDER SECTION 73 OF THE TOWN AND COUNTRY PLANNING ACT 1990

PROPOSED EXTENSION OF TIME FOR IN-FILLING AND RESTORATION OPERATIONS AT COLLYWESTON QUARRY

BULLIMORES SAND AND GRAVEL

January 2016
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Planning Application Drawing – HPL/COLLY/97

Proposed Area to be Used in Connection with Western Extension – HPL/COLLY/OP

Proposed Levels Plan - 5526-L-03 rev A

Collyweston Overall Landscape Restoration Plan - 5526-L-03 rev D
1 INTRODUCTION

1.1.1 This Planning Application, submitted on behalf of Bullimores Sand & Gravel Ltd, is to vary Condition 2 of Planning Permission 13/00120/MINVOC under Section 73 of the Town and Country Planning Act 1990 to allow for an extension of time for the completion of the in-filling and restoration operations at Collyweston Quarry. Condition 2 of the Planning Permission states:

   The development hereby permitted, including restoration in accordance with conditions attached to this permission, shall be completed no later than 31st December 2016. The site shall be subject to aftercare for a further five year period.

1.1.2 This Application is therefore for the variation of Condition 2 to extend the time for the completion of the remaining in-filling and restoration.

1.1.3 In order to access and work the early phases of the western extension, it is necessary to use the southern section of the 13/00120/MINVOC permission area. It is anticipated that work will begin in the Western Extension in October 2016, therefore it is proposed to extend the time for the remaining in-filling and restoration of the 13/00120/MINVOC permission area to 31st December 2020 in order to accommodate the early working of the western extension.

1.1.4 As part of this application, landscaping and aftercare schemes (conditions 32 and 38 of 13/00120/MIN) are also submitted.
2 SITE APPRAISAL

2.1 Site Location

2.1.1 The existing quarry lies approximately 500 metres to the east of Duddington village in Northamptonshire (see the site location plan below).

![Site Location Plan](image-url)

2.1.2 Planning Permission 13/00120/MINVOC covers the southern part of Collyweston Quarry and can be seen on the Planning Application Drawing (HPL/COLLY/97) which accompanies this application. Directly to the north is an area of the quarry which was granted permission for the continued extraction of limestone and Collyweston Slate Log in February 1999 (ref. EN/98/374C) which was varied by planning permission ref: 13/0121/MINVOC. Directly to the east is another extension area which was granted permission in November 2006.

2.1.3 A proposal for a Western Extension, located on land to the west of the existing quarry and backfill operations has a committee resolution to grant planning permission subject to S106 legal agreement with the County Council to secure the cessation of working in the eastern extension site area, and to secure its early restoration in-line with an agreed (revised) restoration scheme and appropriate aftercare regime.
2.2 Planning History

2.2.1 Limestone extraction at Collyweston Quarry has been carried out for a number of decades. Operations have been active since the grant of planning permission by Northamptonshire County Council in the early 1980’s.

2.2.2 The site that is subject to the current application has been used for the extraction of limestone and Collyweston Slate Log since permission was first granted for mineral extraction at the application site on 14th December 1998 by Northamptonshire County Council. This permission – reference EN/97/802C – provided for the continued extraction of limestone and backfilling of the quarry with inert waste materials. On the 1st of April 2014 Variation of Condition 30 of planning application EN/97/802C was granted for the extension of time for infilling and restoration operations until 31st December 2016.

2.2.3 As referred to above, a Western Extension to Collyweston Quarry has a committee resolution to grant planning permission subject to S106 legal agreement with the County Council to secure the cessation of working in the eastern extension site area (granted planning permission on 2nd November 2006 – reference EN/06/1279C), and to secure its early restoration in-line with an agreed (revised) restoration scheme and appropriate aftercare regime. The S106 is well progressed and it is therefore likely that permission will be granted when this is completed in the near future.
3 DESCRIPTION OF PROPOSALS

3.1.1 The proposed extension of time for in-filling and restoration operations is for a relatively short period and will enable restoration to the final contours which were approved in August 2013 and shown on the Proposed Levels Plan (5526-L-03 rev A) and the end uses shown on the Collyweston Overall Landscape Restoration Plan (5526-L-03 rev D) attached to this application.

3.1.2 Extraction operations in Planning Permission area 13/00120/MINVOC are complete and this application for an extension of time is for the remaining in-filling and restoration operations to be completed.

3.1.3 In order to commence work in the proposed western extension, a small area to the south of Planning Permission area 13/00120/MINVOC will be required to access the site and to be used as an operational area. This area can be seen on drawing no. HPL/COLLY/OP. By 2020, this operational area will be transferred to within the site boundary of the proposed western extension. Currently this southern section is an area for the storage of dust, however this will be regraded to accommodate the operational area. An access to the western extension will be required from the operational area and the proposed location of the access can be seen on drawing no. HPL/COLLY/OP.

3.1.4 In-filling and restoration of the northern section of Planning Permission area 13/00120/MINVOC not needed in conjunction with the proposed western extension will continue to be in-filled and restored in line with the Collyweston Overall Landscape Restoration Plan (5526-L-03 rev D) attached to this application.

3.1.5 Restoration within this small element of the site has the potential to be extended until approximately 2020, in connection with the proposed western extension to Collyweston Quarry.

3.1.6 This Application does not seek permission to vary any other condition and all future restoration operations on the site will be done in compliance with the conditions set out in the existing consent and to the approved agricultural end uses.

3.1.7 An extension of time of 3 years will enable in-filling and restoration to the permitted contours shown on the Proposed Levels Plan (5526-L-03 rev A) and end uses shown on the Collyweston Overall Landscape Restoration Plan (5526-L-03 rev D) attached to this application.
3.1.8 Accordingly, consent is sought to vary condition 2 of Planning Permission 13/00120/MINVOC as follows:

   With the exception of the haul road the site will be restored to the contours shown on the Proposed Levels Plan (5526-L-03 rev A) which was approved in August 2013 and the end uses shown on the Collyweston Overall Landscape Restoration Plan (5526-L-03 rev D) no later than the 31st December 2020.
4 LANDSCAPE AND AFTERCARE SCHEME

4.1.1 The planning approval granted by Northamptonshire County Council on 1 April 2014 included a requirement for the submission of a Landscape and Restoration Plan at Condition 32 and an Aftercare Scheme at Condition 38. The latter Aftercare Scheme condition seeks detail of the steps to be taken to bring the quarried land to the required standard for the proposed after uses as depicted on Drawing No. 5526 L 03 rev D (Overall Landscape Restoration Plan). This requires the production of an outline strategy for the five year aftercare period in accordance with the technical guidance included within the National Planning Policy Framework (NPPF).

4.1.2 A Landscape and Aftercare document together with the supporting proposal plans, management/ maintenance schedule and habitat and planting species lists have been prepared to satisfy Conditions No. 32 and 38 of the planning approval and accompanies this planning application.
5 CONCLUSIONS

5.1.1 Bullimores Sand & Gravel Ltd are applying to Northamptonshire County Council for the variation of Condition 2 of Planning Permission 13/00120/MINVOC to extend the time for the remaining in-filling and restoration to be completed by 31st December 2020.

5.1.2 The proposed variation to Condition 2 will allow for the working of the early phases of the proposed western extension and for the remaining in-filling and restoration of the site to be fully completed to a high standard.

5.1.3 The proposed extension of time does not envisage any change to the approved restoration scheme for the site, which will be completed to the approved contours shown on the Proposed Levels Plan (5526-L-03 rev A) and the end uses shown on the Collyweston Overall Landscape Restoration Plan (5526-L-03 rev D) attached to this application.
DRAWINGS

Planning Application Drawing – HPL/COLLY/97

Proposed Area to be Used in Connection with Western Extension – HPL/COLLY/OP

Proposed Levels Plan - 5526-L-03 rev A

Collyweston Overall Landscape Restoration Plan - 5526-L-03 rev D
Bullimores Sand and Gravel Ltd

Collyweston Quarry – Southern Area (ref 13/00120/MINVOC)

LANDSCAPE AND AFTERCARE SCHEME

OCTOBER 2015
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Appendix B: Planting Species and Mixes

DRAWINGS
Drawing No. 5526 L 03 Rev D Collyweston Overall Landscape Restoration
Drawing No. 5526 L 03 Rev A Proposed Levels
1.0 INTRODUCTION

1.1. This document has been produced by FPCR Environment and Design Ltd on behalf of Bullimores Sand and Gravel Ltd and details the proposed aftercare scheme for the restoration of the mineral workings approved under Application No. NCC Ref: 13/00120/INVOC (and ENC Ref: 14/00059/NCC). This approval dated 1 April 2014 covers land in the south of the Collyweston Quarry as depicted on Drawing No. 5526 L 03 rev D.

Site Location

1.2. Collyweston Quarry is an established limestone quarry situated within the north east part of Northamptonshire to the east of the A43 and south of the A47. Access to the site is gained directly from the A47.

Planning Permission and Conditions

1.3. The planning approval granted by Northamptonshire County Council on 1 April 2014 included a requirement for the submission of a Landscape and Restoration Plan at Condition 32 and an Aftercare Scheme at Condition 38. The latter Aftercare Scheme condition seeks detail of the steps to be taken to bring the quarried land to the required standard for the proposed after uses as depicted on Drawing No. 5526 L 03 rev D (Overall Landscape Restoration Plan). This requires the production of an outline strategy for the five year aftercare period in accordance with the technical guidance included within the National Planning Policy Framework (NPPF).

1.4. This document together with the supporting proposal plans, management/ maintenance schedule and habitat and planting species lists have been prepared to satisfy Conditions No. 32 and 38 of the planning approval.

Structure and Scope

1.5. The Aftercare Scheme provides an Outline Strategy and programme for the following aspects of the restoration and aftercare proposals:

- Timing and types/ pattern of vegetation establishment;
- Cultivation methods and any secondary land treatments;
- Soiling depths and management;
- Any drainage, irrigation or watering requirements;
- Management and maintenance of proposed and existing vegetation;

1.6. The monitoring and inspection programme confirms the steps to be undertaken on an annual basis but should be reviewed and updated where necessary as part of the annual visits and review.

Planning Background

1.7. Limestone extraction at Collyweston Quarry has been carried out for a number of decades. Operations have been active since the grant of planning permission by Northamptonshire County Council in the early 1980's. Permission was granted for the extension of limestone quarry and
backfilling with inert waste under planning permission reference EN/88/809C. The continuation of inert filling of quarry void was permitted by 92/00434/CRA. On 4th February 1999, permission was granted for an extension in time of planning permission EN/88/809C for continued quarrying operation (Ref: EN/98/374C) at the site until 31st December 2014. A planning application for an extension of time for restoration operations (ref: 13/0121/MINVOC) until 30th October 2015 was approved on 1st April 2014.

1.8. An eastern extension to the quarry was granted planning permission on 2nd November 2006 - reference EN/06/1279C. This provided for an additional area of extraction with backfilling and restoration facilitated by the importation of inert waste.

1.9. A planning application for a Western Extension has a committee resolution to grant planning permission subject to S106 legal agreement with the County Council to secure the cessation of working in the eastern extension site area, and to secure its early restoration in-line with an agreed (revised) restoration scheme and appropriate aftercare regime. The S106 is well progressed and it is therefore likely that permission will be granted when this is completed in the near future.

1.10. The site that is subject to the current application has been used for the extraction of limestone and Collyweston Slate Log since permission was first granted for mineral extraction at the application site on 14th December 1998 by Northamptonshire County Council. This permission - reference EN/97/802C - provided for the continued extraction of limestone and backfilling of the quarry with inert waste materials. On the 1st of April 2014 Variation of Condition 30 of planning application EN/97/802C was granted for the extension of time for infilling and restoration operations until 31st December 2016 (Ref: 13/00120/MINVOC).

**Existing Landscape Context and Conserved Features**

1.11. Retained habitats are limited to some existing hedgerows around the perimeter of the working site area. Existing farmland lies immediately to the south of the site. Farmland also lies in part to the east and to the west although it should be noted that some of the land to the east is the subject of a planning approval for an extension to the quarry and part of the land to the west is the subject of a current application for an extension to the quarry, which as discussed above has a committee resolution to grant planning permission subject to S106 legal agreement.

1.12. Existing woodlands lie a relatively short distance beyond the immediately surrounding farmland to the east and south of the site.
2.0 RESTORATION PROPOSALS

2.1. The restoration proposals for the land subject to the approval under NCC Ref: 13/00120/MINVOC are shown as part of the wider restoration proposals for the quarry on Drawing No. 5526 L 03 rev D.

2.2. The scheme will restore the land to farmland with a series of fields reconnected to the existing surrounding fields and new field boundaries formed by new native hedgerows and hedgerow trees with suitable field margins. The aim is to restore the land to reflect the former use of the site and the existing character of that presently adjoining the site to the south. The originally stripped soils will be used for the agricultural land and planted boundaries and woodland belt.

2.3. All restored areas would be closely monitored throughout the 5 year aftercare period. This outline scheme provides the overall objectives for the management of the site and the main management activities. The restored land will be inspected and resurveyed annually in order to determine the need for and the kind of further remedial works necessary in order to achieve the overall objectives of the scheme. This could include the implementation of any soil loosening programme and the addition of drainage measures, fertilisers and soil conditioners.

Landform and Drainage

2.4. The site shall be re-profiled as shown on Drawing No. 5526 L 03 Rev A (Proposed Levels). This profiling will include a range of relatively gentle slope profiles which will reflect the existing surrounding landform characteristics and variations and the former underlying landform. The restored landform will be in keeping with the surrounding topography and will allow the land to drain naturally into the underlying ground. No formal land drainage or soak away systems are proposed to be installed. Any area of the site significantly affected by surface ponding should be regraded to resolve the problem by filling the depression to the permitted restoration contours with suitable materials.

Soil Replacement and Preparation

2.5. The restored land will be finished with a one metre depth of clean subsoil and topsoil derived from the stored stockpiles on site. All soil handling operations will be carried out in accordance with the guidance set out within the ‘Protecting our Water, Soil and Air - A Code of Good Agricultural Practice for farmers, growers and land managers’ (DEFRA) and ‘Construction Code of Practice for the Sustainable Use of Soils on Construction Sites’ (DEFRA and Wrap).

2.6. The method of soil placement should ensure that this is not overly compacted. Subsoil’s then topsoil’s should be tipped and graded to approximate levels in one operation with minimum of trafficking by plant. Once the soils have been replaced and formed to the proposed final landform levels, it may be ripped (typically to a depth of 0.4m at 0.6m spacings) to alleviate any compaction prior to cultivation and planting. The need for this operation would be assessed following completion of the soiling and profiling. The finished soils would also be stone picked prior to cultivation and use for agricultural purposes.

2.7. For the restored agricultural land, ploughing will typically be followed by discing or power harrowing to produce a seedbed. The most appropriate cultivation methods will be used according to the soil and weather conditions, and the requirements of the crop to be grown and this will be determined close to the time of the re-use of this land. The subsequent management
of the agricultural land is likely to be in accordance with the current practices employed on the adjoining existing farmland.

**Proposed habitats and planting**

**Management Objectives**

2.8. The main objectives for the habitat and planting works are based upon restoring the former field boundaries and enhancing the nature conservation value of the site and its connectivity with its surroundings. Satisfying these general objectives will deliver local ecological, landscape and visual and benefits and contribute towards various Local BAP habitats and species at a localised scale.

2.9. Management efforts will in particular focus on the successful establishment of the native hedgerows and hedgerow trees, together with suitable field margins. Feedback from site monitoring should be applied to appropriate refinement and/or revision of the management works, so long as the modifications that are agreed are in accordance with the general aims and objectives set out above.

**Existing Hedgerow Trees**

**Extent and Description**

2.10. A very small number of individual hedgerow trees exist on the north west and north east corners of this southern quarry area, along the existing hedgerow boundaries that border the site.

**Objectives and Requirements**

2.11. The objectives of the management measures will be to maintain and enhance the contribution of these trees should they provide a positive contribution in landscape or biodiversity terms. Any management works would be undertaken as part of the new hedgerow proposals, with the ongoing and longer term operations centred upon maintaining the trees in a good and healthy condition.

**Existing Hedgerows**

**Extent and Description**

2.12. Very limited sections of hedgerow exist around the site, although there are a small number that cross the surrounding fields and connect to the site’s perimeter. These hedgerows comprise largely native species and are of a reasonable diversity. The existing hedgerows offer foraging and commuting habitat for wildlife and form connections between existing woodlands and other existing hedgerows.

**Objectives and Requirements**

2.13. The management objectives for the existing conserved hedgerows along the site’s boundary are to:

- to improve the connectivity and condition of these hedgerows;
• to extend their function as habitat corridors between the restored hedgerows within the site and the existing surrounding woodlands and other habitats;
• to enhance their visual amenity and diversity;

Proposed Woodland Belt Planting

Extent and Description

2.14. A new woodland belt (approximate length; 220 metres and approximate width; 15 metres) is proposed extending broadly north – south across part of the restored landscape and acting as a broader planted field boundary. This new woodland belt will connect two new hedgerows. The woodland belt will incorporate native tree and shrub species to reflect those existing within the existing nearby woodland, tree belts and hedgerows.

2.15. Species mixes, densities, sizes and other relevant planting information for this planting will be agreed.

Objectives and Requirements

2.16. The management for this planting belt will seek to encourage the establishment and natural development of the trees via a largely non or limited intervention policy. The management objectives will include for maximising its nature conservation interest in the longer term and for ensuring connectivity with the existing surrounding woodland and hedgerows.

Proposed Hedgerows

Extent and Description

2.17. Approximately 820 metres of new hedgerows will be planted across the site, largely reflecting the location of the former hedgerow boundaries prior to the quarrying operations.

Objectives and Requirements

2.18. The objectives of the longer term management of the new hedgerows will seek to enhance these features as part of a network of wildlife corridors and links to the existing surrounding habitats. In general, this will be realised through the creation of medium to tall thick and continuous hedgerows, incorporating hedgerow trees and grassland to the base.

2.19. The creation of the new hedgerows (and management of those conserved) will provide foraging/commuting habitat for wildlife and will restore linkages between habitats. Once mature, the newly created hedgerows will also provide nesting habitat for breeding birds.

Proposed Field Margins

Extent and Description

2.20. There will be newly created yet largely limited areas of grassland established around the field margins and to the base of the new hedgerows and woodland belt planting. The field margins will be established and maintained to a minimum of 2.5 metres wide either side of the existing and proposed hedgerows.
Objectives and Requirements

2.21. The primary objective for the new grassland/field margins will be to:

- achieve a diverse grassland edge/field margin of locally occurring species;
- provide a complementary edge habitat to the surrounding conserved and new hedgerows and woodland belts;
- offer and strengthen feeding and foraging habitats.

2.22. New field margins may be established on both areas of subsoil or topsoil. On areas of topsoil (anticipated only if more infertile subsoil’s cannot be used), the placed soils will be left fallow for as long as practicable before seeding. Weed growth during this time should be controlled by suitable herbicides, prior to cultivation and seeding. Subsoil’s may also be left fallow before cultivation and seeding.

3.0 MONITORING AND REVIEW

3.1. All of the restored land will be inspected at least once a year, during the first 5 years (the aftercare period). In summary, the inspections will aim to:

- review the use and condition of the agricultural land;
- review the establishment and management of all plants;
- identify the presence of any invasive or undesirable species;
- identify any remedial actions and maintenance measures that would improve the agricultural land or the conserved or new habitats and landscape features;
- ensure management works and any remedial actions have been undertaken.

3.2. During the five year aftercare period the annual inspection will monitor the effectiveness of the current aftercare operations in achieving the objectives for each of the land use and habitat management categories. The annual inspection visit should be attended by representatives of the landowners/site operator and the Mineral Planning Authority. If considered necessary the aftercare plan would then be revised and operations for the following year adjusted, as a practical means of dealing with the management of the site.

3.3. All of the monitoring will cover the requirements as detailed in the accompanying schedule below.
APPENDIX A

Landscape and Habitats Maintenance Schedule – Summary of Aftercare (5 year period):
### Appendix A Landscape and Habitats Maintenance Schedule – Summary of Annual Operations over the Aftercare (5 year) period

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<td><strong>New Woodland Belt planting</strong></td>
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<tr>
<td>Task</td>
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<td>Keep planting areas generally weed free (first 3 years)</td>
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<tr>
<td>Firm loose plants, check guards and ties, prune any damaged growth</td>
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<tr>
<td>Remove rabbit guard protection (where included) when established</td>
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<tr>
<td>Cut back vegetation where necessary to prevent encroachment</td>
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<tr>
<td>Replace all dead or dying newly planted trees or hedgerow plants</td>
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<tr>
<td><strong>Litter clearance</strong></td>
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<tr>
<td>All grass, hedge/tree groups and planting belt to be subject to litter picks as required.</td>
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<tr>
<td><strong>Landscape Management Plan and Maintenance Schedule</strong></td>
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<tr>
<td><strong>Annual Review</strong></td>
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<tr>
<td>Annual Review of Landscape Management Plan and Maintenance Schedule and agreement of any variations</td>
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</tbody>
</table>
APPENDIX B

Planting Mixes and Species:
# Planting Species and Mixes

## 1. Proposed Woodland Belt Planting

To comprise tree and shrub species as follows:

<table>
<thead>
<tr>
<th>Species</th>
<th>Common Name</th>
<th>%</th>
<th>Sizes</th>
<th>Centres/Density</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Acer campestre</em></td>
<td>Field Maple</td>
<td>12</td>
<td>60 - 80cm</td>
<td>1.25m centres</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3</td>
<td>1.5 - 2.5m</td>
<td>See notes below</td>
</tr>
<tr>
<td><em>Alnus glutinosa</em></td>
<td>Common Alder</td>
<td>12</td>
<td>60 - 80cm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3</td>
<td>1.5 - 2.5m</td>
<td></td>
</tr>
<tr>
<td><em>Betula pendula</em></td>
<td>Silver Birch</td>
<td>10</td>
<td>60 - 80cm</td>
<td></td>
</tr>
<tr>
<td><em>Corylus avellana</em></td>
<td>Hazel</td>
<td>10</td>
<td>60 - 80cm</td>
<td></td>
</tr>
<tr>
<td><em>Fagus sylvatica</em></td>
<td>Beech</td>
<td>5</td>
<td>60 - 80cm</td>
<td></td>
</tr>
<tr>
<td><em>Prunus avium</em></td>
<td>Bird Cherry</td>
<td>10</td>
<td>60 - 80cm</td>
<td></td>
</tr>
<tr>
<td><em>Prunus spinosa</em></td>
<td>Blackthorn</td>
<td>5</td>
<td>60 - 80cm</td>
<td></td>
</tr>
<tr>
<td><em>Quercus robur</em></td>
<td>Pendunculate Oak</td>
<td>15</td>
<td>60 - 80cm</td>
<td></td>
</tr>
<tr>
<td><em>Salix caprea</em></td>
<td>Goat Willow</td>
<td>7</td>
<td>60 - 80cm</td>
<td></td>
</tr>
<tr>
<td><em>Malus sylvestris</em></td>
<td>Crab Apple</td>
<td>3</td>
<td>30 - 50cm</td>
<td></td>
</tr>
</tbody>
</table>

Plants would be planted in random single species groups of 3 – 15 plants at 1.25 metre centres.

Planting sizes will vary from whips/ transplants up to feathered stock. The majority of plants will be whips/ transplants. The anticipated proportion of sizes across the mixes will be as follows:

- Whips/ Transplants (40 – 80cm) or Containerised/ Pot Grown Plants (30-60cm) 89%
- Feathered (1.5 – 2.5m) 11%

All planting areas would be protected where appropriate with rabbit tree/ shrub guards or rabbit proof fencing.

Feathered stock to be supported by appropriate stakes and ties.
2. **Trees – Individual and Hedgerow Tree Specimens**

To comprise the following species:

<table>
<thead>
<tr>
<th>Species</th>
<th>Common Name</th>
<th>Size (girth)</th>
<th>Centres/ Density</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Acer campestre</em></td>
<td>Field Maple</td>
<td>EHS 14-16cm</td>
<td>Individual sited within the Landscape</td>
</tr>
<tr>
<td><em>Alnus glutinosa</em></td>
<td>Common Alder</td>
<td>EHS 14-16cm</td>
<td>Restoration as shown on the Proposals Plan(s).</td>
</tr>
<tr>
<td><em>Tilia cordata</em></td>
<td>Small leaved Lime</td>
<td>EHS 14-16cm</td>
<td></td>
</tr>
<tr>
<td><em>Malus sylvestris</em></td>
<td>Crab Apple</td>
<td>EHS 14-16cm</td>
<td></td>
</tr>
<tr>
<td><em>Quercus robur</em></td>
<td>Pendunculate Oak</td>
<td>EHS 14-16cm</td>
<td>Plan(s).</td>
</tr>
</tbody>
</table>

Hedgerow trees to be planted randomly along the length of the hedgerows. Approximate positions as shown on plan. Final positions to be confirmed on site by landscape architect/contract administrator.

All trees to be supported with stakes and ties. Tree pit sizes and preparation to be as per the accompanying specification.

3. **Hedgerow Planting**

To comprise the following species:

<table>
<thead>
<tr>
<th>Species</th>
<th>Common Name</th>
<th>%</th>
<th>Size</th>
<th>Centres/ Density</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Acer campestre</em></td>
<td>Field Maple</td>
<td>10</td>
<td>60 - 80cm</td>
<td>To be planted as a double staggered row with plants at 350mm centres and rows set 350mm apart i.e. average of 5.7 plants per linear metre.</td>
</tr>
<tr>
<td><em>Corylus avellana</em></td>
<td>Hazel</td>
<td>5</td>
<td>60 - 80cm</td>
<td></td>
</tr>
<tr>
<td><em>Crataegus monogyna</em></td>
<td>Hawthorn</td>
<td>50</td>
<td>60 - 80cm</td>
<td></td>
</tr>
<tr>
<td><em>Euonymus europaeus</em></td>
<td>Spindle</td>
<td>10</td>
<td>60 - 80cm</td>
<td></td>
</tr>
<tr>
<td><em>Ilex aquifolium</em></td>
<td>Holly</td>
<td>5</td>
<td>30 – 40cm</td>
<td>2L/3L pot</td>
</tr>
<tr>
<td><em>Ligustrum vulgare</em></td>
<td>Wild Privet</td>
<td>5</td>
<td>60 - 80cm</td>
<td></td>
</tr>
<tr>
<td><em>Prunus spinosa</em></td>
<td>Blackthorn</td>
<td>10</td>
<td>60 - 80cm</td>
<td></td>
</tr>
<tr>
<td><em>Rosa arvensis</em></td>
<td>Field Rose</td>
<td>2</td>
<td>40 - 60cm</td>
<td></td>
</tr>
<tr>
<td><em>Viburnum opulus</em></td>
<td>Guelder Rose</td>
<td>3</td>
<td>60 - 80cm</td>
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</tr>
</tbody>
</table>

All hedgerow planting would be protected where appropriate with rabbit tree/shrub guards and supports.

4. **Proposed grassland to hedgerow bottoms/ field margins**

Grass seed mix to comprise the following species:

- Chewing Fescue
- Creeping Fescue
- Red Fescue
- Smooth Stalked Meadow Grass
- Meadow Fescue
- Browntop Bent
- Sheeps Fescue
- Westenwald’s Rye Grass
DRAWINGS

Drawing No. 5526 L 03 Rev D Collyweston Overall Landscape Restoration

Drawing No. 5526 L 03 Rev A Proposed Levels
Central/ Western/ Eastern Site areas
Conserved hedgerow and trees
Proposed hedgerow and trees (Planted or to be planted)
Public Rights of Way (within the site)
Restored Farmland
Proposed Grassland Field Margins
Restored Contours

Central permission boundaries
MINVOC (North) & MINVOC (South)
Eastern Permission Boundary
EN96/1279C
Western Application Boundary

KEY:
Proposed grassland, scrub and woodland edge planting
Restored farmland
Planting test beds
Restored land
Retained hedgerow and trees
Public Rights of Way

The Assarts
Grassland margin (approx 5-15m) to field edge to incorporate public right of way

Restored farmland fpcr

FPCR Environment and Design Ltd
Lockington Hall
Lockington
Derby   DE74 2RH
t:   01509 672772
f:   01509 674565
e:  mail@fpcr.co.uk
w: www.fpcr.co.uk
Proposed Levels

1:2500 @ A1
June 2013

Bullimore Sand and Gravel Ltd.
Collyweston Quarry
Northants

HRET

FPCR Environment and Design Ltd
Lockington Hall
Lockington
Derby   DE74  2RH
t: 01509  672772
f: 01509  674565
e: mail@fpcr.co.uk
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Bullimore Sand and Gravel Ltd.
Collyweston Quarry
Northants

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