

**Proposed Lawler Quarry Restoration
, Co Kildare
Planning Permission Application Drawings**

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Schedule of Drawings

| Drawing No. | Drawing Title | Scale |
|--------------|--|-----------|
| 191115 - 01 | Location Context Map | 1: 50,000 |
| 191115 - 02 | Site Layout Map | 1: 5,000 |
| 191115 - 03 | Site Location Map | 1: 5,000 |
| 191115 - 04 | Site Layout Map Key Plan | 1: 5,000 |
| 191115 - 05 | Site Key Plan Sheet 1 of 8 | 1: 1,000 |
| 191115 - 06 | Site Key Plan Sheet 2 of 8 | 1: 1,000 |
| 191115 - 07 | Site Key Plan Sheet 3 of 8 | 1: 1,000 |
| 191115 - 08 | Site Key Plan Sheet 4 of 8 | 1: 1,000 |
| 191115 - 09 | Site Key Plan Sheet 5 of 8 | 1: 1,000 |
| 191115 - 10 | Site Key Plan Sheet 6 of 8 | 1: 1,000 |
| 191115 - 11 | Site Key Plan Sheet 7 of 8 | 1: 1,000 |
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| 191115 - 13 | Sections A-A & B-B | 1: 1,000 |
| 191115 - 14 | Indicative Inspection Area Layout | 1: 500 |
| 191115 - 15 | Soil Inspection Shed - Indicative Design | 1: 100 |
| 191115 - SRP | Site Restoration Plan | 1: 4,000 |

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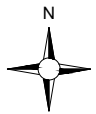
County Kildare

County Wicklow

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Drawing Legend

| | |
|--|-------------------------------|
| | Planning Application Boundary |
| | County Border |



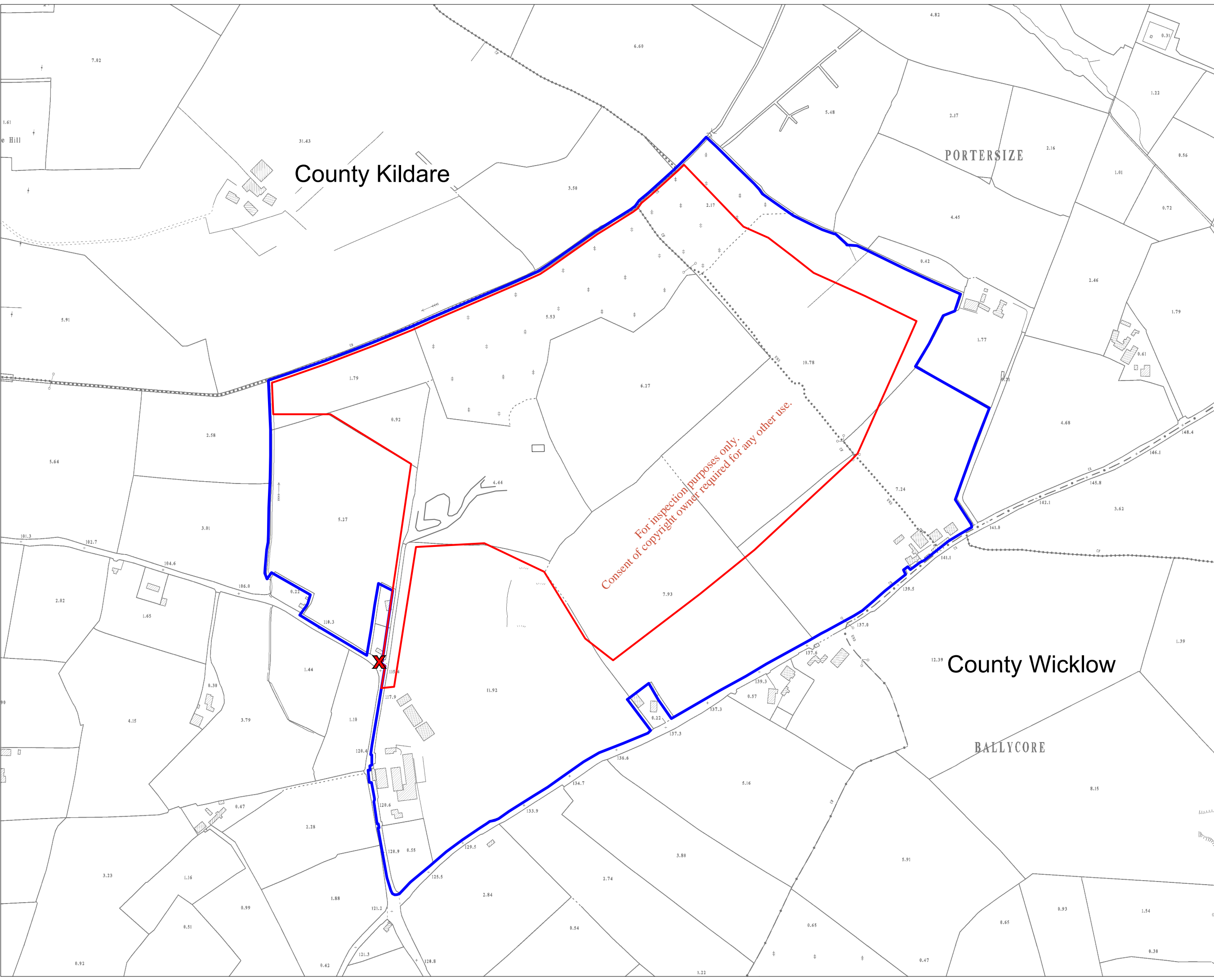
Location Context Map

DRAWING TITLE: **Proposed Lawler Quarry Restoration**

PROJECT TITLE: **Proposed Lawler Quarry Restoration**

| | |
|---|------------------------------------|
| DRAWING BY: Joseph O'Brien | CHECKED BY: Eoin O'Sullivan |
| PROJECT NO.: 191115 | DRAWING NO.: 191115_01 |
| SCALE: 1:50,000 @ A3 | DATE: 05.11.2020 |
| OS SHEET NO.: OS2618, OS2620, OS2818, OS2820 | |

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County Kildare

PORTERSIZE

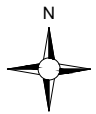
County Wicklow

BALLYCORE

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Drawing Legend

- Planning Application Boundary
- Landowners Boundary
- X Site Notice

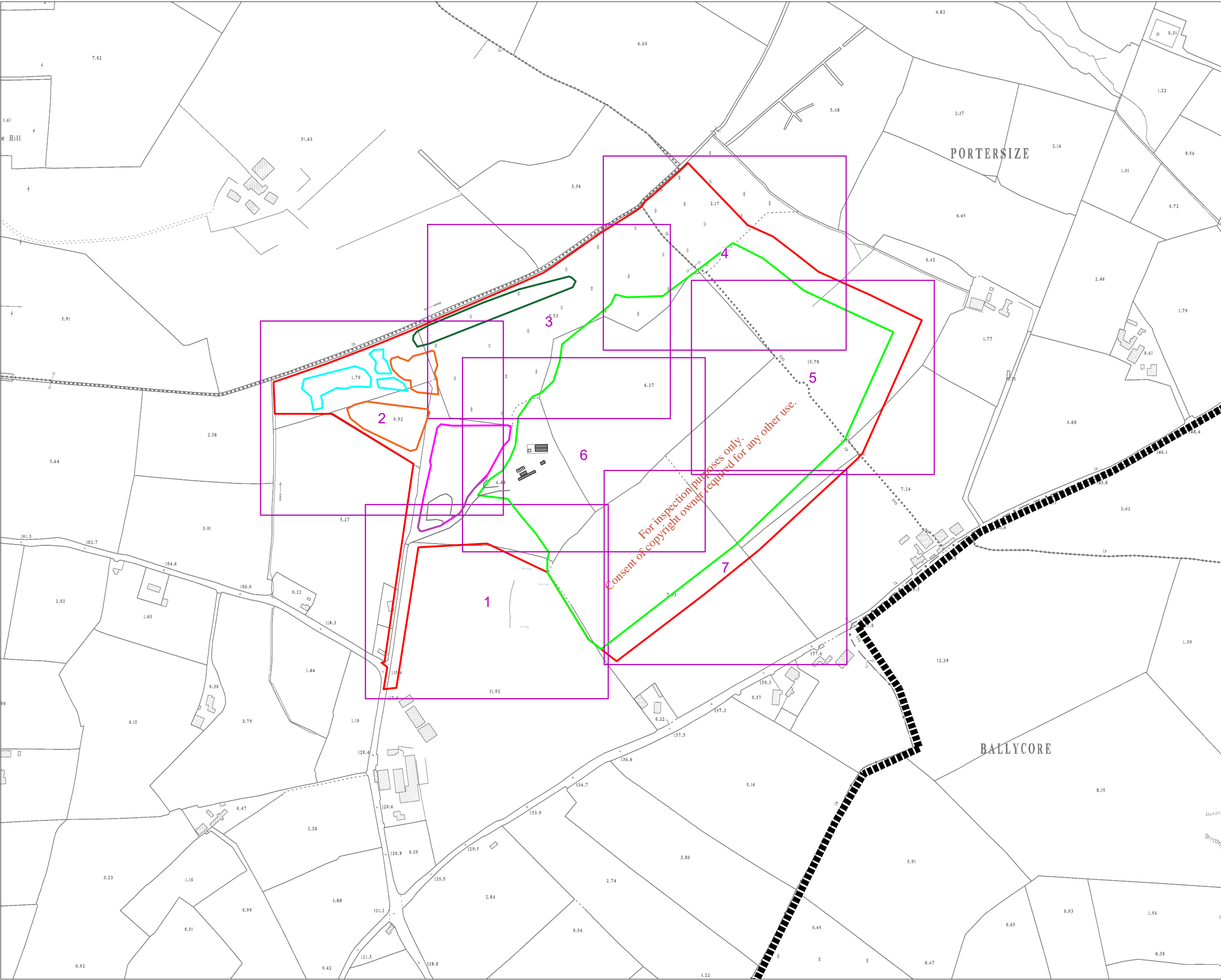


| | |
|---|---------------------------------------|
| Site Location Map | |
| PROJECT TITLE: Proposed Lawler Quarry Restoration | |
| DRAWING BY: Joseph O'Brien | CHECKED BY: Eoin O'Sullivan |
| PROJECT No.: 191115 | DRAWING No.: 191115 - 03 |
| SCALE: 1:5,000 @ A3 | DATE: 05.11.2020 |
| OS SHEET No.: 4008 | |



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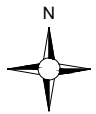
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Drawing Legend

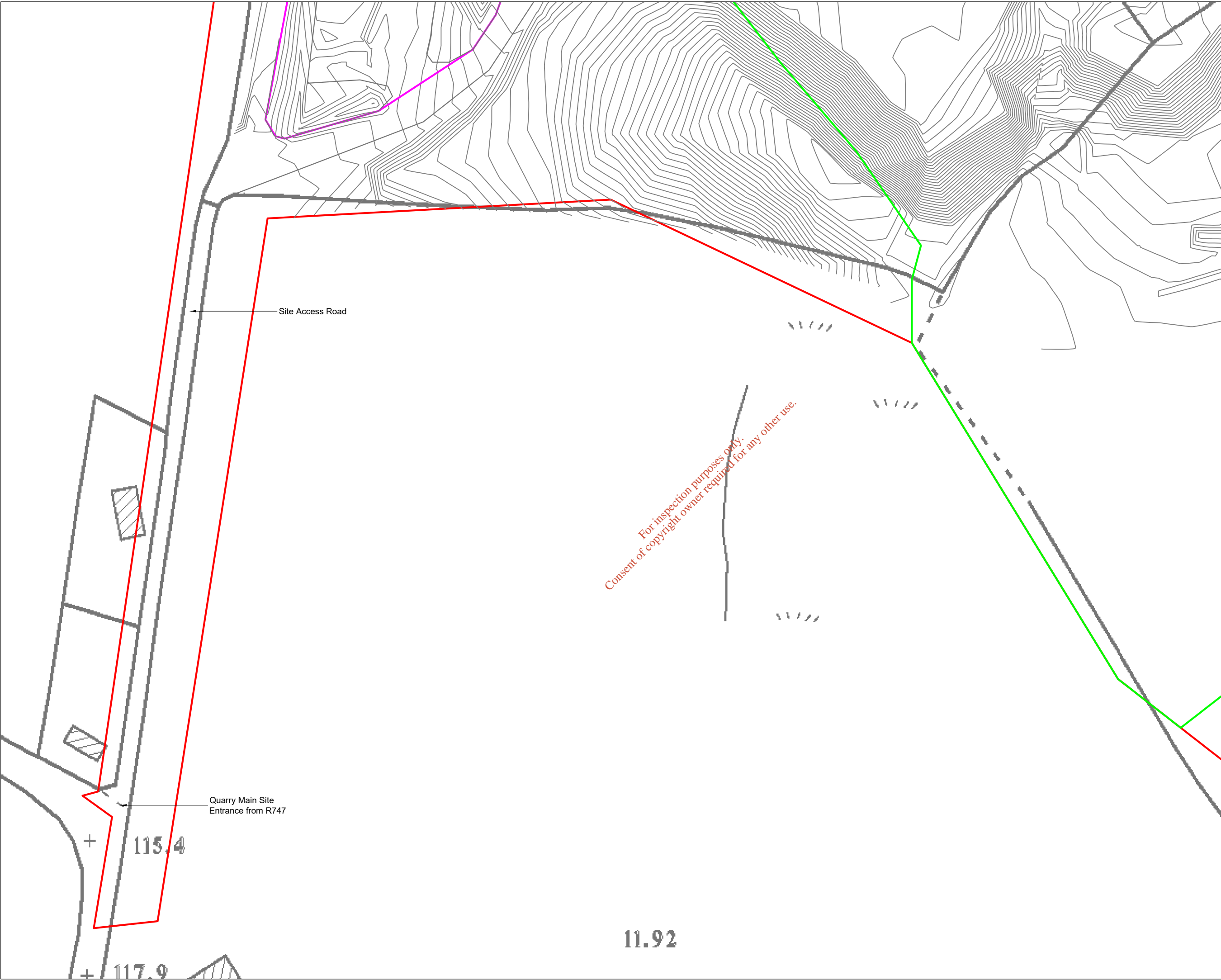
- Planning Application Boundary
- Quarry Void Boundary
- Existing Ponds to be Restored (Aquatic Habitat)
- Raised Mound to be Graded
- Raised Bund to be Planted
- Old Settlement Pond to be Filled



| | |
|--|---------------------------------------|
| DRAWING TITLE: Site Layout Map Key Plan | |
| PROJECT TITLE: Proposed Lawler Quarry Restoration | |
| DRAWING BY: Joseph O'Brien | CHECKED BY: Eoin O'Sullivan |
| PROJECT No.: 191115 | DRAWING No.: 191115 - 04 |
| SCALE: 1:5,000 @ A3 | DATE: 05.11.2020 |
| OS SHEET No.: 4008 | |

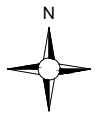
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Drawing Legend

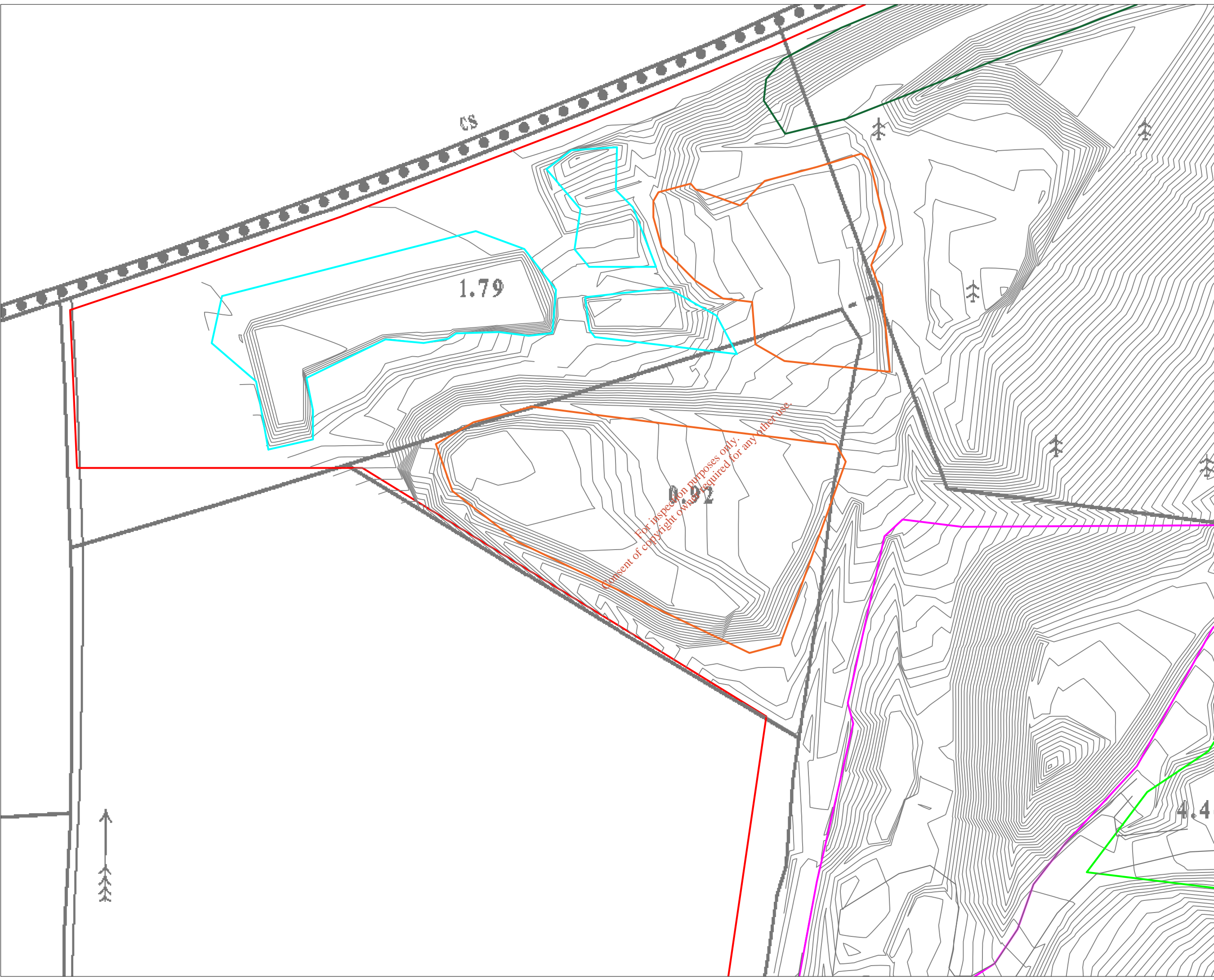
- Planning Application Boundary
- Quarry Void Boundary
- Raised Mound to be Graded



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| | |
|---|---------------------------------------|
| Site Layout Plan | |
| Sheet 1 of 8 | |
| PROJECT TITLE: Proposed Lawler Quarry Restoration | |
| DRAWING BY: Joseph O'Brien | CHECKED BY: Eoin O'Sullivan |
| PROJECT No.: 191115 | DRAWING No.: 191115 - 05 |
| SCALE: 1:1,000 @ A3 | DATE: 05.11.2020 |
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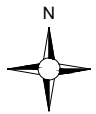
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Drawing Legend

- Planning Application Boundary
- Quarry Void Boundary
- Existing Ponds to be Restored (Aquatic Habitat)
- Raised Mound to be Graded
- Raised Bund to be Planted
- Old Settlement Pond to be Infilled



| | |
|---|---------------------------------------|
| Site Layout Plan Sheet 2 of 8 | |
| PROJECT TITLE: Proposed Lawler Quarry Restoration | |
| DRAWING BY: Joseph O'Brien | CHECKED BY: Eoin O'Sullivan |
| PROJECT No.: 191115 | DRAWING No.: 191115 - 06 |
| SCALE: 1:1,000 @ A3 | DATE: 05.11.2020 |
| OS SHEET No.: 4008 | |

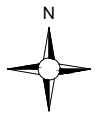
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Drawing Legend

| | |
|--|------------------------------------|
| — | Planning Application Boundary |
| — | Quarry Void Boundary |
| — | Raised Bund to be Planted |
| — | Old Settlement Pond to be Infilled |

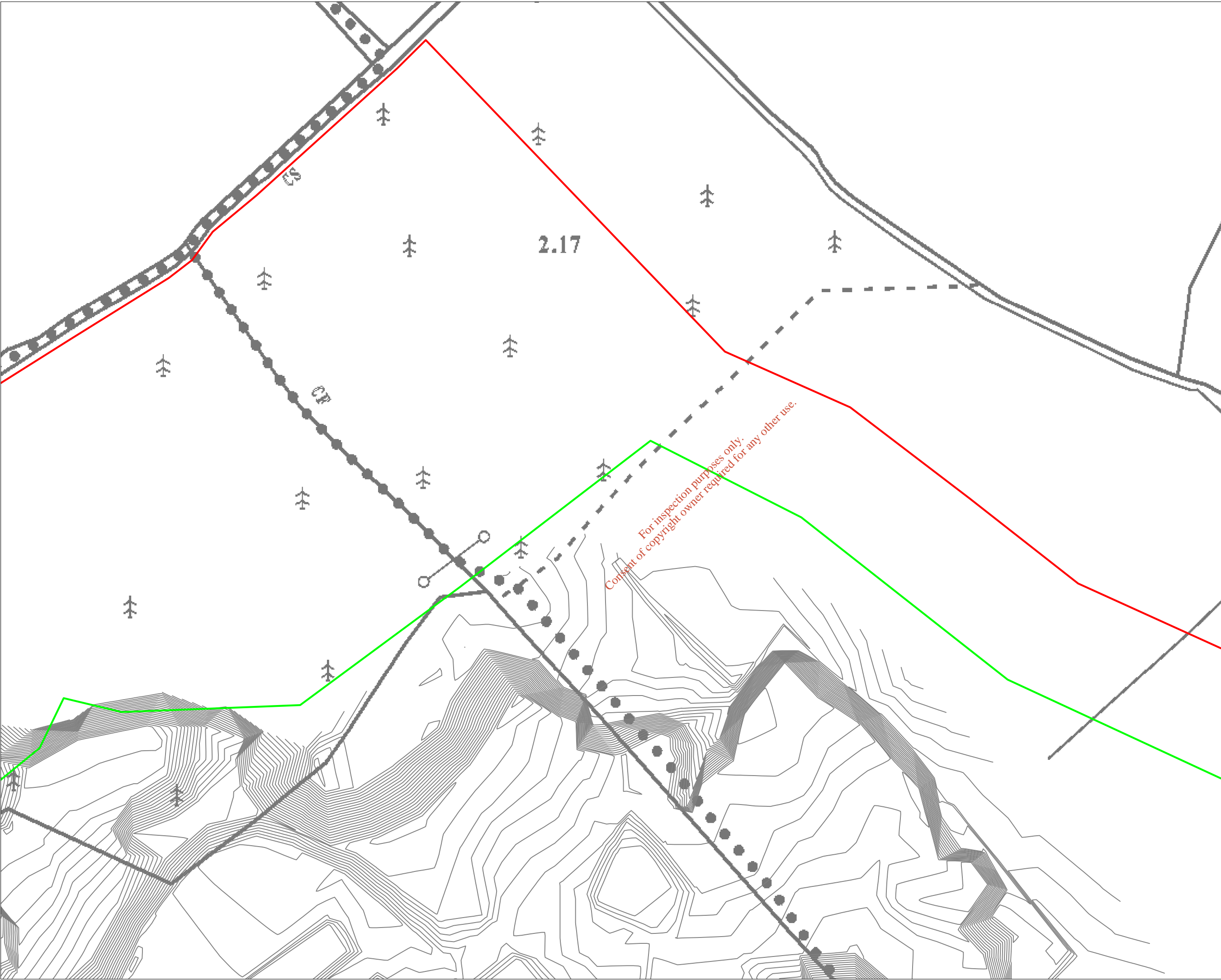


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| | |
|---|---------------------------------------|
| Site Layout Plan | |
| Sheet 3 of 8 | |
| PROJECT TITLE: Proposed Lawler Quarry Restoration | |
| DRAWING BY: Joseph O Brien | CHECKED BY: Eoin O Sullivan |
| PROJECT No.: 191115 | DRAWING No.: 191115 - 07 |
| SCALE: 1:1,000 @ A3 | DATE: 05.11.2020 |
| OS SHEET No.: 4008 | |

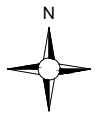


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Drawing Legend

| | |
|---|-------------------------------|
|  | Planning Application Boundary |
|  | Quarry Void Boundary |



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**Site Layout Plan
Sheet 4 of 8**

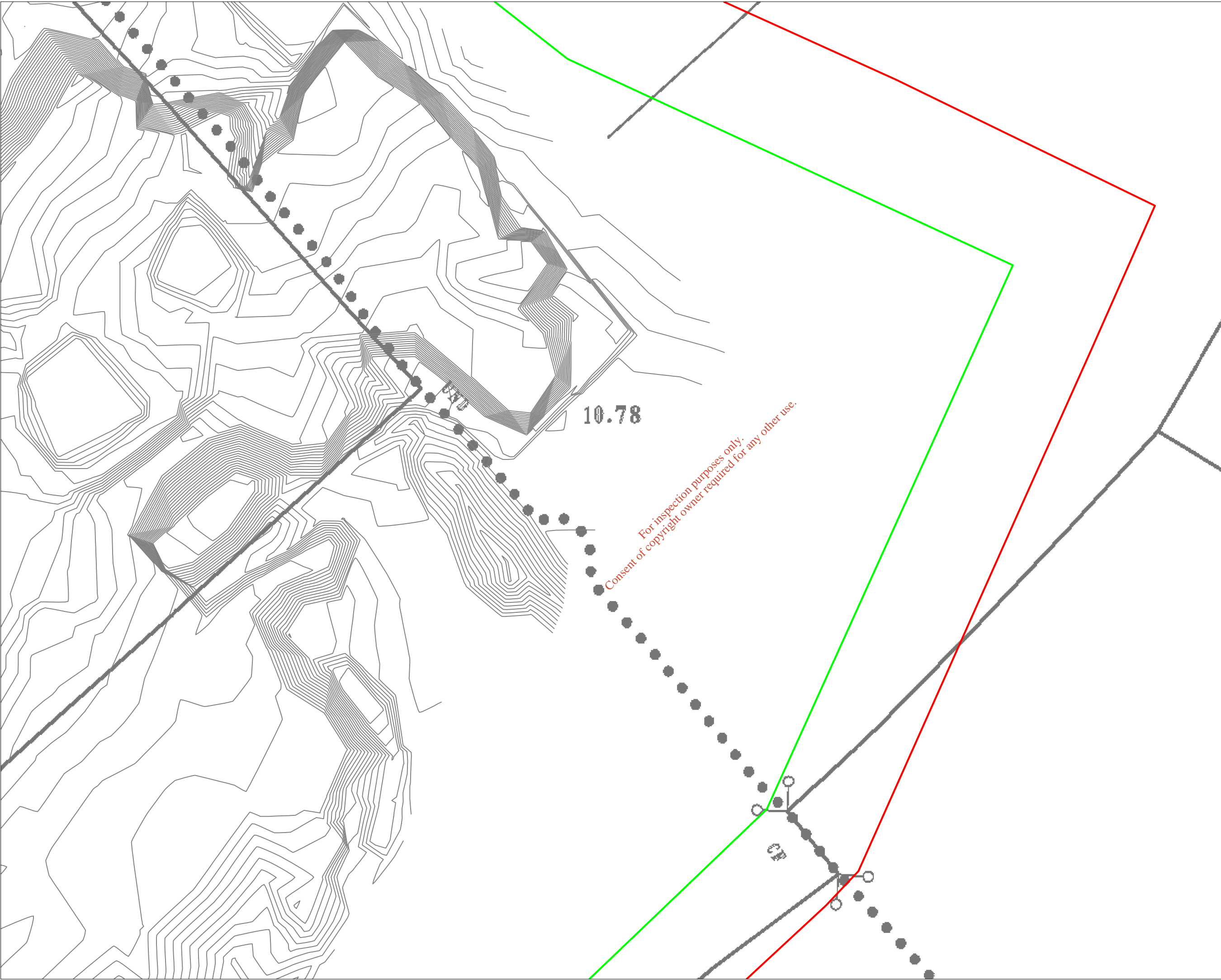
PROJECT TITLE:
Proposed Lawler Quarry Restoration

| | |
|--------------------------------------|---------------------------------------|
| DRAWING BY: Joseph O'Brien | CHECKED BY: Eoin O'Sullivan |
| PROJECT No.: 191115 | DRAWING No.: 191115 - 08 |

| | |
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| SCALE: 1:1,000 @ A3 | DATE: 05.11.2020 |
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OS SHEET No.: 4008

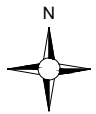
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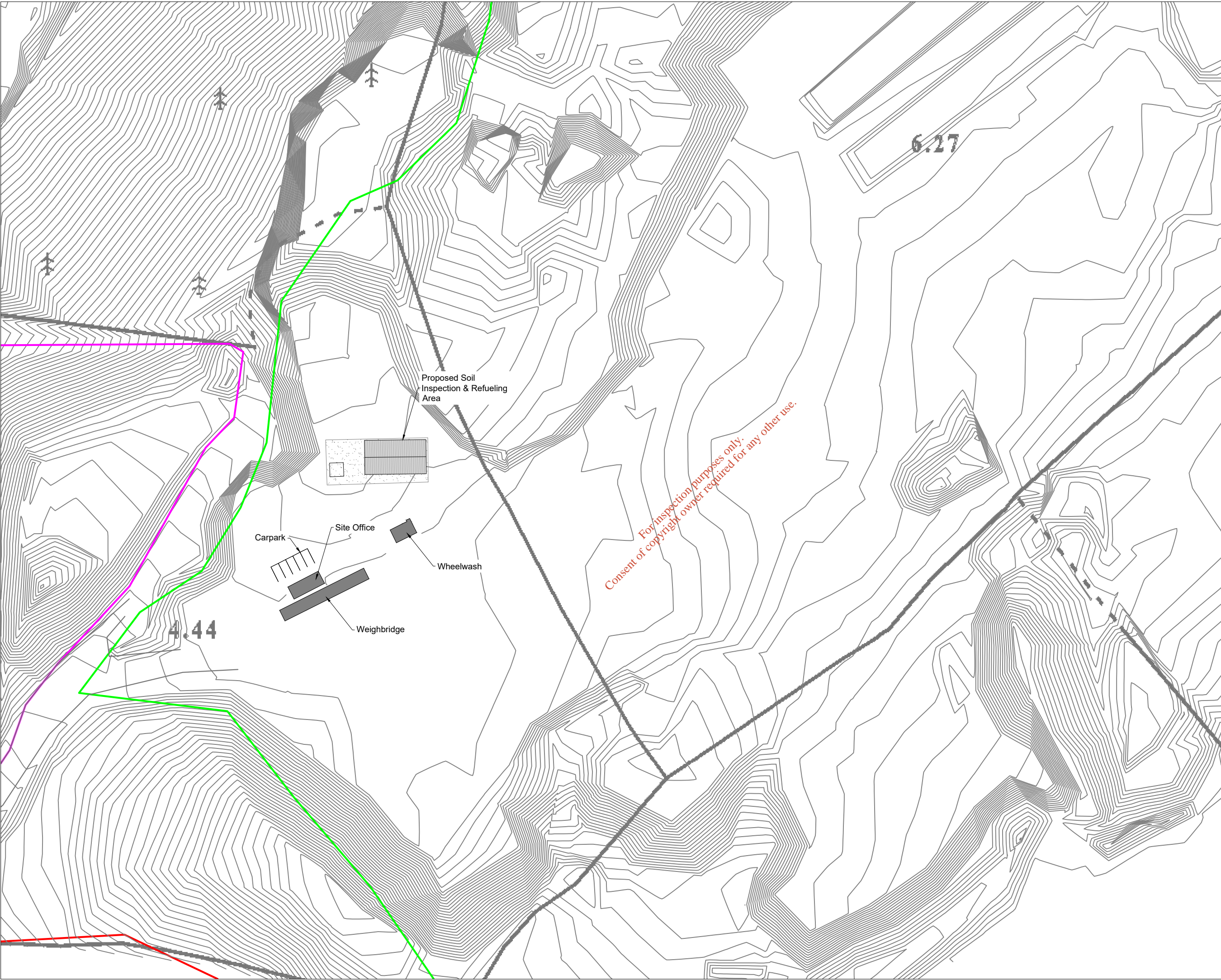
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|--|-------------------------------|
| | Planning Application Boundary |
| | Quarry Void Boundary |



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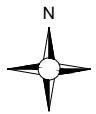
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|---|---------------------------------------|
| Site Layout Plan Sheet 5 of 8 | |
| PROJECT TITLE: Proposed Lawler Quarry Restoration | |
| DRAWING BY: Joseph O Brien | CHECKED BY: Eoin O Sullivan |
| PROJECT No.: 191115 | DRAWING No.: 191115 - 09 |
| SCALE: 1:1,000 @ A3 | DATE: 05.11.2020 |
| OS SHEET No.: 4008 | |

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Drawing Legend

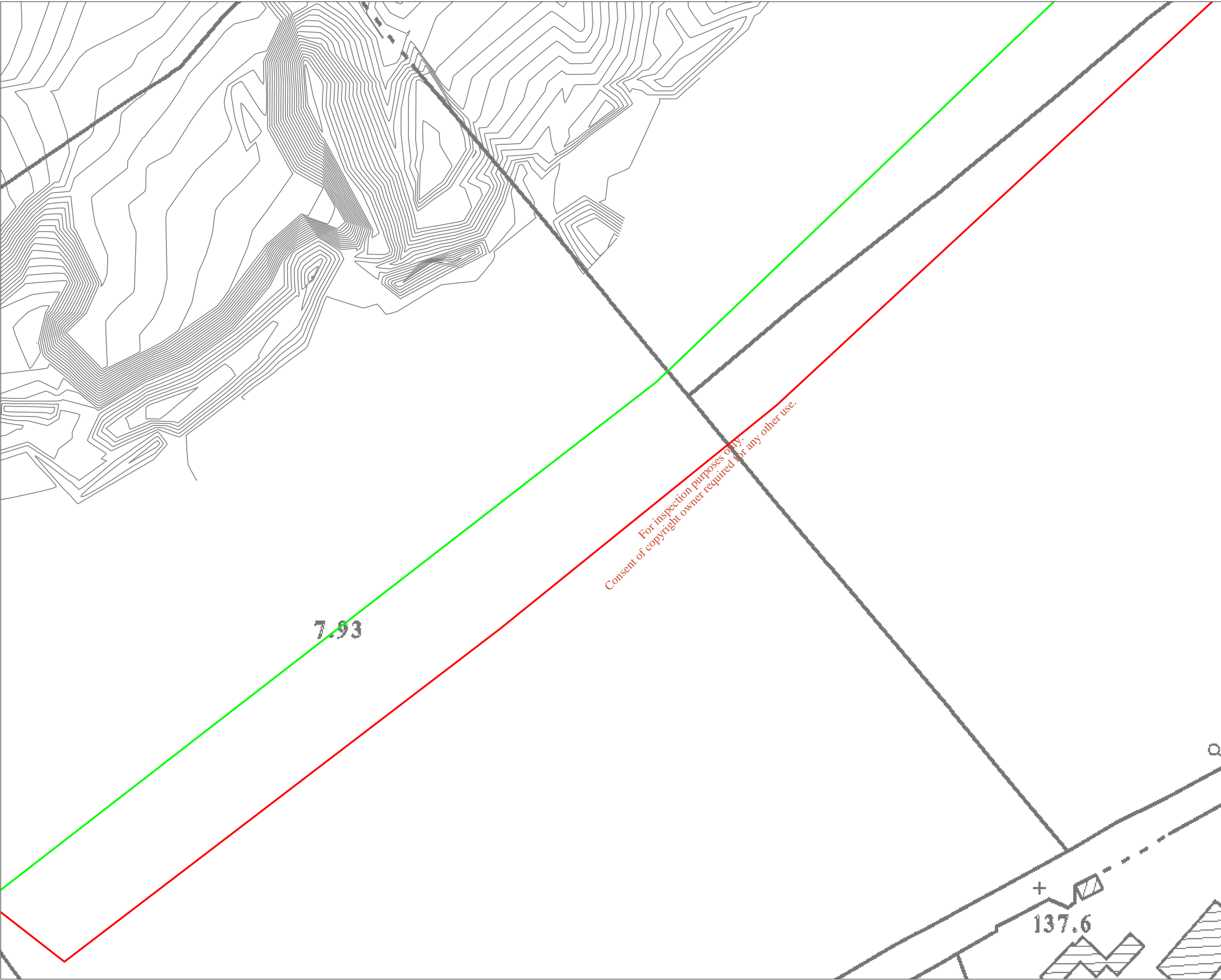
| | |
|--|-------------------------------|
| — | Planning Application Boundary |
| — | Quarry Void Boundary |
| — | Raised Mound to be Graded |



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| | |
|---|---------------------------------------|
| Site Layout Plan | |
| Sheet 6 of 8 | |
| PROJECT TITLE: Proposed Lawler Quarry Restoration | |
| DRAWING BY: Joseph O Brien | CHECKED BY: Eoin O Sullivan |
| PROJECT No.: 191115 | DRAWING No.: 191115 - 10 |
| SCALE: 1:1,000 @ A3 | DATE: 05.11.2020 |
| OS SHEET No.: 4008 | |

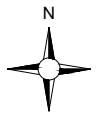
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Drawing Legend

- Planning Application Boundary
- Quarry Void Boundary



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**Site Layout Plan
 Sheet 7 of 8**

PROJECT TITLE: **Proposed Lawler Quarry Restoration**

DRAWING BY: **Joseph O Brien** CHECKED BY: **Eoin O Sullivan**

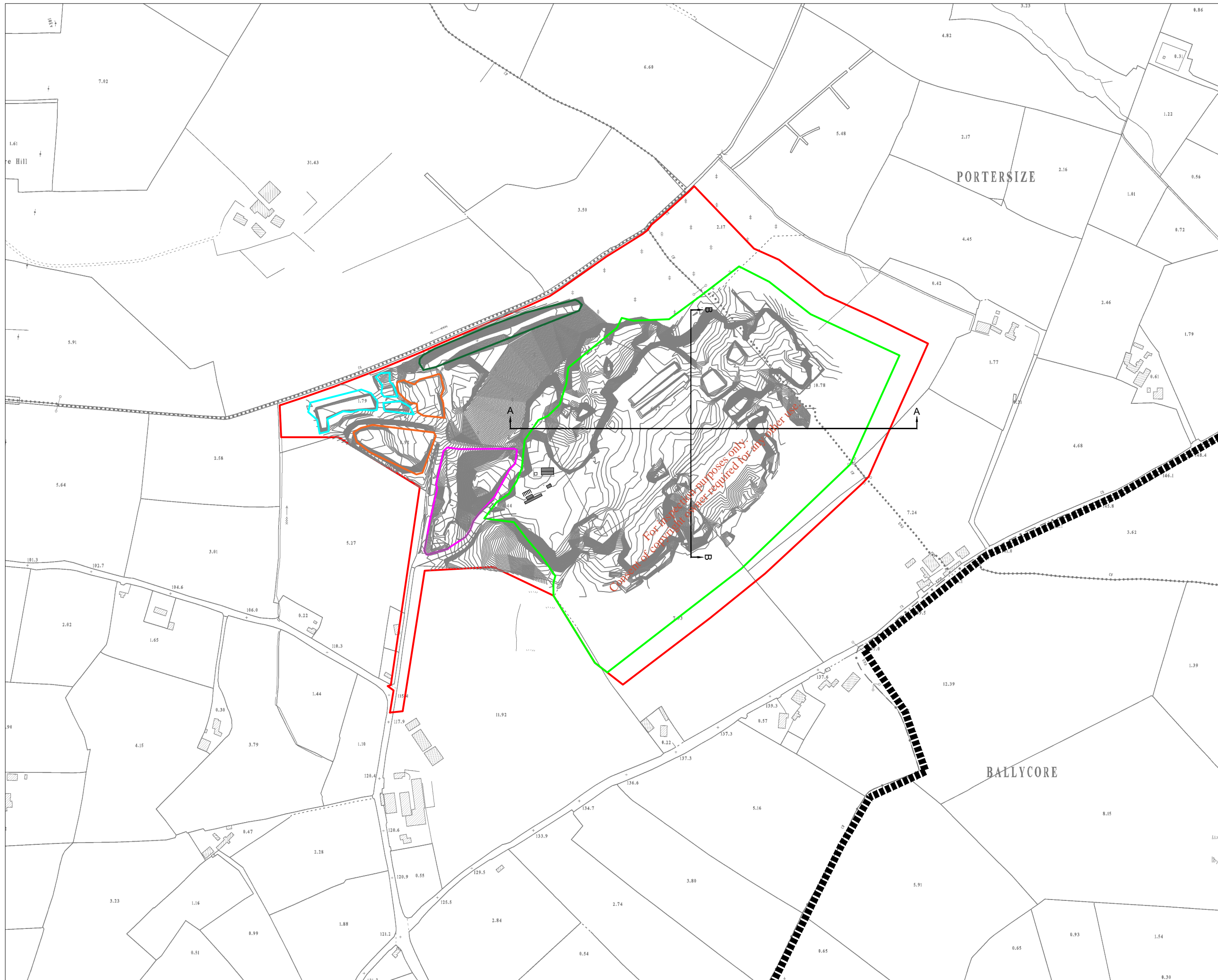
PROJECT No.: **191115** DRAWING No.: **191115 - 11**

SCALE: **1:1,000 @ A3** DATE: **05.11.2020**

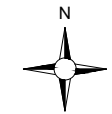
OS SHEET No.: **4008**



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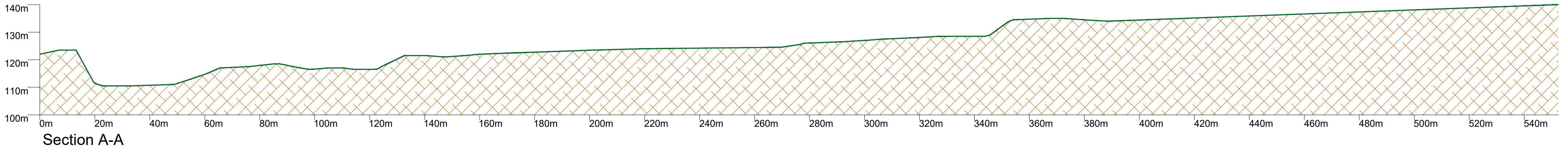
- Drawing Legend**
- Planning Application Boundary
 - Quarry Void Boundary
 - Existing Ponds to be Restored (Aquatic Habitat)
 - Raised Mound to be Graded
 - Raised Bund to be Planted
 - Old Settlement Pond to be Filled



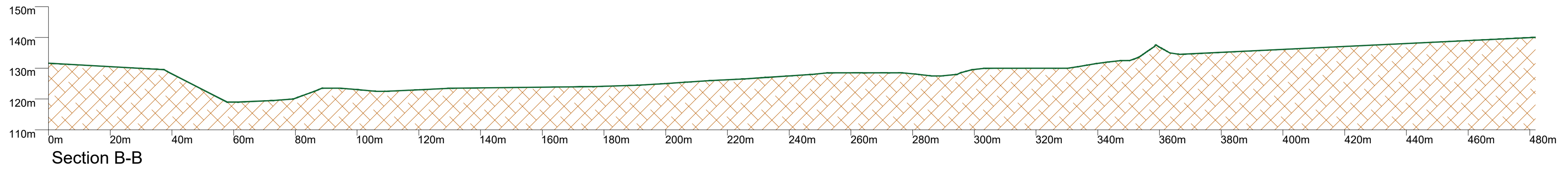
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| | |
|---|------------------------|
| DRAWING TITLE: | |
| Quarry Void Section Map | |
| PROJECT TITLE: | |
| Proposed Lawler Quarry Restoration | |
| DRAWING BY: | CHECKED BY: |
| Joseph O'Brien | Eoin O'Sullivan |
| PROJECT No.: | DRAWING No.: |
| 191115 | 191115 - 12 |
| SCALE: | DATE: |
| 1:5,000 @ A3 | 05.11.2020 |
| OS SHEET No.: | |
| 4008 | |

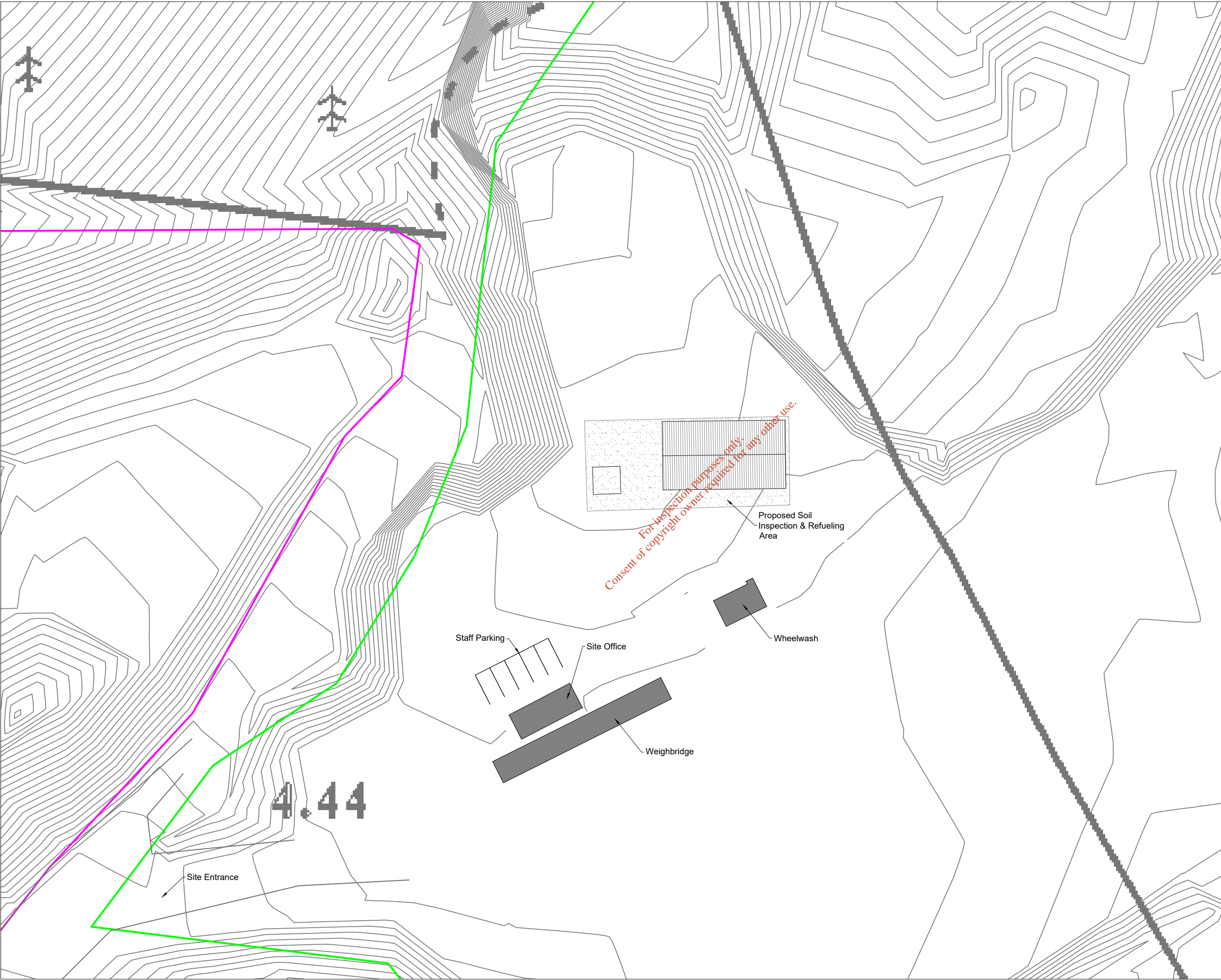
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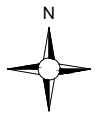


| | |
|---|---------------------------------------|
| DRAWING TITLE: Sections A-A & B-B | |
| PROJECT TITLE: Proposed Lawler Quarry Restoration | |
| DRAWING BY: Joseph O'Brien | CHECKED BY: Eoin O'Sullivan |
| PROJECT No: 191115 | DRAWING No: 191115 - 13 |
| SCALE: 1:1,000 @ A2 | DATE: 05.11.2020 |
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Drawing Legend

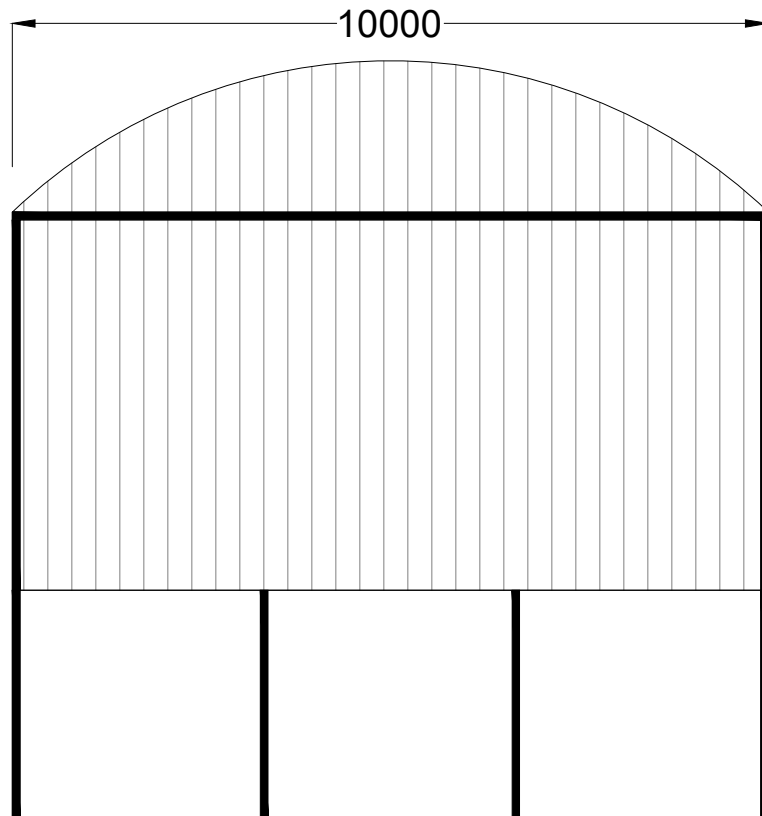
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| — | Planning Application Boundary |
| — | Quarry Void Boundary |
| — | Raised Mound to be Graded |



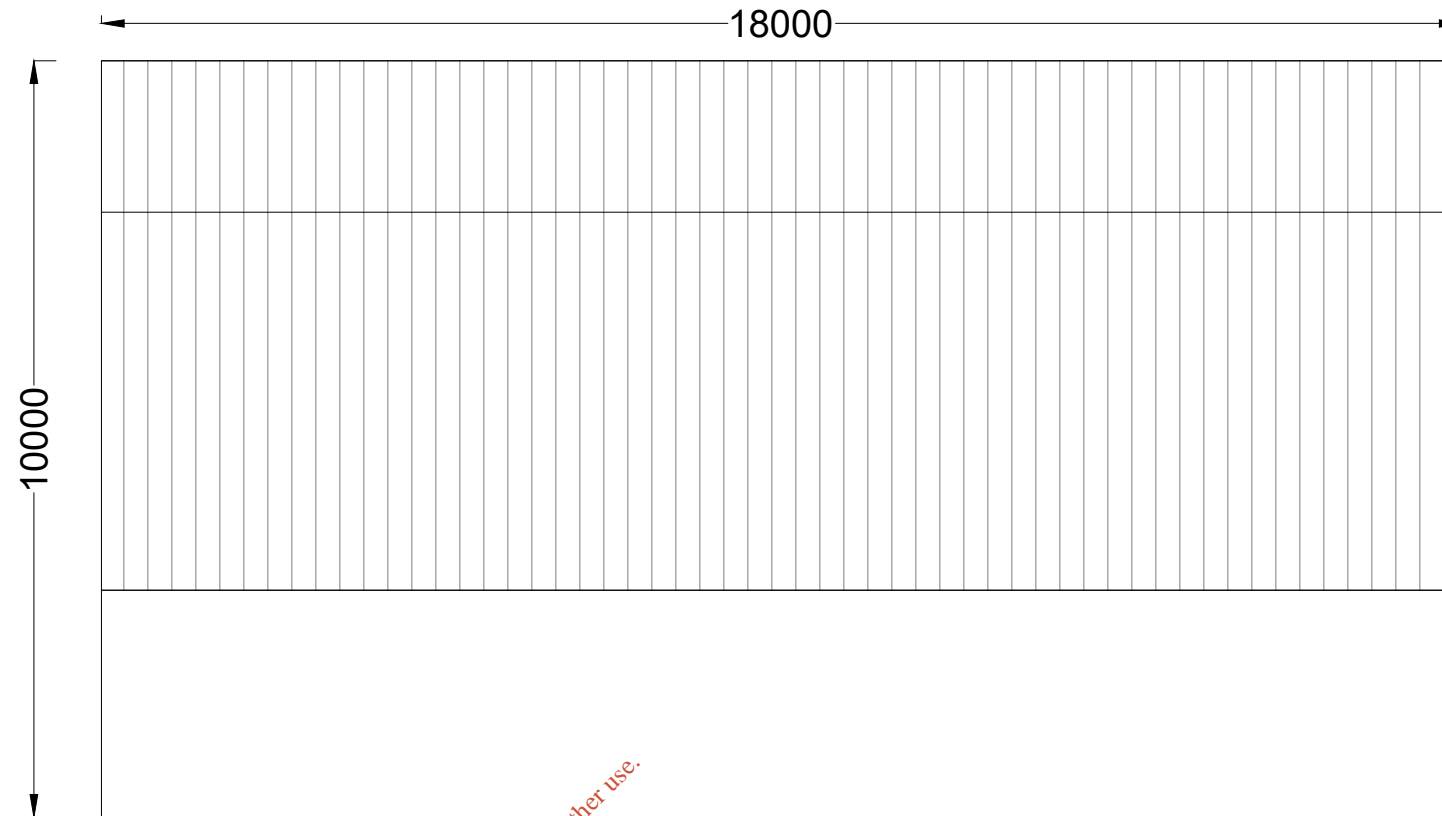
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| | |
|--|---------------------------------------|
| DRAWING TITLE: Indicative Inspection Area Layout | |
| PROJECT TITLE: Proposed Lawler Quarry Restoration | |
| DRAWING BY: Joseph O'Brien | CHECKED BY: Eoin O'Sullivan |
| PROJECT No.: 191115 | DRAWING No.: 191115 - 14 |
| SCALE: 1:500 @ A3 | DATE: 05.11.2020 |
| OS SHEET No.: 6084, 6085, 6130, 6131 | |

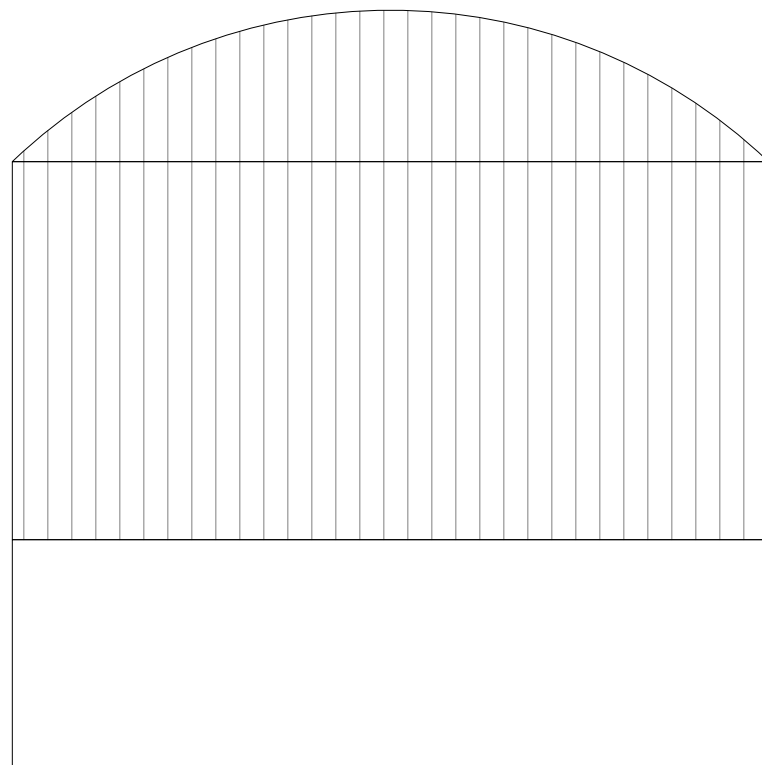
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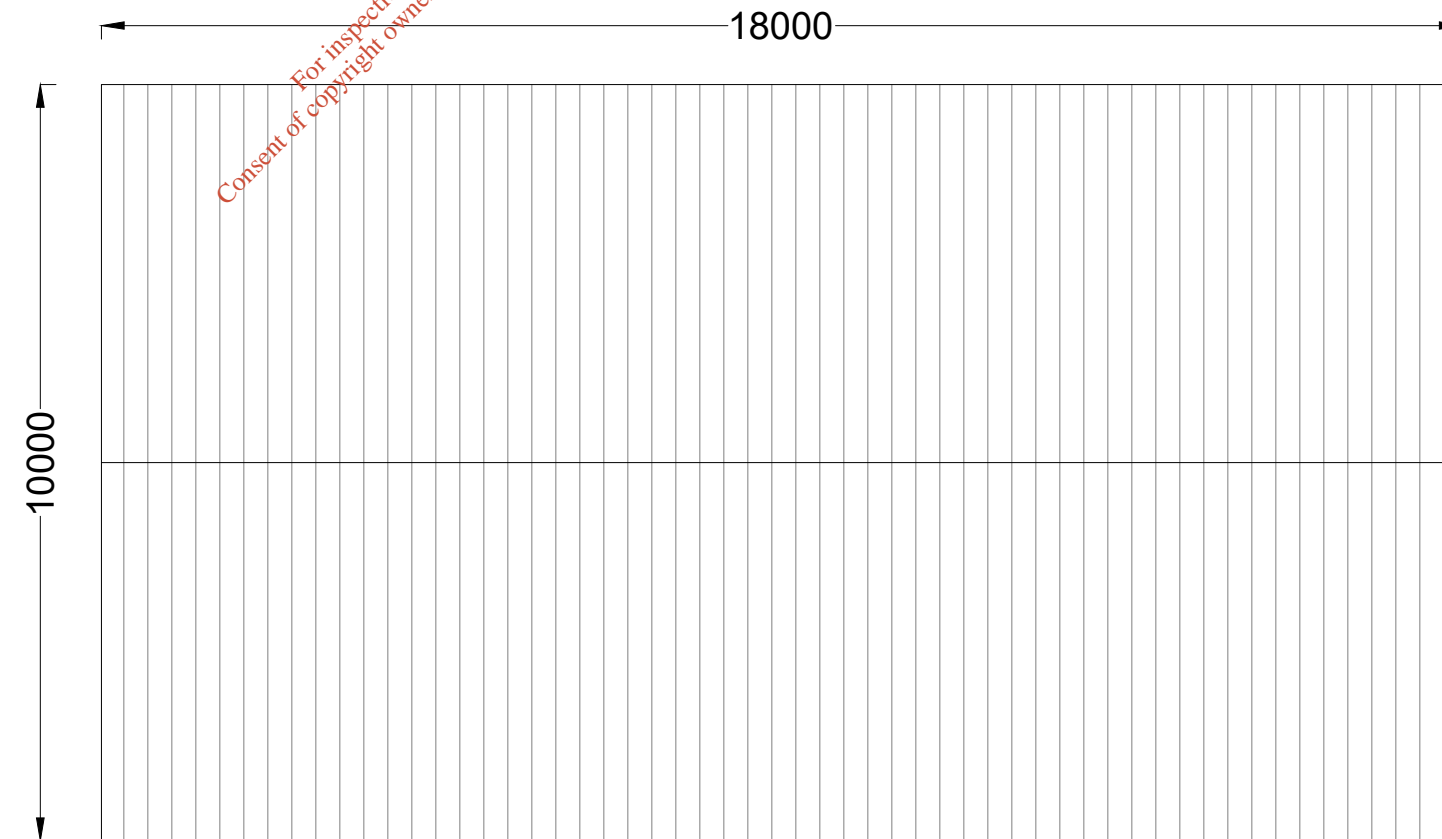
Front Elevation
(Open)



Side Elevation




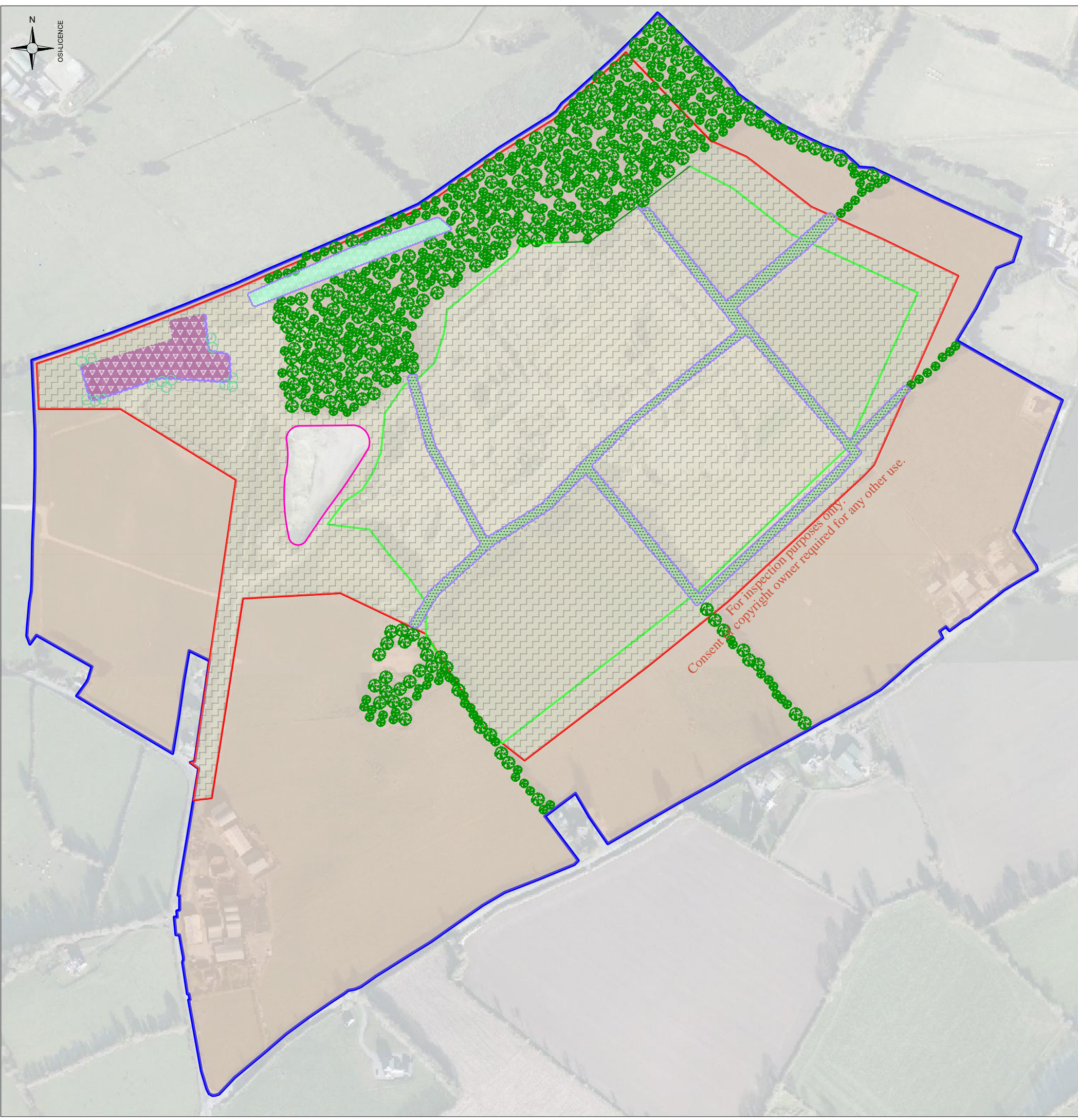
Rear Elevation



Plan

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|---|---------------------------------------|
| DRAWING TITLE: Soil Inspection Shed - Indicative Design | |
| PROJECT TITLE: Proposed Lawler Quarry Restoration | |
| DRAWING BY: Joseph O'Brien | CHECKED BY: Eoin O'Sullivan |
| PROJECT No.: 191115 | DRAWING No.: 191115 - 15 |
| SCALE: 1:100 @ A3 | DATE: 05.11.2020 |
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Legend

- Site Boundary
- Land Owner Boundary
- Quarry Void Boundary (infill and regrade)
- Area to be Planted
- Raised mound retained
- Existing hedgerows/treelines (within landowner boundary) to be retained
- Proposed wetland vegetation
- Settlement lagoon restoration- proposed aquatic habitat and riparian buffer
- Proposed native tree planting
- Proposed shrub planting (based on prior hedgerow layout, pre-extraction)
- Areas seeded with Meadow Mixture
- Existing vegetation to be retained (within landowner boundary)

Notes:

Existing and Proposed Hedgerows
 Existing hedgerows and tree lines will be retained as indicated on the drawing. The proposed infilling works will maintain a tree root protection area along the perimeter of the site during the infilling works. As the proposed project has been designed to retain the tree lines surrounding the site, this will maintain connectivity around the site to the wider landscape for a wide variety of animal species. Additional new hedge planting is designed to correspond with the existing pattern within the surrounding landscape and will be similar to that of a cross-shape in the centre of the site reaching to all 4 sides. Planting must only be carried out during the planting season.

| Hedgerow Species Mix | | | |
|-----------------------|--------------|--------|----|
| | | Size | % |
| Corylus avellana | Hazel | 90-120 | 15 |
| Crataegus monogyna | Hawthorn | 90-120 | 15 |
| Euonymus europaeus | Spindle | 90-120 | 5 |
| Ilex aquifolium | Holly | 90-120 | 5 |
| Lonicera periclymenum | Honeysuckle | 90-120 | 5 |
| Prunus spinosa | Blackthorn | 90-120 | 15 |
| Rosa canina | Dog rose | 90-120 | 5 |
| Salix caprea | Goat Willow | 90-120 | 15 |
| Sorbus aucuparia | Rowan | 90-120 | 10 |
| Viburnum opulus | Guelder rose | 90-120 | 10 |

Grass Seeding
 Once filling of the quarry void is complete topsoil will be spread in thin layers to achieve finished thickness of at least 300mm. Reseeding will be required for revegetation of new species rich grassland habitats within the site. The seed mixture selected for the site includes the 'Native Origin Irish Wildflower Seed Mixture Range: Meadow Mixtures'.

Aquatic Wetland Ponds
 Three settlement ponds to be retained in northwest, may require minor improvements/planting to provide an aquatic/wetland habitat. Once vegetation establishes, these ponds should also form a riparian buffer and potential wetland area with hydraulic connectivity to the stream adjacent to the north.

Finished Restoration Levels
 Quarry void to be re-graded such that finished contours (120 to 138 mAOD) match those of surrounding lands, returning landscape to its original character.

Aftercare
 A 24-month landscape maintenance schedule should be in place prior to the start of on-site works. Landscape works are to be carried out by a suitably qualified landscape contractor.

Prevention of Invasive Species
 The following measures have been drawn up to avoid potential impacts associated with the introduction and spread of invasive alien plant species:

- Good construction site hygiene will be employed to prevent the introduction and spread of problematic invasive alien plant species (e.g. Himalayan Balsam, Japanese Knotweed etc.) by thoroughly washing vehicles prior to leaving any site.
- All plant and equipment employed on the construction site (e.g. excavator, footwear, etc.) will be thoroughly cleaned down using a power washer unit prior to arrival on site to prevent the spread of invasive plant species.
- Wheel washing facilities will be provided at the site entrance. All washing must be undertaken in areas with no potential to result in the spread of invasive species.
- All infill material required at the site will be sourced from a stock that has been screened for the presence of any invasive species and where it is confirmed that none are present.
- Should despite these measures any invasive alien species be introduced to site, these shall be dealt with in accordance with guidelines issued by the National Roads Authority - The Management of Noxious Weeds and Non-native Invasive Plant Species on National Roads (NRA, 2010).

Health and Safety

- A site-specific Health and Safety Plan will be in place for the proposed facility. All site staff will be made aware of and adhere to the company Health and Safety Plan.
- Only appropriately qualified and trained personnel will be permitted to operate machinery on site.
- Appropriate barriers and signage will be used.
- The proposed development site will not be accessible to members of the public.
- The site will also be secure to prevent the risk of trespass through signage and provision of barriers.

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Site Restoration Plan

PROJECT TITLE: Proposed Lawler Quarry Restoration

| | |
|---------------------|-------------------------|
| DRAWING BY: AW | CHECKED BY: EOS |
| PROJECT No.: 191115 | DRAWING No.: 191115-SRP |
| SCALE: 1:4000@A3 | DATE: 07.30.2020 |

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