Appendix D.1

Landmap Data

This is followed schedules set out the evaluation data for those Aspect Areas which coincide with each of the Landscape Character Areas defined for the landscape baseline section of the Landscape Effects assessment.

This is followed by a list of the evaluation criteria that are used for each of the five Landmap topics, along with a description where available.

Finally selected detailed Landmap data is provided for each of the Visual and Sensory aspect areas which coincide with the Landscape Character Areas.
### Slopes below Waunfawr

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# LANDMAP EVALUATION

**Afon Cadnant Plateau**

### Character Area 17

<table>
<thead>
<tr>
<th>Aspect</th>
<th>Aspect Area</th>
<th>Evaluation Criteria</th>
<th>Overall Evaluation</th>
</tr>
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# LANDMAP approaches

**Bethel approaches**

### Character Area 18

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<td>---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
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</tr>
<tr>
<td>1</td>
<td>Recognition/transparency</td>
<td>The level to which the cultural elements of a landscape are commonly recognised</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Period</td>
<td>How clearly a place shows ‘period’, either a particular period (historical or contemporary), or may embody multi-period evolution, or may embody flux and change.</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Rarity</td>
<td>Some types of association/influence are rare in themselves, or only take place infrequently or at particular times (e.g. Royal Welsh Show, eisteddfodau) or have become less evident (e.g. coracle fishing). These should be noted. However, selections must also include the typical and commonplace.</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Documentation</td>
<td>Significance and importance may be enhanced by the existence of records, descriptions or accounts, which may be written, visual or oral.</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Group Value</td>
<td>The value of a single association/influence (such as a place-name) may be greatly enhanced by its connection with related associations (such as a folktale or a tradition) or with associations/influences of different periods. In some cases it is preferable to recognise the complete group of associations, including associated and adjacent areas or features, rather than to identify isolated associations within the group.</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Survival</td>
<td>Important cultural evidence manifest in an association or practice can be lost or forgotten by indifference, neglect or lack of recording of the area or feature to which it relates; vulnerable associations/influences of this type should be identified.</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Vulnerability</td>
<td>Is the Aspect Area significant because its cultural story / essence is complex or because of its sameness? Some associations may be identified because they represent a diverse cultural essence, others because they represent a single important cultural essence.</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Diversity</td>
<td>On occasion, the nature of the evidence cannot be specified precisely, but it may still be possible to document reasons anticipating its existence and importance and so to demonstrate the justification for identification. This is confined to indicative areas rather than precisely defined sites or upstanding features. The potential of non-recognised landscapes may therefore be higher over those already recognised.</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Potential</td>
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- **Overall Evaluation**
## GEOLOGICAL LANDSCAPE

<table>
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<tr>
<td>2</td>
<td>Educational Value</td>
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</tr>
<tr>
<td>3</td>
<td>Historical Value</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Rarity / Uniqueness</td>
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</tr>
<tr>
<td>5</td>
<td>Classic Example</td>
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## HISTORICAL LANDSCAPE

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<th>No.</th>
<th>Evaluation Criteria</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Integrity</td>
<td>The integrity of an Aspect Area relates to its overall ‘completeness’. This is assessed by the visibility and legibility of the components or elements of the Dominant Landscape Pattern (at Level 3) or the Historic Landscape Detail (at Level 4). Greater visibility and legibility generally increase the potential for the historic landscape to be easily understood by the non-specialist and hence enhance its value. It is not necessarily about the physical survival of individual elements (which is quantified elsewhere), but about the overall survival of the landscape pattern or detail as measured through the identification of its components, which might be both physical (for example fields systems, archaeological features or buildings) and associative (for example particular institutions, cultural figures or historical events). It may even be that historical processes and patterns have been maintained, or continue, so that the Aspect Area retains much of its original character, thus also enhancing its Integrity.</td>
</tr>
<tr>
<td>2</td>
<td>Survival</td>
<td>This relates to the degree of survival of individual elements and components present in the Aspect Area. In instances where the original extent or numbers are known (for example, traditional field boundaries for which there may be detailed mapped evidence), it may be possible to measure this quantitatively, but failing this estimates should be made.</td>
</tr>
<tr>
<td>3</td>
<td>Condition</td>
<td>This relates to the condition of those elements and components that survive in the Aspect Area, as a measure of overall condition. It is therefore not the same as the survival of individual elements – 100% of an Aspect Area’s components may survive but they may all be in a poor condition.</td>
</tr>
<tr>
<td>4</td>
<td>Rarity</td>
<td>This relates to the rarity of the Aspect Area. This should be assessed against the Aspect Areas of the same type in the study area, as long as the study area is of sufficient size to make the comparison meaningful. Producing thematic maps based on the hierarchical classification can assist with this assessment.</td>
</tr>
<tr>
<td>5</td>
<td>Potential</td>
<td>This relates to the potential within the landscape for future study and analysis and for the potential of elements that might be, or already are, developed as a public educational and recreational amenity.</td>
</tr>
</tbody>
</table>
**HISTORIC LANDSCAPE**

<table>
<thead>
<tr>
<th>No.</th>
<th>Evaluation Criteria</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Overall Evaluation</td>
<td>The Aspect Specialist should evaluate each Aspect Area according to the criteria and rationale above, and should assess the Level of intrinsic value against each criterion, and then accord an overall evaluation. To enable the overall evaluation to be determined, a crude mechanism would be to allow a score ranging from 1 for each Low (or Poor) to 4 for each Outstanding with each score then being added to the overall total. This gives an overall range from 5-20. This range of 16 points can be divided into four bands of four allowing the allocation of an Overall Evaluation thus.</td>
</tr>
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**LANDSCAPE HABITATS**

<table>
<thead>
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<th>No.</th>
<th>Evaluation Criteria</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Priority Habitats</td>
<td>In particular, those most characteristic of the area, rarity in national context. Priority Habitats are explained in terms of those habitats most characteristic of the area, although where there are significant areas of high quality habitats for example SSSI’s these should be described.</td>
</tr>
<tr>
<td>2</td>
<td>Significance</td>
<td>This addresses the issue of whether the Aspect Area contains a high % of national resource e.g. Is a habitat confined to the area or does the area have a high proportion of the national resource?</td>
</tr>
<tr>
<td>3</td>
<td>Opportunity</td>
<td>Opportunity is scored according to how easy it would be to enhance any existing moderate, high or outstanding habitats.</td>
</tr>
<tr>
<td>4</td>
<td>Expansion rates</td>
<td>Increases in the semi-natural and valuable habitats and species assessed over the last 25 years</td>
</tr>
<tr>
<td>5</td>
<td>Sensitivity</td>
<td>How sensitive the area is to changes in land management and other practices that could adversely affect the biodiversity.</td>
</tr>
<tr>
<td>6</td>
<td>Connectivity/Cohesion</td>
<td>Describe how well the Aspect Area functions in terms of interconnection networks and corridors for native habitats, which will allow for species movements and protect and enhance biodiversity.</td>
</tr>
<tr>
<td>7</td>
<td>Habitat Evaluation</td>
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<tr>
<td>8</td>
<td>Importance for key species</td>
<td>Is the area known to be of special significance for one or more important species?</td>
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<tr>
<td></td>
<td>Overall Evaluation Habitat and Species</td>
<td>This should be an overall assessment of how important the area is for both Habitats and species.</td>
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**VISUAL AND SENSORY**

<table>
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<tbody>
<tr>
<td>1</td>
<td>Scenic quality</td>
<td>The extent to which the area has scenes which are of a picturesque quality, demonstrating aesthetically pleasing elements in composition.</td>
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<tr>
<td>No.</td>
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<tr>
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<td>-------------</td>
</tr>
<tr>
<td>2</td>
<td>Integrity</td>
<td>The extent to which the area is in good condition, with consistent character throughout, and is generally unspoilt by large-scale, visually intrusive or other inharmonious development.</td>
</tr>
<tr>
<td>3</td>
<td>Character</td>
<td>The extent to which a distinct and recognisable pattern of elements, features and qualities occurs within the aspect area, to give a clear sense of place.</td>
</tr>
<tr>
<td>4</td>
<td>Rarity</td>
<td>The extent to which the area’s visual &amp; sensory character and/or features or qualities are rare/representative locally, regionally or nationally/internationally.</td>
</tr>
<tr>
<td></td>
<td>Overall Evaluation</td>
<td>This summary brings all the criteria text explanations together. This can either be a composite of all four justifications or a précis bringing out the key points. This will be used by various parties in the planning process and may be subject to close scrutiny.</td>
</tr>
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<td>Character Area</td>
<td>Aspect Area</td>
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<td>20 YNSMN VS026</td>
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</tr>
<tr>
<td>20 YNSMN VS044</td>
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<td>20 YNSMN VS045</td>
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</tr>
<tr>
<td>21 YNSMN VS018</td>
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</tr>
<tr>
<td>21 YNSMN VS021</td>
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</tr>
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<td>21 YNSMN VS026</td>
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</tr>
<tr>
<td>21 YNSMN VS044</td>
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<tr>
<td>21 YNSMN VS079</td>
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Appendix D.2 – Visual Impact Schedule of Affected Properties
## Appendix D.2

### Visual Impact Schedule of Affected Properties (VIS)

To be read in conjunction with Visual Impact Drawings, Figures 7.10a and 7.10b

<table>
<thead>
<tr>
<th>No</th>
<th>Property</th>
<th>Approx No of homes</th>
<th>Distance to centreline of road (m)</th>
<th>Nature of existing view</th>
<th>Quality of Existing View</th>
<th>Degree of Visual Impact (Adverse)</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Year 1 (On completion) Year 15 (Winter) Year 15 (Summer)</td>
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<tr>
<td>1</td>
<td>Fferm Porth/ Glanllyn</td>
<td>2</td>
<td>2,100</td>
<td>Rural, enclosed by vegetation, glimpsed views to Menai Strait</td>
<td>Attractive</td>
<td>No Change</td>
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<tr>
<td>2</td>
<td>Porthamel Old Farmhouse</td>
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<td>Porthamel Mews, Plas Porthamel</td>
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<td>No.</td>
<td>Property Name</td>
<td>No. of Bed</td>
<td>Bed Size</td>
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<td>Change</td>
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</tr>
<tr>
<td>4</td>
<td>The Coach House</td>
<td>1</td>
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<td>5</td>
<td>Porthamel Lodge</td>
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<td>Primarily northern views, glimpsed views to uplands to the south</td>
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<tr>
<td>6</td>
<td>Fodol</td>
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<td>Views to the south over Menai Strait and distant uplands</td>
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<td>No Change</td>
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<tr>
<td>7</td>
<td>Ffridd Bach</td>
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<td>Views to the south over Menai Strait and distant uplands</td>
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<td>8</td>
<td>Tan-y-Bryn</td>
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<td>Extensive views to the north, those to the south screened by vegetation</td>
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<td>9</td>
<td>Ysgubor Fawr</td>
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<td>Attractive</td>
<td>No Change</td>
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<tr>
<td></td>
<td>Location</td>
<td>Height</td>
<td>Views to the south over Menai Strait and distant uplands</td>
<td>Attractiveness</td>
<td>Slightness</td>
<td>Change</td>
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<td>Slight</td>
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<tr>
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<td>Slight</td>
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<td>Slight</td>
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<td>Cefn Arthen</td>
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<td>Slight</td>
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<td>Glyn Afon</td>
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<td>3,120</td>
<td>Views over Menai Strait and uplands beyond restricted by vegetation</td>
<td>Attractive</td>
<td>No</td>
</tr>
<tr>
<td>No</td>
<td>Property Name</td>
<td>No.</td>
<td>Value</td>
<td>Description</td>
<td>Attractiveness</td>
<td>Change</td>
</tr>
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</tr>
<tr>
<td>50</td>
<td>Swn Y Mor</td>
<td>1</td>
<td>400</td>
<td>Views focussed to the north across the Menai Strait</td>
<td>Very Attractive</td>
<td>No Change</td>
</tr>
<tr>
<td>51</td>
<td>Isgaer</td>
<td>1</td>
<td>220</td>
<td>Views focussed to the north across the Menai Strait</td>
<td>Attractive</td>
<td>No Change</td>
</tr>
<tr>
<td>52</td>
<td>Groeslon Cottage</td>
<td>1</td>
<td>50</td>
<td>Views focussed to the north but influenced by adjacent highway</td>
<td>Moderate</td>
<td>Moderate</td>
</tr>
<tr>
<td>53</td>
<td>Griffiths’ Crossing Cottage</td>
<td>1</td>
<td>30</td>
<td>Views focussed to the north but influenced by adjacent highway</td>
<td>Moderate</td>
<td>Moderate</td>
</tr>
<tr>
<td>54</td>
<td>Parciau Farm &amp; Holiday Cottages</td>
<td>8</td>
<td>250</td>
<td>Views focussed to the NW by scarp slope</td>
<td>Moderate</td>
<td>No Change</td>
</tr>
<tr>
<td>55</td>
<td>Bryn</td>
<td>1</td>
<td>460</td>
<td>Views focussed to the north across the Menai Strait</td>
<td>Attractive</td>
<td>No Change</td>
</tr>
<tr>
<td>56</td>
<td>Nos 1-2 Bryn Cottages</td>
<td>2</td>
<td>660</td>
<td>Main view to SE to dramatic uplands</td>
<td>Attractive</td>
<td>Slight</td>
</tr>
<tr>
<td>No.</td>
<td>Location</td>
<td>Floor</td>
<td>Height</td>
<td>Description</td>
<td>Attractiveness</td>
<td>Change Description</td>
</tr>
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</tr>
<tr>
<td>57</td>
<td>Crug Farm</td>
<td>1</td>
<td>160</td>
<td>Main view to SE to dramatic uplands, tightly enclosed by surrounding vegetation</td>
<td>Attractive</td>
<td>No Change</td>
</tr>
<tr>
<td>58</td>
<td>Tyddyn Hen</td>
<td>1</td>
<td>220</td>
<td>View over low-lying ground to the east, including adjacent roundabout</td>
<td>Moderate</td>
<td>Moderate</td>
</tr>
<tr>
<td>59</td>
<td>Pengelli Isaf/ Annedd Eryrl</td>
<td>2</td>
<td>315</td>
<td>Views over open countryside restricted by adjacent farm buildings</td>
<td>Moderate</td>
<td>Moderate</td>
</tr>
<tr>
<td>60</td>
<td>Pen-y-Gelli</td>
<td>1</td>
<td>750</td>
<td>Views focussed to the open plain to the north</td>
<td>Moderate</td>
<td>No Change</td>
</tr>
<tr>
<td>61</td>
<td>Madryn</td>
<td>1</td>
<td>860</td>
<td>Views focussed to the south across open countryside</td>
<td>Moderate</td>
<td>Moderate</td>
</tr>
<tr>
<td>62</td>
<td>Hillside Lodge</td>
<td>1</td>
<td>1,060</td>
<td>Views across adjacent road to open fields</td>
<td>Moderate</td>
<td>No Change</td>
</tr>
<tr>
<td></td>
<td>Location</td>
<td>1</td>
<td>200</td>
<td>Description</td>
<td>Moderate</td>
<td>Substantial</td>
</tr>
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</tr>
<tr>
<td>63</td>
<td>Lon Glai Farm</td>
<td>1</td>
<td>200</td>
<td>View across very open and broad fieldscape</td>
<td>Moderate</td>
<td>Substantial</td>
</tr>
<tr>
<td>64</td>
<td>Tyddyn-slaters</td>
<td>1</td>
<td>220</td>
<td>Views over countryside restricted by enclosing vegetation</td>
<td>Moderate</td>
<td>Moderate</td>
</tr>
<tr>
<td>65</td>
<td>Tyddyn Bistle</td>
<td>1</td>
<td>50</td>
<td>Views over countryside restricted by enclosing vegetation</td>
<td>Moderate</td>
<td>Substantial</td>
</tr>
<tr>
<td>66</td>
<td>Kent</td>
<td>1</td>
<td>120</td>
<td>Outward views restricted by farm buildings, focussed to the south</td>
<td>Moderate</td>
<td>Slight</td>
</tr>
<tr>
<td>67</td>
<td>Bodruual</td>
<td>1</td>
<td>90</td>
<td>View across fields to Industrial Estate</td>
<td>Ordinary</td>
<td>Substantial</td>
</tr>
<tr>
<td>68</td>
<td>Glan Gwna Holiday Park - west</td>
<td>75</td>
<td>0 - 200</td>
<td>Enclosed woodland valley views</td>
<td>Moderate</td>
<td>Substantial</td>
</tr>
<tr>
<td>69</td>
<td>Glan Gwna Holiday Park - east</td>
<td>350</td>
<td>80 - 610</td>
<td>Enclosed woodland valley views</td>
<td>Moderate</td>
<td>Moderate</td>
</tr>
<tr>
<td></td>
<td>Property Name</td>
<td>Category</td>
<td>Area</td>
<td>Description</td>
<td>Attractiveness</td>
<td>Substantiality</td>
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<tr>
<td>70</td>
<td>Glan Gwna Lodge</td>
<td>1</td>
<td>300</td>
<td>Tightly enclosed by trees and woodland within a valley landscape</td>
<td>Attractive</td>
<td>Substantial</td>
</tr>
<tr>
<td>71</td>
<td>Glan Gwna Hall</td>
<td>1</td>
<td>430</td>
<td>View across estate landscape to wooded valley beyond</td>
<td>Attractive</td>
<td>Moderate</td>
</tr>
<tr>
<td>72</td>
<td>The Gamekeepers Cottage</td>
<td>1</td>
<td>440</td>
<td>Heavily enclosed by vegetation with filtered views across Seiont valley</td>
<td>Moderate</td>
<td>Moderate</td>
</tr>
<tr>
<td>73</td>
<td>South-west Caernarfon</td>
<td>475</td>
<td>460 - 960</td>
<td>Urban views but with a countryside backdrop</td>
<td>Moderate</td>
<td>Slight</td>
</tr>
<tr>
<td>74</td>
<td>Bro Seiont</td>
<td>56</td>
<td>400 - 600</td>
<td>Urban fringe views over wooded valley beyond</td>
<td>Ordinary</td>
<td>Slight</td>
</tr>
<tr>
<td>No.</td>
<td>Location/Description</td>
<td>Rating</td>
<td>Price Range</td>
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<tr>
<td>75</td>
<td>Plas Treflan</td>
<td>80</td>
<td>Attractive</td>
<td>Views enclosed within the surrounding estate landscape and mature trees</td>
<td></td>
<td></td>
</tr>
<tr>
<td>76</td>
<td>Bryn Eden</td>
<td>160</td>
<td>Attractive</td>
<td>Elevated view to the south and west over open fieldscape with mature trees</td>
<td></td>
<td></td>
</tr>
<tr>
<td>77</td>
<td>Mur Matthew/ Tryfan</td>
<td>320</td>
<td>Moderate</td>
<td>Views to woodland valley setting and open fields to the south</td>
<td></td>
<td></td>
</tr>
<tr>
<td>78</td>
<td>Ty Newydd/ Fron deg/ Cefn Gwern/ Bron Gwna/ Erw Wen/ Stad Glandwr</td>
<td>440 - 630</td>
<td>Moderate</td>
<td>Views enclosed with the sub-urban setting of gardens and vegetated boundaries</td>
<td></td>
<td></td>
</tr>
<tr>
<td>79</td>
<td>Nos 1-10 Bryn-y-gof</td>
<td>440 - 550</td>
<td>Attractive</td>
<td>Sub-urban setting with outward views to rolling landscape beyond</td>
<td></td>
<td></td>
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<tr>
<td>No.</td>
<td>Property Name</td>
<td>No.</td>
<td>Area</td>
<td>Description</td>
<td>Attractiveness</td>
<td>Substance</td>
</tr>
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<tr>
<td>80</td>
<td>Penrhos</td>
<td>1</td>
<td>260</td>
<td>Elevated view to the north west and Caernarfon, heavily filtered by intervening trees</td>
<td>Attractive</td>
<td>Substantial</td>
</tr>
<tr>
<td>81</td>
<td>Hafod Wen</td>
<td>1</td>
<td>250</td>
<td>Elevated view to the north west and Caernarfon, heavily filtered by intervening trees</td>
<td>Attractive</td>
<td>Moderate</td>
</tr>
<tr>
<td>82</td>
<td>Bryn Eglwys</td>
<td>1</td>
<td>230</td>
<td>Elevated view to the north west and Caernarfon, heavily filtered by intervening trees</td>
<td>Attractive</td>
<td>Moderate</td>
</tr>
<tr>
<td>83</td>
<td>Cae Philip, Glyn, Lyn Lea</td>
<td>4</td>
<td>70-80</td>
<td>Enclosed short range views to wooded valley setting</td>
<td>Attractive</td>
<td>Substantial</td>
</tr>
<tr>
<td>84</td>
<td>Rhyddallt Ganol</td>
<td>2</td>
<td>220</td>
<td>Elevated view over fields and woodland edge</td>
<td>Attractive</td>
<td>Substantial</td>
</tr>
<tr>
<td>No.</td>
<td>Location</td>
<td>Plot</td>
<td>Size</td>
<td>Description</td>
<td>Visitors</td>
<td>Value</td>
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<tr>
<td>85</td>
<td>Cae Hopsyn/ Tremarfon</td>
<td>2</td>
<td>180</td>
<td>Elevated views over fields and woodland edge, filtered by adjacent vegetation</td>
<td>Moderate</td>
<td>Substantial</td>
</tr>
<tr>
<td>86</td>
<td>Rhyddallt Bach</td>
<td>1</td>
<td>140</td>
<td>Elevated view over small and enclosed valley fieldscape</td>
<td>Attractive</td>
<td>Substantial</td>
</tr>
<tr>
<td>87</td>
<td>Bryn Mafon</td>
<td>1</td>
<td>230</td>
<td>Hill top position with views all around over countryside setting</td>
<td>Attractive</td>
<td>Substantial</td>
</tr>
<tr>
<td>88</td>
<td>Pen Y Bryn Road cul-de-sac</td>
<td>5</td>
<td>250 - 340</td>
<td>Sub-urban setting with views to the south over a rural valley landscape</td>
<td>Attractive</td>
<td>Moderate</td>
</tr>
<tr>
<td>89</td>
<td>Nos 19-23 Parc Muriau</td>
<td>5</td>
<td>370 - 430</td>
<td>Views enclosed with the sub-urban setting of gardens and vegetated boundaries</td>
<td>Ordinary</td>
<td>No Change</td>
</tr>
<tr>
<td>No</td>
<td>Location</td>
<td>No.</td>
<td>Price</td>
<td>Description</td>
<td>Rating</td>
<td>Change</td>
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</tr>
<tr>
<td>90</td>
<td>Pen Y Bryn Lodge</td>
<td>1</td>
<td>260</td>
<td>Filtered views to open countryside through boundary vegetation</td>
<td>Moderate</td>
<td>No Change</td>
</tr>
<tr>
<td>91</td>
<td>Gwesty Parc Muriau (Muriau Park Guest House)</td>
<td>1</td>
<td>190</td>
<td>Primarily southern views across rolling countryside and adjacent road corridor</td>
<td>Moderate</td>
<td>Moderate</td>
</tr>
<tr>
<td>92</td>
<td>Hen Dy, Y Deri</td>
<td>2</td>
<td>220</td>
<td>Northern and western views over open countryside</td>
<td>Moderate</td>
<td>No Change</td>
</tr>
<tr>
<td>93</td>
<td>Tyddyn-du/ Tyddyn-Gwyn</td>
<td>2</td>
<td>120</td>
<td>Primarily western views over open countryside</td>
<td>Attractive</td>
<td>Substantial</td>
</tr>
<tr>
<td>94</td>
<td>Tyddyn Lodge</td>
<td>1</td>
<td>120</td>
<td>Views along adjacent road corridor</td>
<td>Ordinary</td>
<td>Substantial</td>
</tr>
<tr>
<td>95</td>
<td>Meifod</td>
<td>1</td>
<td>270</td>
<td>Elevated views across open countryside and adjacent road corridor</td>
<td>Attractive</td>
<td>Moderate</td>
</tr>
<tr>
<td></td>
<td>Site Name</td>
<td>Height</td>
<td>Description</td>
<td>Value</td>
<td>Change</td>
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</tr>
<tr>
<td>96</td>
<td>Rhosdican Farm</td>
<td>330</td>
<td>Views over adjacent open fields</td>
<td>Moderate</td>
<td>No Change</td>
<td>No Change</td>
</tr>
<tr>
<td>97</td>
<td>Plas Rhosdican</td>
<td>370</td>
<td>Views over open countryside restricted by adjacent vegetation and farm buildings</td>
<td>Moderate</td>
<td>Moderate</td>
<td>Slight</td>
</tr>
<tr>
<td>98</td>
<td>Ceriw</td>
<td>250</td>
<td>Elevated position with primary views to the east, views to the west restricted by vegetation</td>
<td>Attractive</td>
<td>Moderate</td>
<td>Slight</td>
</tr>
<tr>
<td>99</td>
<td>Tyn Llidiart, Hen-dy cottage</td>
<td>580</td>
<td>Southern views over lowland valley fields and adjacent railway line</td>
<td>Attractive</td>
<td>No Change</td>
<td>No Change</td>
</tr>
<tr>
<td>100</td>
<td>Pant Farm</td>
<td>530</td>
<td>Southern views over lowland valley fields and adjacent railway line</td>
<td>Attractive</td>
<td>No Change</td>
<td>No Change</td>
</tr>
<tr>
<td></td>
<td>Site Name</td>
<td>Footprint</td>
<td>Altitude</td>
<td>External Aesthetics</td>
<td>Impact</td>
<td>Change Magnitude</td>
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</tr>
<tr>
<td>101</td>
<td>Ty gwyn-bach</td>
<td>1</td>
<td>470</td>
<td>Outward views highly restricted by surrounding vegetation</td>
<td>Moderate</td>
<td>No Change</td>
</tr>
<tr>
<td>102</td>
<td>Fron-goch</td>
<td>1</td>
<td>470</td>
<td>Outward views highly restricted by surrounding vegetation</td>
<td>Moderate</td>
<td>No Change</td>
</tr>
<tr>
<td>103</td>
<td>Bronydd</td>
<td>1</td>
<td>360</td>
<td>Open westward views across open lowland valley fields and beyond</td>
<td>Attractive</td>
<td>No Change</td>
</tr>
<tr>
<td>104</td>
<td>Glan Beuno/ Erw Deg</td>
<td>13</td>
<td>250 - 270</td>
<td>North-westerly views from elevated ridgeline across rolling countryside</td>
<td>Attractive</td>
<td>Substantial</td>
</tr>
<tr>
<td>105</td>
<td>Bryn Teg/ Ferndale/ Tywyn</td>
<td>3</td>
<td>180 - 230</td>
<td>North-easterly views across open fields, restricted by hedgerows</td>
<td>Attractive</td>
<td>Moderate</td>
</tr>
<tr>
<td>106</td>
<td>Cefnwerthyd Farm</td>
<td>1</td>
<td>190</td>
<td>Elevated position over open countryside to the north</td>
<td>Attractive</td>
<td>Substantial</td>
</tr>
<tr>
<td>No.</td>
<td>Location</td>
<td>Story</td>
<td>Level</td>
<td>Elevation</td>
<td>Description</td>
<td>Attractiveness</td>
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<tr>
<td>107</td>
<td>Hendy/ Cae Derwen</td>
<td>2</td>
<td>950</td>
<td></td>
<td>Elevated position with views to the north to the coast, southern views highly restricted by adjacent farm buildings</td>
<td>Attractive</td>
</tr>
<tr>
<td>108</td>
<td>Ty'rallt Farm</td>
<td>1</td>
<td>780</td>
<td></td>
<td>Elevated position with views to the south and east</td>
<td>Attractive</td>
</tr>
<tr>
<td>109</td>
<td>Sarn-dwr-gawr</td>
<td>1</td>
<td>230</td>
<td></td>
<td>Views enclosed by railway embankment and riverside vegetation</td>
<td>Moderate</td>
</tr>
<tr>
<td>110</td>
<td>Tyddyn-Alice Farm</td>
<td>1</td>
<td>1,030</td>
<td></td>
<td>Elevated position with panoramic views, particularly over the Menai Strait</td>
<td>Very Attractive</td>
</tr>
<tr>
<td>111</td>
<td>Pen-y-bryn</td>
<td>2</td>
<td>770</td>
<td></td>
<td>Elevated position with views to the south and east</td>
<td>Attractive</td>
</tr>
<tr>
<td>No</td>
<td>Name</td>
<td>No</td>
<td>Description</td>
<td>Aesthetics</td>
<td>Change</td>
<td>No</td>
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<tr>
<td>112</td>
<td>Glanyrafon-bach</td>
<td>1</td>
<td>Views primarily to the south east enclosed by riverside vegetation</td>
<td>Moderate</td>
<td>No Change</td>
<td>No</td>
</tr>
<tr>
<td>113</td>
<td>Ty Helyg</td>
<td>1</td>
<td>Outward views to surrounding low lying countryside restricted by vegetation</td>
<td>Attractive</td>
<td>No Change</td>
<td>No</td>
</tr>
<tr>
<td>114</td>
<td>Caegwynedd/ Merddyn</td>
<td>4</td>
<td>Rear views over fields to the north west</td>
<td>Attractive</td>
<td>Substantial</td>
<td>Substantial</td>
</tr>
<tr>
<td>115</td>
<td>Cae Samuel/The Cottage</td>
<td>2</td>
<td>Outward views within flat landscape restricted by field boundaries</td>
<td>Attractive</td>
<td>Moderate</td>
<td>Moderate</td>
</tr>
<tr>
<td>116</td>
<td>Cefn-y-coed-uchaf</td>
<td>1</td>
<td>Elevated position with views to the south and east</td>
<td>Very Attractive</td>
<td>Slight</td>
<td>No Change</td>
</tr>
<tr>
<td>117</td>
<td>Cefn-y-coed</td>
<td>1</td>
<td>Outward views highly restricted by surrounding vegetation</td>
<td>Attractive</td>
<td>No Change</td>
<td>No</td>
</tr>
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<tr>
<td>118</td>
<td>Gwynfryn/ Pen-bryn-gwyn/ Brynneuadd</td>
<td>3</td>
<td>170</td>
<td>Views to the south east from an elevated position overlooking a small river valley</td>
<td>Attractive</td>
<td>Substantial</td>
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<td>119</td>
<td>Bryn Eglwys</td>
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<tr>
<td>120</td>
<td>Cae Meillion</td>
<td>1</td>
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<td>Primary view to the north west over adjacent fields</td>
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<tr>
<td>121</td>
<td>Cae-rhos</td>
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<td>Views to both the north west and south east</td>
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<td>122</td>
<td>Efail Rhos</td>
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<tr>
<td>123</td>
<td>Fron</td>
<td>1</td>
<td>1,040</td>
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<td>Very Attractive</td>
<td>Slight</td>
</tr>
<tr>
<td>No.</td>
<td>Property</td>
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<td>Change</td>
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<tr>
<td>124</td>
<td>Dolwen</td>
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<td>340</td>
<td>Views to both the north west and south east</td>
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<td>125</td>
<td>Bro Dawel</td>
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<td>320</td>
<td>Primary view to the east over adjacent fields to nearby properties</td>
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<tr>
<td>126</td>
<td>Bryn Derw</td>
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<td>Extensive view to the west to distant ridge</td>
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<tr>
<td>127</td>
<td>Dyffryn</td>
<td>1</td>
<td>780</td>
<td>Views to surrounding low-lying landscape</td>
<td>Attractive</td>
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</tr>
<tr>
<td>128</td>
<td>Nos 1-6 Tai Magdalen</td>
<td>6</td>
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<td>Extensive view to the west to distant ridge, restricted by roadside hedgerow</td>
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<tr>
<td>129</td>
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<td>Gwelfa</td>
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<td>Tan-y-graig</td>
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<td>950</td>
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<td>136</td>
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<td>Fron Olau</td>
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<td>Views to both east and west over fields and hedgerows</td>
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<tr>
<td>138</td>
<td>Glanrafon Fawr</td>
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<td>Views over river floodplain restricted by adjacent riverside vegetation</td>
<td>Attractive</td>
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<td>Slight</td>
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<td>No.</td>
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<tr>
<td>142</td>
<td>Glanrafon Isaf</td>
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<td>Plas Dinas Hotel</td>
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<tr>
<td>144</td>
<td>Nos 1-6 Gerddi Benar and adjacent properties on A487</td>
<td>22</td>
<td>780 - 910</td>
<td>Principal view to the west over the A487 to coastal plain below and sea beyond, filtered by mature trees and woodland</td>
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<td>Ddol Farm</td>
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<td>Views to rolling countryside to the east</td>
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<td>152</td>
<td>Ty-uchaf/ Llain Ffynnon/ Beudy</td>
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<td>153</td>
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<td>154</td>
<td>Geufron</td>
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<td>Elevated position overlooking coastal plain to the west but restricted by farm buildings</td>
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<td>Moderate</td>
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<tr>
<td>155</td>
<td>Nos 1-10 Dinas Cottages</td>
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<td>No.</td>
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<tr>
<td>156</td>
<td>Dinas</td>
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<td></td>
<td>Views contained within immediate urban surroundings by buildings, vegetation and topography</td>
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<td>Slight</td>
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<tr>
<td>157</td>
<td>Tyn Llan 1-9/ Idloes/ Tre Wyndaf</td>
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<td>Views to both the south and north over open fields and urban fringe</td>
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<td>159</td>
<td>Nos 1-4 &amp; 12-20 Penrallt</td>
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<td>730-800</td>
<td>Views to east over open fields and rising ground beyond</td>
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<td>780-810</td>
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<td>Site Code</td>
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<td>162</td>
<td>Cae Eithin/ Llwyn Eithin</td>
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<td>1,390</td>
<td>Extensive views to the west over the coastal plain to the shoreline</td>
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<td>163</td>
<td>The White House</td>
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<td>Uwch Menai 1-4/ Bryn Saron/ Awelfor/ Ty Capel</td>
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<td>Description</td>
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<tr>
<td>167</td>
<td>Glanrhyd</td>
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<td>350 - 490</td>
<td>Views to surrounding countryside restricted by adjacent buildings and boundary vegetation</td>
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<td>Tegannedd/Glanrhyd Isaf/Rhyd y Wern</td>
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<td>Change</td>
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<td>Slight</td>
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<td>Rating</td>
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<tr>
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<td>Garth</td>
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<td>Parc</td>
<td>Views to the east over countryside, filtered by boundary trees and vegetation</td>
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<td>Rhyd Galed</td>
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<td>No Change</td>
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<td>181</td>
<td>Nos 1-4 Tai'n-Ion + 1 property</td>
<td>Primary views over fields to the west, with eastward views limited by vegetation</td>
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<td>No Change</td>
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<td>Gwern</td>
<td>Views to the north-east and south-west over open fields and to the coast</td>
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**Table Notes:**
- **No.:** Page number
- **Location:** Location name
- **Description:** Description of the view
- **Rating:** Rating of the view
- **Change:** Change in the rating from the previous page

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**Legend:**
- **Moderate**: Moderate rating
- **Attractive**: Attractive rating
- **Substantial**: Substantial rating
- **Slight**: Slight rating
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<td>Felinwnda/ Rhyd-y-felin</td>
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<td>Y Bryn</td>
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<td>No Change</td>
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<td>No Change</td>
<td>No Change</td>
</tr>
<tr>
<td>187</td>
<td>Caer Moel</td>
<td>1</td>
<td>880</td>
<td>Views to the east over rolling countryside</td>
<td>Attractive</td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
</tr>
<tr>
<td>188</td>
<td>Plas Bodaderi</td>
<td>1</td>
<td>1,360</td>
<td>Views to the east over rolling countryside</td>
<td>Attractive</td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
</tr>
<tr>
<td>No.</td>
<td>Location</td>
<td>Category</td>
<td>Views</td>
<td>Description</td>
<td>Attr.</td>
<td>Change</td>
<td>Change</td>
<td>Change</td>
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</tr>
<tr>
<td>189</td>
<td>Dolellog</td>
<td>1</td>
<td>1,040</td>
<td>Views to the north-west over rolling countryside</td>
<td>Attractive</td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
</tr>
<tr>
<td>190</td>
<td>Graeanfryn/ Llys Ceirios/ Arfon/ Nos 1-6 Tan-y-cefn</td>
<td>9</td>
<td>80 - 160</td>
<td>Views to the east over road corridor, rear views elevated over countryside below, filtered by vegetation</td>
<td>Moderate</td>
<td>Substantial</td>
<td>Moderate</td>
<td>Moderate</td>
</tr>
<tr>
<td>191</td>
<td>Plas y Coed</td>
<td>1</td>
<td>270</td>
<td>Elevated position with views over open countryside to the east and west</td>
<td>Attractive</td>
<td>Substantial</td>
<td>Moderate</td>
<td>Moderate</td>
</tr>
<tr>
<td>192</td>
<td>Gwylfa Farm</td>
<td>1</td>
<td>330</td>
<td>Views to the east over fields and hedgerows, filtered by vegetation</td>
<td>Moderate</td>
<td>Moderate</td>
<td>Slight</td>
<td>Slight</td>
</tr>
<tr>
<td>193</td>
<td>Unknown Name</td>
<td>1</td>
<td>760</td>
<td>View to open countryside to the north and east</td>
<td>Attractive</td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
</tr>
<tr>
<td>No.</td>
<td>Name</td>
<td>No. of Units</td>
<td>Size</td>
<td>Description</td>
<td>Attractiveness</td>
<td>Change Status 1</td>
<td>Change Status 2</td>
<td>Change Status 3</td>
</tr>
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</tr>
<tr>
<td>194</td>
<td>Tyddyn-bychan</td>
<td>1</td>
<td>860</td>
<td>View to open countryside to the north and east</td>
<td>Attractive</td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
</tr>
<tr>
<td>195</td>
<td>Tyddyn-seipar</td>
<td>1</td>
<td>1,250</td>
<td>Expansive views over open fields and hedgerows</td>
<td>Attractive</td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
</tr>
<tr>
<td>196</td>
<td>Pentre</td>
<td>1</td>
<td>1,560</td>
<td>Extensive views to the east and west over the coastal plain and to the sea</td>
<td>Attractive</td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
</tr>
<tr>
<td>197</td>
<td>Cae-Buckley/ Hermione</td>
<td>2</td>
<td>1,520</td>
<td>Views to the south and east over rolling countryside</td>
<td>Attractive</td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
</tr>
<tr>
<td>198</td>
<td>Ty-hên</td>
<td>1</td>
<td>220</td>
<td>Views from an elevated position to the north over rolling countryside to the sea beyond, restricted by adjacent farm buildings</td>
<td>Moderate</td>
<td>Substantial</td>
<td>Moderate</td>
<td>Moderate</td>
</tr>
<tr>
<td>No.</td>
<td>Name</td>
<td>Floor</td>
<td>Price Range</td>
<td>Description</td>
<td>Quality</td>
<td>Change</td>
<td>Change</td>
<td>Change</td>
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</tr>
<tr>
<td>199</td>
<td>Nos 1-8 Tai Gwel-y-don/ Goat Hotel</td>
<td>9</td>
<td>110 - 160</td>
<td>Outward views restricted by adjacent buildings and vegetation</td>
<td>Ordinary</td>
<td>Slight</td>
<td>Slight</td>
<td>Slight</td>
</tr>
<tr>
<td>200</td>
<td>Tanronnen / Fron Derw/ Tir Castle</td>
<td>3</td>
<td>170 - 190</td>
<td>Outward views restricted by adjacent buildings and vegetation</td>
<td>Ordinary</td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
</tr>
<tr>
<td>201</td>
<td>Rhedynog Felen/ Rhedynog/ Dinas y Pryf/ Taliesin</td>
<td>4</td>
<td>670 - 780</td>
<td>Views over countryside primarily to the east</td>
<td>Attractive</td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
</tr>
<tr>
<td>202</td>
<td>Tyn-rhos</td>
<td>1</td>
<td>1,500</td>
<td>Views to the east over open countryside, restricted to the west by farm buildings</td>
<td>Attractive</td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
</tr>
<tr>
<td>203</td>
<td>White Tower Caravan Park</td>
<td>160</td>
<td>1770 - 1930</td>
<td>Primarily internal views within caravan park</td>
<td>Ordinary</td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
</tr>
<tr>
<td>204</td>
<td>Ty-mawr</td>
<td>1</td>
<td>1,630</td>
<td>Extensive views over flat countryside of coastal plain</td>
<td>Attractive</td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
</tr>
<tr>
<td>No.</td>
<td>Location</td>
<td>Rating</td>
<td>Views</td>
<td>Intensity</td>
<td>Decision</td>
<td>Impact</td>
<td>Decision</td>
<td>Impact</td>
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</tr>
<tr>
<td>205</td>
<td>Cae Glas</td>
<td>1</td>
<td>1,140 Views primarily to the north, restricted by topography and adjacent farm buildings</td>
<td>Moderate</td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
</tr>
<tr>
<td>206</td>
<td>Bryn Aber/Arfryn/Coetmor/Pen-y-boncyn/Caithness</td>
<td>5</td>
<td>570 Views over fields to the south and the coast to the west</td>
<td>Moderate</td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
</tr>
<tr>
<td>207</td>
<td>Pont Wyled/ Min Afon</td>
<td>2</td>
<td>470 Views restricted by topography within the A499 corridor context</td>
<td>Moderate</td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
</tr>
<tr>
<td>208</td>
<td>Hen gastell</td>
<td>1</td>
<td>380 Outward views restricted by surrounding topography and vegetation</td>
<td>Moderate</td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
</tr>
<tr>
<td>209</td>
<td>Hendre/ Y Goeden Eirin</td>
<td>2</td>
<td>400 Views to surrounding countryside and distant sea, excluding coastal plain below</td>
<td>Moderate</td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
</tr>
<tr>
<td></td>
<td>Location</td>
<td>Level</td>
<td>Height</td>
<td>Feature Description</td>
<td>Rating</td>
<td>Change</td>
<td>Change</td>
<td>Change</td>
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<tr>
<td>210</td>
<td>Y Bythyn/ Efail-dolydd/ Penrallt</td>
<td>3</td>
<td>350 - 450</td>
<td>Views to surrounding countryside and distant sea, excluding coastal plain below</td>
<td>Moderate</td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
</tr>
<tr>
<td>211</td>
<td>Maen Coch</td>
<td>8</td>
<td>310</td>
<td>Views restricted to the east by topography, over rolling countryside to distant uplands</td>
<td>Attractive</td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
</tr>
<tr>
<td>212</td>
<td>Plas Cefn Coch</td>
<td>1</td>
<td>240</td>
<td>Elevated position with views all around, to uplands and the sea</td>
<td>Attractive</td>
<td>Slight</td>
<td>Slight</td>
<td>Slight</td>
</tr>
<tr>
<td>213</td>
<td>Gadlys</td>
<td>1</td>
<td>840</td>
<td>Panoramic view over coastal plain to the west and to the sea beyond</td>
<td>Attractive</td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
</tr>
<tr>
<td>No.</td>
<td>Location</td>
<td>Rating</td>
<td>Elevation</td>
<td>Description</td>
<td>Rating</td>
<td>Change</td>
<td>Change</td>
<td>Change</td>
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</tr>
<tr>
<td>214</td>
<td>Glan Menai</td>
<td>1</td>
<td>2,010</td>
<td>Broad views across the coastal plain to the east and to the coast to the west</td>
<td>Attractive</td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
</tr>
<tr>
<td>215</td>
<td>Unknown Name</td>
<td>1</td>
<td>1,730</td>
<td>Views to the north and south across open field pattern of coastal plain</td>
<td>Attractive</td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
</tr>
<tr>
<td>216</td>
<td>Rhedynog Felen Fawr</td>
<td>1</td>
<td>1,170</td>
<td>Views focussed to the west by topography, across coastal plain and to the sea beyond</td>
<td>Attractive</td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
</tr>
<tr>
<td>217</td>
<td>Min Awel</td>
<td>1</td>
<td>1,070</td>
<td>Views to both east and west over fields and hedgerows</td>
<td>Very Attractive</td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
</tr>
<tr>
<td>218</td>
<td>Benallt</td>
<td>1</td>
<td>640</td>
<td>Views restricted by topography within the A499 corridor context</td>
<td>Moderate</td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
</tr>
<tr>
<td>219</td>
<td>Yr Hen Stabl (The Stables)/ Plas Fynnon</td>
<td>1</td>
<td>610</td>
<td>Views to west to distant coast and over A499 corridor</td>
<td>Attractive</td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
</tr>
<tr>
<td>Site</td>
<td>Name</td>
<td>Plot</td>
<td>Size</td>
<td>Period</td>
<td>Description</td>
<td>Aesthetic</td>
<td>Change</td>
<td>Change</td>
</tr>
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</tr>
<tr>
<td>220</td>
<td>Chatham Farm/ Brynteg, Bryn Farm/Bryn</td>
<td>6</td>
<td>2080-2280</td>
<td>Views to coastal plain restricted by surrounding vegetation and adjacent buildings</td>
<td>Moderate</td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
</tr>
<tr>
<td>221</td>
<td>Bron Wylfa</td>
<td>1</td>
<td>1,380</td>
<td>Views primarily to the south over fields, restricted by boundary vegetation</td>
<td>Attractive</td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
</tr>
<tr>
<td>222</td>
<td>Buungalow Farm/ Chatham Log Cabins</td>
<td>32</td>
<td>1880-2010</td>
<td>Outward views highly restricted by surrounding vegetation</td>
<td>Moderate</td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
</tr>
<tr>
<td>223</td>
<td>Cefn Rhengwrt</td>
<td>1</td>
<td>1,950</td>
<td>Views to the west over adjacent fields, otherwise restricted by adjacent farm buildings</td>
<td>Moderate</td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
</tr>
<tr>
<td>Property</td>
<td>Area</td>
<td>Views</td>
<td>Aesthetics</td>
<td>Change</td>
<td>Change</td>
<td>Change</td>
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</tr>
<tr>
<td>Ty'n y Maes</td>
<td>1</td>
<td>Views to the south over adjacent fields, otherwise restricted by adjacent farm buildings</td>
<td>Attractive</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ty'n Lon</td>
<td>16</td>
<td>Front views to adjacent properties along A499, rear views to countryside and the coast</td>
<td>Moderate</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glan-yr-afon</td>
<td>1</td>
<td>Extensive views over open coastal landscape and field patterns</td>
<td>Attractive</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cae-Meddyg/Bro Dawel</td>
<td>2</td>
<td>Views to the west over open fields and their hedge boundaries</td>
<td>Attractive</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dol Meredyth/ Pont Pant-y-rhedyn</td>
<td>5</td>
<td>Largely enclosed views within this riverside setting</td>
<td>Attractive</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>229</td>
<td>Cae Berllan/ Mount Hazel</td>
<td>2</td>
<td>1,320</td>
<td>Views to the south and east over rolling countryside to distant uplands</td>
<td>Attractive</td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
</tr>
<tr>
<td>230</td>
<td>Bethesda Bach/ Collfryn Cottages (1-3) / Brithdir / Ty Mawr</td>
<td>22</td>
<td>840 - 1010</td>
<td>Views contained within a minor valley around A499, with long views to distant uplands</td>
<td>Moderate</td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
</tr>
<tr>
<td>231</td>
<td>Ysgubor Newydd/ Ty-niewydd</td>
<td>2</td>
<td>940</td>
<td>Primary views to the west, over A499 corridor to distant coast</td>
<td>Attractive</td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
</tr>
<tr>
<td>232</td>
<td>Caegerw</td>
<td>1</td>
<td>810</td>
<td>Primary views to the west, over A499 corridor to distant coast</td>
<td>Attractive</td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
</tr>
<tr>
<td>233</td>
<td>Cefn Hendre</td>
<td>1</td>
<td>500</td>
<td>Primary views to the west, over coastal plain and to distant coast, with views to east to uplands</td>
<td>Attractive</td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
</tr>
<tr>
<td>No</td>
<td>Name</td>
<td>Level</td>
<td>Height</td>
<td>Description</td>
<td>Attractiveness</td>
<td>Change</td>
<td>Change</td>
<td>Change</td>
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<tr>
<td>234</td>
<td>Traian</td>
<td>1</td>
<td>1,320</td>
<td>Views confined with a low-lying stream valley</td>
<td>Attractive</td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
</tr>
<tr>
<td>235</td>
<td>Crud-y-nant farm/ Cefn-eithin</td>
<td>2</td>
<td>1,080</td>
<td>Elevated views over coastal plain countryside and sea to the west</td>
<td>Attractive</td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
</tr>
<tr>
<td>236</td>
<td>Cae - Llywarch Manor</td>
<td>1</td>
<td>1,430</td>
<td>Elevated views over coastal plain countryside and sea to the west</td>
<td>Attractive</td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
</tr>
<tr>
<td>237</td>
<td>Cae - Llywarch - bach</td>
<td>1</td>
<td>1,600</td>
<td>Elevated views over coastal plain countryside and sea to the west</td>
<td>Attractive</td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
</tr>
<tr>
<td></td>
<td>Area</td>
<td>Height Range</td>
<td>1350 - 2180</td>
<td>Details</td>
<td>Visual Quality</td>
<td>Change 1</td>
<td>Change 2</td>
<td>Change 3</td>
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</tr>
<tr>
<td>238</td>
<td>Groeslon</td>
<td>66</td>
<td>1350 - 2180</td>
<td>Outward views from within this area largely restricted by topography, buildings and vegetation. More distant views to the sea and mountains rather than to coastal plain or surrounding slopes.</td>
<td>Moderate</td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
</tr>
<tr>
<td>239</td>
<td>Slopes below Carmel</td>
<td>86</td>
<td>1780 - 4410</td>
<td>Frequent extensive views to the west and north over the foreground slopes, coastal plain and to the sea. In places restricted by buildings and vegetation.</td>
<td>Attractive</td>
<td>No Change</td>
<td>No Change</td>
<td>No Change</td>
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</tr>
<tr>
<td>240</td>
<td>Rhos Isaf and environs</td>
<td>128</td>
<td>590 - 1980</td>
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Appendix D.3 – Landscape Strategy
Appendix D.3

Caernarfon and Bontnewydd Bypass Landscape Strategy

1.1. Introduction
The proposed landscape mitigation measures for the Caernarfon and Bontnewydd Bypass are comprised of a series of components and are intended to achieve a number of objectives. This strategy document sets out those aims and landscape elements.

The landscape mitigation design is in accordance with the Design Manual for Roads and Bridges Volume 10, and intended to comply with the management requirements of the North and Mid-Wales Trunk Road Agency.

1.2. Objectives
The environmental functions described in DMRB are set out separately but in most cases landscape proposals will meet multiple objectives. The functions are listed below, with a commentary as to how these apply to the Scheme.

**Visual Screening**
The landscape impact assessment identified a number of locations where the proposed highway, structures or traffic movements could be seen by receptors in the wider landscape. Planting will be used in combination with earthworks to block or filter these views, subject to seasonal variation.

**Landscape Integration**
The prevailing landscape character of the study area is derived from a particular combination of topography, field patterns, hedge boundaries, woodland blocks and individual trees. The landscape mitigation proposals will seek to integrate the Scheme components with this landscape character, reflect the local vernacular with respect to forms and species, and create a seamless join where possible between the Scheme and the existing context.

**Enhancing the Built Environment**
Where the Scheme abuts elements of built environment the landscape mitigation measures will seek to provide added benefit in providing a suitable setting or context. Given the rural nature of the Scheme there are few instances where this will be a key objective of the landscape proposals. However where this is the case the landscape design will consider the wider context.

**Nature Conservation and Biodiversity**
The provision of landscape mitigation elements will provide habitat benefits through several means, including habitat creation, wildlife connectivity, providing food source plants, creating roosting and nesting opportunities and the general creation of biodiversity.
Visual Amenity
The mitigation proposals will seek to provide visual and seasonal interest through the form, structure and species selection, and where appropriate will direct views to the wider landscape context.

Heritage
In considering adjacent historic and heritage features the objectives of the landscape mitigation will be to preserve and enhance historic character or context. For example, the setting of the Caerlan Tibot Scheduled Ancient Monument would be protected through screening of the highway.

Auditory Amenity
Where noise barrier fencing or earth bunding would be provided to mitigate adverse effects.

Water Quality
The inclusion of drainage attenuation ponds in the scheme proposals will ensure proper consideration of water quality functions. Their locations, setting and management will be considered in parallel with the landscape mitigation proposals to ensure an appropriate integration.

1.3. Landscape Mitigation Elements
The landscape provision will consist of a number of components, working together to meet the objectives and environmental functions set out above.

Existing Vegetation
The first priority in considering landscape mitigation will be to retain existing vegetation wherever possible. This will include woodland, trees, hedgerows and grass. The detailed design will seek to establish appropriate protection zones around existing vegetation areas, whilst aiming to minimise the working areas in key locations. This is also a consideration for Nature Conservation objectives, particularly with respect to the ‘bat landscape’, a strategy to retain connectivity and permeability.

Translocation
In addition to retaining vegetation in place there will also be an opportunity to gain the benefit of established vegetation through translocation. This requires the identification of receptor sites which are within the Scheme boundary but not subject to construction works. This will allow vegetation to be translocated from the Scheme footprint, during site clearance works, and placed in a final fixed location. The most likely receptor sites will be those remnant corners of fields which fall within the Scheme boundary to provide mitigation, but outside the construction footprint.

The likely species for translocation will include Hazel, Hawthorn, Blackthorn and Holly. The identified plants will be coppiced to ground level, the stools excavated with as much root as possible, and transferred to prepared pits. Hedgerow plants are likely to be most suitable for this purpose, and will be identified through a pre-construction survey.
Earthworks

The Scheme includes a number of significant cuttings and embankments. The principle of creating rounded forms, particularly at the junctions between original ground and earthworks, is essential to avoid an imposed engineered character. Similarly the rounding off of the tops and bottoms of created slopes will be built into the earthworks approach.

Wherever possible a degree of variation will be built into those slope profiles which are to be left as open grassland, in order to reflect the natural form of the existing fields.

Woodland

The creation of woodland is a key component of the mitigation approach, serving both landscape and nature conversation objectives. The species selection will ensure a suitable woodland structure with both canopy and understorey species. Woodland edges will be created with understory shrub species only, in order to create a dense edge and achieve the required habitat connectivity and screening function. The species selected will reflect the local native species in the surrounding landscape, and will be chosen to provide food sources and habitat niches for the identified wildlife.

Age diversity will be incorporated from the start by including a range of stock sizes, such as cell-grown stock, transplants and feathered trees.

Woodland blocks will be planted with single-species groups to ensure a final provision representative of the intended mix, following management thinning works. Planting densities will vary depending on the environmental function and objectives, to minimise future management and thinning operations whilst achieving the required rate of establishment.

Trees

Individual trees will be provided as single or grouped feathered trees in areas of species-rich grassland, providing visual interest and creating a naturalistic landscape character. Ultimately these will also provide biodiversity benefits.

Hedges

Hedgerows are a key characteristic of the study area landscape, although they vary considerably with respect to their form, condition and degree of management. The primary functions of the proposed mitigation hedges will be habitat connectivity and landscape integration, re-establishing appropriate boundaries where the fields have been dissected or fragmented by the Scheme. Hedges will be positioned within the highway fence, and in time will visually soften this boundary.

The hedges will be planted in a random species pattern to avoid visually apparent blocks and groupings. The mix will consist of native species, reflective of the local pattern, and to provide habitat benefits.

Where possible rabbit shelters will be avoided in order to prevent an undesirable appearance, but if necessary mesh guards will be employed to allow the establishment of lateral branching, create a dense hedge structure.
Grassland
Grass areas will be provided in four main forms:

- Highway verge: On the side of the carriageway and within key visibility splays grass areas will be formed using a low-maintenance highway mix. This has a lower rate of growth and height, reduces the required frequency of cutting and ensures salt-tolerance from road spray following winter highway maintenance. This mix will be sown onto topsoil.

- Species rich grassland: Used in the majority of Scheme areas this grassland will include a diversity of species, selected to be appropriate to the local habitat and soil conditions. As well as habitat benefits and invertebrate value this grassland will also provide seasonal variety and visual interest. Management will be through one or two cuts per year, depending on the rate of growth and nutrient levels, which will be timed to ensure wildflower seeds ripen and are distributed. Arisings from cuttings will be handled to allow seed dispersal and then removed, either off-site or to agreed compost locations. Subsoil will provide the seed bed for this grass and wildflower mix, ensuring nutrient levels are reduced thereby avoiding competition from the grass species.

- Amenity wildflowers: This approach would be applied in gateway locations on approaches to the town, such as at roundabout junctions, and would consist of the sowing of intensive wildflower mixes. These mixes would consist of both annual and perennial species in order to provide both valuable pollinators and a visually attractive flower meadow character.

- Agricultural pasture: Where affected land is to be returned to agriculture the appropriate soil regime and seed mix will be agreed with the landowners and their agents.

Rock
The treatment of exposed rock areas will very much depend on the nature of the rock, how friable it is, whether it is banded and the final profiles. However in general terms the intention will be to encourage a naturalistic colonised appearance through a combination of soil management, conventional seeding and hydroseeding.

Natural Regeneration
Wherever possible opportunities for establishing vegetation through natural regeneration will be sought. This is closely coupled to the management of soils, discussed below, and through the ongoing management operations. Through the detailed design process areas will be defined where the natural establishment of agreed species will be encouraged and adopted as part of the developing scheme landscape. The maintenance and management strategy will incorporate review procedures to identify and protect naturally occurring plants, both woody and herbaceous species. Through this approach Ffridd habitat may be created, providing a valuable diverse mixture of grass, heathland and scrub.
**Structures**

The landscape context for the scheme is primarily rural. The landscape design objective for bridge structures over the main line is therefore to keep them as open as possible in main line cut situations, to allow views through the structures, and to facilitate a continuity of landscape treatment along the scheme corridor. Splayed and sloping wing walls will be incorporated in order to maximise the available area for mitigation planting. As well as providing visual screening and landscape integration this approach also maintains habitat connectivity with the associated biodiversity benefits.

Further aesthetic benefits derive from the creation of a family of structures, using a similar palette of materials, forms and finishes for groups of similar structures. Acknowledging the palette of finishes typically provided on structures on other similar schemes along the A487 in the locality, the proposed finishes broadly comprise:

- Plain concrete to small areas of exposed surfaces, such as headwalls and wingwalls to small culvert structures;
- Plain, or virtually plain, concrete to large exposed surfaces viewed obliquely and typically shaded – for example, the internal walls of box-type structures, pier and abutment elevations;
- Feature grooved concrete finish to large exposed concrete surfaces, such as wingwalls to highway bridges.

**Fencing**

The Scheme would be largely delineated by a highway boundary fence. The standard form of this fence, as set out in the DMRB, is timber post and rail. However, within the Scheme context field boundaries are commonly post and wire fence with hedgerows. Consequently, the objective would be to provide a post and wire highway boundary fence, including where additional elements are required for mammal-proof fencing. This would be subject to agreement with adjacent landowners.

**Soil Management**

A soil management strategy will establish the quantity and balance of topsoil and subsoil to be stripped from the site, and identify any differences in topsoil character and nutrient content. From this soil zones will be established and wherever possible topsoils will be returned to the zones from where they were removed. The finished profiles of the receiving areas will also be considered along with the landscape treatment. For example, nutrient-rich topsoils will be prioritised for planting areas whilst nutrient-poor or subsoils will be provided for areas of species-rich grassland creation.

The method of storing topsoil is an important consideration to prevent loss of soil structure, undesirable changes in nutrient value, and loss of soil zone distinctiveness.

**Material Sourcing**

Tree and shrub stock will be sourced in compliance with the Forestry Commission Practice Note, ‘Using Local Stock for Planting Native Trees and Shrubs’, with the objective being to source stock with a seed provenance from bio-geographical region 303, western Wales.
Local provenance grass and wildflower seed will also be sought wherever possible. This may involve local seed collecting using brush harvester techniques.

The provenance of plant and seed stock will be ensured through certification and supply chain records. This local provenance approach not only provides habitat and establishment benefits but also reduces the risk of plant disease.

1.4. Landscape Management

The intention of the mitigation design is to provide a sustainable landscape provision, including a practical consideration of access to all areas, and reducing the need for intensive management operations.

The future growth and form of planting provision is considered to allow sufficient space, in order that sightlines to signage and at junctions do not become obscured, requiring regular cutting.

Future thinning will be required to maintain a healthy structure in the woodland blocks, and therefore the initial planting density needs to be driven by the balance between meeting mitigation objectives and the longer term management.

Grassland management will be kept to a minimum through the use of species-rich mixes sown onto subsoil. Ideally this would require only one annual cut in late-summer. As far as possible provision will be made within the Scheme footprint for on-site composting of arisings.

1.5. Consultation

As the detailed landscape design is developed ongoing liaison with Welsh Government, Gwynedd Council and the North and Mid-Wales Trunk Road Agency will ensure all parties are agreed to the proposals.

Regular Environmental Liaison Group Meetings will provide a forum for consultation and liaison with other parties, such as Natural Resources Wales, for all components of the Scheme design, including the landscape proposals.
Appendix D.4 – Detailed Arboricultural Survey
A487 CAERNARFON AND BONTNEWYDD BYPASS

DETAILED ARBORICULTURAL SURVEY

*Welsh Government*

3513874-PB-XX-XX-RP-EN-00004

*Draft*
A487 Caernarfon and Bontnewydd Bypass

DETAILED ARBORICULTURAL SURVEY

3513874-PB-XX-XX-RP-EN-00004

Prepared for
Welsh Government
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Telephone 01824 703661
| Report Title: | A487 Caernarfon and Bontnewydd Bypass DETAILED ARBORICULTURAL SURVEY |
| Doc Number: | 3513874-PB-XX-XX-RP-EN-00004 |
| Report Status: | Draft |
| Job No: | 3513874A-HHC |
| Date: | October 2015 |

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| Prepared by | John Mitchener | Checked by (technical) | Marc Thomas |
| Approved by | | Checked by (quality assurance) | |

**Revision details**

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LIST OF ABBREVIATIONS

AIA  Arboricultural Implications Assessment
AMS  Arboricultural Method Statement
BS 5837 British Standard BS 5837:2012 Trees in relation to design, demolition and construction – Recommendations
RPA  Root Protection Area
TCP  Tree Constraints Plan
TPO  Tree Preservation Order
TPP  Tree Protection Plan
SECTION 1
INTRODUCTION
INTRODUCTION

1.1 Overview

1.1.1 The Scheme consists of a new 9.8km highway commencing at the Goat roundabout (A499/A487 junction) and terminating at the Plas Menai Roundabout. It forms a western bypass to Llanwnda, Dinas and Bontnewydd before crossing the existing A487 to pass south of Caernarfon Quarry. It then crosses the River Seiont before passing south of the Cibyn Industrial Estate to a junction with the A4086. After crossing the B4366 the route drops steeply to the Plas Menai Roundabout.

1.1.2 A Wide Single 2+1 standard has been adopted consisting of 2 lanes of travel in one direction and a single lane in the opposite direction providing overtaken opportunities in the two lane direction while overtaking in the single lane direction is prohibited.

1.1.3 The scheme includes a number of structures comprising bridges, viaducts and culverts.

1.2 Context

1.2.1 This report has been produced as a standalone document. It is however envisaged that the information contained within will form part of the wider environmental assessment for the scheme.

1.2.2 Information relating to the value of the surveyed trees, as well an assessment highlighting those which may need to be removed, has been provided. This should be used to assist in identifying the overall ecological, landscape and visual impacts of the scheme. This will ensure that a comprehensive environmental impact assessment is undertaken as specified in the Design Manual for Roads and Bridges: Volume 11, Section 3, Parts 4 and 5.

1.2.3 A detailed arboricultural method statement and tree protection plans are also provided. These provide information on the specific protection measures which will be required in order to safeguard retained trees during the construction process.

1.3 Purpose

1.3.1 The purpose of this report is to identify the above and below ground constraints associated with the surveyed trees, woodlands and hedges and to highlight any of these which of these features may need to be removed in order to facilitate the scheme. This includes the identification of trees, woodlands and hedges which occur directly within the footprint of the scheme as well as those located on land which may be utilised as part of the contractor’s working area.

1.3.2 Information relating to the protection measures that will be required in order to safeguard retained trees, woodlands and hedges in a sustainable manner is also provided. This takes the form of an arboricultural method statement and tree protection plan and includes a specification and location details for protective fencing, tree works and arboricultural monitoring and supervision.

1.3.3 Advice is also given on the choice of tree species which should be considered for use as part of any mitigatory post-development planting scheme. The advice given is based solely upon the arboricultural attributes of the recommended species and their ability to tolerate the current and future environmental constraints of the site. It is not
intended to provide a definitive species list but simply to highlight those trees and
shrubs which are best suited to the locally prevailing altitude, climate and soils.

1.4 Planning and Legislative Context

1.4.1 This report has been carried out in accordance with British Standard BS 5837:2012
_Trees in relation to design, demolition and construction – Recommendations_
(hereafter referred to as BS 5837). This standard provides guidance on the successful
integration of trees and development.

1.4.2 Trees are a material consideration in the UK planning system and existing trees are
often an important factor during the design, demolition and construction process.
British Standard BS 5837 recommends that all trees which could be reasonably
affected by a scheme are surveyed during the feasibility stage. This information
should then be used to identify the constraints imposed by existing trees as well as
those trees which should be removed or retained.

1.4.3 Following the development of a final design BS 5837 further recommends that a
detailed Tree Protection Plan (TPP) and Arboricultural Method Statement (AMS) are
produced. These documents should highlight the tree protection measures which will
be necessary in order to protect retained trees and highlight any arboricultural
mitigation measures which may be required.

1.5 Drawings Used

1.5.1 The study area used for the arboricultural survey was informed by the following
scheme drawings: 3513874-PB-06-XX-DR-J-00001, 3513874-PB-05-XX-M2-J-
00015, 3513874-PB-XX-XX-M2-Z-00002 to 00015, and, 3513874-PB-XX-XX-M2-Z-
00023.
SECTION 2

METHODOLOGY
2 METHODOLOGY

2.1 Field Survey

2.1.1 The extent of the survey is defined as an area extending 50m beyond the limits of the proposed carriageway. In a number of locations the survey area has been extended to account for the possibility of additional land take associated with the contractor’s working area.

2.1.2 The field survey has been carried out in accordance with BS 5837. Hedges were recorded where they formed distinct visual features. Short, sparse or intermittent sections of hedge were not surveyed.

2.1.3 Trees have been categorised in accordance with BS 5837 Table 1 which is included in Appendix B of this report.

2.1.4 The tree survey was carried out from ground level only. No tissue samples were taken nor was any internal investigation of the subject trees undertaken. Tree heights have been estimated to the nearest 1m.

2.1.5 Stem diameters have been measured in accordance with Annex C of BS 5837. Diameters of single stem trees on level ground have been measured at 1.5m above ground level. The diameters of other commonly encountered stems have been measured where most appropriate and this is recorded within the schedule.

2.1.6 The combined stem diameters for multi-stemmed trees have been calculated in accordance with BS 5837 paragraph 4.6.1. Root Protection Areas are calculated as an area equivalent to a circle with a radius 12 times the stem diameter. Tree canopies have been estimated and their average spread recorded.

2.1.7 To allow the assessment of trees on site to be completed in a practicable way and to best reflect the tree population on site, where trees formed groups either aerodynamically, through mutual support or by forming a screen or other such feature they have been recorded as such.

2.1.8 Only the main species present within the surveyed groups of trees, woodlands and hedges were recorded. Other tree and shrub species may be present and if this information is deemed important then a more detailed assessment will be required.

2.2 Limitations of the Survey

2.2.1 The positions of trees have been measured as accurately as possible. These positions must be considered approximate only. If the position of these trees is of critical importance then a topographical survey will be required in order to accurately record their location.

2.2.2 Trees are dynamic organisms which are influenced by a variety of environmental variables and whose health and condition can rapidly change. As a result of this any recommendations made within this report are valid for a period of 12 months from the date of the survey (October 2015).

2.2.3 This report in no way constitutes a health and safety survey. Where concerns for tree health and safety exist the necessary and appropriate tree inspections should be carried out.
2.2.4 All areas have the potential to support protected species. This survey did not include an ecological survey of the vegetation and habitat areas.
SECTION 3

RESULTS
3 RESULTS

3.1 Overview

3.1.1 A total of 580 trees, groups of trees, woodlands and hedgerows were surveyed details of which are provided within the Tree Survey Schedule in Appendix A. A summary of the surveyed vegetation including its category is provided in Table 3.1.

Table 3.1: Summary of surveyed vegetation

<table>
<thead>
<tr>
<th>BS 5827 Category</th>
<th>Trees</th>
<th>Groups</th>
<th>Woodlands</th>
<th>Hedges</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>B</td>
<td>155</td>
<td>58</td>
<td>6</td>
<td>1</td>
<td>220</td>
</tr>
<tr>
<td>C</td>
<td>155</td>
<td>104</td>
<td>1</td>
<td>78</td>
<td>338</td>
</tr>
<tr>
<td>U</td>
<td>19</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>20</td>
</tr>
<tr>
<td>Total</td>
<td>330</td>
<td>163</td>
<td>7</td>
<td>80</td>
<td>580</td>
</tr>
</tbody>
</table>

3.1.2 Trees have been recorded as groups or woodlands where this has been deemed appropriate. Groups have been recorded on the basis that they form distinct arboricultural features either aerodynamically, visually or because they contain trees of similar cultural and biodiversity value.

3.1.3 Hedges have been recorded where these form substantial internal or boundary features or where they contribute meaningfully to the landscape character of the local area.

3.2 High Quality Trees and Groups

3.2.1 High quality trees and groups are those which have been identified as warranting inclusion within BS 5837 Category A.

3.2.2 Oak T791 is considered to be a high quality A category specimen. This is a particularly good example of a mature oak tree which, despite the presence of a number of small pruning wounds to the stem, did not exhibit any significant defects.

3.2.3 A single group (G146) has been categorised as a high quality A category feature. This reflects not the condition of the group itself but the purpose which it serves. This is as a shelter belt which partially surrounds an area of rare nursery stock and protects it from the wind. Should group G146 be removed then it is unlikely that the nursery stock would remain viable and as such would also need to be removed.

3.3 Moderate Quality Trees, Groups, Woodlands and Hedges

3.3.1 Moderate quality trees, groups, woodlands and hedges are those which have been identified as warranting inclusion within BS 5837 category B.

3.3.2 Overall 155 individual trees and 58 groups of trees were categorised as moderate quality B category specimens. These are trees which generally exhibit limited structural or physiological defects or provide a moderate contribution to the character of the wider landscape.
3.3.3 Of the 7 surveyed woodlands 6 are considered to be of moderate quality and as such have been recorded as category B. Five of these woodlands appear to have little historic or conservation value and as such have been valued solely on their generally modest visual appeal. However, woodland W107 did exhibit a varied herb layer at the time of the survey and as such has been graded on the basis that it may be worthy of further environmental assessment. This is in addition to its limited contribution to the visual appearance of the local area.

3.3.4 Hedge H147 is also considered to be of moderate quality and therefore category B. This hedge provides a degree of shelter for a number of rare nursery plants and has been valued on its role rather than its visual appeal.

3.4 Low Quality Trees, Groups, Woodlands and Hedges

3.4.1 Low quality trees, groups, woodlands and hedges are those which have been identified as warranting inclusion within BS 5837 category C.

3.4.2 A total of 155 individual trees and 104 groups were classified as low quality C category specimens. These are generally unremarkable trees which exhibit either significant defects or which offer only low or short-term landscape benefits.

3.4.3 A single woodland (W217) was also categorised as category C. This is an area of scrubby mixed species woodland which partially covers the sloping ground to the south-west of the Cibyn Industrial Estate. This woodland exhibits no evidence of management and includes a number of semi-mature coniferous timber trees.

3.4.4 Of the surveyed hedges 78 surround agricultural land and are expected to remain viable for a period of at least another 10 years. None of the hedges were identified as having any significant individual landscape value. They offer only low screening or landscape benefits which are localised in nature and do not translate into any wider landscape appeal.

3.5 Trees, Groups, Woodlands and Hedges which are Unsuitable for Retention

3.5.1 Trees, groups, woodlands and hedges which are unsuitable for retention are those which have been identified as warranting inclusion within BS 5837 category U.

3.5.2 The remaining 19 individual trees have been classified as category U. These are trees which are in such poor condition that they cannot realistically be retained for a period of more than 10 years. These trees will generally need to be removed even in the context of the current land use and should not be viewed as a constraint to the future development of the land.

3.5.3 Hedge H124 has been recorded as a U category specimen due to the fact that large parts of it appear to be in terminal decline.
SECTION 4

ARBORICULTURAL IMPACT ASSESSMENT
4 ARBORICULTURAL IMPACT ASSESSMENT

4.1 Introduction

4.1.1 This assessment considers the impact that the scheme will have on existing trees, groups, woodlands and hedges and takes account of the recommendations contained within BS 5837:2012.

4.1.2 This assessment includes details pertaining to the removal of vegetation and the protection measures which will be required in order to ensure that the remaining trees, woodlands and hedges can be sustainably retained.

4.1.3 Whether trees, woodlands and hedges require removal depends largely on whether development impacts significantly upon the above and below ground portions of the tree. These impacts can be either direct or indirect and include issues such as:

- Direct physical contact between trees and the proposed structure;
- A lack of sufficient space for future growth and development and;
- A need to carry out potentially damaging works within the Root Protection Area (RPA).

4.1.4 British Standard BS 5837 defines the RPA as ‘the minimum area around a tree deemed to contain sufficient roots and rooting volume to maintain the tree’s viability.’ Activities such as excavation, raising soil levels and compaction can significantly damage a tree and may result in instability, decline and death.

4.2 Removal and Retention of Trees, Woodlands and Hedges

4.2.1 Overall a total of 118 individual trees are within, or immediately adjacent to, the footprint of the scheme and are likely to be removed if the scheme is to proceed. These account for 35% of the surveyed trees, have been assessed in accordance with BS 5837, and include 57 moderate quality B category trees, 53 low quality C category trees and 8 U category specimens. Details of the specific trees which are likely to require removal are provided in Table 4.1.

Table 4.1: Trees which are likely to be removed

<table>
<thead>
<tr>
<th>Category</th>
<th>Tree Reference Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>U</td>
<td>T504, T580, T628, T629, T712, T717, T742, T784</td>
</tr>
</tbody>
</table>

4.2.2 Only 20 of the 163 groups of trees surveyed are within the footprint of the scheme and will need to be completely removed. These include 8 moderate quality B category groups and 12 low quality C category groups. In addition to this 16 B category groups and 31 C category groups are partially within the footprint of the scheme and can
therefore be partly retained. Details of the specific groups of trees which are likely to require total or partial removal are provided in Table 4.2.

Table 4.2: Groups of trees which are likely to be wholly or partially removed

<table>
<thead>
<tr>
<th>Category</th>
<th>Group Reference Number</th>
<th>Wholly Removed</th>
<th>Partially Removed</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>G4, G9, G31, G48, G57, G75, G79, G155</td>
<td>G8, G15, G17, G24, G26, G30, G43, G69, G97, G102, G103, G117, G127, G150, G156, G187</td>
<td></td>
</tr>
</tbody>
</table>

4.2.3 Of the 7 woodlands which were surveyed 2 of these will need to be partially removed in order to facilitate construction. These include W154 and W158 both of which will require the removal of relatively small sections in order to accommodate the realignment of the existing road where it heads south from the Plas Menai Roundabout.

4.2.4 Finally, 5 of the surveyed hedgerows are wholly within the footprint of the scheme with a further 35 partially located within the footprint of the scheme. Details of the specific hedgerows which are likely to require total or partial removal are provided in Table 4.3.

Table 4.3: Hedgerows which are likely to be wholly or partially removed

<table>
<thead>
<tr>
<th>Category</th>
<th>Hedgerow Reference Number</th>
<th>Wholly Removed</th>
<th>Partially Removed</th>
</tr>
</thead>
</table>

4.2.5 This assessment does not take account of the working area which will be required to construct the scheme. In situations where potentially damaging works cannot be excluded from RPAs it may be necessary to remove additional trees, groups or hedges. When determining whether it is acceptable to remove a tree consideration should be given to its category rating. As a general rule of thumb the following should apply:

- high quality category A trees should be retained and are of sufficient value to influence the design;
- moderate quality B category trees should be retained wherever this is reasonably practicable and are of sufficient value to influence the design;
- low quality C category trees are of insufficient value to influence the design. These trees should be retained only where they do not pose a constraint on development and;

- U category trees will not generally be retained and should be removed as part of a programme of sound arboriculture management.

4.2.6 It is therefore recommended that appropriate consideration be given to tree retention when determining the overall extent of the working area associated with the scheme. Arboriculture advice should be sought where necessary and especially where works encroach within the RPA but do not physically require the complete removal of the tree.

4.3 Mitigation

4.3.1 It is envisaged that any tree removals will be mitigated through a programme of post construction planting. Details pertaining to the numbers, location, species, size and standard of all new planting should be provided as part of a detailed landscaping scheme.

4.3.2 It is recommended that the species used for any mitigatory planting are chosen with due regard to not only their visual and conservation value but also their tolerance to current and future environmental conditions. Concerns over the potential impacts of climate change have prompted Natural Resources Wales to provide detailed advice on how tree species should be chosen for woodlands and other large scale planting schemes.

4.3.3 Attack by pests and disease, periods of drought, and extreme weather are all events which are seen as potentially limiting factors for future tree growth. Current advice\(^1\) is therefore to choose tree species based not only on their visual and conservation value but also on their current and future suitability for the planting site.

4.3.4 Furthermore, it is also advised that efforts are made to ensure that a diverse mix of tree species is used wherever possible. This does not necessarily require the use of ‘intimate’ mixtures of species but should rather focus on the use of species not historically widespread in Wales but which will become more suited should current climate change predictions occur.

4.3.5 Analysis of the surveyed trees provides a useful indication of the tree and hedgerow species which are currently growing within the survey area. Information relating to the species surveyed and their percentage of the overall population is provided in Table 4.4.  

Table 4.4: Species Composition of Individually Surveyed Trees

<table>
<thead>
<tr>
<th>Tree Species</th>
<th>Number Surveyed</th>
<th>Percentage of Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oak</td>
<td>139</td>
<td>42.38%</td>
</tr>
<tr>
<td>Sycamore</td>
<td>85</td>
<td>25.91%</td>
</tr>
<tr>
<td>Ash</td>
<td>70</td>
<td>21.34%</td>
</tr>
<tr>
<td>Alder</td>
<td>7</td>
<td>2.13%</td>
</tr>
<tr>
<td>Goat Willow</td>
<td>7</td>
<td>2.13%</td>
</tr>
</tbody>
</table>

4.3.6 Approximately 88% of the individual trees which were surveyed are Oak, Sycamore or Ash. These 3 species are clearly well suited to the current environmental conditions of the site and often grow to form large, standalone trees. However, whilst the future prospects for both Pendunculate Oak and Sycamore are good the potential impact of Chalara Fraxinea means that new Ash planting should be avoided.

4.3.7 Alternative species such as Common Alder, Common Beech, Small Leaved Lime and Hornbeam should all remain moderately suited to the current and existing site conditions. These native trees all have the capacity to form medium to large specimens and should potentially be planted in larger numbers than is currently the case.

### Table 4.5: Species Composition of Surveyed Groups

<table>
<thead>
<tr>
<th>Tree Species</th>
<th>Number of Records</th>
<th>Percentage of Grand Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oak</td>
<td>96</td>
<td>23.70%</td>
</tr>
<tr>
<td>Ash</td>
<td>76</td>
<td>18.77%</td>
</tr>
<tr>
<td>Sycamore</td>
<td>57</td>
<td>14.07%</td>
</tr>
<tr>
<td>Goat Willow</td>
<td>43</td>
<td>10.62%</td>
</tr>
<tr>
<td>Hawthorn</td>
<td>36</td>
<td>8.89%</td>
</tr>
<tr>
<td>Cherry</td>
<td>18</td>
<td>4.44%</td>
</tr>
<tr>
<td>Alder</td>
<td>17</td>
<td>4.20%</td>
</tr>
<tr>
<td>Birch</td>
<td>16</td>
<td>3.95%</td>
</tr>
<tr>
<td>Beech</td>
<td>10</td>
<td>2.47%</td>
</tr>
<tr>
<td>Hazel</td>
<td>8</td>
<td>1.98%</td>
</tr>
<tr>
<td>Holly</td>
<td>7</td>
<td>1.73%</td>
</tr>
<tr>
<td>Lime, Poplar, Pine, Monterey Cypress, Blackthorn, Sorbus, Apple, Field Maple, Spruce, Fir, Hornbeam, Willow, Larch, London Plane, Elder, Bay</td>
<td>21</td>
<td>5.19%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>405</strong></td>
<td><strong>100.00%</strong></td>
</tr>
</tbody>
</table>

4.3.8 Again the most common species of tree recorded in a group of trees was Oak, Sycamore and Ash. These results reflect the commonality of these trees as individual specimens and the same advice regarding their use in any future planting scheme applies.

4.3.9 The presence of lesser numbers of Goat Willow, Hawthorn, Cherry, Birch, Hazel and Holly are all indicative of the value of these species as an under planting to larger
trees. These species are all likely to remain viable despite future climate change predictions and could also be planted in larger numbers either as a conservation feature or where low to medium level screening is required.

Table 4.6: Species Composition of Surveyed Hedges

<table>
<thead>
<tr>
<th>Species</th>
<th>Number of Records</th>
<th>Percentage of Grand Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hawthorn</td>
<td>69</td>
<td>51.88%</td>
</tr>
<tr>
<td>Gorse</td>
<td>18</td>
<td>13.53%</td>
</tr>
<tr>
<td>Blackthorn</td>
<td>11</td>
<td>8.27%</td>
</tr>
<tr>
<td>Goat Willow</td>
<td>11</td>
<td>8.27%</td>
</tr>
<tr>
<td>Hazel</td>
<td>5</td>
<td>3.76%</td>
</tr>
<tr>
<td>Holly</td>
<td>5</td>
<td>3.76%</td>
</tr>
<tr>
<td>Sycamore</td>
<td>5</td>
<td>3.76%</td>
</tr>
<tr>
<td>Ash</td>
<td>4</td>
<td>3.01%</td>
</tr>
<tr>
<td>Lawson Cypress; Privet; Bramble; Leyland Cypress</td>
<td>5</td>
<td>3.76%</td>
</tr>
<tr>
<td>Total</td>
<td>133</td>
<td>100.00%</td>
</tr>
</tbody>
</table>

4.3.10 By far the most commonly recorded hedging species was Hawthorn. This is an essential component of many maintained hedgerows and is generally recorded either on its own or alongside a varying mix of Gorse and/or Blackthorn. Other species such as Goat Willow, Hazel, Holly, Sycamore and Ash were also recorded and tended to be found in less formal hedgerows or those that appear to be infrequently maintained.

4.3.11 Aside from Ash all of the aforementioned hedgerow species provide viable options for future planting. Species such as Lawson Cypress, Leyland Cypress and Privet were found within residential settings and are not considered appropriate for use in the wider landscape.

4.3.12 In order to ensure that any new planting is suited to the local environmental conditions it is recommended that it is formed from stock with a local provenance\(^2\). This should include the use of stock from the Forestry Commission Region of Provenance No. 30 and Seed Zone 303.

SECTION 5

ARBORICULTURAL METHOD STATEMENT
5 ARBORICULTURAL METHOD STATEMENT

5.1 Introduction

5.1.1 This method statement describes tree protection measures which must be adopted in order to ensure the sustainable preservation of retained trees. The measures described are deemed to be appropriate given the scale, intensity and proximity of development to nearby trees.

5.2 General Precautions

5.2.1 All trees which are being retained on site will be protected by protective barriers in the form of fencing as required. Protective barriers will be erected before any materials or machinery is brought onto the site and before any demolition, development or stripping of soil commences. Once erected barriers will be regarded as sacrosanct and will not be removed or altered without prior recommendation by the project arboriculturist.

5.2.2 Care will be taken to avoid damage in the following ways:-

- Oil, bitumen, cement or other material likely to be injurious to a tree will not be stored or mixed within 10m of any stem unless contained within a bunded structure. Concrete mixing will not be carried out within 10m of a tree unless undertaken within a bunded container. Any spillage shall be immediately reported to the project arboriculturist who will determine what mitigation is required.

- Fires will not be lit nearer than 5m of the limit of the crown spread, will be downwind of the tree and will be prevented from becoming so large as to affect the tree.

- Notice boards, telephone cables or other services will not be attached to any part of the tree. Trees to be retained will not be used as anchors for equipment used to remove stumps, roots, other trees or for any other purposes.

- Care will be exercised when using cranes or similar equipment near the spread of the canopy of a tree.

- It is essential that allowance be made for the slope of the ground so that damaging materials such as concrete washings, mortar or diesel oil cannot run towards trees.

- Stumps within the RPA will not be dug or pulled out but are to be ground out.

5.3 Arboricultural Monitoring and Supervision

5.3.1 Effective tree protection can only be achieved by adherence to a logical sequence of works combined with effective arboricultural supervision and monitoring. The purpose of the arboricultural supervision and monitoring is to ensure that all tree protection measures are fit for purpose, are implemented in accordance with the approved details and to address any previously unforeseen issues which may arise during the course of the works.

5.3.2 The site manager will be responsible for ensuring that all site personnel are made aware of the requirements of this AMS and that any future amendments are known and understood. Copies of the approved AMS will be available onsite the
requirements of which will be incorporated into all relevant site management documents and site induction procedures.

5.3.3 The project arboriculturist will review the recommended tree protection measures with the project management team once the scheme has been approved. The purpose of this review is to check that the recommended tree protection measures are still appropriate and to pick up on any minor design changes that may have been made. A record of the review will made and a revised AMS and TPP produced should any changes be required.

5.3.4 A pre-construction meeting will be held between the site manager and the project arboriculturist prior to any works onsite. The purpose of this meeting will be to ensure that all aspects of the tree protection measures are clear and understood and that any future sequencing and supervisory arrangements are agreed. The details of this meeting will be recorded and will be circulated to all parties in writing.

5.3.5 Once works commence the project arboriculturist will undertake a programme of monitoring and supervision. This may include phone and email contact with the site manager, regular site visits or the direct supervision of sensitive works. The frequency of any monitoring and supervision will be determined by the intensity and proximity of works to trees and will be flexible enough to accommodate changes in the scheduling of tasks as they occur on the site.

5.3.6 The project arboriculturist will maintain a record of all aspects of the arboricultural monitoring and supervision. This will provide an auditable record of compliance with any agreed tree protection measures and any subsequent changes that are made.

5.3.7 A recommended programme of works detailing the necessary arboricultural inputs is detailed in Table 5.1.

<table>
<thead>
<tr>
<th>Table 5.1: Recommended programme of arboricultural inputs</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Stage</strong></td>
</tr>
<tr>
<td>----------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Before Demolition, Site Preparation Or Construction Works Onsite</strong></td>
</tr>
</tbody>
</table>
| 1 | Obtain formal consent for scheme and review recommended tree protection measures in light of any identified working requirements. | • Review the proposed tree protection measures and agree any changes.  
• Provide updated AMS and TPP if changes have occurred. |
| 2 | Pre-construction meeting. To discuss the precise location and timing of all tree protection measures. | • Review the proposed tree protection measures and agree any changes.  
• Agree final supervision and monitoring requirements.  
• Circulate details to all parties. |
| 3 | Completion of approved tree works. | • Supervise sensitive works if necessary. |
| 4 | Installation of protective fencing. | Review the proposed works with the contractor.  
Document and sign off the completed works. |
Prepare and issue documents identifying any agreed revisions.

## During Demolition, Site Preparation and Construction Works

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>During all external works which occur within, or immediately adjacent to, the RPA of any retained tree.</td>
</tr>
<tr>
<td></td>
<td>• As necessary to ensure compliance with the AMS and during any unplanned works within the RPA of any retained tree.</td>
</tr>
</tbody>
</table>

### Completion of all Construction Activities

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>Removal of protective fencing once all construction activities are complete.</td>
</tr>
<tr>
<td></td>
<td>• Inspection of retained trees and provision of a list of remedial pruning works if required.</td>
</tr>
<tr>
<td>7</td>
<td>Sign off by project arboriculturist.</td>
</tr>
<tr>
<td></td>
<td>• Once all works have been completed.</td>
</tr>
</tbody>
</table>

### 5.4 Tree and Hedge Removal

#### 5.4.1 A schedule of trees which are likely to require removal is provided in Table 5.2.

<table>
<thead>
<tr>
<th>TREE/HEDGE REFERENCE NUMBER</th>
<th>RECOMMENDED WORKS</th>
</tr>
</thead>
</table>

Retained sections to be protected with appropriate Tree Protection Fencing.
5.4.2 Tree works shall be undertaken in accordance with BS 3998 Recommendations for tree work and any other relevant best practice guidance.

5.4.3 The statutory protection afforded by the Wildlife and Countryside Act 1981 (Amended) and Countryside and Rights of Way Act 2000 (Amended) will be adhered to. Where there is evidence that bats, nesting birds or other protected species are present then specialist advice will be obtained prior to the commencement of work.

5.4.4 All operations shall be carefully carried out to avoid damage to the trees being treated or neighbouring trees. No trees to be retained shall be used for anchorage or winching purposes.

5.5 Tree Protection Fencing

5.5.1 Tree protection fencing will be used to prevent access to the RPAs of retained trees. Tree protection fencing shall be erected outside the RPA of retained trees. The minimum distance that the tree protection fencing should be offset from the centre of the trunk are provided within the Tree Survey Schedule in Appendix A.

5.5.2 In all instances the following specification will be adhered to.

- Protective fencing will be erected prior to any works onsite including demolition, ground work or the importation of plant and materials.
- Once erected protective fencing shall remain in-situ until all construction activities are complete.
- The area to the rear of the protective fencing shall be considered to form a Construction Exclusion Zone. No construction activities, storage of materials or pedestrian or vehicular access shall take place within this area.
- The specification for any protective fencing will comply fully with BS 5837:2012 (refer to Figure 1). Fencing shall be fit for the purpose of excluding construction activity and shall be appropriate to the degree and proximity of work taking place around the retained tree(s).
Figure 1: Example of recommended tree protection fencing (BS 5837:2012 Figure 2)

Key
1. Standard scaffold poles
2. Heavy gauge 2 m tall galvanized tube and welded mesh infill panels
3. Panels secured to uprights and cross-members with wire ties
4. Ground level
5. Uprights driven into the ground until secure (minimum depth 0.6 m)
6. Standard scaffold clamps

- Regular daily checks will be carried out by the site manager to ensure that the barriers are still in place and functioning and any damage will be rectified without delay.
SECTION 6

CONCLUSIONS
6 CONCLUSIONS

6.1.1 A total of 330 trees, 163 groups of trees, 7 woodlands and 80 hedges were surveyed.

6.1.2 Overall a total of 117 trees, 20 groups of trees and 5 hedges are entirely within the footprint of the scheme and may need to be removed. A further 47 groups of trees, 2 woodlands and 35 hedges are partially within the footprint of the scheme and may need to be partly removed in order to facilitate the scheme.

6.1.3 Further trees and hedges may need to be removed in order to provide the working area necessary to construct the scheme. The extent of the working area should take account of trees and should seek to retain them wherever possible. The category rating of the surveyed trees should be used to gauge their value and to prioritise what should be removed and retained.

6.1.4 A detailed TPP and AMS have been provided. These highlight those trees, woodlands and hedges which may need to be wholly or partially removed in order to implement the scheme. Details are also given regarding the specification and offset distances for tree protection fencing and the level of continuing arboricultural input that may be required.

6.1.5 Tree removals can be mitigated through the implementation of an appropriate post development planting scheme. This should seek to use tree species which are appropriate for the area and which, at maturity, will provide similar visual, cultural and conservation benefits as those which are to be removed. Details of those tree species which may prove suitable for inclusion as part of a post development landscaping scheme are also provided.
APPENDIX A

TREE SURVEY SCHEDULE
# TREE SURVEY SCHEDULE

**Key**

- **Ref. Nos:** Individual reference number
  - **Type:** T - Tree, G - Group, W - Woodland, H - Hedge
  - **Species:** Species listed by common name
  - **Height:** Overall height (m)
  - **Diameter:** Stem diameter (mm) calculated in accordance with BS 5837 paragraph 4.6.1. An average stem diameter is provided for groups, woodlands and hedges.
  - Denotes data that has not been collected either because it is not available or is not considered relevant
  - **No. of Stems:** Number of stems (individual trees only)
  - **N, E, S, W:** Crown spread taken at each cardinal point (m)
  - **Lowest Crown Height:** Lowest crown height (m)
  - **Lowest Branch height:** Height of lowest significant branch (m)
  - **Age Class:** Young - < 1/3rd estimated life expectancy, Semi-mature - 1/3rd to 2/3rd estimated life expectancy, Mature - > 2/3rd estimated life expectancy, Veteran – a tree which exists significantly beyond its normal life expectancy
  - **Physiological Condition:** Good, Fair, Poor, Dead
  - **Structural Condition:** Good, Fair, Poor
  - **Estimated Remaining Contribution:** >10 years, 10+ years, 20+ years, 40+ years
  - **Category:** BS 5837 Category - A, B, C, U, BS 5837 Sub-category - 1, 2, 3
  - **TPF Offset Distances:** The minimum distance between the centre of the tree stem and the line of tree protection fencing (m)
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<thead>
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<td>C1</td>
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### TREE NO | TYPE | SPECIES | HEIGHT | DIAMETER (mm) | N | E | S | W | LCH | LBH | AGE | CLASS | STRUCTURAL CONDITION | PHYSIOLOGICAL CONDITION | PRELIMINARY MANAGEMENT RECOMMENDATIONS | ESTIMATED REMAINING CONTRIBUTION | CATEGORY | NOTES |
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
518 | T | Oak | 13 | 1000 | 1 | 8 | 8 | 8 | 3.5 | 5.5 | Mature | Good | Fair | - | 40+ | B2 | Minor stem decay; Dead branch(es) within crown |
519 | T | Sycamore | 12 | 750 | 1 | 6.5 | 6.5 | 6.5 | 4 | 5.5 | Mature | Good | Fair | - | 20+ | B2 | Minor stem wounds |
520 | T | Sycamore | 9.5 | 500 | 1 | 5.5 | 5.5 | 5.5 | 5.5 | 2.5 | 1.5 | Mature | Good | Fair | - | 20+ | C1 | No apparent significant defects |
521 | T | Sycamore | 16 | 1200 | 1 | 9 | 9 | 9 | 9 | 3 | 3 | Mature | Good | Fair | - | 40+ | B1 | Dense ivy to stem; Dense ivy within crown |
522 | T | Oak | 9.5 | 425 | 1 | 6.5 | 6.5 | 6.5 | 6.5 | 4.5 | 3.5 | Mature | Fair | Fair | - | 40+ | C1 | No apparent significant defects; Tree is one of two; Adjacent tree has been heavily lopped and is of low value |
523 | T | Sycamore | 8.5 | 400 | 1 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 3.5 | Over Mature | Fair | Poor | - | 10+ | C1 | A tree with future potential; Lopped to accommodate overhead power line |
524 | T | Sycamore | 12 | 650 | 1 | 5 | 5 | 5 | 5 | 6.5 | 3 | Mature | Fair | Fair | - | 20+ | B1 | Dense ivy to stem; On river bank |
525 | T | Ash | 13 | 600 | 1 | 6.5 | 6.5 | 6.5 | 6.5 | 3.5 | 3.5 | Mature | Fair | Fair | - | 20+ | B1 | Leaning stem; Minor deadwood in crown; Tree not tagged as no access; Tree on river bank |
526 | T | Sycamore | 8.5 | 420 | 1 | 4 | 4 | 4 | 4 | 2.5 | 2 | Mature | Fair | Fair | - | 20+ | C1 | Dense ivy to stem |
<table>
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<th>HEIGHT (m)</th>
<th>DIAMETER (mm)</th>
<th>NO. OF STEMS</th>
<th>N</th>
<th>E</th>
<th>S</th>
<th>W</th>
<th>LCH</th>
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<td>Above wall; Major pruning wound to base</td>
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## DETAILED ARBORICULTURAL SURVEY

### TREE SURVEY

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**A487 Caernarfon & Bontnewydd Bypass - Arboricultural Report**  
**October 2015**  
Prepared by Balfour Beatty/Jones Bros JV for Welsh Government
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## Detailed Arboricultural Survey

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A487 Caernarfon & Bontnewydd Bypass - Arboricultural Report
October 2015
Prepared by Balfour Beatty/Jones Bros JV for Welsh Government
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A487 Caernarfon and Bontnewydd Bypass - Arboricultural Report
October 2015
Prepared by Balfour Beatty/Jones Bros JV for Welsh Government
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TPF OFFSET DISTANCES

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A487 Caernarfon & Bontnewydd Bypass - Arboricultural Report
October 2015

Prepared by Balfour Beatty/Jones Bros JV
for Welsh Government
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NOTES:
- C1: Dense ivy to stem; Suspected internal decay; Inonotus bracket at base of tree
- U: Root decay evident; Major basal decay
- B1: No apparent significant defects
- Over: Mature
- Semi-Mature: Good
- Suppressed crown: 4.2
- Major stem decay: 13
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**NOTES**: Major stem division at ground level; Major stem division at 1m; Minor deadwood in crown. Pruning wounds to stem. Declining tree. Outgrown hedge tree. No apparent significant defects. Some decaying branch stubs and general branch tears. No apparent significant defects. Dense ivy to stem; Decaying branch(es) within crown. Pruning wounds to stem. No apparent significant defects; Leaning stem.
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<td>Group of 2 trees; Minor pruning wounds apparent</td>
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### A487 Caernarfon and Bontnewydd Bypass
### Detailed Arboricultural Survey

**Prepared by Balfour Beatty/Jones Bros JV for Welsh Government**

**Prepared by**: Balfour Beatty/Jones Bros JV  
**Prepared for**: Welsh Government

**Date**: October 2015

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<th>W</th>
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<td>C2</td>
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**TPF OFFSET DISTANCES**

7.2

3.6

1.8

7.8

7.2

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<td>C2</td>
<td>Group of scruffy natural regeneration beneath overhead power lines</td>
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### A487 Caernarfon and Bontnewydd Bypass
#### Detailed Arboricultural Survey

**Prepared by Balfour Beatty/Jones Bros JV for Welsh Government
October 2015**

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<th>W</th>
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<td>Self-set scrubby trees; No safe access; Limited inspection</td>
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**Notes:**
- TP OFFSET DISTANCES
- B2: Limited access for inspection; No apparent significant defects
- C2: Self-set scrubby trees; No safe access; Limited inspection
- Limited access for inspection
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<tr>
<td>159 G</td>
<td>Sycamore</td>
<td>15 250-500</td>
<td>- 7.5</td>
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<td>Good</td>
<td>Fair</td>
<td>-</td>
<td>20+</td>
<td>C2</td>
<td>Group of 4 trees; Shared root system; Group includes trees of varying individual quality and condition</td>
<td>6</td>
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<td>160 G</td>
<td>Sycamore</td>
<td>14 250-500</td>
<td>- 6</td>
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<td>Good</td>
<td>Fair</td>
<td>-</td>
<td>20+</td>
<td>C2</td>
<td>Group of 2 trees; Multiple stems; Weak union between stems</td>
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<td>161 G</td>
<td>Ash; Birch; Oak</td>
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<td>Good</td>
<td>Fair</td>
<td>-</td>
<td>20+</td>
<td>C2</td>
<td>Established highway planting; Some future potential if properly managed</td>
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<tr>
<td>162 G</td>
<td>Ash; Birch; Sycamore; Willow</td>
<td>9.5 75-300</td>
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<td>4</td>
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<td>Mature</td>
<td>Fair</td>
<td>Fair</td>
<td>-</td>
<td>20+</td>
<td>C2</td>
<td>Self-set growth adjacent to highways verge with more mature trees along internal edge</td>
<td>3.6</td>
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<tr>
<td>163 G</td>
<td>Monterey Cypress; London Plane; Ash; Cherry</td>
<td>14 150-400</td>
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<td>5.5</td>
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<td>Fair</td>
<td>Fair</td>
<td>-</td>
<td>20+</td>
<td>C2</td>
<td>Group includes mature Cypress and Plane and young, low quality Cherry and Ash</td>
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<td>S</td>
<td>W</td>
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</tr>
<tr>
<td>164</td>
<td>G</td>
<td>Ash; Goat Willow; Hawthorn; Sycamore</td>
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<td>150-500</td>
<td>-</td>
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<td>Fair</td>
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<td>Some low level screening value; Group includes trees of varying individual quality and condition</td>
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<td>Fair</td>
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<td>C2</td>
<td>Group of 5 trees; Root damage evident; Stem abrasions</td>
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<td>Fair</td>
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<td>B2</td>
<td>Group of woodland edge trees</td>
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<td>Fair</td>
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<td>20+</td>
<td>C2</td>
<td>Group of 2 trees; Within private property; No access; All dimensions estimated</td>
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<td>Fair</td>
<td>-</td>
<td>20+</td>
<td>C2</td>
<td>Group includes trees of varying individual quality and condition</td>
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<td>---------</td>
</tr>
<tr>
<td>173</td>
<td>G</td>
<td>Hawthorn; Oak</td>
<td>6</td>
<td>275</td>
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<td>Fair</td>
<td>-</td>
<td>20+</td>
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<td>C2</td>
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<td>Fair</td>
<td>-</td>
<td>40+</td>
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<td>Group includes trees of varying individual quality and condition</td>
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<tr>
<td>176</td>
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<td>-</td>
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<td>Small self-set scrubby trees; Group includes trees of varying individual quality and condition</td>
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<td>Fair</td>
<td>Fair</td>
<td>-</td>
<td>20+</td>
<td>B2</td>
<td>Group includes trees of varying individual quality and condition</td>
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<tr>
<td>180</td>
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<td>Goat Willow; Oak</td>
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<td>275</td>
<td>-</td>
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<td>Semi-Mature</td>
<td>Fair</td>
<td>Fair</td>
<td>-</td>
<td>20+</td>
<td>C2</td>
<td>Group of scrubby trees adjacent to cycleway and on top of stone retaining wall</td>
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<tr>
<td>181</td>
<td>G</td>
<td>Cherry; Goat Willow; Oak; Sycamore</td>
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<td>Fair</td>
<td>Fair</td>
<td>-</td>
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<td>C2</td>
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<td>S</td>
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<td>275</td>
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<td>Fair</td>
<td>-</td>
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<td>C2</td>
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<td>Fair</td>
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<td>10+</td>
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<td>Fair</td>
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<td>-</td>
<td>-</td>
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<td>C2</td>
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<td>Fair</td>
<td>-</td>
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<td>C2</td>
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<td>Poor</td>
<td>-</td>
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<td>Fair</td>
<td>-</td>
<td>10+</td>
<td>C2</td>
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**NOTES**
- 184: No apparent significant defects
- 185: Evidence of historic storm damage; Some decaying branch stubs and general branch tears; Innonotus decay fungus present
- 191: Group of 2 Ash; Group includes trees of varying individual quality and condition; Large area of stem decay in one specimen

**TPF OFFSET DISTANCES**
- 3.3
- 9
- 7.2
- 4.2
- 3
- 7.2
- 2.7
<table>
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<th>E</th>
<th>S</th>
<th>W</th>
<th>LCH</th>
<th>LBH</th>
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<th>STRUCTURAL CONDITION</th>
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<th>CATEGORY</th>
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<td>G</td>
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<td>17</td>
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<td>Mature</td>
<td>Fair</td>
<td>Fair</td>
<td>-</td>
<td>20+</td>
<td>B2</td>
<td>Mixture of ornamental planting and self-set trees.</td>
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<td>C2</td>
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<td>1.5</td>
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<td>Fair</td>
<td>Fair</td>
<td>-</td>
<td>20+</td>
<td>C2</td>
<td>Self-set hedgerow trees</td>
</tr>
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<td>198</td>
<td>G</td>
<td>Ash; Cherry; Hawthorn</td>
<td>14</td>
<td>75-600</td>
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<td>Fair</td>
<td>Fair</td>
<td>-</td>
<td>20+</td>
<td>B2</td>
<td>Scattered group around old stock pen; Remnants of old hedge</td>
</tr>
<tr>
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<td>G</td>
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<td>15</td>
<td>150-600</td>
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<td>Fair</td>
<td>Fair</td>
<td>-</td>
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<td>Spaced individual trees connected with self-set Hazel &amp; Willow</td>
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<td>201</td>
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<td>Fair</td>
<td>Fair</td>
<td>-</td>
<td>20+</td>
<td>C2</td>
<td>Group includes trees of varying individual quality and condition</td>
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<td>W</td>
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<td>LBH</td>
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<td>STRUCTURAL CONDITION</td>
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<td>ESTIMATED REMAINING CONTRIBUTION</td>
<td>CATEGORY</td>
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<td>-</td>
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<td>C2</td>
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<td>-</td>
<td>20+</td>
<td>C2</td>
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<td>16</td>
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<td>-</td>
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<td>-</td>
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<td>-</td>
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<td>Fair</td>
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<td>-</td>
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<td>B2</td>
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<td>-</td>
<td>10+</td>
<td>C2</td>
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<td>500-650</td>
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<td>5.5</td>
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<td>Mature</td>
<td>Fair</td>
<td>Fair</td>
<td>-</td>
<td>40+</td>
<td>B2</td>
<td>Group of mature trees on river bank</td>
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</table>

**A487 Caernarfon and Bontnewydd Bypass**
**DETAILED ARBORICULTURAL SURVEY**

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A487 Caernarfon & Bontnewydd Bypass - Arboricultural Report
October 2015
Prepared by Balfour Beatty/Jones Bros JV for Welsh Government
<table>
<thead>
<tr>
<th>TREE NO</th>
<th>TYPE</th>
<th>SPECIES</th>
<th>HEIGHT</th>
<th>DIAMETER (mm)</th>
<th>NO. OF STEMS</th>
<th>N</th>
<th>E</th>
<th>S</th>
<th>W</th>
<th>LCH</th>
<th>LSH</th>
<th>AGE CLASS</th>
<th>STRUCTURAL CONDITION</th>
<th>PRELIMINARY MANAGEMENT RECOMMENDATIONS</th>
<th>ESTIMATED REMAINING CONTRIBUTION</th>
<th>CATEGORY</th>
<th>NOTES</th>
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<tr>
<td>212</td>
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<td>Ash; Goat Willow; Hawthorn; Oak; Sycamore</td>
<td>12</td>
<td>150-600</td>
<td>-</td>
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<td>4.5</td>
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<td>Fair</td>
<td>Fair</td>
<td>-</td>
<td>20+</td>
<td>B2</td>
</tr>
<tr>
<td>213</td>
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<td>150-500</td>
<td>-</td>
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<td>4.5</td>
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<td>Fair</td>
<td>-</td>
<td>20+</td>
<td>C2</td>
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<td>214</td>
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<td>20+</td>
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<td>Poor</td>
<td>-</td>
<td>40+</td>
<td>C2</td>
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<tr>
<td>218</td>
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<td>3.5</td>
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<td>Fair</td>
<td>-</td>
<td>20+</td>
<td>C2</td>
</tr>
<tr>
<td>219</td>
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<td>Ash; Beech; Sycamore</td>
<td>8</td>
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<td>Fair</td>
<td>-</td>
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<td>Fair</td>
<td>Fair</td>
<td>-</td>
<td>20+</td>
<td>C2</td>
</tr>
</tbody>
</table>

NOTES:
- Established trees along river bank
- Group of self-set trees along river bank; Group includes trees of varying individual quality and condition
- Some low level screening value
- On slope adjacent to access road
- Group of 2 trees; Dense ivy to stem; Dense ivy within crown
- Group of 2 trees
- Outgrown hedge
- Ornamental screen planting

TPF OFFSET DISTANCES:
- 7.2
- 6
- 7.8
- 5.4
- 3.6
- 3.6
- 2.4
<table>
<thead>
<tr>
<th>TREE NO</th>
<th>TYPE</th>
<th>SPECIES</th>
<th>HEIGHT</th>
<th>DIAMETER (mm)</th>
<th>NO. OF STEMS</th>
<th>N</th>
<th>E</th>
<th>S</th>
<th>W</th>
<th>LCH</th>
<th>LBH</th>
<th>AGE CLASS</th>
<th>PHYSIOLOGICAL CONDITION</th>
<th>STRUCTURAL CONDITION</th>
<th>PRELIMINARY MANAGEMENT RECOMMENDATIONS</th>
<th>ESTIMATED REMAINING CONTRIBUTION</th>
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<th>TPF OFFSET DISTANCES</th>
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<td>221</td>
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<td>225</td>
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<td>Semi-Mature</td>
<td>Good</td>
<td>Fair</td>
<td>-</td>
<td>20+</td>
<td>C2</td>
<td>Ornamental planting</td>
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<td>11</td>
<td>200-500</td>
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<td>4</td>
<td>4</td>
<td>4</td>
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<td>1</td>
<td>Semi-Mature</td>
<td>Fair</td>
<td>Fair</td>
<td>-</td>
<td>20+</td>
<td>B2</td>
<td>Mixture of original roadside trees together with more recent planting; Screening value</td>
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<td>223</td>
<td>G</td>
<td>Alder; Ash; Birch; Sycamore</td>
<td>9.5</td>
<td>150-300</td>
<td>-</td>
<td>3</td>
<td>3</td>
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<td>Fair</td>
<td>-</td>
<td>20+</td>
<td>C2</td>
<td>Ornamental gateway planting into industrial estate</td>
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<tr>
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<td>-</td>
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<td>Fair</td>
<td>Fair</td>
<td>-</td>
<td>10+</td>
<td>C2</td>
<td>Scrubby trees; Remnants of outgrown hedge</td>
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<tr>
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<td>2.5</td>
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<td>Mature</td>
<td>Fair</td>
<td>Poor</td>
<td>-</td>
<td>10+</td>
<td>C2</td>
<td>Remnants of old hedge; Scattered individual trees interspersed with scrub</td>
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<td>2</td>
<td>Mature</td>
<td>Fair</td>
<td>Fair</td>
<td>-</td>
<td>20+</td>
<td>B2</td>
<td>Group of 2 trees; Dense ivy to stem</td>
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<tr>
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<td>12</td>
<td>150-350</td>
<td>-</td>
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<td>5</td>
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<td>0.5</td>
<td>Mature</td>
<td>Fair</td>
<td>Fair</td>
<td>-</td>
<td>10+</td>
<td>C2</td>
<td>Scrubby trees; Limited landscape value</td>
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### A487 Caernarfon and Bontnewydd Bypass
#### DETAILED ARboriculTURAL SURVEY

**Prepared by Baftour Beatty/Jones Bros JV for Welsh Government October 2015**

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<thead>
<tr>
<th>TREE NO</th>
<th>TYPE</th>
<th>SPECIES</th>
<th>HEIGHT</th>
<th>DIAMETER (mm)</th>
<th>NO. OF STEMS</th>
<th>N</th>
<th>E</th>
<th>S</th>
<th>W</th>
<th>LCH</th>
<th>LBH</th>
<th>AGE CLASS</th>
<th>PHYSIOLOGICAL CONDITION</th>
<th>STRUCTURAL CONDITION</th>
<th>PRELIMINARY MANAGEMENT RECOMMENDATIONS</th>
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<td>-</td>
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<td>C2</td>
<td>Some minor crown dieback</td>
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<td>Good</td>
<td>Fair</td>
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<td>C2</td>
<td>Spaced group of 3 trees</td>
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<td>Fair</td>
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<td>20+</td>
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<td>Group of 3 trees; No apparent significant defects</td>
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<td>Group of scrubby trees and bushes on each side of stream; Occasional established Oak</td>
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<td>Group of trees on opposite side of stream; Average condition and form for species and age</td>
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<td>Group includes trees of varying individual quality and condition</td>
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<td>Group of self-set trees adjacent to cycleway; Some low level screening value</td>
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<td>Fair</td>
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<td>B2</td>
<td>Mixed woodland; No notable individuals; No evidence of historic management</td>
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A487 Caernarfon and Bontnewydd Bypass - Arboricultural Report
October 2015
Prepared by Balfour Beatty/Jones Bros JV for Welsh Government
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Notes: 0.9

Prepared by Balfour Beatty/Jones Bros JV for Welsh Government. 

October 2015
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### Tree Survey for the A487 Caernarfon and Bontnewydd Bypass

#### Detailed Arboricultural Survey

**Prepared by Balfour Beatty/Jones Bros JV**

**October 2015**

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<th>NO. OF STems</th>
<th>N</th>
<th>E</th>
<th>S</th>
<th>W</th>
<th>LCH</th>
<th>LBH</th>
<th>AGE CLASS</th>
<th>STRUCTURAL CONDITION</th>
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<td>E</td>
<td>S</td>
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### SUMMARY OF BS 5837:2012 TABLE 1

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<tr>
<th>Category</th>
<th>Description</th>
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<tr>
<td><strong>Trees unsuitable for retention</strong></td>
<td>Trees in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years identified by dark red coloration on the tree constraints plan. These trees should not be a consideration in the planning process.</td>
</tr>
<tr>
<td><strong>Trees to be considered for retention</strong></td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>Trees of high quality with an estimated remaining life expectancy of at least 40 years. Identified by light green coloration on the tree survey plan.</td>
</tr>
<tr>
<td>B</td>
<td>Trees of moderate quality with an estimated remaining life expectancy of at least 20 years. Identified by mid blue coloration on the tree survey plan.</td>
</tr>
<tr>
<td>C</td>
<td>Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150mm. Identified by grey coloration on the tree survey plan. The following subcategories are applied. Trees may be allocated more than one subcategory, but this will not increase their overall value.</td>
</tr>
<tr>
<td>1: Mainly arboricultural values</td>
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</tr>
<tr>
<td>A1</td>
<td>Trees that are of particularly good examples of their species, especially if rare or unusual; or those that are essential components of groups, or of formal or semi-formal arboricultural features (e.g. the dominant and/or principle trees within an avenue).</td>
</tr>
<tr>
<td>B1</td>
<td>Trees that might be included in category A, but are downgraded because of impaired condition (e.g. the presence of significant though remediable defects including unsympathetic past management and storm damage), such that they are unlikely to be suitable for retention beyond 40 years; or trees lacking the special quality necessary to merit category A designation.</td>
</tr>
<tr>
<td>C1</td>
<td>Unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories.</td>
</tr>
<tr>
<td>2: Mainly landscape values</td>
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</tr>
<tr>
<td>A2</td>
<td>Trees, groups, or woodlands of particular visual importance as arboricultural and/or landscape features.</td>
</tr>
<tr>
<td>B2</td>
<td>Trees present in numbers, usually as groups or woodlands, such that they attract a higher collective rating than they might as individuals; or trees occurring as collectives but situated so as to make little visual contribution to the wider locality.</td>
</tr>
<tr>
<td>C2</td>
<td>Trees present in groups or woodlands, but without this conferring on them significantly greater collective landscape value; and/or trees offering low or only temporary/transient landscape benefits.</td>
</tr>
<tr>
<td>3: Mainly cultural values, including conservation</td>
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</tr>
<tr>
<td>A3</td>
<td>Trees, groups or woods of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood-pasture).</td>
</tr>
<tr>
<td>B3</td>
<td>Trees with material conservation or other cultural value.</td>
</tr>
<tr>
<td>C3</td>
<td>Trees with no material conservation or other cultural value.</td>
</tr>
</tbody>
</table>
APPENDIX C

BS5837:2012 TREE CONSTRAINTS PLANS
A487 CAERNARFON AND BONTNEWYDD BYPASS TREE CONSTRAINTS PLAN

1. HEALTH AND SAFETY INFORMATION

MAINTENANCE / OPERATION / DECOMMISSIONING / DEMOLITION PHASES

1. PLEASE REFER TO THE HAZARD RISK REGISTER AND THE WORKS INFORMATION FOR DETAILS OF THE RISKS ASSOCIATED WITH THE MAINTENANCE, OPERATION, DECOMMISSIONING AND DEMOLITION PHASES.

2. PLEASE REFER TO THE HAZARD RISK REGISTER AND THE WORKS INFORMATION FOR DETAILS OF THE RISKS ASSOCIATED WITH THIS WORK.

3. RESIDUAL HAZARDS ARE LISTED HERE AND REFERENCED ON THE DRAWING.
   1. NOTHING SIGNIFICANT OR UNUSUAL.

MAINTENANCE / OPERATION / DECOMMISSIONING / DEMOLITION PHASES

1. PLEASE REFER TO THE HAZARD RISK REGISTER AND THE WORKS INFORMATION FOR DETAILS OF THE RISKS ASSOCIATED WITH THE MAINTENANCE, OPERATION, DECOMMISSIONING AND DEMOLITION PHASES.

2. THE CONTRACTOR SHALL REFER TO STATUTORY UNDERTAKERS LAYOUT DRAWINGS AND IDENTIFY LOCATIONS OF EXISTING UNDERGROUND SERVICES PRIOR TO CARRYING OUT EXCAVATION WORKS.

3. RESIDUAL HAZARDS ARE LISTED HERE AND REFERENCED ON THE DRAWING.
   1. NOTHING SIGNIFICANT OR UNUSUAL.

4. THE CONTRACTOR SHALL REFER TO STATUTORY UNDERTAKERS LAYOUT DRAWINGS AND IDENTIFY LOCATIONS OF EXISTING UNDERGROUND SERVICES PRIOR TO CARRYING OUT EXCAVATION WORKS.

SIGNIFICANT OR EXCEPTIONAL RISKS ARE IDENTIFIED BELOW

HEALTH AND SAFETY INFORMATION

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PAGE 1 OF 20

REV DATE DESCRIPTION BY CHKD APPD

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1. HEALTH AND SAFETY INFORMATION

1.1. CONSTRUCTION PHASES

1.1.1. PLEASE REFER TO THE HAZARD RISK REGISTER AND THE WORKS INFORMATION FOR DETAILS OF THE RISKS ASSOCIATED WITH THIS WORK.

1.1.2. CONSIDERATION SHOULD BE GIVEN TO THE CLOSE PROXIMITY OF ANY STRUCTURES THAT MAY BE AFFECTED BY CONSTRUCTION.

1.1.3. RESIDUAL HAZARDS ARE LISTED HERE AND REFERENCED ON THE DRAWING.

1.1.4. NOTHING SIGNIFICANT OR UNUSUAL.

1.2. THE CONTRACTOR SHALL REFER TO EXISTING UNDERGROUND SERVICES PRIOR TO CARRYING OUT EXCAVATION WORKS.

1.3. MAINTENANCE / OPERATION / DECOMMISSIONING / DEMOLITION PHASES

1.3.1. PLEASE REFER TO THE HAZARD RISK REGISTER AND THE WORKS INFORMATION FOR DETAILS OF THE RISKS ASSOCIATED WITH THIS WORK.

1.3.2. CONSIDERATION SHOULD BE GIVEN TO EXISTING UNDERGROUND SERVICES PRIOR TO CARRYING OUT EXCAVATION WORKS.

1.3.3. RESIDUAL HAZARDS ARE LISTED HERE AND REFERENCED ON THE DRAWING.

1.3.4. NOTHING SIGNIFICANT OR UNUSUAL.

1.4. SIGNIFICANT OR EXCEPTIONAL RISKS ARE IDENTIFIED BELOW.

2. HEALTH AND SAFETY INFORMATION

2.1. CONSTRUCTION PHASES

2.1.1. PLEASE REFER TO THE HAZARD RISK REGISTER AND THE WORKS INFORMATION FOR DETAILS OF THE RISKS ASSOCIATED WITH THIS WORK.

2.1.2. CONSIDERATION SHOULD BE GIVEN TO THE CLOSE PROXIMITY OF ANY STRUCTURES THAT MAY BE AFFECTED BY CONSTRUCTION.

2.1.3. RESIDUAL HAZARDS ARE LISTED HERE AND REFERENCED ON THE DRAWING.

2.1.4. NOTHING SIGNIFICANT OR UNUSUAL.

2.2. MAINTENANCE / OPERATION / DECOMMISSIONING / DEMOLITION PHASES

2.2.1. PLEASE REFER TO THE HAZARD RISK REGISTER AND THE WORKS INFORMATION FOR DETAILS OF THE RISKS ASSOCIATED WITH THIS WORK.

2.2.2. CONSIDERATION SHOULD BE GIVEN TO THE CLOSE PROXIMITY OF ANY STRUCTURES THAT MAY BE AFFECTED BY CONSTRUCTION.

2.2.3. RESIDUAL HAZARDS ARE LISTED HERE AND REFERENCED ON THE DRAWING.

2.2.4. NOTHING SIGNIFICANT OR UNUSUAL.

2.3. THE CONTRACTOR SHALL REFER TO STATUTORY UNDERGROUND SERVICES PRIOR TO CARRYING OUT EXCAVATION WORKS.

2.4. SIGNIFICANT OR EXCEPTIONAL RISKS ARE IDENTIFIED BELOW.
1. HEALTH AND SAFETY INFORMATION

MAINTENANCE / OPERATION / DECOMMISSIONING / DEMOLITION PHASES

1. PLEASE REFER TO THE HAZARD RISK REGISTER AND THE WORKS INFORMATION FOR DETAILS OF THE RISKS ASSOCIATED WITH THE MAINTENANCE, OPERATION, DECOMMISSIONING AND DEMOLITION PHASES.

2. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH THE HEALTH AND SAFETY FILE(S) PRODUCED AND HANDED OVER ON COMPLETION OF THIS PROJECT.

3. RESIDUAL HAZARDS ARE LISTED HERE AND REFERENCED ON THE DRAWING.
   i. NOTHING SIGNIFICANT OR UNUSUAL.

CONSTRUCTION PHASE

1. PLEASE REFER TO THE HAZARD RISK REGISTER AND THE WORKS INFORMATION FOR DETAILS OF THE RISKS ASSOCIATED WITH THIS WORK.

2. IN PREPARATION OF CONSTRUCTION METHOD STATEMENTS CONSIDERATION SHOULD BE GIVEN TO THE CLOSE PROXIMITY OF ANY STRUCTURES THAT MAY BE AFFECTED BY CONSTRUCTION.

3. RESIDUAL HAZARDS ARE LISTED HERE AND REFERENCED ON THE DRAWING.
   i. NOTHING SIGNIFICANT OR UNUSUAL.

4. THE CONTRACTOR SHALL REFER TO STATUTORY UNDERGROUND LAYOUT DRAWINGS AND IDENTIFY LOCATIONS OF EXISTING UNDERGROUND SERVICES PRIOR TO CARRYING OUT EXCAVATION WORKS.

MAINTENANCE / OPERATION / DECOMMISSIONING / DEMOLITION PHASES

1. PLEASE REFER TO THE HAZARD RISK REGISTER AND THE WORKS INFORMATION FOR DETAILS OF THE RISKS ASSOCIATED WITH THE MAINTENANCE, OPERATION, DECOMMISSIONING AND DEMOLITION PHASES.

2. RESIDUAL HAZARDS ARE LISTED HERE AND REFERENCED ON THE AS-BUILT DRAWING.
   i. NOTHING SIGNIFICANT OR UNUSUAL.

3. THE CONTRACTOR SHALL REFER TO STATUTORY UNDERGROUND LAYOUT DRAWINGS AND IDENTIFY LOCATIONS OF EXISTING UNDERGROUND SERVICES PRIOR TO CARRYING OUT EXCAVATION WORKS.

SIGNIFICANT OR EXCEPTIONAL RISKS ARE IDENTIFIED BELOW.

HEALTH AND SAFETY INFORMATION

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1. HEALTH AND SAFETY INFORMATION

1. PLEASE REFER TO THE HAZARD RISK REGISTER AND THE WORKS INFORMATION FOR DETAILS OF THE RISKS.

2. CONSIDERATION SHOULD BE GIVEN TO THE CLOSE PROXIMITY OF ANY STRUCTURES THAT MAY BE AFFECTED BY THE WORK.

3. RESIDUAL HAZARDS ARE LISTED HERE AND REFERENCED ON THE DRAWING.

4. NOTHING SIGNIFICANT OR UNUSUAL.

The contract will refer to statutory undertaker layout drawings and identify locations of existing underground services prior to carrying out excavation works.

MAINTENANCE / OPERATION / DECOMMISSIONING / DEMOLITION PHASES

1. PLEASE REFER TO THE HAZARD RISK REGISTER AND THE WORKS INFORMATION FOR DETAILS OF THE RISKS.

2. IN PREPARATION OF CONSTRUCTION METHOD STATEMENTS, CONSIDERATION SHOULD BE GIVEN TO THE CLOSE PROXIMITY OF ANY STRUCTURES THAT MAY BE AFFECTED BY CONSTRUCTION.

3. RESIDUAL HAZARDS ARE LISTED HERE AND REFERENCED ON THE DRAWING.

i. NOTHING SIGNIFICANT OR UNUSUAL.

4. THE CONTRACTOR SHALL REFER TO STATUTORY Undertakers Layout Drawings AND IDENTIFY LOCATIONS OF EXISTING UNDERGROUND SERVICES PRIOR TO CARRYING OUT EXCAVATION WORKS.

SIGNIFICANT OR EXCEPTIONAL RISKS ARE IDENTIFIED BELOW

HEALTH AND SAFETY INFORMATION

Trees

Tree Groups

Hedge

Woodland

Trees, Groups and Hedges to be removed

Category and Root Protection Area

Category A

Category B

Category C

Category U

0 25 50 75 100 Metres

Metres

03/08/2015

As shown

26/08/15

JM

JM

MT

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A487 CAERNARFON AND BONTNEWYDD BYPASS TREE CONSTRAINTS PLAN

FIT FOR INFORMATION

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1. HEALTH AND SAFETY INFORMATION

CONSTRUCTION PHASE
1. PLEASE REFER TO THE HAZARD RISK REGISTER AND THE WORKS INFORMATION FOR DETAILS OF THE RISKS CONSIDERED DURING THE DESIGN PHASE.
2. RESIDUAL HAZARDS ARE LISTED HERE AND REFERENCED ON THE DRAWING.
3. NOTHING SIGNIFICANT OR UNUSUAL.

MAINTENANCE / OPERATIONAL Phase
1. PLEASE REFER TO THE HAZARD RISK REGISTER AND THE WORKS INFORMATION FOR DETAILS OF THE RISKS CONSIDERED DURING THE DESIGN PHASE.
2. IN PREPARATION OF CONSTRUCTION METHOD STATEMENTS CONSIDERATION SHOULD BE GIVEN TO THE CLOSE PROXIMITY OF ANY STRUCTURES THAT MAY BE AFFECTED BY CONSTRUCTION.
3. RESIDUAL HAZARDS ARE LISTED HERE AND REFERENCED ON THE DRAWING.
4. NOTHING SIGNIFICANT OR UNUSUAL.

4. THE CONTRACTOR SHALL REFER TO STATUTORY UNDERGROUND UTILITIES LAYOUT DRAWINGS AND IDENTIFY LOCATIONS OF EXISTING UNDERGROUND SERVICES PRIOR TO CARRYING OUT EXCAVATION WORKS.

CONSTRUCTION PHASE
1. PLEASE REFER TO THE HAZARD RISK REGISTER AND THE WORKS INFORMATION FOR DETAILS OF THE RISKS CONSIDERED DURING THE DESIGN PHASE.
2. RESIDUAL HAZARDS ARE LISTED HERE AND REFERENCED ON THE DRAWING.
3. NOTHING SIGNIFICANT OR UNUSUAL.

MAINTENANCE / OPERATIONAL Phase
1. PLEASE REFER TO THE HAZARD RISK REGISTER AND THE WORKS INFORMATION FOR DETAILS OF THE RISKS CONSIDERED DURING THE DESIGN PHASE.
2. IN PREPARATION OF CONSTRUCTION METHOD STATEMENTS CONSIDERATION SHOULD BE GIVEN TO THE CLOSE PROXIMITY OF ANY STRUCTURES THAT MAY BE AFFECTED BY CONSTRUCTION.
3. RESIDUAL HAZARDS ARE LISTED HERE AND REFERENCED ON THE DRAWING.
4. NOTHING SIGNIFICANT OR UNUSUAL.

SIGNIFICANT OR EXCEPTIONAL RISKS ARE IDENTIFIED BELOW

HEALTH AND SAFETY INFORMATION

# * !

19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

20

03/08/2015

As shown

26/08/15

JM

JM

MT

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1. HEALTH AND SAFETY INFORMATION

MAINTENANCE / OPERATION / DECOMMISSIONING / DEMOLITION PHASES
1. PLEASE REFER TO THE HAZARD RISK REGISTER AND THE WORKS INFORMATION FOR DETAILS OF THE RISKS ASSOCIATED WITH THE MAINTENANCE, OPERATION, DECOMMISSIONING AND DEMOLITION PHASES.
2. RESIDUAL HAZARDS ARE LISTED HERE AND REFERENCED ON THE DRAWING.
3. NOTHING SIGNIFICANT OR UNUSUAL.

CONSTRUCTION PHASE
1. PLEASE REFER TO THE HAZARD RISK REGISTER AND THE WORKS INFORMATION FOR DETAILS OF THE RISKS ASSOCIATED WITH THIS WORK.
2. IN PREPARATION OF CONSTRUCTION METHOD STATEMENTS CONSIDERATION SHOULD BE GIVEN TO THE CLOSE PROXIMITY OF ANY STRUCTURES THAT MAY BE AFFECTED BY CONSTRUCTION.
3. RESIDUAL HAZARDS ARE LISTED HERE AND REFERENCED ON THE DRAWING.
4. NOTHING SIGNIFICANT OR UNUSUAL.

3. THE CONTRACTOR SHALL REFER TO STATUTORY UNDERTAKERS LAYOUT DRAWINGS AND IDENTIFY LOCATIONS OF EXISTING UNDERGROUND SERVICES PRIOR TO CARRYING OUT EXCAVATION WORK.

SIGNIFICANT OR EXCEPTIONAL RISKS ARE IDENTIFIED BELOW

HEALTH AND SAFETY INFORMATION

A487 CAERNARFON AND BONTNEWYDD BYPASS TREE CONSTRAINTS PLAN
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1. HEALTH AND SAFETY INFORMATION

MAINTENANCE / OPERATION / DECOMMISSIONING / DEMOLITION PHASES

1. PLEASE REFER TO THE HAZARD RISK REGISTER AND THE WORKS INFORMATION FOR DETAILS OF THE RISKS.
2. PLEASE NOTE THE EXISTING UNDERGROUND SERVICES LOCATED IN THE DRAWING. NO WORK SHOULD BE CARRIED OUT UNLESS UNDERGROUND SERVICES PRIOR TO CARRYING OUT EXCAVATION WORKS.
3. RESIDUAL HAZARDS ARE LISTED HERE AND REFERENCED ON THE DRAWING.

1. NOTHING SIGNIFICANT OR UNUSUAL.

MMAIN CATEGORIES:

- Category A
- Category B
- Category C
- Category U

PROPOSED SCHEME

- Trees
- Tree Groups
- Hedge
- Woodland
- Trees, Groups and Hedges to be removed

CATEGORY AND ROOT PROTECTION AREA

- Category A
- Category B
- Category C
- Category U

3. RESIDUAL HAZARDS ARE LISTED HERE AND REFERENCED ON THE AS-BUILT DRAWING.

1. NOTHING SIGNIFICANT OR UNUSUAL.

4. THE CONTRACTOR SHALL REFER TO STATUTORY UNDERTAKERS LAYOUT DRAWINGS AND IDENTIFY LOCATIONS OF EXISTING UNDERGROUND SERVICES PRIOR TO CARRYING OUT EXCAVATION WORKS.

SIGNIFICANT OR EXCEPTIONAL RISKS ARE IDENTIFIED BELOW

HEALTH AND SAFETY INFORMATION

- PROPOSED SCHEME
- TREES
- TREE GROUPS
- HEDGE
- WOODLAND
- TREES, GROUPS AND HEDGES TO BE REMOVED

CATEGORY AND ROOT PROTECTION AREA

- CATEGORY A
- CATEGORY B
- CATEGORY C
- CATEGORY U

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A487 CAERNARFON AND BONTNEWYDD BYPASS TREE CONSTRAINTS PLAN

1. HEALTH AND SAFETY INFORMATION

1.1. Please refer to the Hazard Risk Register and the works information for details of the risks associated with the works.

1.2. Consideration should be given to the close proximity of any structures that may be affected by the work.

1.3. Residual hazards are listed here and referenced on the drawing.

- Nothing significant or unusual.

The contractor shall refer to statutory undertakers layout drawings and identify the locations of existing underground services prior to commencing the excavation works.

2. CONSTRUCTION PHASE

2.1. Please refer to the Hazard Risk Register and the works information for details of the risks associated with this work.

2.2. In preparation of construction method statements consideration should be given to the close proximity of any structures that may be affected by construction.

2.3. Residual hazards are listed here and referenced on the drawing.

- Nothing significant or unusual.

4. The contractor shall refer to statutory undertakers layout drawings and identify the locations of existing underground services prior to commencing the excavation works.

3. MAINTENANCE / OPERATION / DECOMMISSIONING / DEMOLITION PHASES

3.1. Please refer to the Hazard Risk Register and the works information for details of the risks associated with the maintenance, operation, decommissioning and demolition phases.

3.2. Consideration should be given to the close proximity of any structures that may be affected by maintenance, decommissioning and demolition phases.

3.3. Residual hazards are listed here and referenced on the drawing.

- Nothing significant or unusual.

4. The contractor shall refer to statutory undertakers layout drawings and identify the locations of existing underground services prior to commencing the excavation works.

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1. HEALTH AND SAFETY INFORMATION

1.1 Please refer to the HAZARD RISK REGISTER and the WORKS INFORMATION for details of the risks associated with the construction, operation, maintenance, and decommissioning phases. Consideration should be given to the close proximity of any structures that may be affected by the proposed scheme.

Residual hazards are listed here and referenced on the drawing.

i. Nothing significant or unusual.

1.2 The contractor shall refer to statutory undertakers' layout drawings and identify locations of existing underground services prior to commencing excavation works.

1.3 Significant or exceptional risks are identified below.

MAINTENANCE / OPERATION / DECOMMISSIONING / DEMOLITION PHASES

1. Please refer to the HAZARD RISK REGISTER and the WORKS INFORMATION for details of the risks associated with this work.

2. In preparation of construction method statements consideration should be given to the close proximity of any structures that may be affected by the proposed scheme.

3. Residual hazards are listed here and referenced on the drawing.

i. Nothing significant or unusual.

4. The contractor shall refer to statutory undertakers' layout drawings and identify locations of existing underground services prior to commencing excavation works.
1. HEALTH AND SAFETY INFORMATION

MANTENANCE / OPERATION / DECUMMISSIONING / DEMOLITION PHASES

1. PLEASE REFER TO THE HAZARD RISK REGISTER AND THE
WORKS INFORMATION FOR DETAILS OF THE RISKS
ASSOCIATED WITH THE MAINTENANCE, OPERATION,
DECOMMISSIONING AND DEMOLITION PHASES.
2. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH THE
HEALTH AND SAFETY FILE(S) PRODUCED AND HANDED OVER
ON COMPLETION OF THIS PROJECT.
3. RESIDUAL HAZARDS ARE LISTED HERE AND REFERENCED ON
THE DRAWING.
4. NOTHING SIGNIFICANT OR UNUSUAL.

CONSTRUCTION PHASE

1. PLEASE REFER TO THE HAZARD RISK REGISTER AND THE
WORKS INFORMATION FOR DETAILS OF THE RISKS
ASSOCIATED WITH THIS WORK.
2. CONSIDERATION SHOULD BE GIVEN TO THE CLOSE PROXIMITY
OF ANY STRUCTURES THAT MAY BE AFFECTED BY
CONSTRUCTION.
3. RESIDUAL HAZARDS ARE LISTED HERE AND REFERENCED ON
THE DRAWING.
4. NOTHING SIGNIFICANT OR UNUSUAL.

4. THE CONTRACTOR SHALL REFER TO STATUTORY
UNDERTAKERS LAYOUT DRAWINGS AND IDENTIFY LOCATIONS
OF EXISTING UNDERGROUND SERVICES PRIOR TO CARRYING
OUT EXCAVATION WORKS.

SIGNIFICANT OR EXCEPTIONAL RISKS ARE IDENTIFIED BELOW

HEALTH AND SAFETY INFORMATION

# !
1. HEALTH AND SAFETY INFORMATION

CONSTRUCTION / DEMOLITION

1. PLEASE REFER TO THE HAZARD RISK REGISTER AND THE WORKS INFORMATION FOR DETAILS OF THE RISKS
2. CONSIDERATION SHOULD BE GIVEN TO THE CLOSE PROXIMITY OF ANY STRUCTURES THAT MAY BE AFFECTED BY WORKS
3. RESIDUAL HAZARDS ARE LISTED HERE AND REFERENCED ON THE DRAWING.

MAINTENANCE / OPERATION / DECOMMISSIONING / DEMOLITION

1. PLEASE REFER TO THE HAZARD RISK REGISTER AND THE WORKS INFORMATION FOR DETAILS OF THE RISKS
2. CONSIDERATION SHOULD BE GIVEN TO THE CLOSE PROXIMITY OF ANY STRUCTURES THAT MAY BE AFFECTED BY WORKS
3. RESIDUAL HAZARDS ARE LISTED HERE AND REFERENCED ON THE DRAWING.

4. THE CONTRACTOR SHALL REFER TO STATUTORY CONTRACT CONDITIONS OF TRADING OR LOCAL GOVERNMENT REGULATIONS.

SIGNIFICANT OR EXCEPTIONAL RISKS ARE IDENTIFIED BELOW

HEALTH AND SAFETY INFORMATION

Trees, Groups and Hedges

Category and Root Protection Area

Category A
Category B
Category C
Category U
1. HEALTH AND SAFETY INFORMATION

1. PLEASE REFER TO THE HAZARD RISK REGISTER AND THE WORKS INFORMATION FOR DETAILS OF THE RISKS ASSOCIATED WITH THE MAINTENANCE, OPERATION, DECOMMISSIONING AND DEMOLITION PHASES.

2. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH THE HEALTH AND SAFETY FILE(S) PRODUCED AND HANDED OVER ON COMPLETION OF THIS PROJECT.

3. RESIDUAL HAZARDS ARE LISTED HERE AND REFERENCED ON THE AS-BUILT DRAWING.

i. NOTHING SIGNIFICANT OR UNUSUAL.

2. CONSTRUCTION PHASE

1. PLEASE REFER TO THE HAZARD RISK REGISTER AND THE WORKS INFORMATION FOR DETAILS OF THE RISKS ASSOCIATED WITH THIS WORK.

2. IN PREPARATION OF CONSTRUCTION METHOD STATEMENTS CONSIDERATION SHOULD BE GIVEN TO THE CLOSE PROXIMITY OF ANY STRUCTURES THAT MAY BE AFFECTED BY CONSTRUCTION.

3. RESIDUAL HAZARDS ARE LISTED HERE AND REFERENCED ON THE DRAWING.

i. NOTHING SIGNIFICANT OR UNUSUAL.

4. THE CONTRACTOR SHALL REFER TO STATUTORY UNDERTAKERS LAYOUT DRAWINGS AND IDENTIFY LOCATIONS OF EXISTING UNDERGROUND SERVICES PRIOR TO CARRYING OUT EXCAVATION WORKS.

MATERIALS / OPERATION / DECOMMISSIONING / DEMOLITION PHASES

1. PLEASE REFER TO THE HAZARD RISK REGISTER AND THE WORKS INFORMATION FOR DETAILS OF THE RISKS ASSOCIATED WITH THE MAINTENANCE, OPERATION, DECOMMISSIONING AND DEMOLITION PHASES.

2. THE DRAWING BATTLES IN CONJUNCTION WITH THE HEALTH AND SAFETY FILE PRODUCED AND HANDED OVER ON COMPLETION OF THIS PROJECT.

3. RESIDUAL HAZARDS ARE LISTED HERE AND REFERENCED ON THE AS-BUILT DRAWING.

i. NOTHING SIGNIFICANT OR UNUSUAL.
1. **HEALTH AND SAFETY INFORMATION**

**MAINTENANCE / OPERATION / DECOMMISSIONING / DEMOLITION Phases**

1. Please refer to the hazard risk register and the works information for details of the risks associated with the maintenance, operation, decommissioning and demolition phases.

2. This drawing should be read in conjunction with the health and safety file(s) produced and handed over on completion of this project.

3. Residual hazards are listed here and referenced on the drawing.

   a. Nothing significant or unusual.

**CONSTRUCTION Phases**

1. Please refer to the hazard risk register and the works information for details of the risks associated with this work.

2. In preparation of construction method statements consideration should be given to the close proximity of any structures that may be affected by excavation works.

3. Residual hazards are listed here and referenced on the drawing.

   a. Nothing significant or unusual.

4. The contractor shall refer to statutory undertakers layout drawings and identify locations of existing underground services prior to carrying out excavation works.

**SIGNIFICANT OR EXCEPTIONAL RISKS**

- Category A
- Category B
- Category C
- Category U

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A487 CAERNARFON AND BONTNEWYDD BYPASS
TREE CONSTRAINTS PLAN
PAGE 13 OF 20

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Balfour Beatty
JONES BROS
Civil Engineering

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REV | DATE | DESCRIPTION
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1. HEALTH AND SAFETY INFORMATION

CONSTRUCTION PHASE:
1. Please refer to the hazard risk register and the works information for details of the risks.
2. Consideration of tree protection during construction is essential. Consideration should be given to the close proximity of any structures that may be affected by tree root movement.
3. Residual hazards are listed here and referenced on the drawing.

MAINTENANCE / OPERATION / DECOMMISSIONING / DEMOLITION PHASES:
1. Please refer to the hazard risk register and the works information for details of the risks.
2. Consideration should be given to the close proximity of any structures that may be affected by construction.
3. Residual hazards are listed here and referenced on the drawing.

i. Nothing significant or unusual.

4. The contractor shall refer to statutory undertakers’ layout drawings and identify locations of existing underground services prior to carrying out excavation works.

SIGNIFICANT OR EXCEPTIONAL RISKS ARE IDENTIFIED BELOW.

HEALTH AND SAFETY INFORMATION

# = Health
* = Safety
! = Fire
1. HEALTH AND SAFETY INFORMATION

MAINTENANCE / OPERATION / DECOMMISSIONING / DEMOLITION PHASES

1. PLEASE REFER TO THE HAZARD RISK REGISTER AND THE WORKS INFORMATION FOR DETAILS OF THE RISKS.
2. CONSIDERATION SHOULD BE GIVEN TO THE CLOSE PROXIMITY OF ANY STRUCTURES THAT MAY BE AFFECTED BY CONSTRUCTION.
3. RESIDUAL HAZARDS ARE LISTED HERE AND REFERENCED ON THE DRAWING.

THE CONTRACTOR SHALL REFER TO EXISTING UNDERGROUND LAYOUT DRAWINGS AND IDENTIFY LOCATIONS OF EXISTING UNDERGROUND SERVICES PRIOR TO CARRYING OUT EXCAVATION WORKS.

RESIDUAL HAZARDS ARE LISTED HERE AND REFERENCED ON THE AS-BUILT DRAWING.

4. THE CONTRACTOR SHALL REFER TO STATUTORY UNDERGROUND LAYOUT DRAWINGS AND IDENTIFY LOCATIONS OF EXISTING UNDERGROUND SERVICES PRIOR TO CARRYING OUT EXCAVATION WORKS.

PERSONAL AND OTHER SAFETY INFORMATION

1. PLEASE REFER TO THE HAZARD RISK REGISTER AND THE WORKS INFORMATION FOR DETAILS OF THE RISKS.
2. CONSIDERATION SHOULD BE GIVEN TO THE CLOSE PROXIMITY OF ANY STRUCTURES THAT MAY BE AFFECTED BY CONSTRUCTION.
3. RESIDUAL HAZARDS ARE LISTED HERE AND REFERENCED ON THE DRAWING.

THE CONTRACTOR SHALL REFER TO EXISTING UNDERGROUND LAYOUT DRAWINGS AND IDENTIFY LOCATIONS OF EXISTING UNDERGROUND SERVICES PRIOR TO CARRYING OUT EXCAVATION WORKS.

RESIDUAL HAZARDS ARE LISTED HERE AND REFERENCED ON THE AS-BUILT DRAWING.
1. HEALTH AND SAFETY INFORMATION

1. PLEASE REFER TO THE HAZARD RISK REGISTER AND THE WORKS INFORMATION FOR DETAILS OF THE RISKS ASSOCIATED WITH THE MAINTENANCE, OPERATION, DECOMMISSIONING AND DEMOLITION PHASES.

2. IN PREPARATION OF CONSTRUCTION METHOD STATEMENTS CONSIDERATION SHOULD BE GIVEN TO THE CLOSE PROXIMITY OF ANY STRUCTURES THAT MAY BE AFFECTED BY CONSTRUCTION.

3. RESIDUAL HAZARDS ARE LISTED HERE AND REFERENCED ON THE DRAWING.

4. THE CONTRACTOR SHALL REFER TO EXISTING UNDERGROUND SERVICES PRIOR TO CARRYING OUT EXCAVATION WORKS.

MAINTENANCE / OPERATION / DECOMMISSIONING / DEMOLITION PHASES

1. PLEASE REFER TO THE HAZARD RISK REGISTER AND THE MAINTENANCE AND OPERATIONAL INFORMATION FOR DETAILS OF THE RISKS ASSOCIATED WITH THIS WORK.

2. RESIDUAL HAZARDS ARE LISTED HERE AND REFERENCED ON THE DRAWING.

3. NOTHING SIGNIFICANT OR UNUSUAL.

4. THE CONTRACTOR SHALL REFER TO STATUTORY UNDERTAKERS LAYOUT DRAWINGS AND IDENTIFY LOCATIONS OF EXISTING UNDERGROUND SERVICES PRIOR TO CARRYING OUT EXCAVATION WORKS.

SIGNIFICANT OR EXCEPTIONAL RISKS ARE IDENTIFIED BELOW

HEALTH AND SAFETY INFORMATION

Category and Root Protection Area

- Category A
- Category B
- Category C
- Category U

Trees, Groups and Hedges to be removed

- Trees
- Tree Groups
- Hedge
- Woodland

Proposed scheme

- Trees
- Tree Groups
- Hedge
- Woodland

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1. HEALTH AND SAFETY INFORMATION

Construction / Demolition

1. Please refer to the Hazard Risk Register and the Works Information for details of the risks associated with the construction, demolition and disposal phases. Consideration should be given to the close proximity of any structures that may be affected by these activities.

2. Residual hazards are listed here and referenced on the drawings.

3. Nothing significant or unusual.

Maintenance / Operation / Decommissioning / Demolition Phases

1. Please refer to the Hazard Risk Register and the Works Information for details of the risks associated with the maintenance, operation, decommissioning and demolition phases.

2. Residual hazards are listed here and referenced on the drawings.

3. Nothing significant or unusual.

4. The contractor shall refer to statutory undertakers' layout drawings and identify locations of existing underground services prior to carrying out excavation works.

Significant or Exceptional Risks are identified below

Maintenance / Operation

1. Please refer to the Hazard Risk Register and the Works Information for details of the risks associated with the maintenance, operation, and disposal phases.

2. Consideration should be given to the close proximity of any structures that may be affected by these activities.

3. Residual hazards are listed here and referenced on the drawings.

4. Nothing significant or unusual.

4. The contractor shall refer to statutory undertakers' layout drawings and identify locations of existing underground services prior to carrying out excavation works.

2. This drawing should be read in conjunction with the Health and Safety File(s) produced and handed over on completion of this project.

3. Residual hazards are listed here and referenced on the drawings.

4. Nothing significant or unusual.
1. HEALTH AND SAFETY INFORMATION

CONSTRUCTION PHASE

1. PLEASE REFER TO THE HAZARD RISK REGISTER AND THE WORKS INFORMATION FOR DETAILS OF THE RISKS ASSOCIATED WITH THE MAINTENANCE, OPERATION, DECOMMISSIONING AND DEMOLITION PHASES.

2. IN PREPARATION OF CONSTRUCTION METHOD STATEMENTS CONSIDERATION SHOULD BE GIVEN TO THE CLOSE PROXIMITY OF ANY STRUCTURES THAT MAY BE AFFECTED BY CONSTRUCTION.

3. RESIDUAL HAZARDS ARE LISTED HERE AND REFERENCED ON THE DRAWING.
   a. NOTHING SIGNIFICANT OR UNUSUAL.

MAINTENANCE / OPERATION / DECOMMISSIONING / DEMOLITION PHASES

1. PLEASE REFER TO THE HAZARD RISK REGISTER AND THE WORKS INFORMATION FOR DETAILS OF THE RISKS ASSOCIATED WITH THE MAINTENANCE, OPERATION, DECOMMISSIONING AND DEMOLITION PHASES.

2. RESIDUAL HAZARDS ARE LISTED HERE AND REFERENCED ON THE DRAWING.
   a. NOTHING SIGNIFICANT OR UNUSUAL.

4. THE CONTRACTOR SHALL REFER TO STATUTORY Undertakers Layout Drawings and Identify Locations of Existing Underground Services Prior to Carrying Out Excavation Works.

SIGNIFICANT OR EXCEPTIONAL RISKS ARE IDENTIFIED BELOW

HEALTH AND SAFETY INFORMATION

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As shown

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1. HEALTH AND SAFETY INFORMATION

MANTENANCE / OPERATION / DECOMMISSIONING / DEMOLITION PHASES

1. Please refer to the hazard risk register and the works information for details of the risks associated with the maintenance, operation, decommissioning and demolition phases.
2. Consideration should be given to the close proximity of any structures that may be affected by construction.
3. Residual hazards are listed here and referenced on the drawing.

4. The contractor shall refer to statutory undertakers layout drawings and identify any locations of existing underground services prior to commencing any excavation works.

MAINTENANCE / OPERATION / DECOMMISSIONING / DEMOLITION PHASES

1. Please refer to the hazard risk register and the works information for details of the risks associated with this work.
2. Consideration should be given to the close proximity of any structures that may be affected by construction.
3. Residual hazards are listed here and referenced on the drawing.

4. The contractor shall refer to statutory undertakers layout drawings and identify any locations of existing underground services prior to commencing any excavation works.

PROPOSED SCHEME

1. Please refer to the hazard risk register and the works information for details of the risks associated with this work.
2. Consideration should be given to the close proximity of any structures that may be affected by construction.
3. Residual hazards are listed here and referenced on the drawing.

4. The contractor shall refer to statutory undertakers layout drawings and identify any locations of existing underground services prior to commencing any excavation works.

RESIDUAL HAZARDS

1. Nothing significant or unusual.
2. The contractor shall refer to statutory undertakers layout drawings and identify any locations of existing underground services prior to commencing any excavation works.

3. Nothing significant or unusual.

4. The contractor shall refer to statutory undertakers layout drawings and identify any locations of existing underground services prior to commencing any excavation works.

5. The contractor shall refer to statutory undertakers layout drawings and identify any locations of existing underground services prior to commencing any excavation works.

6. The contractor shall refer to statutory undertakers layout drawings and identify any locations of existing underground services prior to commencing any excavation works.

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10. The contractor shall refer to statutory undertakers layout drawings and identify any locations of existing underground services prior to commencing any excavation works.

11. The contractor shall refer to statutory undertakers layout drawings and identify any locations of existing underground services prior to commencing any excavation works.

12. The contractor shall refer to statutory undertakers layout drawings and identify any locations of existing underground services prior to commencing any excavation works.

13. The contractor shall refer to statutory undertakers layout drawings and identify any locations of existing underground services prior to commencing any excavation works.

14. The contractor shall refer to statutory undertakers layout drawings and identify any locations of existing underground services prior to commencing any excavation works.

15. The contractor shall refer to statutory undertakers layout drawings and identify any locations of existing underground services prior to commencing any excavation works.

16. The contractor shall refer to statutory undertakers layout drawings and identify any locations of existing underground services prior to commencing any excavation works.

17. The contractor shall refer to statutory undertakers layout drawings and identify any locations of existing underground services prior to commencing any excavation works.

18. The contractor shall refer to statutory undertakers layout drawings and identify any locations of existing underground services prior to commencing any excavation works.

19. The contractor shall refer to statutory undertakers layout drawings and identify any locations of existing underground services prior to commencing any excavation works.

20. The contractor shall refer to statutory undertakers layout drawings and identify any locations of existing underground services prior to commencing any excavation works.
1. HEALTH AND SAFETY INFORMATION

MAINTENANCE / OPERATION / DECOMMISSIONING / DEMOLITION PHASES

1. Please refer to the Hazard Risk Register and the works information for details of the risks associated with the maintenance, operation, decommissioning, and demolition phases.
2. In preparation of construction method statements consideration should be given to the close proximity of any structures that may be affected by construction.
3. Residual hazards are listed here and referenced on the drawing.

i. Nothing significant or unusual.

CONSTRUCTION PHASE

1. Please refer to the hazard risk register and the works information for details of the risks associated with this work.
2. In preparation of construction method statements consideration should be given to the close proximity of any structures that may be affected by construction.
3. Residual hazards are listed here and referenced on the as-built drawing.

i. Nothing significant or unusual.

4. The contractor shall refer to statutory undertakers layout drawings and identify locations of existing underground services prior to carrying out excavation works.

SIGNIFICANT OR EXCEPTIONAL RISKS ARE IDENTIFIED BELOW

HEALTH AND SAFETY INFORMATION

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