



MORGAN AND MORECAMBE OFFSHORE WIND FARMS: TRANSMISSION ASSETS

Environmental Statement

Volume 3, Annex 10.5: Tree survey and arboricultural impact assessment – Part 2 of 2



September 2024
Rev: ES Issue

MOR001-FLO-CON-ENV-ASS-0004
MRCNS-J3303-RPS-10148

PINS Reference: EN020028
APFP Regulations: 5(2)(a)
Document reference: F3.10.5

Document status					
Version	Purpose of document	Approved by	Date	Approved by	Date
ES	For issue	AS	September 2024	IM	September 2024

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Prepared by:

RPS

Prepared for:

**Morgan Offshore Wind Limited,
Morecambe Offshore Windfarm Ltd**

Appendix C: Tree and hedgerow protection plans

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LEGEND

- Onshore Development Area (AO, PPA, SP, PPA, PPA, PPA)
- Tree with numbered reference. Canopy spread and coloured BS5837:2012 tree quality category as shown below.
 - = Tree details estimate (inaccessible tree)
 - = Tree in off site location
- Vegetation group with numbered reference. Canopy extent and coloured BS5837:2012 tree quality category as shown below.
- Hedge with numbered reference. Canopy extent and coloured BS5837:2012 tree quality category as shown below.
- Woodland with numbered reference. Canopy extent and coloured BS5837:2012 tree quality category as shown below.
- BS 5837:2012 Tree Quality Categories - Table 1
 - Category A - High quality
 - Category B - Moderate quality
 - Category C - Low quality
 - Category U - Unsuitable for retention
- Tree/Hedge identified with satellite imagery where access permission for surveys has not been granted. No survey data has been collected.
- Precautionary Roof Protection Area (RPA) Added to un-surveyed trees, preliminary 15m RPA added as preventative buffer
- Scrub group with numbered reference. Extents as shown.
- Hedge identified as 'important' during ecology surveys (refer to ecology report)
- Root protection area (RPA) Calculated in accordance with Section 4.6 - BS5837:2012
- Tree protected by Tree Preservation Order: Fylde Borough Council and South Ribbles Borough Councils. GIS Datasets provided by respective Councils. Location data only.
- Veteran tree buffer (15 x stem Ø) (as per starting advice produced by Natural Resource Wales)
- Arboricultural BRAG Assessment**
Based on quantitative and professional assessment. The ranking is defined as:
 - Black: Significant arboreal asset within development.
 - Red: High potential to constrain development.
 - Amber: Moderate potential to constrain development.
 - Green: Low potential to constrain development.
- Cable Crossing Technique**
 - Trenched
 - Trenchless
- Trenchless technique employed. No arboricultural impact / harm. No tree or woodland loss. Area of trenchless cable route as defined by client.
- Traditional trench technique to be employed. Preferred trenching location indicated, to avoid high or moderate arboricultural asset.
- Construction access track/ permanent substation access.
- Temporary construction compound.
- Permanent substation area.
- Temporary substation area.
- Temporary protective fencing in accordance with Section 6.2 - BS5837:2012. See example, also shown within supporting report.
- Temporary visual screening barrier. See example detail, also shown within supporting report.
- Tree with numbered reference requiring removal to facilitate development (assumed loss).

NOTES

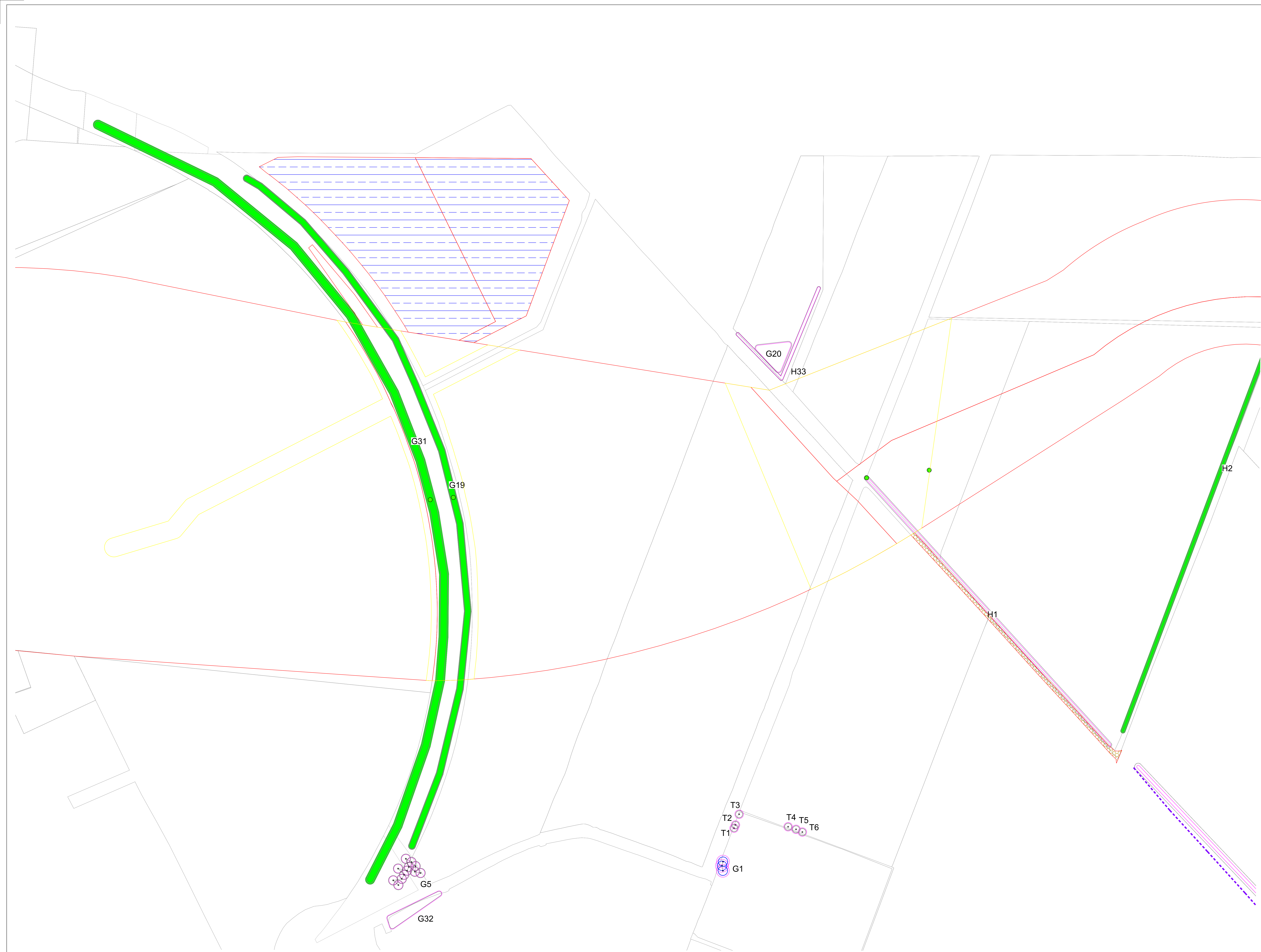
- Refer to RPS Tree Survey & Arboricultural Impact Assessment Report for further details.
- Survey based on a visual inspection from the ground and is not intended as a full arboricultural inspection.
- Plans produced in accordance with recommendations set out in BS 5837:2012 - 'Trees in Relation to design, demolition and construction'
- Due to the legal protection afforded to breeding birds, vegetation removal should not take place during the bird nesting period, generally, although not restricted to, March - August inclusive.
- Survey based on aerial photography, therefore tree locations should be deemed as approximate, and not digitally accurate.
- Potential vehicular emergency access routes to be maintained at all times.
- All protective fencing to be completed and maintained by LPA. LPA post to commencement of any site works.
- All works to conform with requirements of:
 BS 5837:2012 - Tree Vistas
 BS 5837:2012 - Tree in relation to design, demolition and construction
 BS 5837:2012 - Cableway for Utility Services in Proximity to Trees



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 Partners in UK offshore wind

Drawing Number:
JSL4847_731

VER	DATE	DETAILS	BY	CHECK
01	June/24	Comment	JB	DC
02	Aug/24	Issue	JB	DC

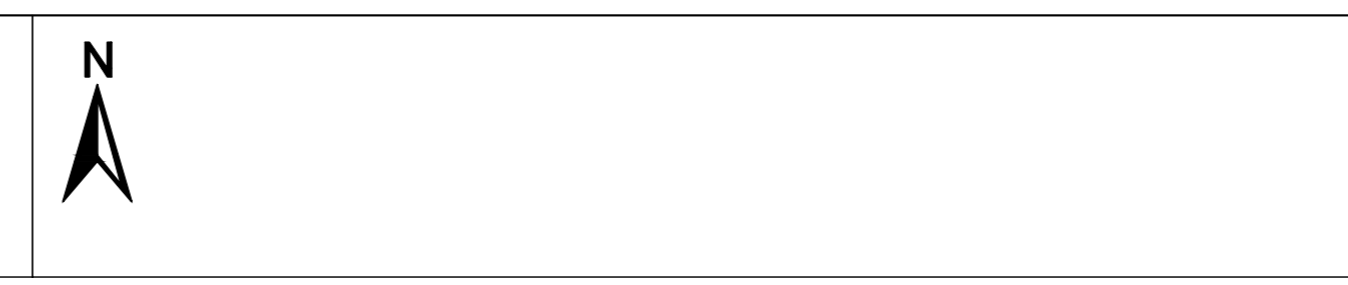


Project Name:
 Morgan and Morecambe Offshore Wind Farms:
 Transmission Assets

Drawing Title:
 Tree and Hedgerow Protection Plan

Scale
 Scale@A0: 1:1000

Geodetic Information:
 Datum: ETRS 1989
 Projection: British National Grid



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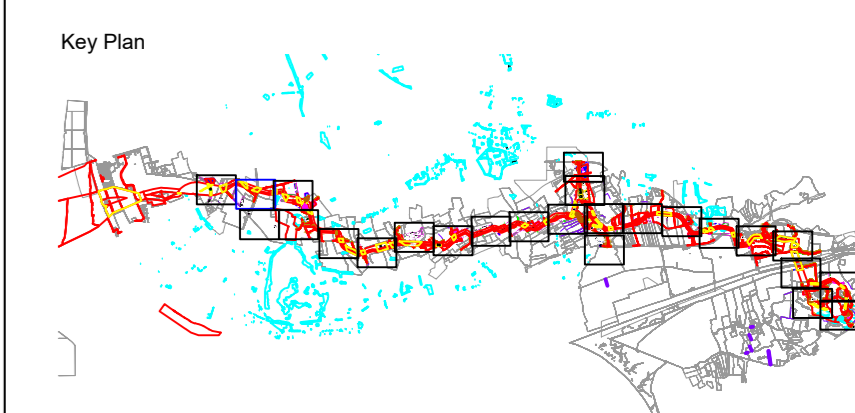
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LEGEND

- Onshore Development Area (AO, PU, RP, JMS, DCS, AenT)
- Tree with numbered reference. Canopy spread and coloured BS5837:2012 tree quality category as shown below. # = Tree details estimate (accessible tree) = Tree in off site location
- Vegetation group with numbered reference. Canopy extents and coloured BS5837:2012 tree quality category as shown below.
- Hedge with numbered reference. Canopy extents and coloured BS5837:2012 tree quality category as shown below.
- Woodland with numbered reference. Canopy extents and coloured BS5837:2012 tree quality category as shown below.
- BS 5837:2012 Tree Quality Categories - Table 1
- Category A - High quality
- Category B - Moderate quality
- Category C - Low quality
- Category U - Unsuitable for retention
- Tree/Hedge identified with satellite imagery where access permission for surveys has not been granted. No survey data has been collected.
- Precipitation Root protection area (RPA) added to un-surveyed trees; preliminary 15m RPA added as preventative buffer
- Scrub group with numbered reference. Extents as shown.
- Hedge identified as 'important' during ecology surveys (refer to ecology report)
- Root protection area (RPA) Calculated in accordance with Section 4.6 - BS5837:2012
- Tree protected by Tree Preservation Order - Fylde Borough Council and South Ribbles Borough Councils. GIS Datasets provided by respective Councils. Location date only.
- Veteran tree buffer (15 x stem Ø) (as per standing advice produced by Natural Resource Wales)
- Arboricultural BRAG Assessment**
Based on quantitative and professional assessment. The ranking is defined as:
 Black: Significant arboreal asset within development.
 Red: High potential to constrain development.
 Amber: Moderate potential to constrain development.
 Green: Low potential to constrain development
- Cable Crossing Technique**
 Trenched
 Trenchless
- Trenchless technique employed. No arboricultural impact / harm. No tree or woodland loss. Area of trenchless cable route as defined by client. Traditional trenching technique to be employed. Preferred trenching location indicated, to avoid high or moderate arboricultural asset.
- Construction access track/ permanent substitution access.
- Temporary construction compound.
- Permanent substation area.
- Temporary substation area.
- Temporary protective fencing in accordance with Section 6.2 - BS5837:2012. See example, also shown within supporting report.
- Temporary visual warning barrier. See example detail, also shown within supporting report.
- Tree with numbered reference requiring removal to facilitate development (assumed loss).

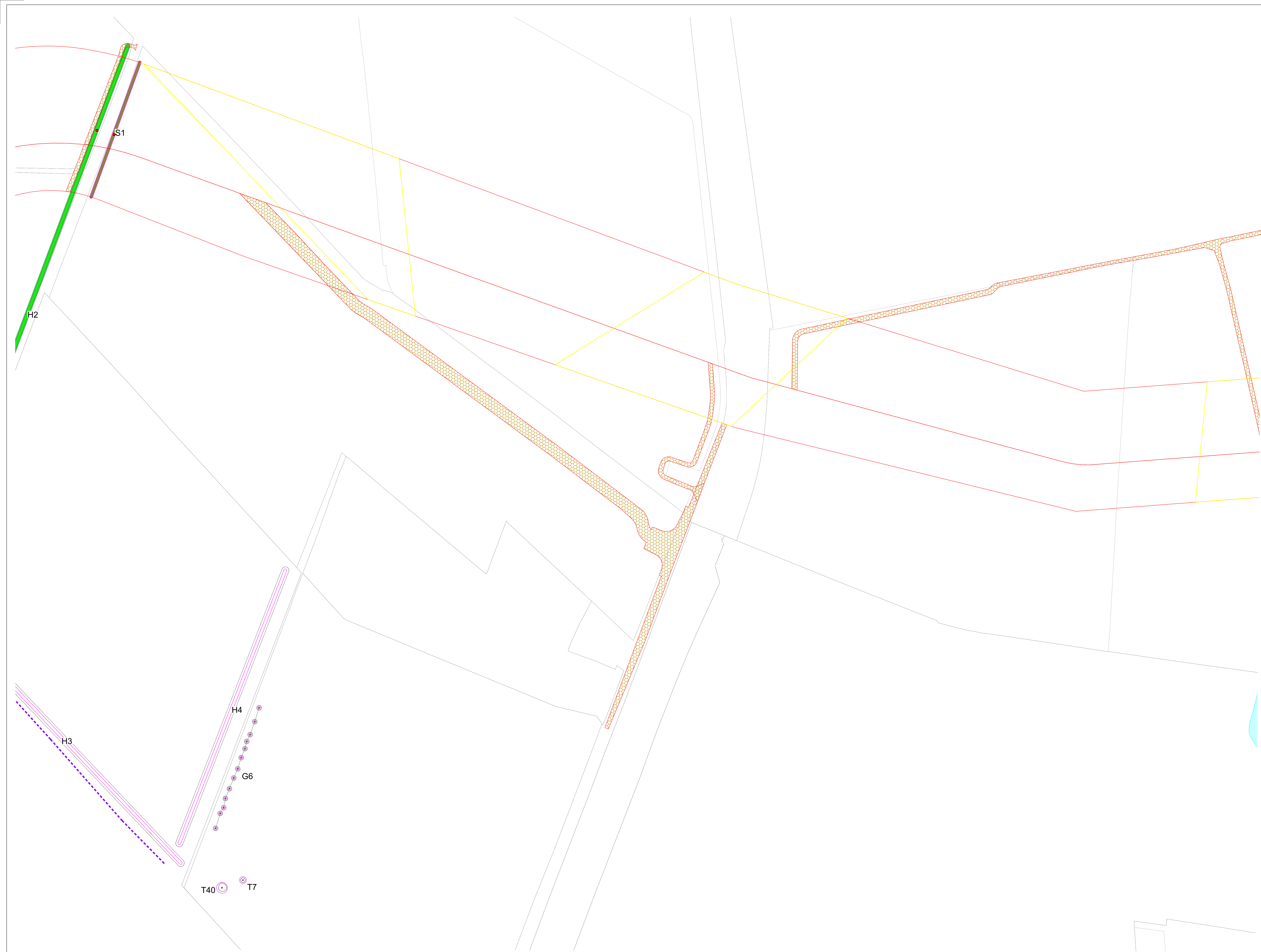
NOTES:

- Refer to RPS Tree Survey & Arboricultural Impact Assessment Report for further details.
- Survey based on a visual inspection from the ground and is not intended as a full arboricultural report.
- Plans produced in accordance with recommendations set out in BS 5837:2012 - "Trees in Relation to design, demolition and construction".
- Due to the legal protection afforded to breeding birds vegetation removal should not take place during the bird nesting period; generally, although not restricted to, March - August inclusive.
- Survey based upon aerial photographs; therefore tree locations should be deemed as approximate, and not digitally accurate.
- Protective vehicle emergency access routes to be maintained at all times.
- All protective fencing to be completed and approved by LPA / CA prior to commencement of site works.
- All works to conform with requirements of:
 BS 5837:2012 - Tree Work
 BS 5837:2012 - Trees in relation to design, demolition and construction
 NUGA - Guidelines for Utility Services in Proximity to Trees



Drawing Number:
 JSL4847_732

VER	DATE	DETAILS	BY	CHECK
01	June/24	Comment	JB	DC
02	Aug/24	Issue	JB	DC

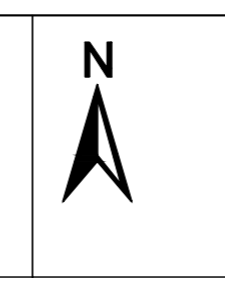


Project Name:
 Morgan and Morecambe Offshore Wind Farms:
 Transmission Assets

Drawing Title:
 Tree and Hedgerow Protection Plan

Scale
 Scale@A0: 1:1000

Geodetic Information:
 Datum: ETRS 1989
 Projection: British National Grid



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LEGEND

- Onshore Development Area (see also 0100031613)
 - Tree with numbered reference. Canopy spread and coloured BS5837:2012 tree quality category as shown below.
 T = Tree details estimate (inaccessible tree)
 = Tree in off site location
 - Vegetation group with numbered reference. Canopy extent and coloured BS5837:2012 tree quality category as shown below.
 - Hedge with numbered reference. Canopy extent and coloured BS5837:2012 tree quality category as shown below.
 - Woodland with numbered reference. Canopy extent and coloured BS5837:2012 tree quality category as shown below.
 - BS 5837:2012 Tree Quality Categories - Table 1
 - Category A - High quality
 - Category B - Moderate quality
 - Category C - Low quality
 - Category U - Unsuitable for retention
 - Tree/Hedge identified with satellite imagery where access permission for surveys has not been granted. No survey data has been collected.
 - Precautionary Root protection area (RPA) Added to un-surveyed trees, preliminary 15m RPA added as preventative buffer
 - Scrub group with numbered reference. Extents as shown.
 - Hedge identified as 'important' during ecology surveys (refer to ecology report)
 - Root protection area (RPA) Calculated in accordance with Section 4.6 - BS5837:2012
 - Tree protected by Tree Preservation Order - Fylde Borough Council and South Ribbles Borough Councils. GIS Datasets provided by respective Councils. Location data only.
 - Veteran tree buffer (15 x stem Ø) (as per standing advice produced by Natural Resource Wales)
- Arboricultural BRAG Assessment**
 Based on quantitative and professional assessment. The ranking is defined as:
- Black: Significant arboreal asset within development.
 - Red: High potential to constrain development.
 - Amber: Moderate potential to constrain development.
 - Green: Low potential to constrain development

- Cable Crossing Technique**
- Trenched
 - Trenchless

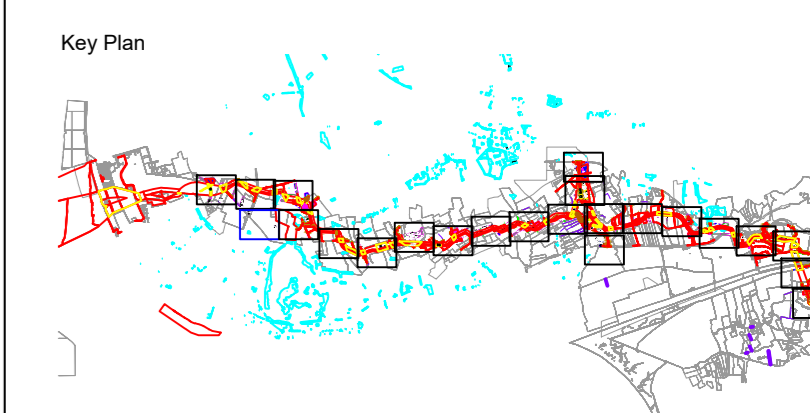
Trenchless technique employed
 No arboricultural impact / harm. No tree or woodland loss.
 Area of trenchless cable route as defined by client.

Traditional trench technique to be employed
 Preferred trenching location indicated, to avoid high or moderate arboricultural asset.

- Construction access tracks/ permanent substation access.
- Temporary construction compound.
- Permanent substation area.
- Temporary substation area.
- Temporary protective fencing in accordance with Section 8.2 - BS5837:2012. See example, also shown within supporting report.
- Temporary visual warning barrier. See example detail, also shown within supporting report.
- Tree with numbered reference requiring removal to facilitate development (assumed loss).

NOTES:

- Refer to RPS Tree Survey & Arboricultural Impact Assessment Report for further details.
- Survey based on a visual inspection from the ground and is not intended as a full arboricultural inspection.
- Plan produced in accordance with recommendations set out in BS 5837:2012. Trees in Relation to design, demolition and construction.
- Due to the legal protection afforded to breeding birds, vegetation removal should not take place during the bird nesting period, generally, although not restricted to, March - August inclusive.
- Survey based upon aerial photography. Boundary tree locations should be deemed as approximate, and not digitally accurate.
- Protective vehicular emergency access routes to be maintained at all times.
- All protective fencing to be completed and approved by LPA / CA prior to commencement of any site works.
- All works to conform with requirements of BS 3998:2015 - Tree Works BS 5837:2012 - Tree in relation to design, demolition and construction and Goodness for Utility Services in NUGSA Goodness for Trees Proximity to Trees



Drawing Number:
 JSL4847_733

VER	DATE	DETAILS	BY	CHECK
01	June/24	Comment	JB	DC
02	Aug/24	Issue	JB	DC



Project Name:
 Morgan and Morecambe Offshore Wind Farms:
 Transmission Assets

Drawing Title:
 Tree and Hedgerow Protection Plan

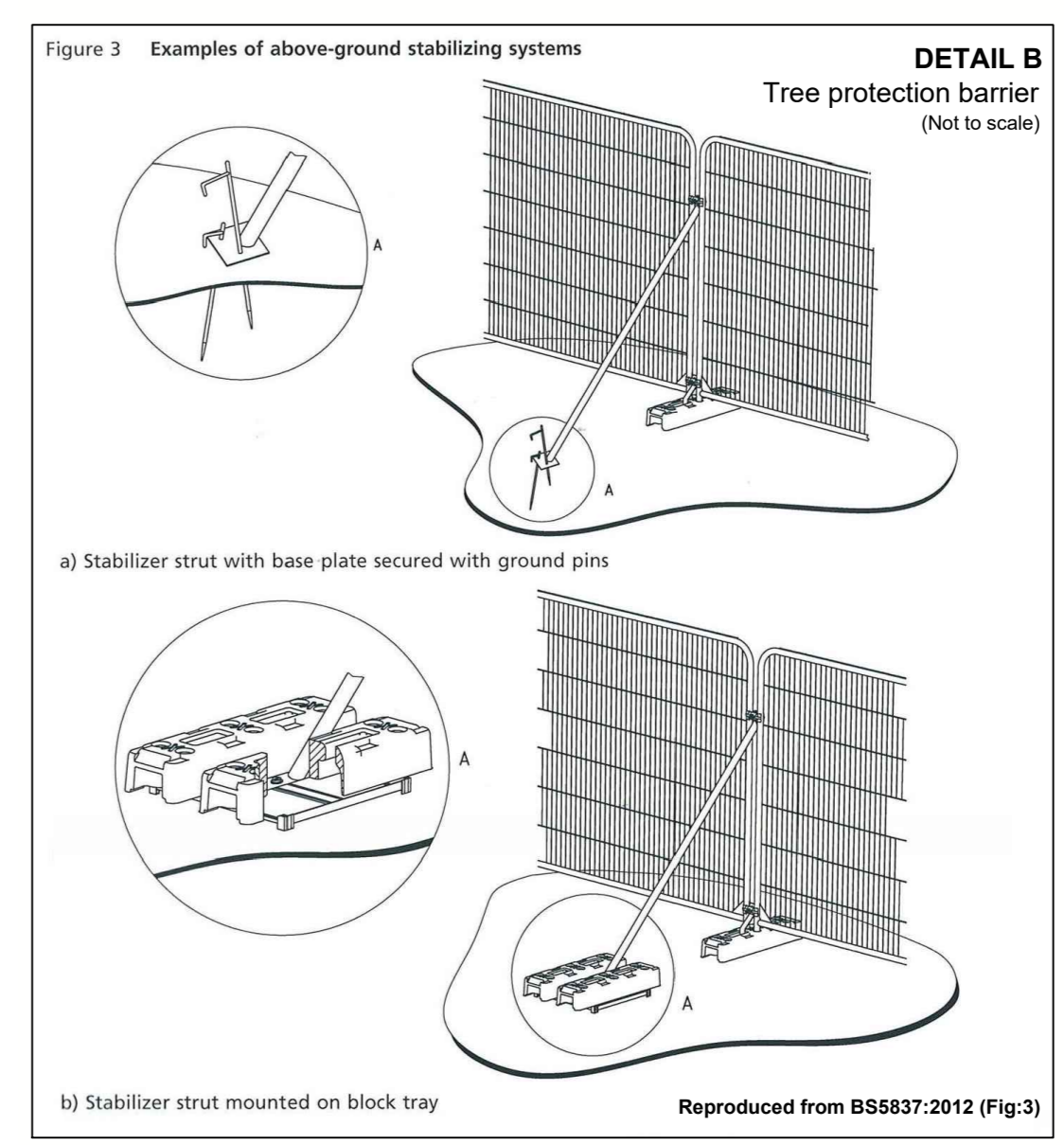
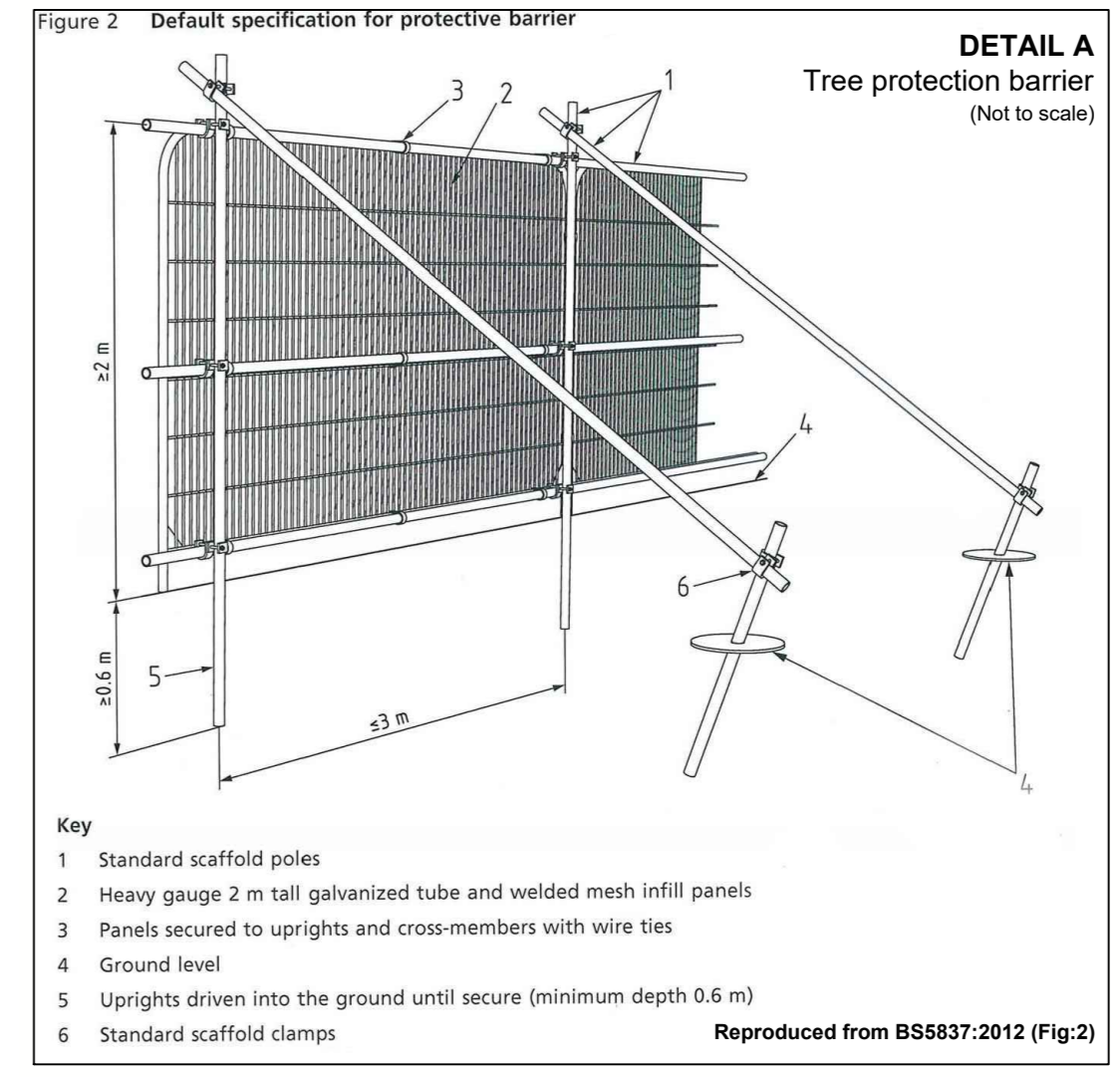
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Geodetic Information:
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LEGEND

- Ordnance Development Area (no. m, an. are, 200, w=1)
- Tree with numbered reference
Canopy spread and coloured BS5837:2012 tree quality category as shown below.
= Tree details estimate (inaccessible tree)
- Vegetation group with numbered reference.
Canopy extents and coloured BS5837:2012 tree quality category as shown below.
= Tree in off site location
- Hedge with numbered reference.
Canopy extents and coloured BS5837:2012 tree quality category as shown below.
- Woodland with numbered reference.
Canopy extents and coloured BS5837:2012 tree quality category as shown below.
- BS 5837:2012 Tree Quality Categories - Table 1
- Category A - High quality
- Category B - Moderate quality
- Category C - Low quality
- Category U - Unusable for retention
- Tree hedge identified with satellite imagery where access permission for surveys has not been granted. No survey data has been collected.
- Precautious Root protection area (RPA) Added to surveyed trees, preliminary (S&D) RPA added as preventative buffer
- Scrub group with numbered reference. Extents as shown.
- Hedge identified as 'important' during ecology surveys (refer to ecology report)
- Root protection area (RPA) Calculated in accordance with Section 4.6 - BS5837:2012
- Tree protected by Tree Preservation Order- Fylde Borough Council and South Ribbles Borough Council. GIS Datasets provided by respective Councils. Location data only.
- Vietnam tree buffer (15 x stem D) (as per standing advice produced by Natural Resource Wales)

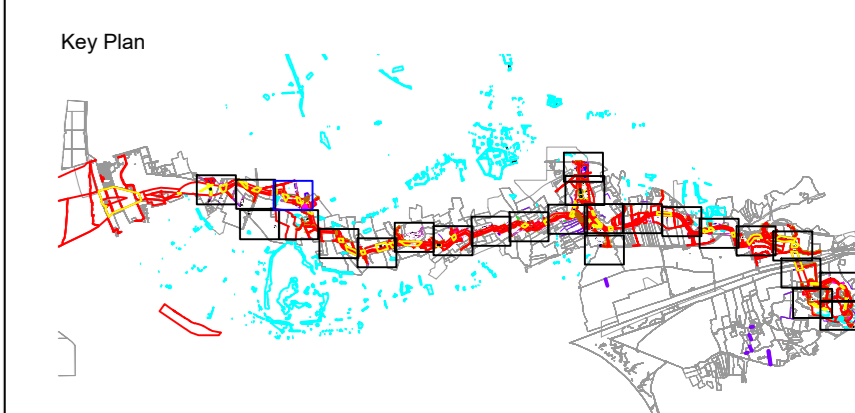
- Arboricultural BRAG Assessment**
 Based on quantitative and professional assessment. The ranking is defined as:
- Black: Significant arboreal asset within development.
 - Red: High potential to constrain development.
 - Amber: Moderate potential to constrain development.
 - Green: Low potential to constrain development.

- Cable Crossing Technique**
- Trenched
 - Trenchless

- Trenchless technique employed. No arboricultural impact / harm. No tree or woodland loss. Area of trenchless cable route as defined by client.
- Traditional trench technique to be employed. Preferred trenching location indicated, to avoid high or moderate arboricultural asset.

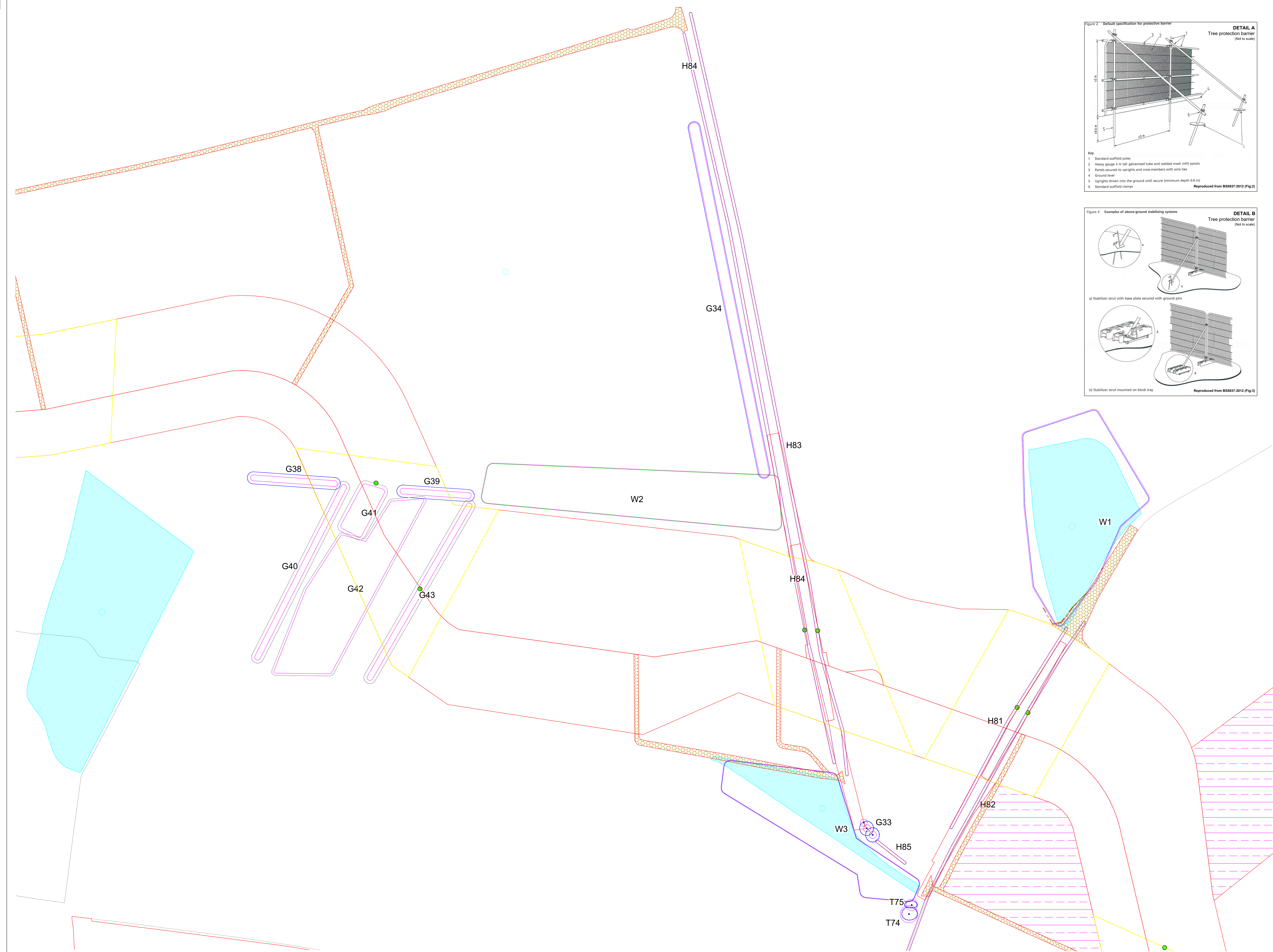
- Construction access tracks/ permanent subdivision access.
- Temporary construction compound.
- Permanent substation area.
- Temporary substation area.
- Temporary protective fencing in accordance with Section 6.2 - BS5837:2012. See example, also shown within supporting report.
- Temporary visual warning barrier. See example detail, also shown within supporting report.
- Tree with numbered reference requiring removal to facilitate development (assumed loss).

- NOTES:**
- Refer to RPS Tree Survey & Arboricultural Impact Assessment Report for further details.
 - Survey based on a visual inspection from the ground and is not intended as a full arboricultural inspection.
 - Plan produced in accordance with recommendations set out in BS 5837:2012, 'Trees in Relation to design, demolition and construction'.
 - Due to the legal protection afforded to breeding birds, vegetation removal should not take place during the bird nesting period, generally although not restricted to, March - August inclusive.
 - Survey based upon aerial photography, therefore tree locations should be deemed as approximate, and not digitally accurate.
 - Protective/vehicle emergency access routes to be maintained at all times.
 - Alternative fencing to be completed and approved by LPA / CA prior to commencement of any site works.
 - All works to conform with requirements of:
 - BS 5837:2012 - The Works
 - BS 5837:2012 - Tree in relation to design, demolition and construction
 - ALGOW - Guidelines for Utility Services in Proximity to Trees



Drawing Number:
 JSL4847_734

VER	DATE	DETAILS	BY	CHECK
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02	Aug/24	Issue	JB	DC

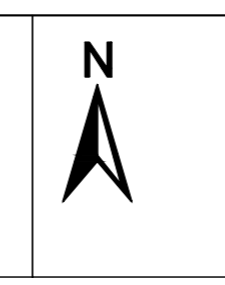


Project Name:
 Morgan and Morecambe Offshore Wind Farms:
 Transmission Assets

Drawing Title:
 Tree and Hedgerow Protection Plan

Scale
 Scale@A0: 1:1000

Geodetic Information:
 Datum: ETRS 1989
 Projection: British National Grid



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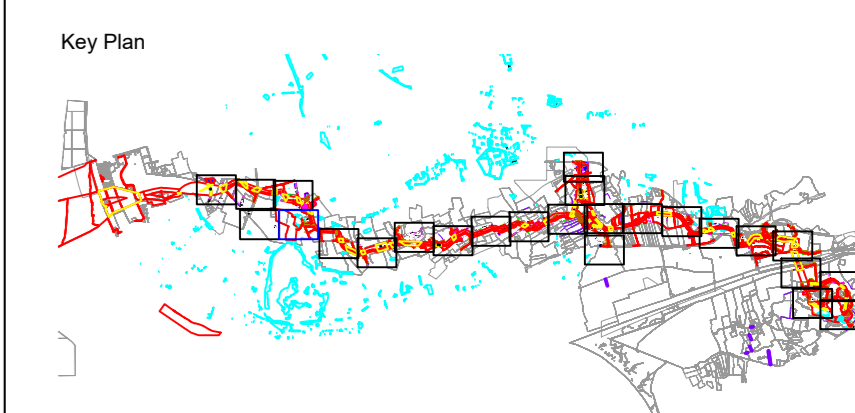
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LEGEND

- Onshore Development Area (AO, M2, M3, M10, M11)
- Tree with numbered reference. Canopy spread and coloured BS5837:2012 tree quality category as shown below. # = Tree details estimate (inaccessible tree)
- Tree in off site location
- Vegetation group with numbered reference. Canopy extents and coloured BS5837:2012 tree quality category as shown below.
- Hedge with numbered reference. Canopy extents and coloured BS5837:2012 tree quality category as shown below.
- Woodland with numbered reference. Canopy extents and coloured BS5837:2012 tree quality category as shown below.
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 ● Category A - High quality
 ● Category B - Moderate quality
 ● Category C - Low quality
 ● Category U - Unsuitable for retention
- Tree/ Hedge identified with satellite imagery where access permission for surveys has not been granted. No survey data has been collected.
- Precalculation Root protection area (RPA) added to un-surveyed trees, preliminary 15mØ RPA added as preventative buffer
- Scub group with numbered reference. Extents as shown.
- Hedge identified as 'important' during ecology surveys (refer to ecology report)
- Root protection area (RPA) Calculated in accordance with Section 4.6 - BS5837:2012
- Tree protected by Tree Preservation Order - Fylde Borough Council and South Ribbles Borough Councils. GIS Datasets provided by respective Councils. Location data only.
- 15mØ tree buffer (15 x stem Ø) (as per standing advice produced by Natural Resource Wales)
- Arboricultural BRAG Assessment**
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 ● Trenched
 ● Trenchless
- Trenchless technique employed. No arboricultural impact / harm. No tree or woodland loss. Area of trenchless cable route as defined by client. Traditional trenching technique to be employed. Preferred trenching location indicated, to avoid high or moderate arboricultural asset.
- Construction access tracks/ permanent substitution access.
- Temporary construction compound.
- Permanent substitution area.
- Temporary substitution area.
- Temporary protective fencing in accordance with Section 6.2 - BS5837:2012. See example, also shown within supporting report.
- Temporary visual warning barrier. See example detail, also shown within supporting report.
- Tree with numbered reference requiring removal to facilitate development (assumed loss).

NOTES:

- Refer to RPS Tree Survey & Arboricultural Impact Assessment Report for further details.
- Survey based on a visual inspection from the ground and is not intended as a full arboricultural report.
- Plan produced in accordance with recommendations set out in BS 5837:2012 - 'Trees in Relation to design, demolition and construction'.
- Due to the legal protection afforded to breeding birds, vegetation removal should not take place during the bird nesting period, generally, although not restricted to March - August inclusive.
- Survey based upon aerial photography, therefore tree locations should be deemed as approximate, and not digitally accurate.
- Insensitive vehicle emergency access routes to be maintained at all times.
- All protective fencing to be completed and approved by EPA (CA prior to commencement of site works).
- All works to conform with requirements of:
 BS 5837:2012 - Tree Work
 BS 5837:2012 - Trees in relation to design, demolition and construction
 NAGSA - Guidelines for Utility Services in Proximity to Trees



Drawing Number:
JSL4847_735

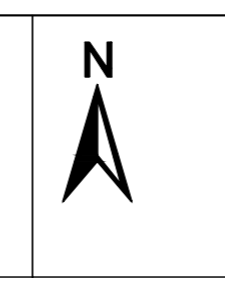
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LEGEND

- Outline Development Area (MS_P14_P10_P10_P10_P10)
- Tree with numbered reference. Canopy spread and coloured BS5837:2012 tree quality category as shown below.
 - = Tree details estimate (accessible tree)
 - = Tree in off site location
- Vegetation group with numbered reference. Canopy extents and coloured BS5837:2012 tree quality category as shown below.
- Hedge with numbered reference. Canopy extents and coloured BS5837:2012 tree quality category as shown below.
- Woodland with numbered reference. Canopy extents and coloured BS5837:2012 tree quality category as shown below.
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 - Category C - Low quality
 - Category U - Unsuitable for retention
- Troof Hedge identified with satellite imagery where access permission for surveys has not been granted. No survey data has been collected.
- Precautionary Root Protection Area (RPA) Added to un-surveyed trees, preliminary 15m RPA added as preventative buffer.
- Scrub group with numbered reference. Extents as shown.
- Hedge identified as 'important' during ecology surveys (refer to ecology report)
- Root protection area (RPA) Calculated in accordance with Section 4.6 - BS5837:2012
- Tree protected by Tree Preservation Order - Fylde Borough Council and South Ribbles Borough Councils. GIS Datasets provided by respective Councils. Location data only.
- Veteran tree buffer (15 x stem Ø) (as per standing advice produced by Natural Resource Wales)
- Arboricultural BRAG Assessment**
 Based on quantitative and professional assessment. The ranking is defined as:
 - Black: Significant arboreal asset within development;
 - Red: High potential to constrain development;
 - Amber: Moderate potential to constrain development;
 - Green: Low potential to constrain development
- Cable Crossing Technique**
 - Trenched
 - Trenchless
- Trenchless technique employed
 No arboricultural impact / harm. No tree or woodland loss.
 Area of trenchless cable route as defined by client.
- Traditional trench technique to be employed
 Preferred trenching location indicated, to avoid high or moderate arboricultural asset.
- Construction access tracks/ permanent station access.
- Temporary construction compound.
- Permanent substation area.
- Temporary substation area.
- Temporary protective fencing in accordance with Section 6.2 - BS5837:2012. See example, also shown within supporting report.
- Temporary visual warning barrier. See example detail, also shown within supporting report.
- Tree with numbered reference requiring removal to facilitate development (assumed loss).

NOTES:

- Refer to RPS Tree Survey & Arboricultural Impact Assessment Report for further details.
- Survey based on a visual inspection from the ground and is not intended as a full arboricultural inspection.
- Plan produced in accordance with recommendations set out in BS 5837:2012 - 'Trees in Relation to Design, Demolition and Construction'.
- Due to the legal protection afforded to breeding birds, vegetation removal should not take place during the bird nesting period, generally, although not restricted to March - August inclusive.
- Survey based upon aerial photography. Bareline tree locations should be deemed as approximate, and not digitally accurate.
- Protective vehicular emergency access routes to be maintained at all times.
- All protective fencing to be completed and approved by LPA/CA prior to commencement of any site works.
- All works to conform with requirements of:
 BS 5837:2012 - Tree Works
 BS 5837:2012 - Tree Removal
 BS 5837:2012 - Tree Preservation
 NAGCA - Guidelines for Utility Services in Proximity to Trees



Key Plan



Partners in UK offshore wind

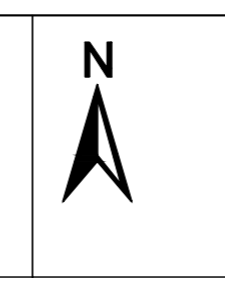
Drawing Number:
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Project Name:
 Morgan and Morecambe Offshore Wind Farms:
 Transmission Assets

Drawing Title:
 Tree and Hedgerow Protection Plan

Scale
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Geodetic Information:
 Datum: ETRS 1989
 Projection: British National Grid



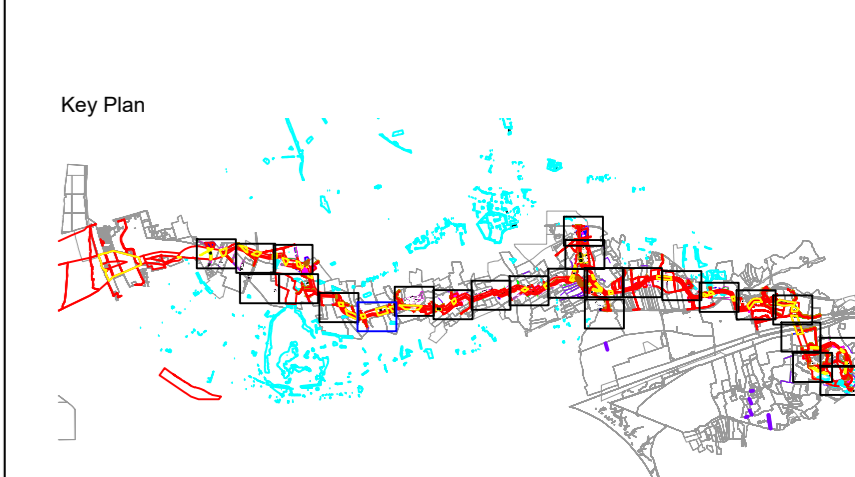
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LEGEND

- Outline Development Area (AO, M2, M3, M20, A66, A1)
- Tree with numbered reference. Canopy spread and coloured BSS5837:2012 tree quality category as shown below.
= Tree in off site location
= Tree details estimate (inaccessible tree)
- Vegetation group with numbered reference. Canopy extents and coloured BSS5837:2012 tree quality category as shown below.
- Hedge with numbered reference. Canopy extents and coloured BSS5837:2012 tree quality category as shown below.
- Woodland with numbered reference. Canopy extents and coloured BSS5837:2012 tree quality category as shown below.
- Category A - High quality
- Category B - Moderate quality
- Category C - Low quality
- Category U - Unusable for retention
- Tree/Hedge identified with satellite imagery where access permission for survey has not been granted. No survey data has been collected.
- Precautory Root Protection Area (RPA) Added to an existing RPA. Preliminary 15m RPA added as preventative buffer
- Scrub group with numbered reference. Extents as shown.
- Hedge identified as 'important' during ecology surveys (refer to ecology report)
- Root protection area (RPA) Calculated in accordance with Section 4.6 - BSS5837:2012
- Tree protected by Tree Preservation Order - Fylde Borough Council and South Ribbles Borough Councils. GIS Datasets provided by respective Councils. Location data only.
- Veteran tree buffer (15 x stem Ø) (as per standing advice produced by Natural Resource Wales)
- Arboricultural BRAG Assessment**
Based on quantitative and professional assessment. The ranking is defined as:
 Black: Significant arboreal asset within development.
 Red: High potential to constrain development.
 Amber: Moderate potential to constrain development.
 Green: Low potential to constrain development
- Cable Crossing Technique**
 Trenched
 Trenchless
 Trenchless technique employed. No arboricultural impact / harm. No tree or woodland loss. Area of trenchless cable route as defined by client.
 Traditional trench technique to be employed. Preferred trenching location indicated, to avoid high or moderate arboricultural asset.
- Construction access tracks/ permanent substation access.
- Temporary construction compound.
- Permanent substation area.
- Temporary substation area.
- Temporary protective fencing in accordance with Section 6.2 - BSS5837:2012. See example, also shown within supporting report.
- Temporary visual warning barrier. See example detail, also shown within supporting report.
- Tree with numbered reference requiring removal to facilitate development (assumed grass).



Drawing Number:
 JSL4847_737

VER	DATE	DETAILS	BY	CHECK
01	June/24	Comment	JB	DC
02	Aug/24	Issue	JB	DC



Project Name:
 Morgan and Morecambe Offshore Wind Farms:
 Transmission Assets

Drawing Title:
 Tree and Hedgerow Protection Plan

Scale
 Scale@A0: 1:1000

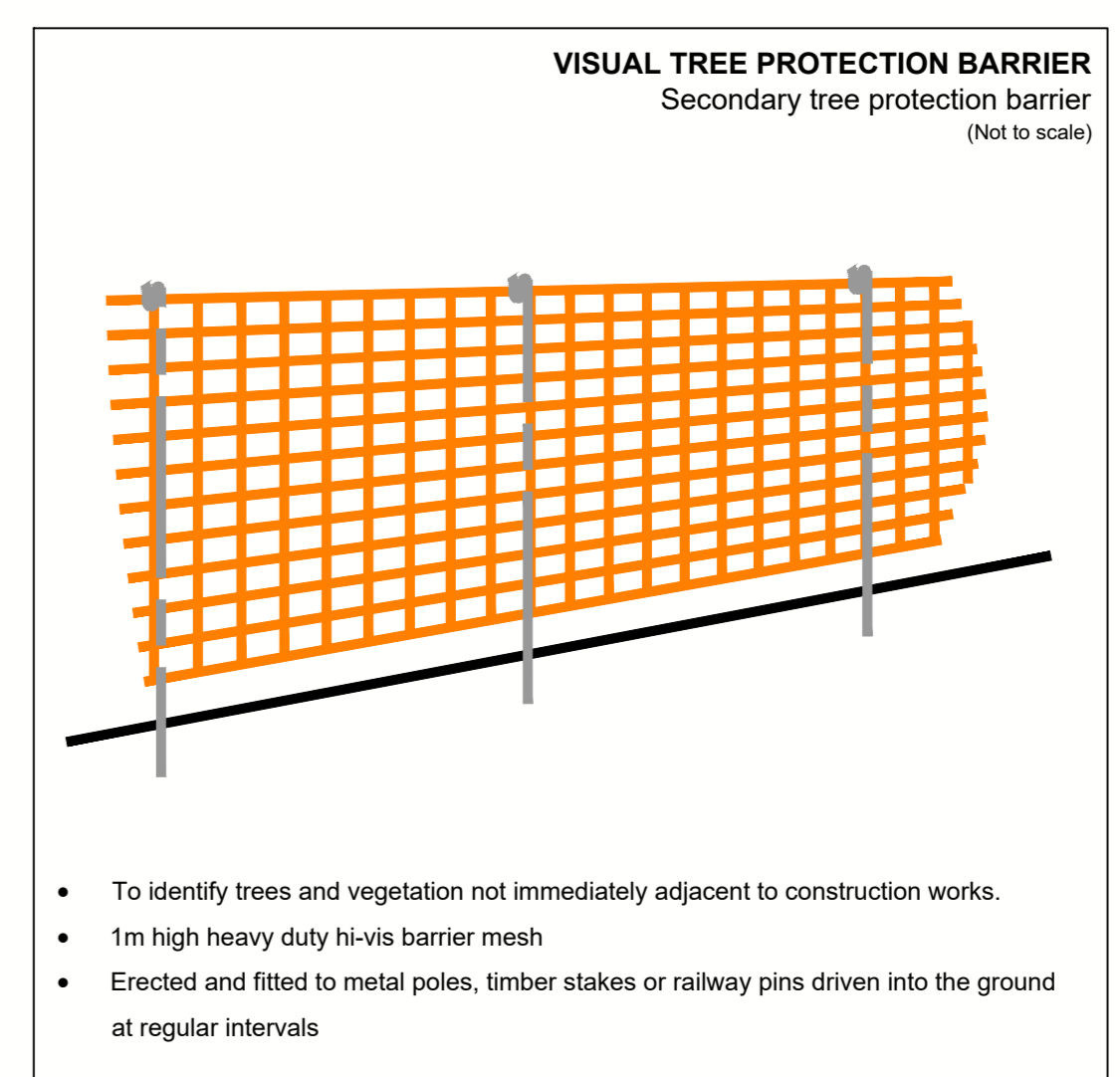
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 Projection: British National Grid



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LEGEND

- Outline Development Area (AOI, POI, BP, D162, D163, S611)
- Tree with numbered reference. Canopy spread and coloured BS5837:2012 tree quality category as shown below. # = Tree details estimate (inaccessible tree) = Tree in off site location
- Vegetation group with numbered reference. Canopy extents and coloured BS5837:2012 tree quality category as shown below.
- Hedge with numbered reference. Canopy extents and coloured BS5837:2012 tree quality category as shown below.
- Woodland with numbered reference. Canopy extents and coloured BS5837:2012 tree quality category as shown below.
- BS 5837:2012 Tree Quality Categories - Table 1
- Category A - High quality
- Category B - Moderate quality
- Category C - Low quality
- Category U - Unsuitable for retention
- Tree/Hedge identified with satellite imagery where access permission for surveys has not been granted. No survey data has been collected.
- Precautious Root protection area (RPA) Added to un-surveyed trees, preliminary 15m RPA added as preventative buffer
- Scrub group with numbered reference. Extents as shown.
- Hedge identified as 'important' during ecology surveys (refer to ecology report)
- Root protection area (RPA) Calculated in accordance with Section 6.2 - BS5837:2012
- Tree protected by Tree Preservation Order - Fylde Borough Council and South Ribbles Borough Councils. GIS Datasets provided by respective Councils. Location data only.
- Veteran tree buffer (15 x stem G) (as per standing advice produced by Natural Resource Wales)

Arboricultural BRAC Assessment
 Based on quantitative and professional assessment. The ranking is defined as:
 Black: Significant arboreal asset within development.
 Red: High potential to constrain development.
 Amber: Moderate potential to constrain development.
 Green: Low potential to constrain development

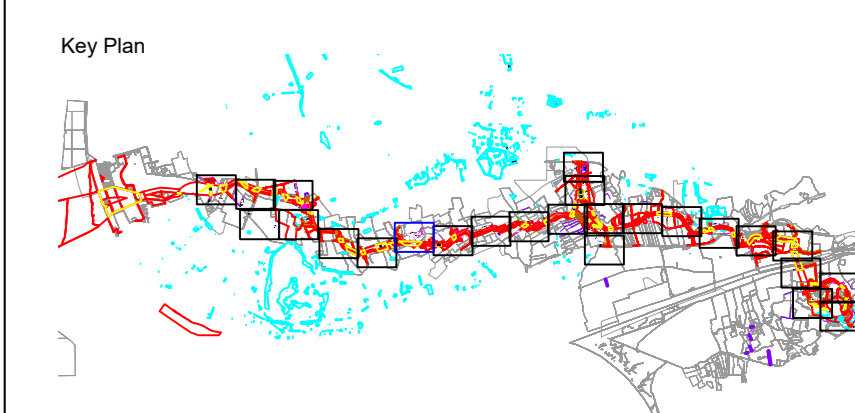
- Cable Crossing Technique**
- Trenched
 - Trenchless

Trenchless technique employed
 No arboricultural impact / harm. No tree or woodland loss.
 Area of trenchless cable route as defined by client.
Traditional trench technique to be employed
 Preferred trenching location indicated, to avoid high or moderate arboricultural asset.

- Construction access tracks/ permanent substation access.
- Temporary construction compound.
- Permanent substation area.
- Temporary substation area.
- Temporary protective fencing in accordance with Section 6.2 - BS5837:2012. See example, also shown within supporting report.
- Temporary visual warning barrier. See example detail, also shown within supporting report.
- Tree with numbered reference requiring removal to facilitate development (assumed loss).

NOTES:

- Refer to RPS Tree Survey & Arboricultural Impact Assessment Report for further details.
- Survey based on a visual inspection from the ground and is not intended as a full arboricultural inspection.
- Plan produced in accordance with recommendations set out in BS 5837:2012. Trees in Relation to design, demolition and construction.
- Due to the legal protection afforded to breeding birds, vegetation removal should not take place during the bird nesting period, generally, although not restricted to, March - August inclusive.
- Survey based upon aerial photography, therefore tree locations should be deemed as approximate, and not digitally accurate.
- Pedestrian vehicle emergency access routes to be maintained at all times.
- Alternative fencing to be completed and approved by LPA (LPA prior to commencement of any site work).
- All works to conform with requirements of:
 BS 5837:2012 - Tree Works
 BS 5837:2012 - Trees in relation to design, demolition and construction
 NRS24 - Guidelines for Utility Services in Proximity to Trees



Drawing Number:
JSL4847_738

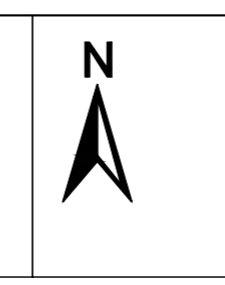
VER	DATE	DETAILS	BY	CHECK
01	June/24	Comment	JB	DC
02	Aug/24	Issue	JB	DC

Project Name:
 Morgan and Morecambe Offshore Wind Farms:
 Transmission Assets

Drawing Title:
 Tree and Hedgerow Protection Plan

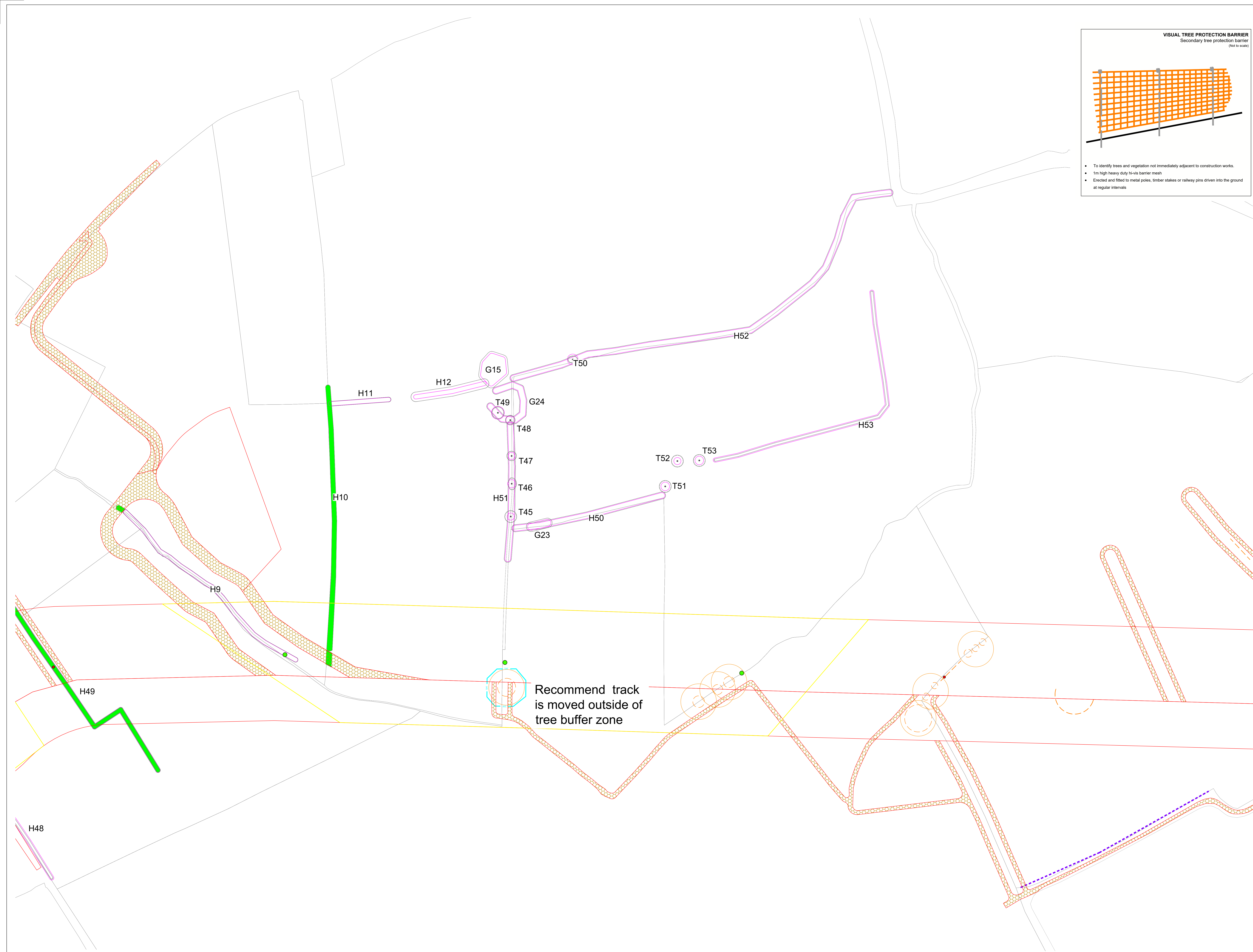
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Geodetic Information:
 Datum: ETRS 1989
 Projection: British National Grid



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Recommend track
 is moved outside of
 tree buffer zone



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LEGEND

- Onshore Development Area
- Tree with numbered reference. Canopy spread and coloured BS5837:2012 tree quality category as shown below. # = Tree details estimate (inaccessible tree)
- Tree in off site location
- Vegetation group with numbered reference. Canopy extents and coloured BS5837:2012 tree quality category as shown below.
- Hedge with numbered reference. Canopy extents and coloured BS5837:2012 tree quality category as shown below.
- Woodland with numbered reference. Canopy extents and coloured BS5837:2012 tree quality category as shown below. BS 5837:2012 Tree Quality Categories - Table 1
- Category A - High quality
- Category B - Moderate quality
- Category C - Low quality
- Category U - Unsuitable for retention
- Tree/Hedge identified with suitable imagery where access permission for surveys has not been granted. No survey data has been collected.
- Precipitation Root Protection Area (RPA) Added to un-surveyed trees. Preliminary 15m RPA added as preventative buffer.
- Scrub group with numbered reference. Extends as shown.
- Hedge identified as 'important' during ecology surveys (refer to ecology report)
- Root protection area (RPA) Calculated in accordance with Section 4.6 - BS5837:2012
- Tree protected by Tree Preservation Order - Fylde Borough Council and South Ribbles Borough Councils. GIS Datasets provided by respective Councils. Location data only.
- Vegetation tree buffer (15 x stem Ø) (as per standing advice produced by Natural Resource Wales)
- Arboricultural BRAG Assessment**
 Based on quantitative and professional assessment. The ranking is defined as:
 Black: Significant arboreal asset within development.
 Red: High potential to constrain development.
 Amber: Moderate potential to constrain development.
 Green: Low potential to constrain development
- Cable Crossing Technique**
 Trenched
 Trenchless
- Trenchless technique employed. No arboricultural impact / harm. No tree or woodland loss. Area of trenchless cable route as defined by client. Traditional trench technique to be employed. Preferred trenching location indicated, to avoid high or moderate arboreal asset.
- Construction access tracks/ permanent substation access.
- Temporary construction compound.
- Permanent substation area.
- Temporary substation area.
- Temporary protective fencing in accordance with Section 6.2 - BS5837:2012. See example, also shown within supporting report.
- Temporary visual warning barrier. See example detail, also shown within supporting report.
- Tree with numbered reference requiring removal to facilitate development (assumed loss).

NOTES:

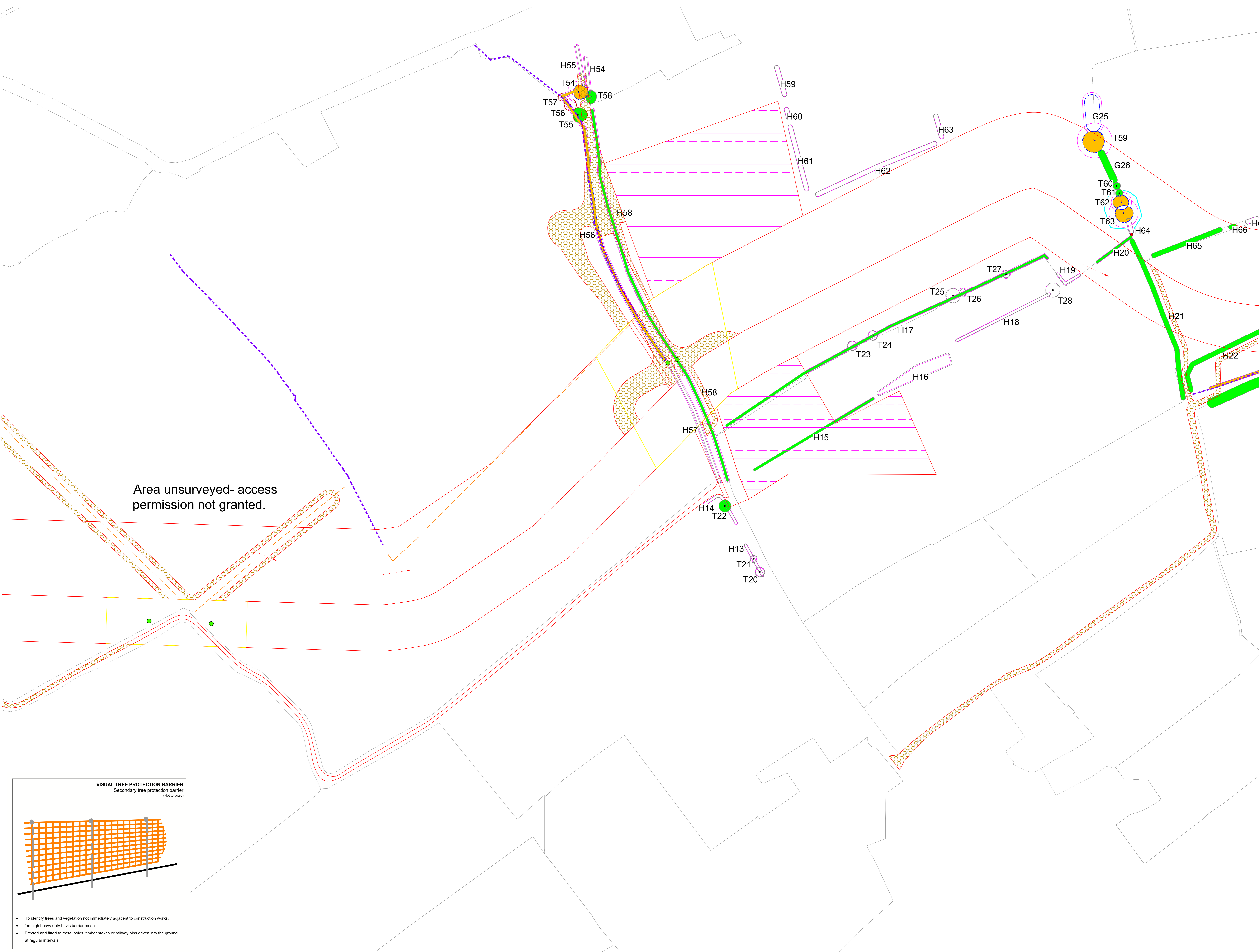
- Refer to RPS Tree Survey & Arboricultural Impact Assessment Report for further details.
- Survey based on a visual inspection from the ground and is not intended as a full arboricultural inspection.
- Plan produced in accordance with recommendations set out in BS 5837:2012. Trees in Relation to design, demolition and construction.
- Due to the legal protection afforded to breeding birds vegetation removal should not take place during the bird nesting period; generally, although not restricted to, March - August inclusive.
- Survey based upon aerial photography, therefore tree locations should be deemed as approximate, and not digitally accurate.
- Pedestrian/vehicle emergency access routes to be maintained at all times.
- All protective fencing to be completed and approved by LPA (CA prior to commencement of any site works).
- All works to conform with requirements of:
 BS 5837:2012 - Tree Works
 BS 5837:2012 - Tree in relation to design, demolition and construction.
 N/A/024 - Guidelines for Utility Services in Proximity to Trees

Key Plan

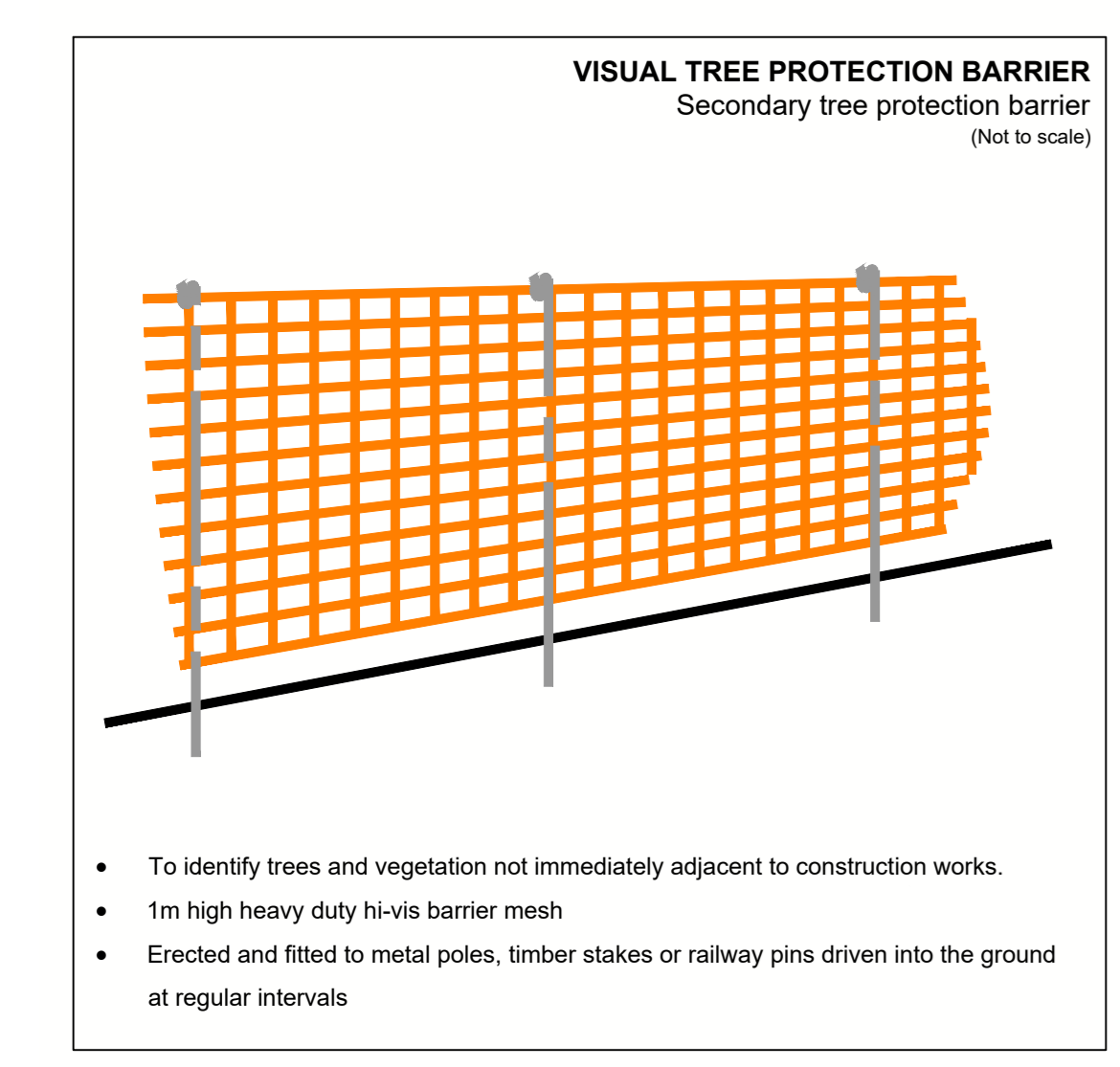


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02	Aug/24	Issue	JB	DC



Area unsurveyed- access permission not granted.

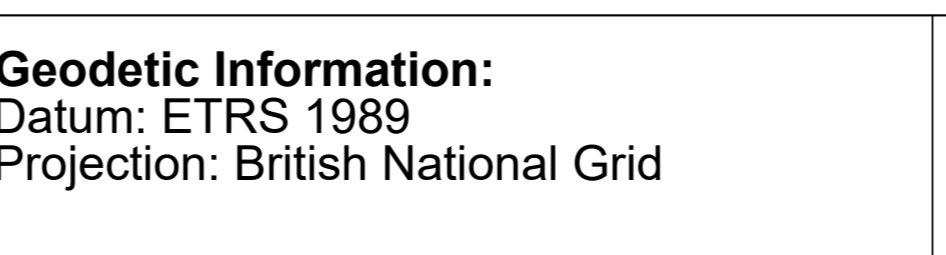


Project Name:
 Morgan and Morecambe Offshore Wind Farms:
 Transmission Assets

Drawing Title:
 Tree and Hedgerow Protection Plan

Scale
 Scale@A0: 1:1000

Geodetic Information:
 Datum: ETRS 1989
 Projection: British National Grid



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LEGEND

Onshore Development Area
 (AKO_PU_SF_0142_000_0001)

T1 Tree with numbered reference.
 Canopy spread and coloured BS5837:2012 tree quality category as shown below.
 # = Tree details estimate (non-accessible tree)
 * = Tree in off site location

G1 Vegetation group with numbered reference.
 Canopy extents and coloured BS5837:2012 tree quality category as shown below.

H1 Hedge with numbered reference.
 Canopy extents and coloured BS5837:2012 tree quality category as shown below.

W1 Woodland with numbered reference.
 Canopy extents and coloured BS5837:2012 tree quality category as shown below.

BS 5837:2012 Tree Quality Categories - Table 1

● Category A - High quality
 ● Category B - Moderate quality
 ● Category C - Low quality
 ● Category U - Unsuitable for retention

Tree/Hedge identified with satellite imagery where access permission for surveys has not been granted. No survey data has been collected.

Precautionary Root Protection Area (RPA)
 Added to an un-surveyed tree, preliminary 15mØ RPA added as preventative buffer

Scrub group with numbered reference.
 Extents as shown.

Hedge identified as 'important' during ecology surveys (refer to ecology report)

Root protection area (RPA)
 Calculated in accordance with Section 4.6 - BS5837:2012

Tree protected by Tree Preservation Order - Fylde Borough Council and South Ribbles Borough Council. GIS Data sets provided by respective Councils. Location data only.

Veteran tree buffer (15 x stem Ø)
 (as per standing advice produced by Natural Resource Wales)

Arboricultural Impact Assessment
 Based on quantitative and professional assessment. The ranking is defined as:

■ Black: Significant arboreal asset within development.
 ■ Red: High potential to constrain development.
 ■ Amber: Moderate potential to constrain development.
 ■ Green: Low potential to constrain development

Cable Crossing Technique

● Trenched
 ● Trenchless

Trenchless technique employed
 No arboricultural impact from. No tree or woodland loss.
 Area of trenchless cable route as defined by client.

Traditional trench technique to be employed
 Preferred trenching location indicated, to avoid high or moderate arboricultural asset.

Construction access track/ permanent substation access.

Temporary construction compound.

Permanent substation area.

Temporary substation area.

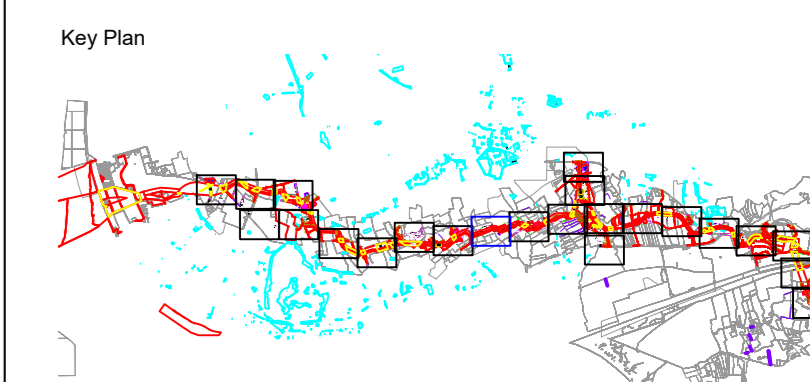
Temporary protective fencing in accordance with Section 6.2 - BS5837:2012. See example, also shown within supporting report.

Temporary visual warning barrier. See example detail, also shown within supporting report.

T1 Tree with numbered reference requiring removal to facilitate development (assumed trees)

NOTES:

- Refer to RPS Tree Survey & Arboricultural Impact Assessment Report for further details.
- Survey based on a visual inspection from the ground and is not intended as a full arboricultural inspection.
- Plan produced in accordance with recommendations set out in BS 5837:2012 - 'Trees in Relation to design, demolition and construction'.
- Data for high protection afforded to breeding birds (eg. ground-nesting birds) should not take place during the bird nesting period, generally, although not restricted to March - August inclusive.
- Survey based upon aerial photography, therefore tree locations should be deemed as approximate, and not digitally accurate.
- Provisionary vehicular emergency access routes to be maintained at all times.
- All protective fencing to be completed and approved by LPA LCA prior to commencement of any site works.
- All works to conform with requirements of BS 5837:2012 - 'Trees in Relation to design, demolition and construction'.
- BS 5837:2012 - 'Trees in Relation to design, demolition and construction'.
- NX304 - Guidelines for Utility Services in Proximity to Trees.



Drawing Number:
 JSL4847_740

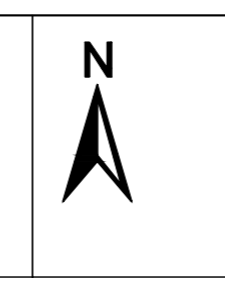
VER	DATE	DETAILS	BY	CHECK
01	June/24	Comment	JB	DC
02	Aug/24	Issue	JB	DC

Project Name:
 Morgan and Morecambe Offshore Wind Farms:
 Transmission Assets

Drawing Title:
 Tree and Hedgerow Protection Plan

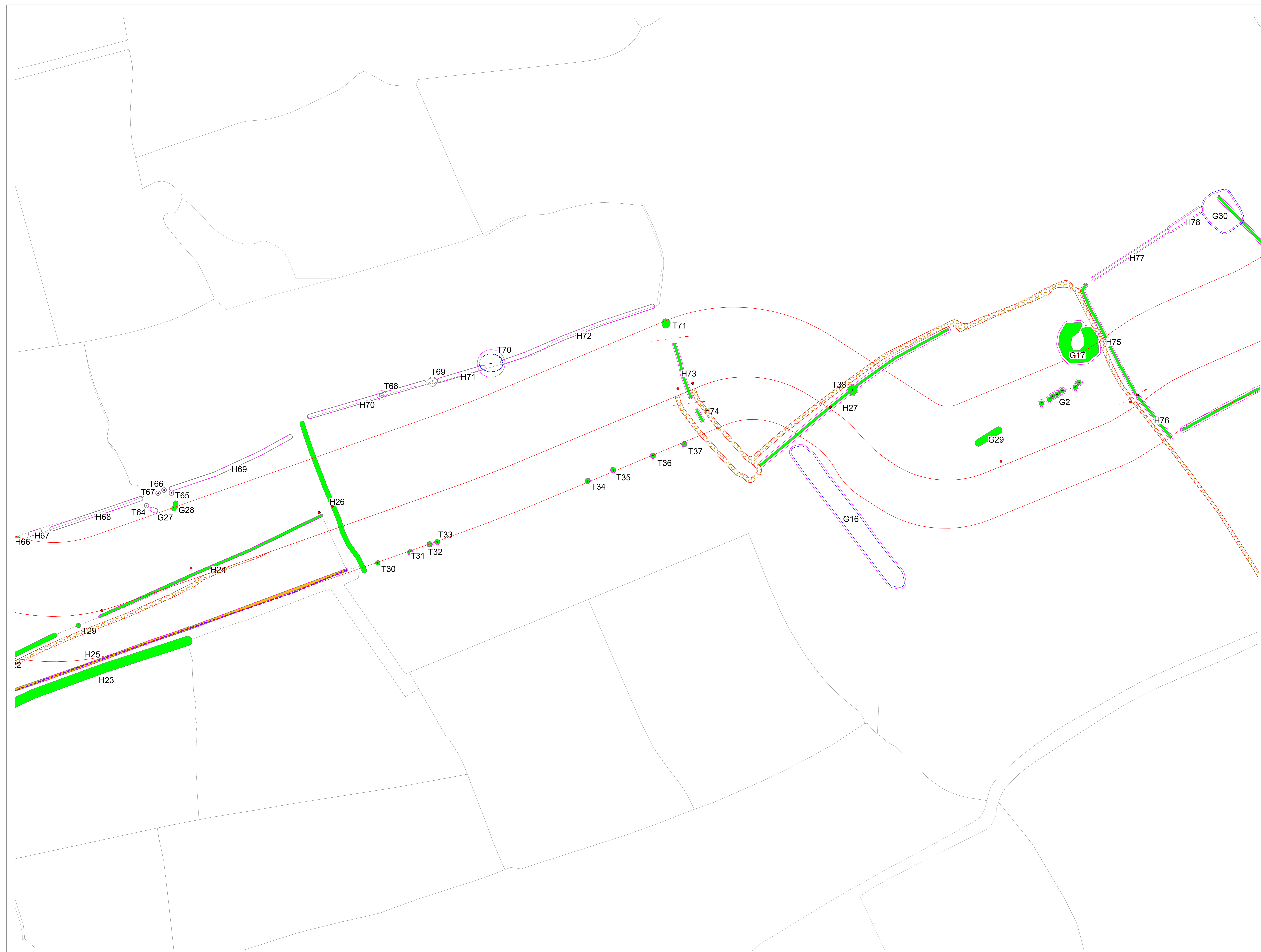
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Geodetic Information:
 Datum: ETRS 1989
 Projection: British National Grid



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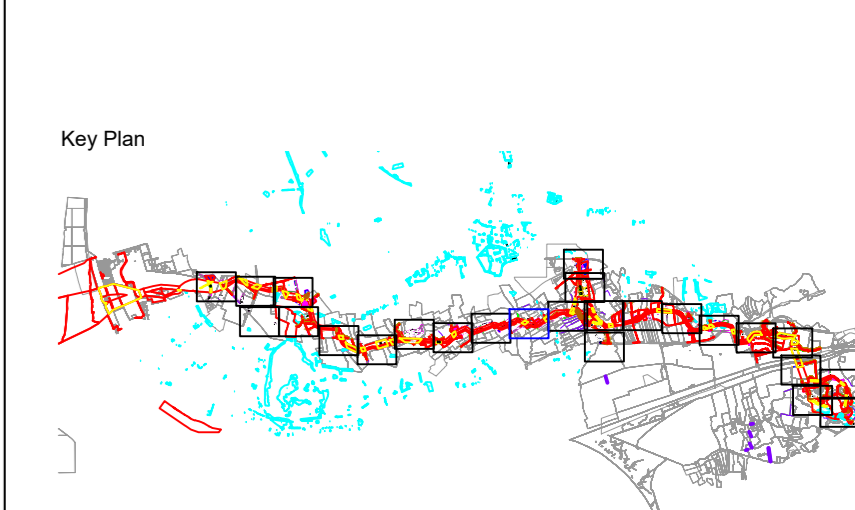
Project Name:
 Morgan and Morecambe Offshore Wind Farms:
 Transmission Assets



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LEGEND

- Orange Development Area (AKS, HX, SP, H45, D00, Hx11)
- Tree with numbered reference. Canopy spread and coloured BS5837:2012 tree quality category as shown below. # = Tree details estimate (inaccessible tree) = Tree in off site location
- Vegetation group with numbered reference. Canopy extents and coloured BS5837:2012 tree quality category as shown below.
- Hedge with numbered reference. Canopy extents and coloured BS5837:2012 tree quality category as shown below.
- Woodland with numbered reference. Canopy extents and coloured BS5837:2012 tree quality category as shown below.
- Tree Quality Categories - Table 1
- Category A - High quality
- Category B - Moderate quality
- Category C - Low quality
- Category U - Unsuitable for retention
- Tree Hedge identified with satellite imagery where access permission for surveys has not been granted. No survey data has been collected.
- Precautious Flood Protection Area (RPA) Added to un-surveyed trees, preliminary 15m RPA added as preventative buffer
- Scrub group with numbered reference. Extents as shown.
- Hedge identified as 'important' during ecology surveys (refer to ecology report)
- Root protection area (RPA) Calculated in accordance with Section 4.4 - BS5837:2012
- Tree protected by Tree Preservation Order - Fylde Borough Council and South Ribbles Borough Councils. GIS Databases provided by respective Councils. Location data only.
- Veteran tree buffer (15 x stem Ø) (as per standing advice produced by Natural Resource Wales)
- Arboricultural BRAC Assessment**
 Based on quantitative and professional assessment. The ranking is defined as:
 Black: Significant arboreal asset within development.
 Red: High potential to constrain development.
 Amber: Moderate potential to constrain development.
 Green: Low potential to constrain development.
- Cable Crossing Technique**
 Trenched
 Trenchless
- Trenchless technique employed**
 No arboricultural impact / harm. No tree or woodland loss. Area of trenchless cable route as defined by client.
 Traditional trench technique to be employed. Preferred trenching location indicated, to avoid high or moderate arboricultural asset.
- Construction access tracks / permanent substation access.**
 Temporary construction compound.
 Permanent substation area.
 Temporary substation area.
- Temporary protective fencing in accordance with Section 6.2 - BS5837:2012. See example, also shown within supporting report.
- Temporary visual warning barrier. See example detail, also shown within supporting report.
- Tree with numbered reference requiring removal to facilitate development (assumed loss).



Drawing Number:
 JSL4847_741

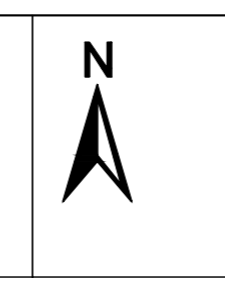
VER	DATE	DETAILS	BY	CHECK
01	June/24	Comment	JB	DC
02	Aug/24	Issue	JB	DC

Project Name:
 Morgan and Morecambe Offshore Wind Farms:
 Transmission Assets

Drawing Title:
 Tree and Hedgerow Protection Plan

Scale
 Scale@A0: 1:1000

Geodetic Information:
 Datum: ETRS 1989
 Projection: British National Grid

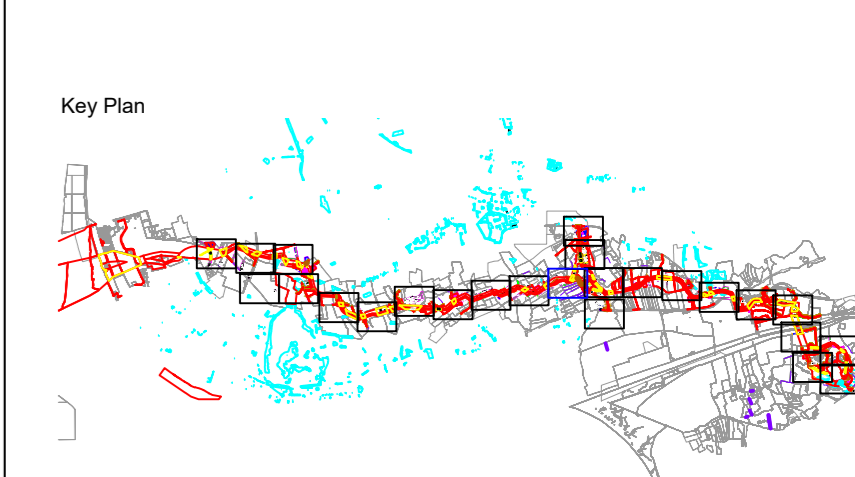


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02	Aug/24	Issue	JB	DC

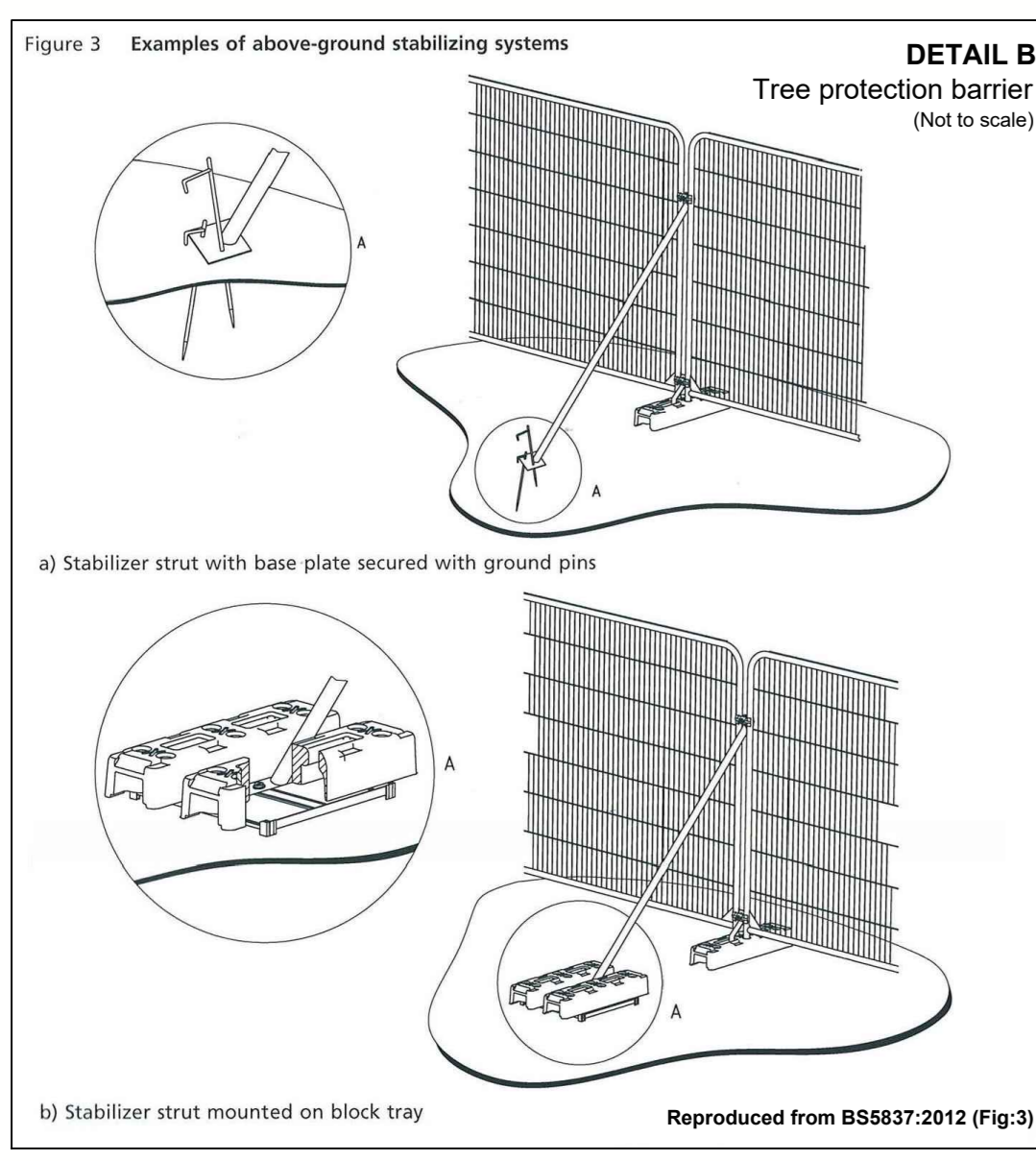
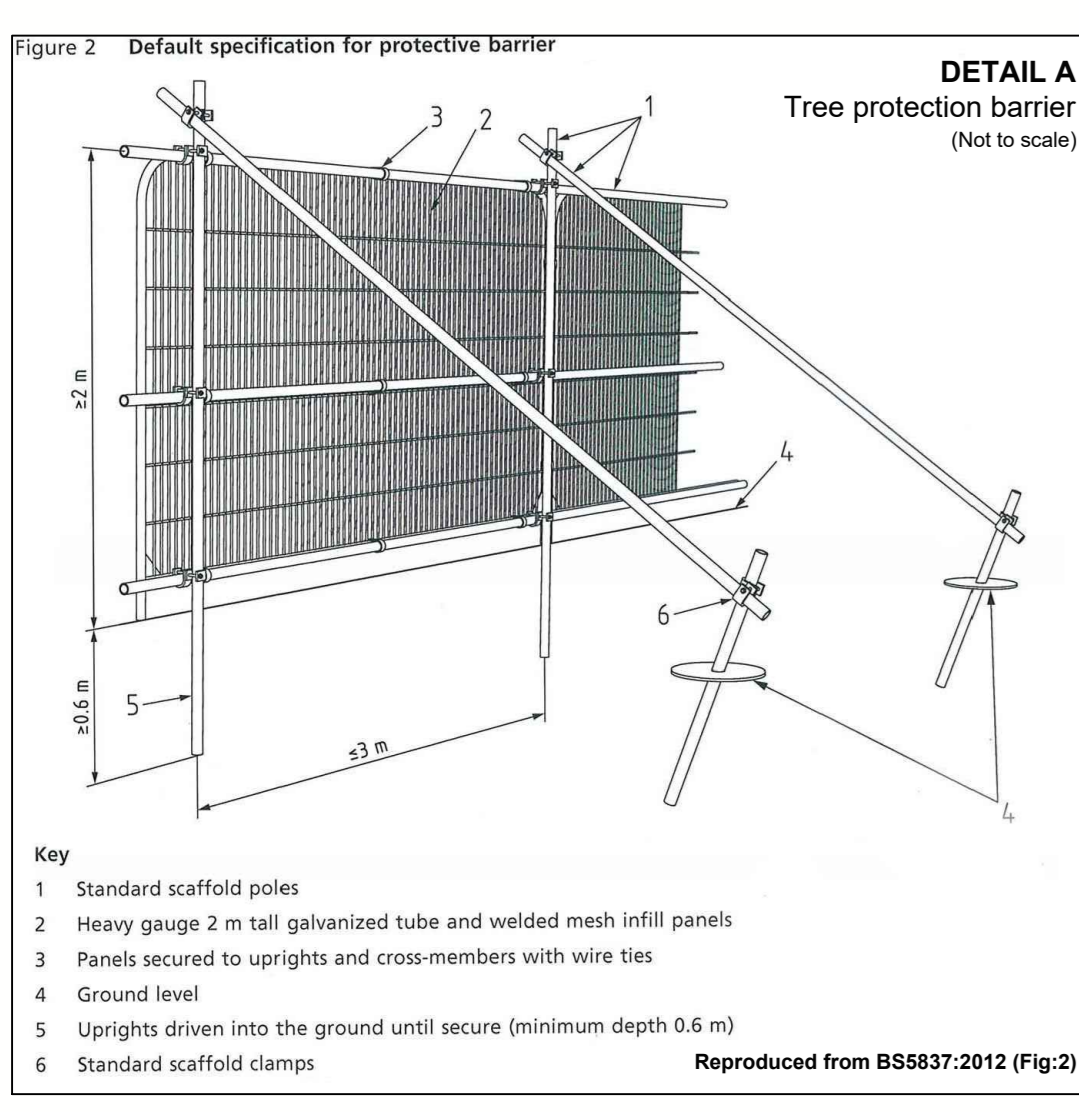
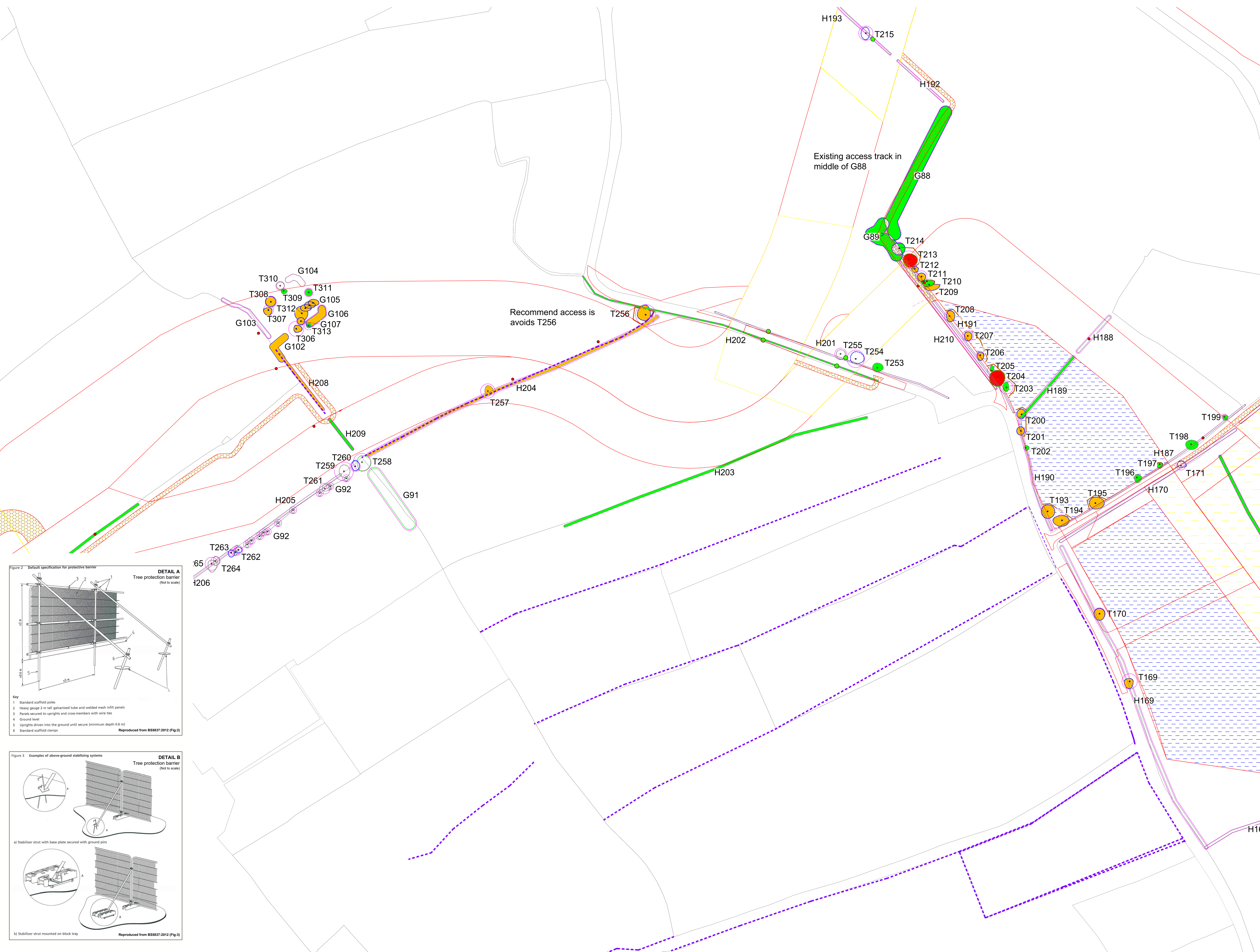
LEGEND

- Outline Development Area (AO)_RPS_0148_000_A011
- Tree with numbered reference. Canopy spread and coloured BS5837:2012 tree quality category as shown below. # = Tree details estimate (accessible tree) = Tree in off site location
- Vegetation group with numbered reference. Canopy extent and coloured BS5837:2012 tree quality category as shown below.
- Hedge with numbered reference. Canopy extent and coloured BS5837:2012 tree quality category as shown below.
- Woodland with numbered reference. Canopy extent and coloured BS5837:2012 tree quality category as shown below.
- BS 5837:2012 Tree Quality Categories - Table 1
 • Category A - High quality
 • Category B - Moderate quality
 • Category C - Low quality
 • Category U - Unavailable for retention
- Tree/Hedge identified with satellite imagery where access permission for survey has not been granted. No survey data has been collected.
- Precalculation Root Protection Area (RPA) added to un-surveyed trees. Preliminary 15m RPA added as preventative buffer.
- Scrub group with numbered reference. Extents as shown.
- Hedge identified as 'important' during ecology surveys (refer to ecology report)
- Root protection area (RPA) Calculated in accordance with Section 4.6 - BS5837:2012
- Tree protected by Tree Preservation Order - Fylde Borough Council and South Ribbles Borough Council. GIS Datasets provided by respective Councils. Location data only.
- Vulnerable tree buffer (15 x stem Ø) (as per standing advice produced by Natural Resource Wales)
- Arboricultural BRAG Assessment Based on quantitative and professional assessment. The ranking is defined as:
 • Black: Significant arboreal asset with development.
 • Red: High potential to constrain development.
 • Amber: Moderate potential to constrain development.
 • Green: Low potential to constrain development
- Cable Crossing Technique
 • Trenched
 • Trenchless
- Trenchless technique employed. No arboricultural impact / harm. No tree or woodland loss. Area of trenchless cable route as defined by client.
 Traditional trench technique to be employed. Preferred trenching location indicated, to avoid high or moderate arboricultural asset.
- Construction access tracks/ permanent substitution access.
- Temporary construction compound.
- Permanent substitution area.
- Temporary substitution area.
- Temporary protective fencing in accordance with Section 6.2 - BS5837:2012. See example, also shown within supporting report.
- Temporary visual warning barrier. See example detail, also shown within supporting report.
- Tree with numbered reference requiring removal to facilitate development (assumed loss).



Drawing Number:
 JSL4847_742

VER	DATE	DETAILS	BY	CHECK
01	June/24	Comment	JB	DC
02	Aug/24	Issue	JB	DC

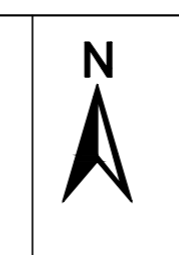


Project Name:
 Morgan and Morecambe Offshore Wind Farms:
 Transmission Assets

Drawing Title:
 Tree and Hedgerow Protection Plan

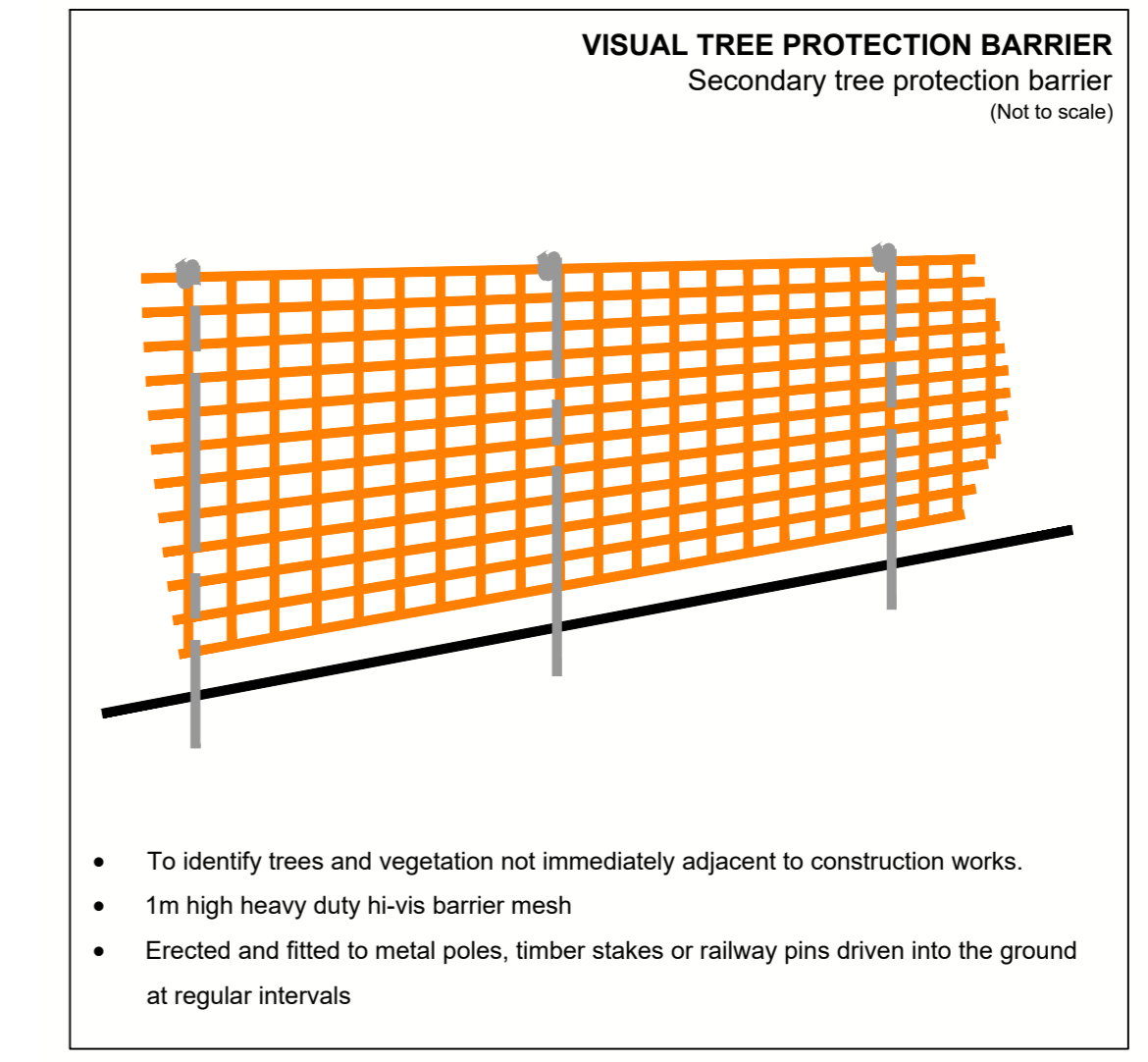
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Geodetic Information:
 Datum: ETRS 1989
 Projection: British National Grid



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LEGEND

- Orange Development Area (see PLP_04_1402_000_A01.1)
- Tree with numbered reference. Canopy spread and coloured B55837:2012 tree quality category as shown below. # = Tree details estimate (inaccessible tree) = Tree in off site location
- Vegetation group with numbered reference. Canopy extents and coloured B55837:2012 tree quality category as shown below.
- Hedge with numbered reference. Canopy extents and coloured B55837:2012 tree quality category as shown below.
- Woodland with numbered reference. Canopy extents and coloured B55837:2012 tree quality category as shown below.
- Woodland with numbered reference. Canopy extents and coloured B55837:2012 tree quality category as shown below.
- BS 5837:2012 Tree Quality Categories - Table 1
- Category A - High quality
- Category B - Moderate quality
- Category C - Low quality
- Category U - Unsuitable for retention
- Tree Hedge identified with satellite imagery where access permission for surveys has not been granted. No survey data has been collected.
- Precaulatory Root protection area (RPA) Added to un-surveyed trees, preliminary 15m RPA added as preventative buffer
- Scrub group with numbered reference. Extents as shown.
- Hedge identified as 'important' during ecology surveys (refer to ecology report)
- Root protection area (RPA) Calculated in accordance with Section 4.6 - BS5837:2012
- Tree protected by Tree Preservation Order - Fylde Borough Council and South Ribbles Borough Council. GIS Datasets provided by respective Councils. Location data only.
- Vegetation tree buffer (15 x stem Ø) (as per standing advice produced by Natural Resource Wales)

- Arboricultural BRAG Assessment**
 Based on quantitative and professional assessment. The ranking is defined as:
- Black: Significant arboreal asset within development.
 - Red: High potential to constrain development.
 - Amber: Moderate potential to constrain development.
 - Green: Low potential to constrain development

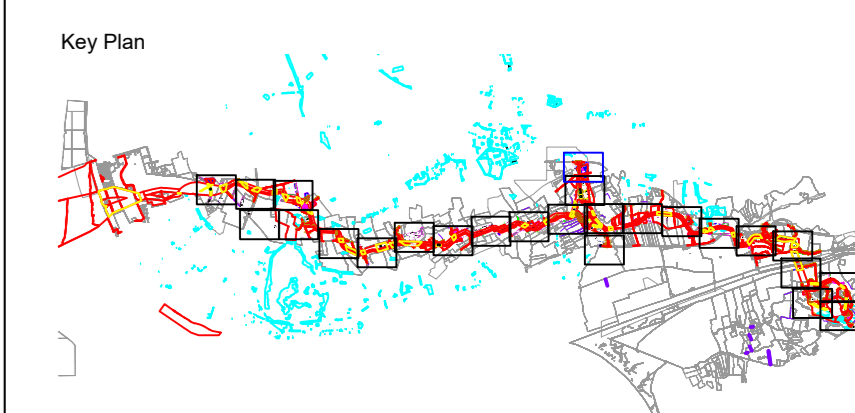
- Cable Crossing Technique**
- Trenched
 - Trenchless

- Trenchless technique employed. No arboricultural impact / harm. No tree or woodland loss. Area of trenchless cable route as defined by client.
- Traditional trench technique to be employed. Preferred trenching location indicated, to avoid high or moderate arboricultural asset.

- Construction access tracks/ permanent substation access.
- Temporary construction compound.
- Permanent substation area.
- Temporary substation area.
- Temporary protective fencing in accordance with Section 6.2 - BS5837:2012. See example, also shown within supporting report.
- Temporary visual warning barrier. See example detail, also shown within supporting report.
- Tree with numbered reference requiring removal to facilitate development (assumed loss).

NOTES:

- Refer to RPS Tree Survey & Arboricultural Impact Assessment Report for further details.
- Survey based on a visual inspection from the ground and is not intended as a full arboricultural inspection.
- Plan produced in accordance with recommendations set out in BS 5837:2012 - "Trees in Relation to Design, Demolition and Construction".
- Due to the legal jurisdiction afforded to treeing work, vegetation removal should not take place during the bird nesting period, generally although not restricted to, March - August inclusive.
- Survey based upon aerial photography, therefore tree locations should be deemed as approximate, and not digitally accurate.
- Provisional vehicle emergency access routes to be maintained at all times.
- Arboricultural fencing to be completed and approved by LPA / C/A prior to commencement of any site works.
- All works to conform with requirements of BS 5837:2012 - Tree Work.
- BS 5837:2012 - Trees in relation to design, demolition and construction.
- AUGCP - Guidelines for Utility Services in Proximity to Trees



Drawing Number:
 JSL4847_743

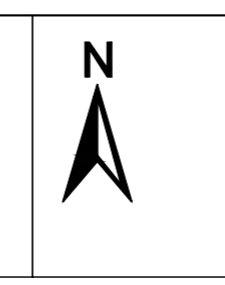
VER	DATE	DETAILS	BY	CHECK
01	June/24	Comment	JB	DC
02	Aug/24	Issue	JB	DC

Project Name:
 Morgan and Morecambe Offshore Wind Farms:
 Transmission Assets

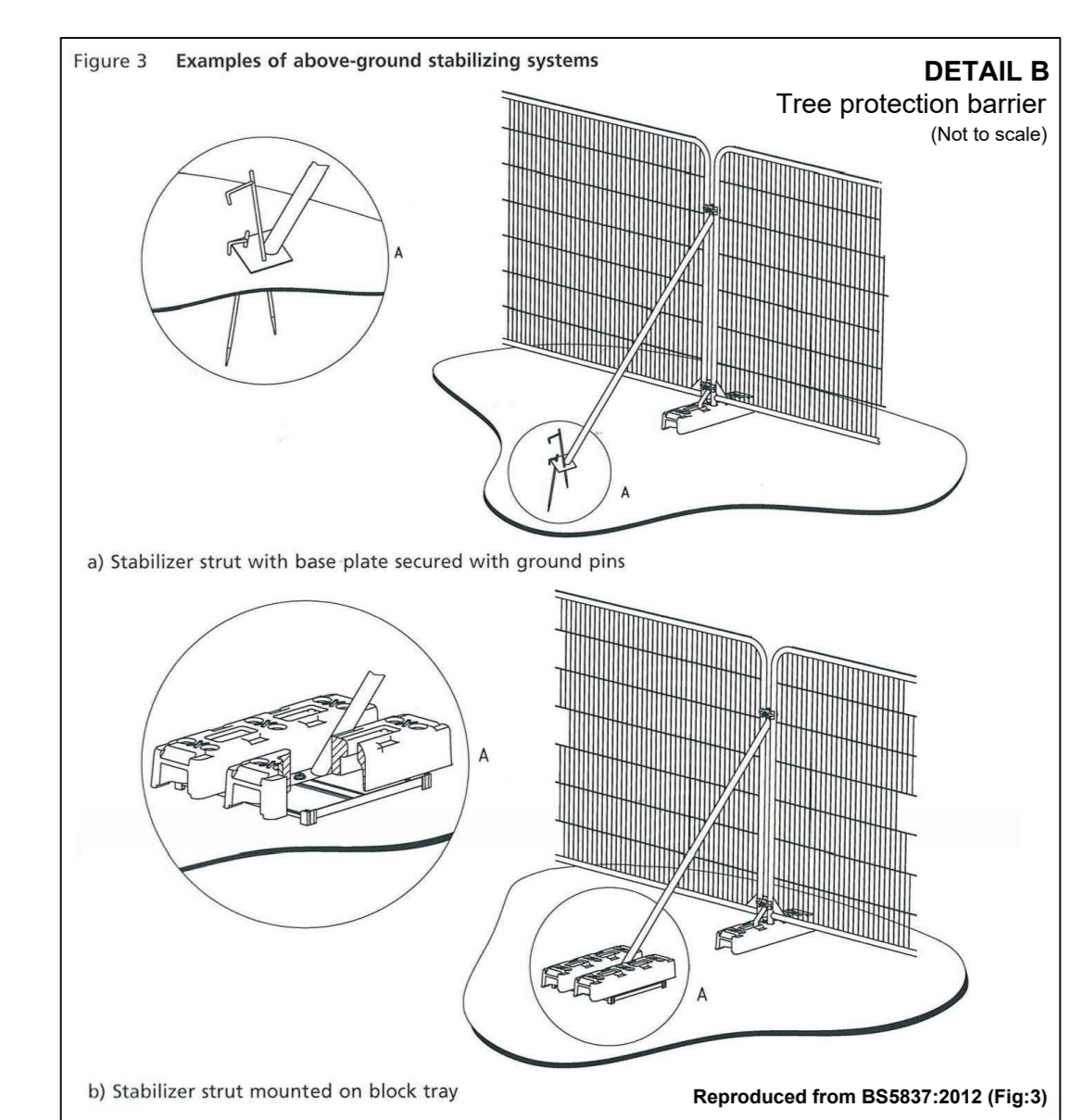
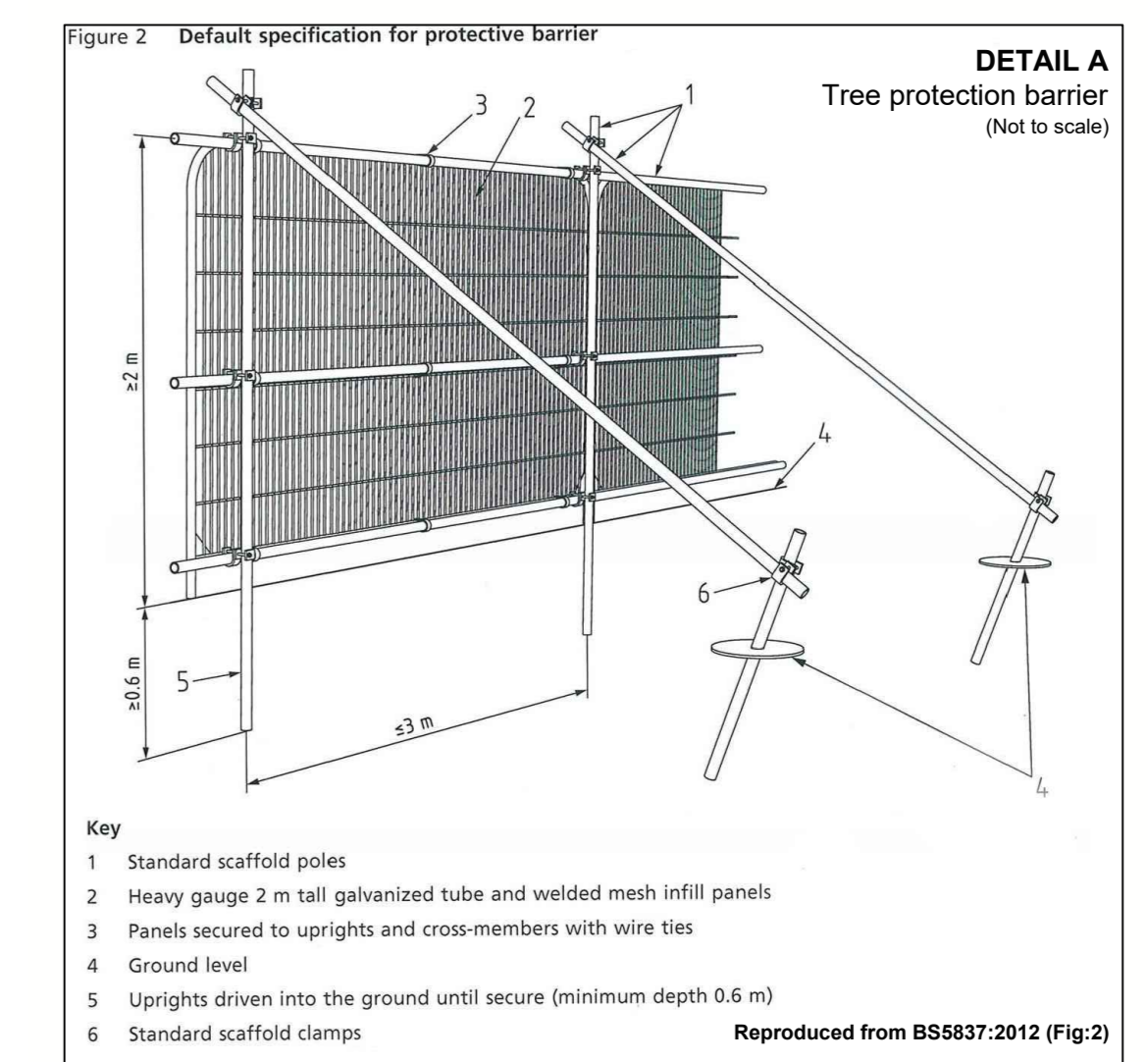
Drawing Title:
 Tree and Hedgerow Protection Plan

Scale
 Scale@A0: 1:1000

Geodetic Information:
 Datum: ETRS 1989
 Projection: British National Grid



Service Layer Credits: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

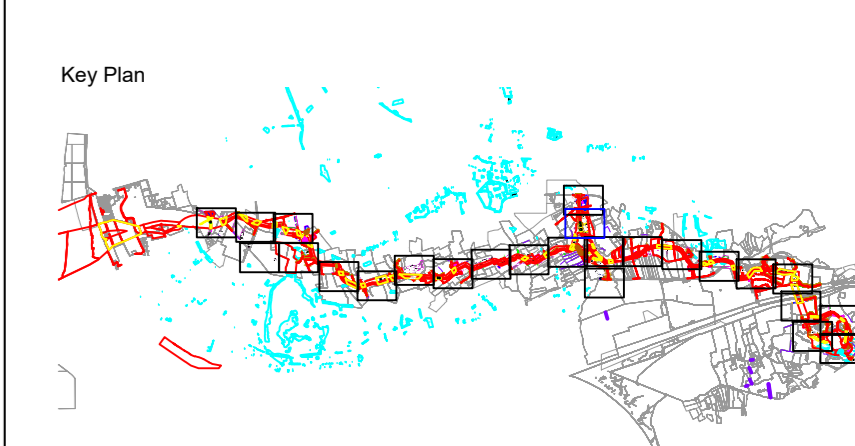


LEGEND

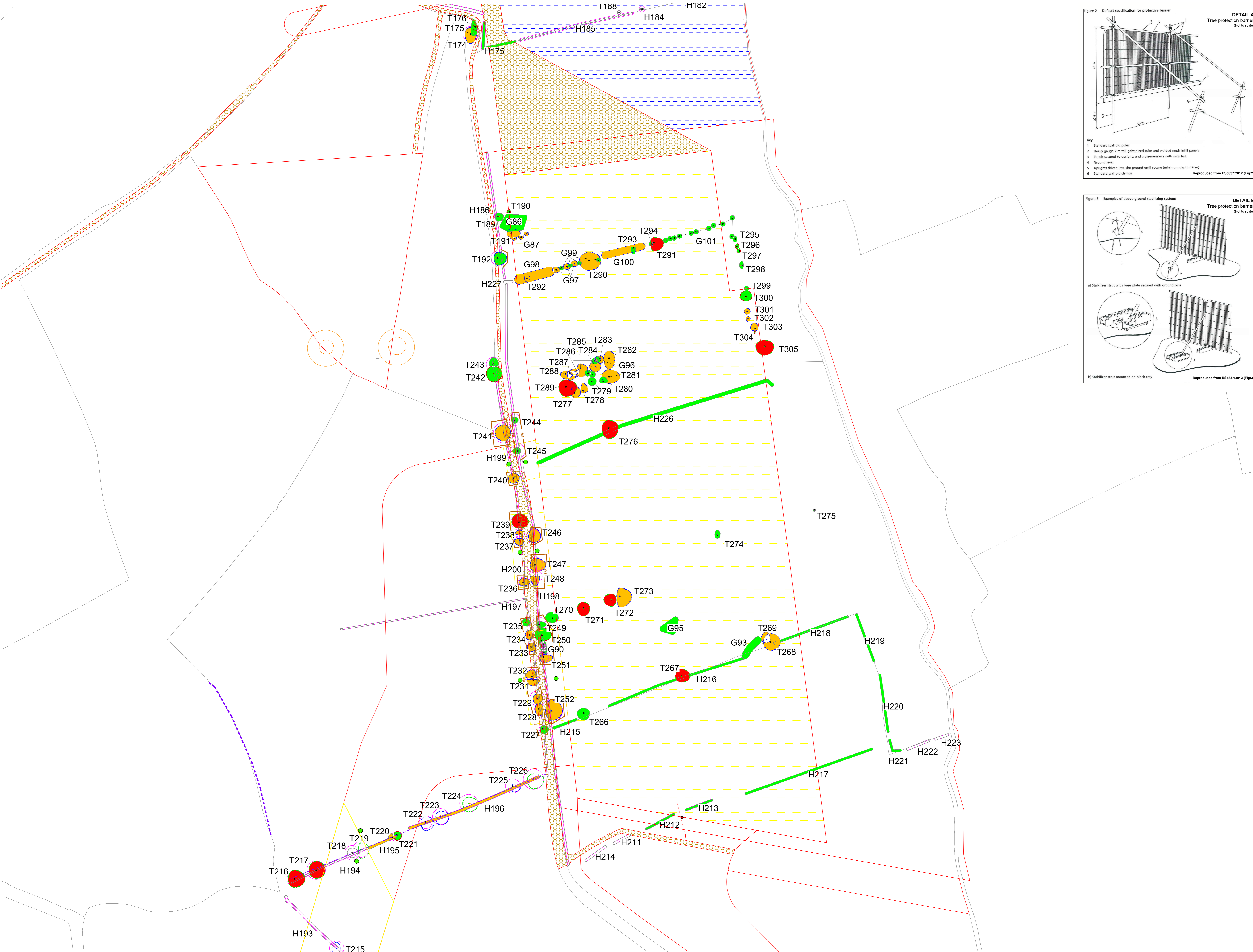
- Orchard Development Area (AOI, RPL, RP, RPL, DCO, Dev1)
- Tree with numbered reference. Canopy spread and coloured BS5837:2012 tree quality category as shown below. # = Tree details estimate (inaccessible tree)
- Tree in off site location
- Vegetation group with numbered reference. Canopy extent and coloured BS5837:2012 tree quality category as shown below.
- Hedge with numbered reference. Canopy extent and coloured BS5837:2012 tree quality category as shown below.
- Woodland with numbered reference. Canopy extent and coloured BS5837:2012 tree quality category as shown below.
- Scrub group with numbered reference. Extents as shown.
- Hedge identified as 'important' during ecology surveys (refer to ecology report)
- Root protection area (RPA). Calculated in accordance with Section 4.6 - BS5837:2012
- Tree protected by Tree Preservation Order - Fylde Borough Council and South Ribbles Borough Council. GIS Datasets provided by respective Councils. Location data only.
- Vulnerable tree buffer (15 x stem Ø) (as per standing advice produced by Natural Resource Wales)
- Arboricultural BRAG Assessment. Based on quantitative and professional assessment. The ranking is defined as:
 - Black: Significant arboreal asset within development.
 - Red: High potential to constrain development.
 - Amber: Moderate potential to constrain development.
 - Green: Low potential to constrain development.
- Cable Crossing Technique
 - Trenched
 - Trenchless
- Trenchless technique employed. No arboricultural impact / harm. No tree or woodland loss. Area of trenchless cable route as defined by client. Traditional trench technique to be employed. Preferred trenching location indicated, to avoid high or moderate arboricultural asset.
- Construction access tracks/ permanent substitution access.
- Temporary construction compound.
- Permanent substitution area.
- Temporary substitution area.
- Temporary protective fencing in accordance with Section 6.2 - BS5837:2012. See example, also shown within supporting report.
- Temporary visual warning barrier. See example detail, also shown within supporting report.
- Tree with numbered reference requiring removal to facilitate development (assumed case).

NOTES:

- Refer to RPS Tree Survey & Arboricultural Impact Assessment Report for further details.
- Survey based on a visual inspection from the ground and is not intended as a full arboricultural inspection.
- Plan produced in accordance with recommendations set out in BS 5837:2012, "Trees in Relation to design, demolition and construction".
- Due to the legal protection afforded to breeding birds, vegetation removal should not take place during the bird nesting period, generally although not restricted to, March - August inclusive.
- Survey based upon aerial photography, therefore tree locations should be deemed as approximate, and not digitally accurate.
- Pedestrian/vehicular emergency access routes to be maintained at all times.
- All protective fencing to be completed and approved by LPA / CPA prior to commencement of site works.
- All works to conform with requirements of:
 - BS 5838:2012 - Tree reserves
 - BS 5837:2012 - Trees in relation to design, demolition and construction
 - NLSG4 - Guidelines for Utility Services in Proximity to Trees



Drawing Number:
JSL4847_744



Project Name:
 Morgan and Morecambe Offshore Wind Farms:
 Transmission Assets

Drawing Title:
 Tree and Hedgerow Protection Plan

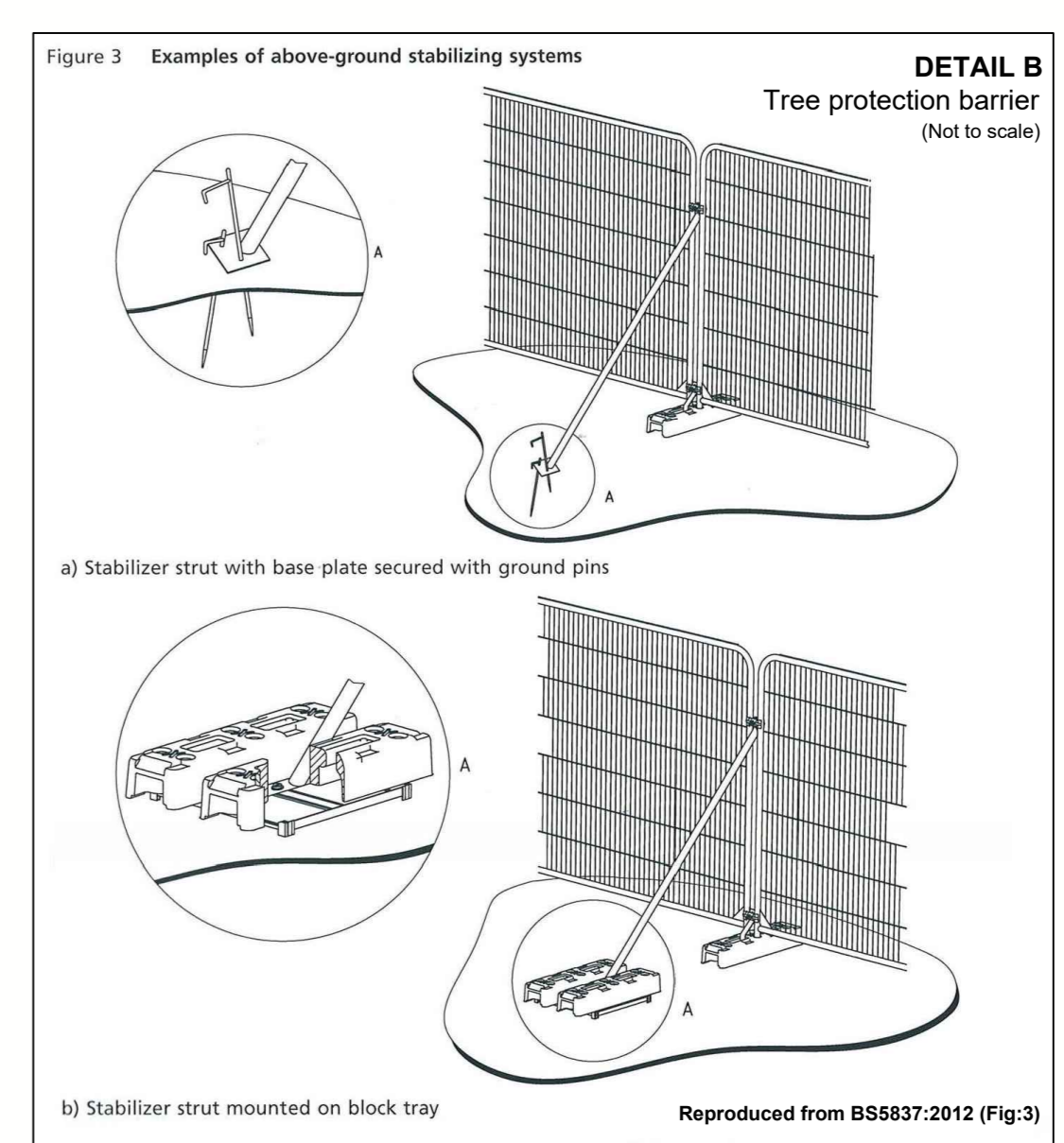
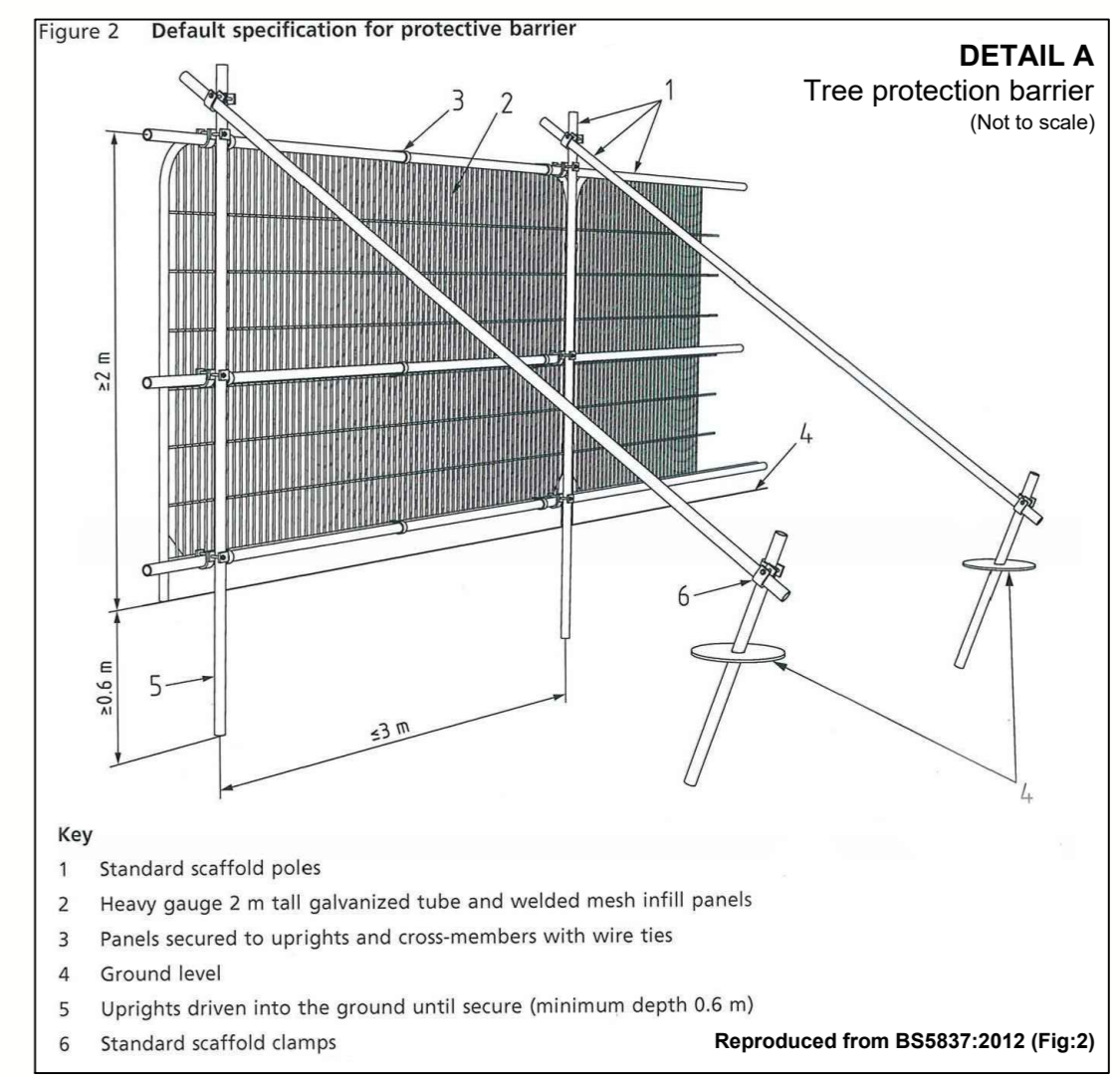
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Geodetic Information:
 Datum: ETRS 1989
 Projection: British National Grid



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VER	DATE	DETAILS	BY	CHECK
01	June/24	Comment	JB	DC
02	Aug/24	Issue	JB	DC



LEGEND

- Orange Development Area (AWP_MU_BP_19C_001_Mer1)
- Tree with numbered reference. Canopy spread and coloured BS5837:2012 tree quality category as shown below.
- Vegetation group with numbered reference. Canopy extents and coloured BS5837:2012 tree quality category as shown below.
- Hedge with numbered reference. Canopy extents and coloured BS5837:2012 tree quality category as shown below.
- Woodland with numbered reference. Canopy extents and coloured BS5837:2012 tree quality category as shown below.
- BS 5837:2012 Tree Quality Categories - Table 1
- Category A - High quality
- Category B - Moderate quality
- Category C - Low quality
- Category U - Unstable for retention
- Tree Hedge identified with satellite imagery where access permission for surveys has not been granted. No survey data has been collected.
- Precautious Root Protection Area (RPA) Added to un-surveyed trees, preliminary 15m RPA added as preventative buffer
- Scrub group with numbered reference. Extents as shown.
- Hedge identified as 'important' during ecology surveys (refer to ecology report)
- Root protection area (RPA) Calculated in accordance with Section 6.2 - BS5837:2012
- Tree protected by Tree Preservation Order - Fylde Borough Council and South Ribbles Borough Council. GIS Datasets provided by respective Councils. Location data only.
- 15m tree buffer (15 x stem Ø) (as per standing advice produced by Natural Resource Wales)

Arboricultural BRAG Assessment
 Based on quantitative and professional assessment. The ranking is defined as:

- Black: Significant arboreal asset within development.
- Red: High potential to constrain development.
- Amber: Moderate potential to constrain development.
- Green: Low potential to constrain development.

- Cable Crossing Technique**
- Trenched
 - Trenchless

Trenchless technique employed
 No arboricultural impact / harm. No tree or woodland loss.
 Area of trenchless cable route as defined by client.
 Traditional trench technique to be employed
 Preferred trenching location indicated, to avoid high or moderate arboricultural asset.

- Construction access track permanent substation access.
- Temporary construction compound.
- Permanent substation area.
- Temporary substation area.
- Temporary protective fencing in accordance with Section 6.2 - BS5837:2012. See example, also shown within supporting report.
- Temporary visual warning barrier. See example detail, also shown within supporting report.
- Tree with numbered reference requiring removal to facilitate development (assumed loss).

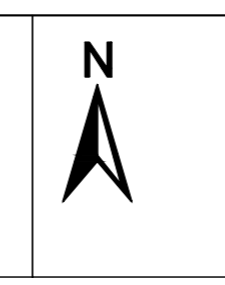
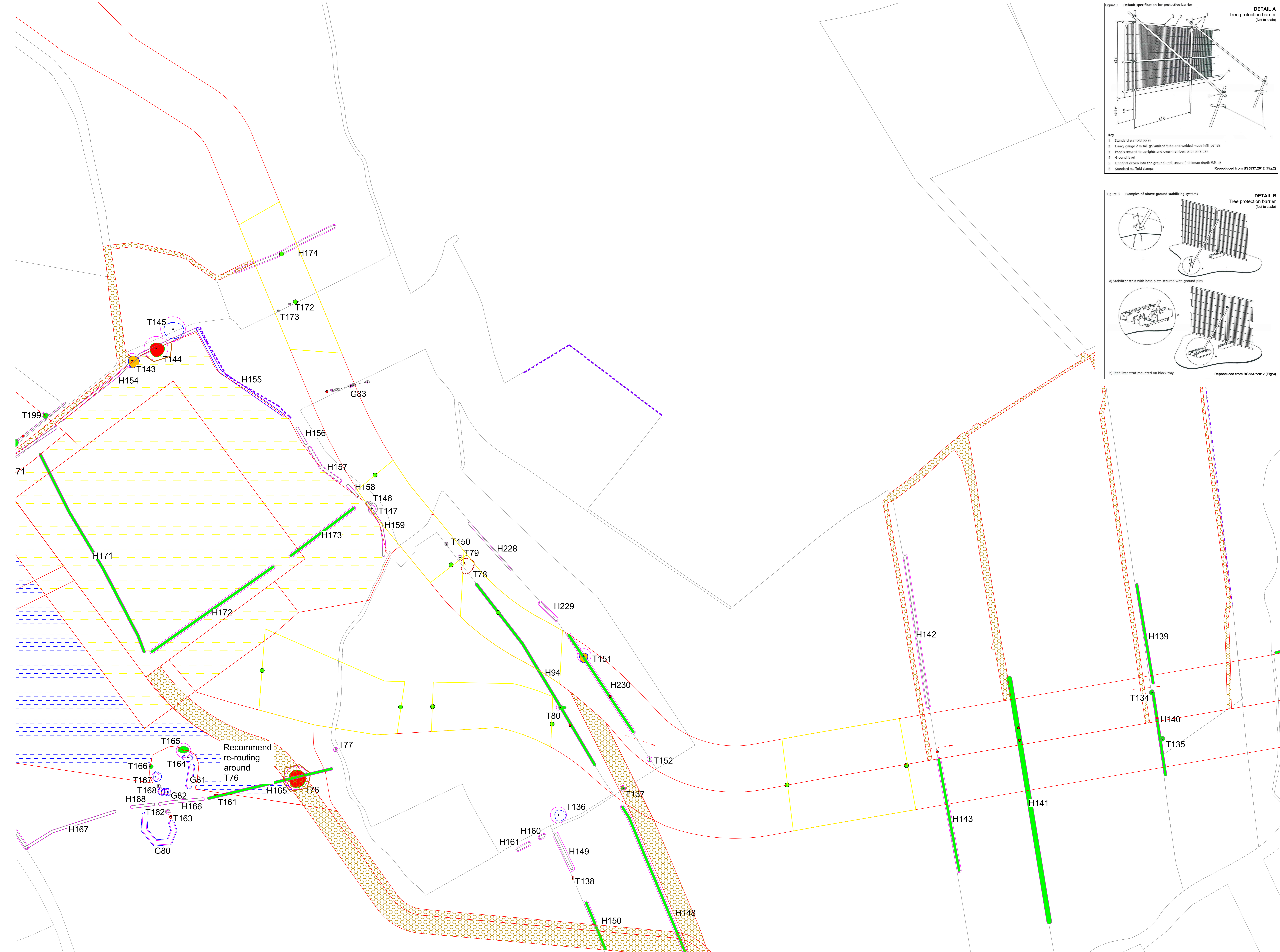
NOTES:

- Refer to RPS Tree Survey & Arboricultural Impact Assessment Report for further details.
- Survey based on a visual inspection from the ground and is not intended as a full arboricultural inspection.
- Plan produced in accordance with recommendations set out in BS 5837:2012 - 'Trees in Relation to Design, Demolition and Construction'.
- Due to the legal jurisdiction afforded to breeding birds vegetation removal should not take place during the bird nesting period, generally although not restricted to March - August inclusive.
- Survey based upon aerial photography, therefore tree locations should be deemed as approximate, and not digitally accurate.
- Prohibitive vehicle emergency access routes to be maintained at all times.
- Arboriculture fencing to be completed and approved by LPA / CA prior to commencement of any site works.
- All works to conform with requirements of:
 - BS 5837:2012 - 'Trees in Relation to Design, Demolition and Construction'
 - BS 5837:2012 - 'Trees in Relation to Design, Demolition and Construction'
 - NUGO - Guidelines for Utility Services in Priority to Trees

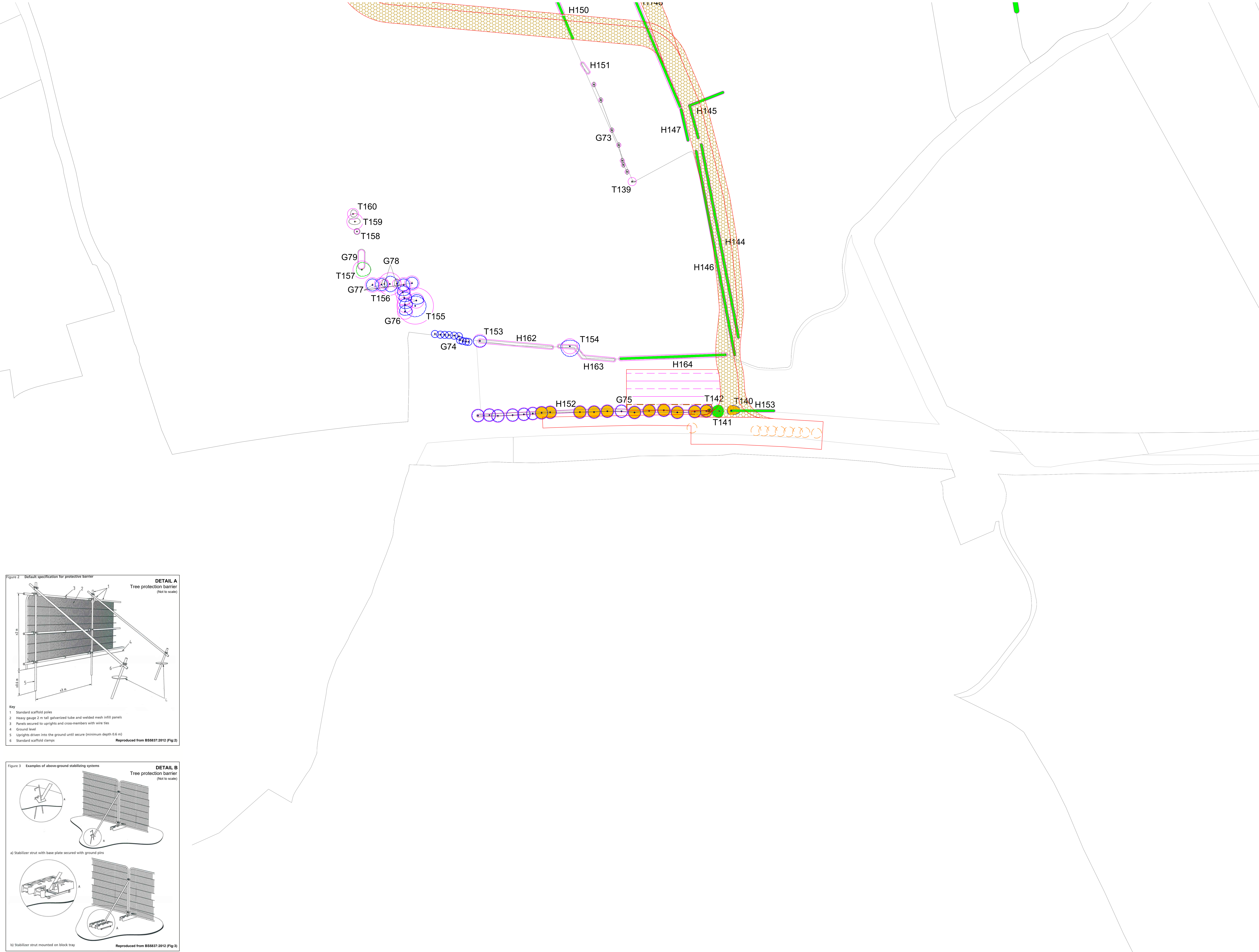


Drawing Number:
JSL4847_745

VER	DATE	DETAILS	BY	CHECK
01	June/24	Comment	JB	DC
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LEGEND

- Outcrop Development Area (No. 21.01.01.000.000.000.000)
- Tree with numbered reference. Canopy spread and coloured BSS5837:2012 tree quality category as shown below.
= Tree details estimate (inaccessible tree)
- Tree in off site location
- Vegetation group with numbered reference. Canopy extents and coloured BSS5837:2012 tree quality category as shown below.
- Hedge with numbered reference. Canopy extents and coloured BSS5837:2012 tree quality category as shown below.
- Woodland with numbered reference. Canopy extents and coloured BSS5837:2012 tree quality category as shown below.
- Tree Quality Categories - Table 1
- Category A - High quality
- Category B - Moderate quality
- Category C - Low quality
- Category U - Unsuitable for retention
- Tree Hedge identified with satellite imagery where access permission for surveys has not been granted. No survey data has been collected.
- Precautionary Root Protection Area (RPA) Added to un-surveyed trees, preliminary (and) RPA added as preventative buffer
- Scrub group with numbered reference. Extents as shown.
- Hedge identified as 'important' during ecology surveys (refer to ecology report)
- Root protection area (RPA) Calculated in accordance with Section 4.6 - BSS5837:2012
- Tree protected by Tree Preservation Order, Fylde Borough Council and South Ribbles Borough Councils. GIS Datastore provided by respective Councils. Location data only.
- 15m tree buffer (15 x stem Ø) (as per standing advice produced by Natural Resource Wales)

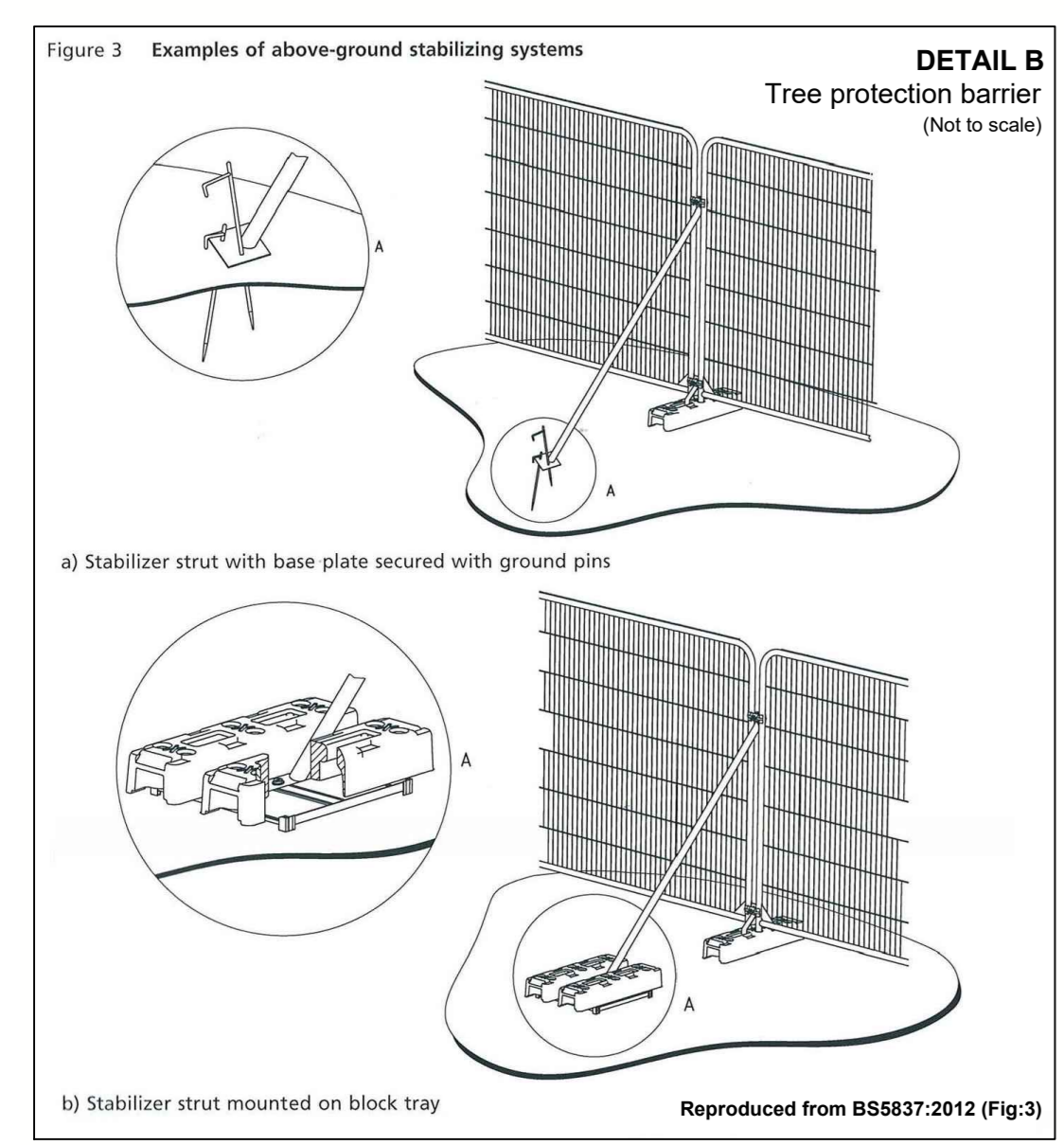
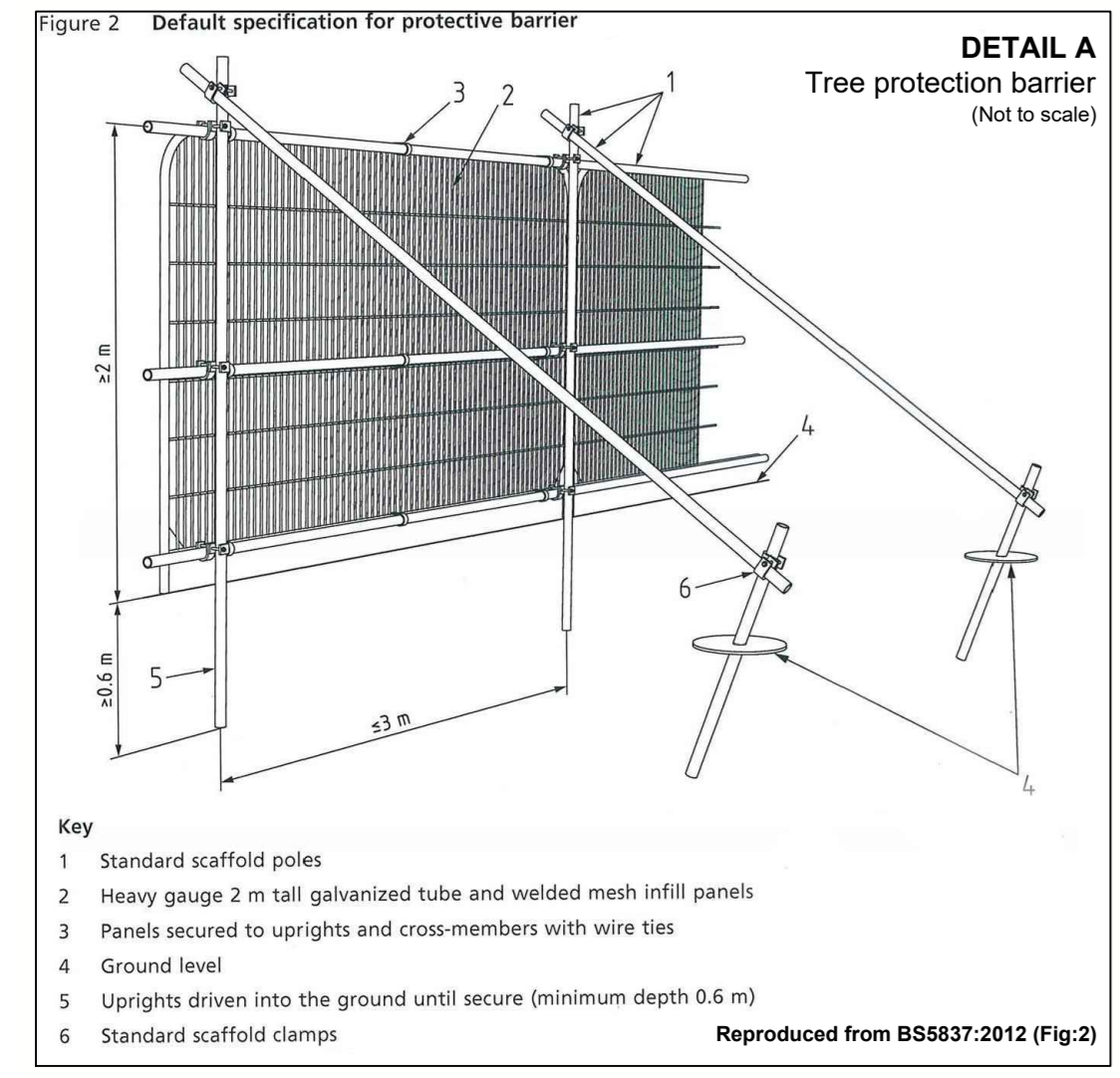
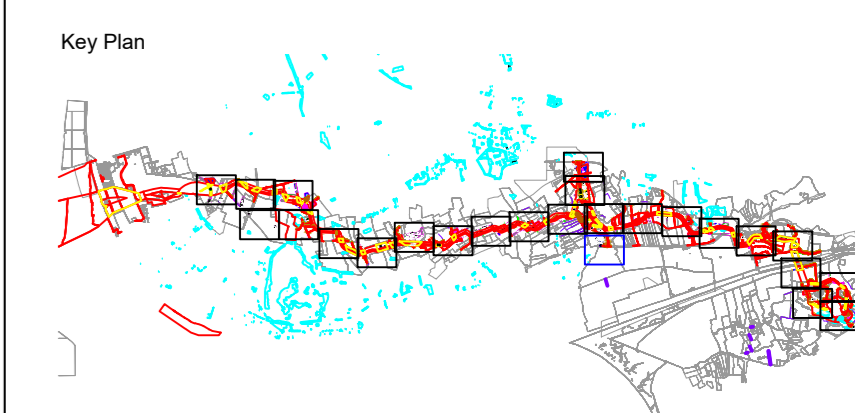
- Arboreal BRAG Assessment**
 Based on quantitative and professional assessment. The ranking is defined as:
- Black: Significant arboreal asset within development.
 - Red: High potential to constrain development.
 - Amber: Moderate potential to constrain development.
 - Green: Low potential to constrain development.

- Cable Crossing Technique**
- Trenched
 - Trenchless

- Trenchless technique employed**
 No arboricultural impact / harm. No tree or woodland loss.
 Area of trenchless cable route as defined by client.
 Traditional trench technique to be employed Preferred trenching location indicated, to avoid high or moderate arboreal asset.

- Construction access tracks/ permanent substation access.
- Temporary construction compound.
- Permanent substation area.
- Temporary substation area.
- Temporary protective fencing in accordance with Section 6.2 - BSS5837:2012. See example, also shown within supporting report.
- Temporary visual warning barrier. See example detail, also shown within supporting report.
- Tree with numbered reference requiring removal to facilitate development (assumed loss).

- NOTES**
- Refer to RPS Tree Survey & Arboreal Impact Assessment Report for further details.
 - Survey based on a visual inspection from the ground and is not intended as a full arboricultural inspection.
 - Plans produced in accordance with recommendations set out in BS 5837:2012 - "Trees in Relation to Design, Demolition and Construction".
 - Due to the legal protection afforded to breeding birds vegetation removal should not take place during the bird nesting period, generally although not restricted to March - August inclusive.
 - Survey based upon aerial photography, therefore tree locations should be determined as approximate, and not digitally accurate.
 - Pedestrian/vehicle emergency access routes to be maintained at all times.
 - All protective fencing to be completed and approved by LPA / CA prior to commencement of any site works.
 - All works to conform with requirements of BS 5837:2012 - Tree Works BS 5837:2012 - Tree in relation to design, demolition and construction. Guidelines for Utility Services in Proximity to Trees



Project Name:
 Morgan and Morecambe Offshore Wind Farms:
 Transmission Assets

Drawing Title:
 Tree and Hedgerow Protection Plan

Scale
 Scale@A0: 1:1000

Geodetic Information:
 Datum: ETRS 1989
 Projection: British National Grid



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Drawing Number:
 JSL4847_746

VER	DATE	DETAILS	BY	CHECK
01	June/24	Comment	JB	DC
02	Aug/24	Issue	JB	DC



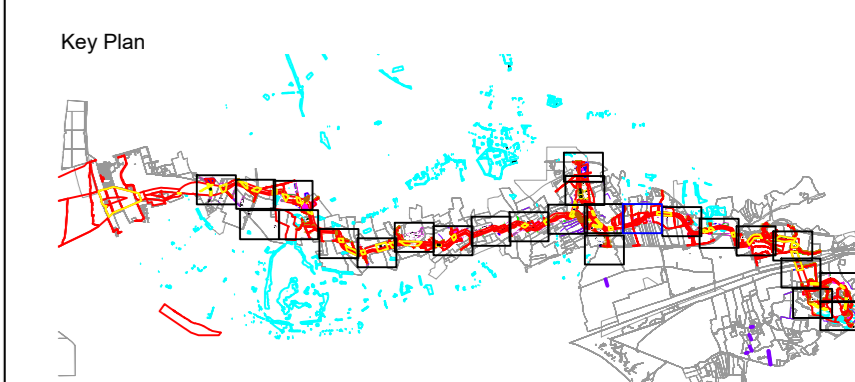
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LEGEND

- Onshore Development Area (AO_P02_SP_2182_000_Au11)
- Tree with numbered reference. Canopy spread and coloured BS5837:2012 tree quality category as shown below.
= Tree details estimate (inaccessible tree)
* = Tree in off site location
- Vegetation group with numbered reference. Canopy extents and coloured BS5837:2012 tree quality category as shown below.
- Hedge with numbered reference. Canopy extents and coloured BS5837:2012 tree quality category as shown below.
- Woodland with numbered reference. Canopy extents and coloured BS5837:2012 tree quality category as shown below.
- BS 5837:2012 Tree Quality Categories - Table 1**
- Category A - High quality
- Category B - Moderate quality
- Category C - Low quality
- Category U - Unsuitable for retention
- Tree/Hedge identified with satellite imagery where access permission for survey has not been granted. No survey data has been collected.
- Preliminary Root Protection Area (RPA) Added to un-surveyed trees, preliminary 15mRPA added as preventative buffer
- Scrub group with numbered reference. Extents as shown.
- Hedge identified as 'important' during ecology surveys (refer to ecology report)
- Root protection area (RPA) Calculated in accordance with Section 4.6 - BS5837:2012
- Tree protected by Tree Preservation Order - Fylde Borough Council and South Ribbles Borough Councils. GIS Datasets provided by respective Councils. Location data only.
- Veteran tree buffer (15 x stem Ø) (as per standing advice produced by Natural Resource Wales)
- Arboricultural BRAG Assessment**
Based on quantitative and professional assessment. The ranking is defined as:
- Black: Significant arboreal asset within development.
- Red: High potential to constrain development.
- Amber: Moderate potential to constrain development.
- Green: Low potential to constrain development
- Cable Crossing Technique**
- Trenched
- Trenchless
- Trenchless technique employed. No arboricultural impact harm. No tree or woodland loss. Area of trenchless cable route as defined by client.
- Traditional trench technique to be employed. Preferred trenching location indicated, to avoid high or moderate arboricultural asset.
- Construction access tracks/permanent substation access.
- Temporary construction compound.
- Permanent substation area.
- Temporary substation area.
- Temporary protective fencing in accordance with Section 6.2 - BS5837:2012. See example, also shown within supporting report.
- Temporary visual warning barrier. See example detail, also shown within supporting report.
- Tree with numbered reference requiring removal to facilitate development (assumed loss).

NOTES:

- Refer to RPS Tree Survey & Arboricultural Impact Assessment Report for further details.
- Survey based on a visual inspection from the ground and is not intended as a full arboricultural inspection.
- Plans produced in accordance with recommendations set out in BS 5837:2012 - 'Trees in Relation to design, demolition and construction'.
- Due to the high precision afforded by modern laser scanning technology, should not take place during the bird nesting period, generally, although not restricted to March - August inclusive.
- Survey based upon aerial photography, therefore tree locations should be checked as appropriate, and not digitally accurate.
- Pedestrian/vehicular emergency access routes to be maintained at all times.
- All protective fencing to be completed and approved by LPA / CA prior to commencement of any site works.
- All works to conform with requirements of:
BS 5837:2012 - 'Tree works'
BS 5837:2012 - 'Trees in relation to design, demolition and construction'
NRSGA - Guidelines for Utility Services in Proximity to Trees



Drawing Number:
JSL4847_747

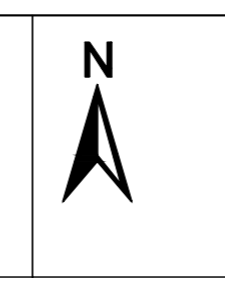
VER	DATE	DETAILS	BY	CHECK
01	June/24	Comment	JB	DC
02	Aug/24	Issue	JB	DC

Project Name:
Morgan and Morecambe Offshore Wind Farms:
Transmission Assets

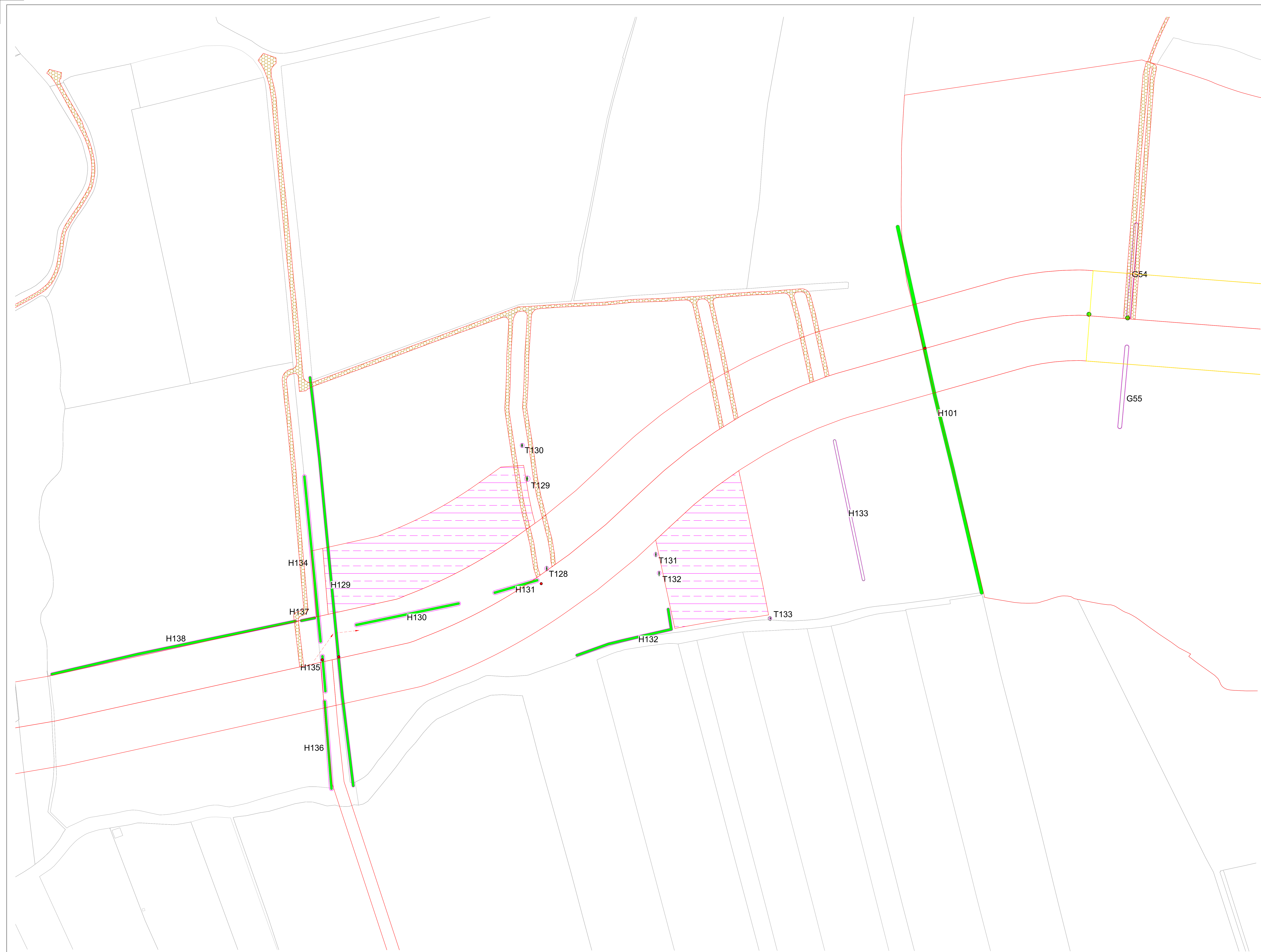
Drawing Title:
Tree and Hedgerow Protection Plan

Scale
Scale@A0: 1:1000

Geodetic Information:
Datum: ETRS 1989
Projection: British National Grid



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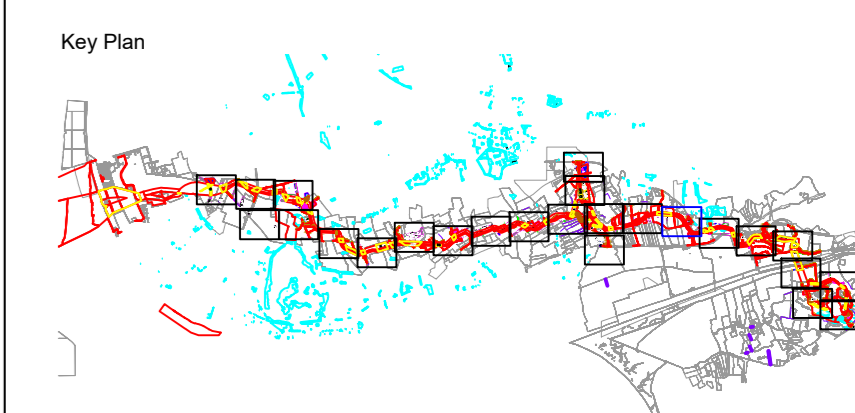
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LEGEND

- Ordnance Development Area (NO, NPL, SP, SHED, SOG, SW11)
- Tree with numbered reference. Canopy spread and coloured BSS5837:2012 tree quality category as shown below.
= Tree details estimate (inaccessible tree)
= Tree in off site location
- Vegetation group with numbered reference. Canopy extents and coloured BSS5837:2012 tree quality category as shown below.
- Hedge with numbered reference. Canopy extents and coloured BSS5837:2012 tree quality category as shown below.
- Woodland with numbered reference. Canopy extents and coloured BSS5837:2012 tree quality category as shown below.
- BS 5837:2012 Tree Quality Categories - Table 1
● Category A - High quality
● Category B - Moderate quality
● Category C - Low quality
● Category U - Unsuitable for retention
- Tree/ Hedge identified with satellite imagery where access permission for surveys has not been granted. No survey data has been collected.
- Precautionary Root Protection Area (RPA) Added to un-surveyed trees, preliminary 15mR RPA added as preventative buffer
- Scrub group with numbered reference. Extents as shown.
- Hedge identified as 'important' during ecology surveys (refer to ecology report)
- Root protection area (RPA) Calculated in accordance with Section 4.6 - BS5837:2012
- Tree protected by Tree Preservation Order - Fylde Borough Council and South Ribbles Borough Councils. GIS Datasets provided by respective Councils. Location data only.
- Veteran tree buffer (15 x stem Ø) (as per standing advice produced by Natural Resource Wales)
- Arboricultural BRAG Assessment**
Based on quantitative and professional assessment. The ranking is defined as:
 Black: Significant arboreal asset within development.
 Red: High potential to constrain development.
 Amber: Moderate potential to constrain development.
 Green: Low potential to constrain development
- Cable Crossing Technique**
 Trenched
 Trenchless
- Trenchless technique employed. No arboricultural impact / harm. No tree or woodland loss. Area of trenchless cable route as defined by client.
 Traditional trench technique to be employed. Preferred trenching location indicated, to avoid high or moderate arboricultural asset.
- Construction access track/ permanent substation access.
- Temporary construction compound.
- Permanent substation area.
- Temporary substation area.
- Temporary protective fencing in accordance with Section 6.2 - BS5837:2012. See example, also shown within supporting report.
- Temporary visual warning barrier. See example detail, also shown within supporting report.
- Tree with numbered reference requiring removal to facilitate development (assumed loss).

NOTES:

- Refer to RPS Tree Survey & Arboricultural Impact Assessment Report for further detail.
- Survey based on a visual inspection from the ground and is not intended as a full arboriculture inspection.
- Plans provided in accordance with recommendations set out in BS 5837:2012 - Trees in Relation to Design, Identification and Construction.
- Due to the high proportion of trees to be removed during the construction period, removal should not take place during the bird nesting periods, generally, although not restricted to March/April/June.
- Survey based upon aerial photography, therefore tree locations should be deemed as approximate, and not digital accurate.
- Pedestrian/vehicular emergency access routes to be maintained at all times.
- All arboriculture works to be completed and approved by LPA, CA prior to commencement of any works.
- All works to conform with requirements of BS 5837:2012 - Tree Works.
- BS 5837:2012 - Trees in relation to design, identification and construction.
- NUGSA - Guidelines for Utility Services in Proximity to Trees.



Drawing Number:
 JSL4847_748

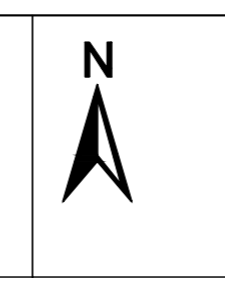
VER	DATE	DETAILS	BY	CHECK
01	June/24	Comment	JB	DC
02	Aug/24	Issue	JB	DC

Project Name:
 Morgan and Morecambe Offshore Wind Farms:
 Transmission Assets

Drawing Title:
 Tree and Hedgerow Protection Plan

Scale
 Scale@A0: 1:1000

Geodetic Information:
 Datum: ETRS 1989
 Projection: British National Grid



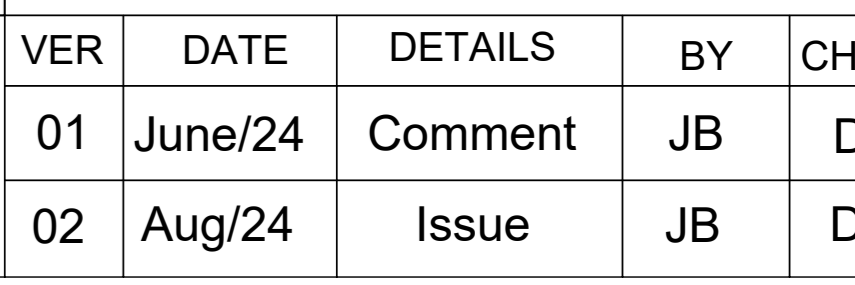
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Project Name:
 Morgan and Morecambe Offshore Wind Farms:
 Transmission Assets

Drawing Title:
 Tree and Hedgerow Protection Plan

Scale
 Scale@A0: 1:1000

Geodetic Information:
 Datum: ETRS 1989
 Projection: British National Grid



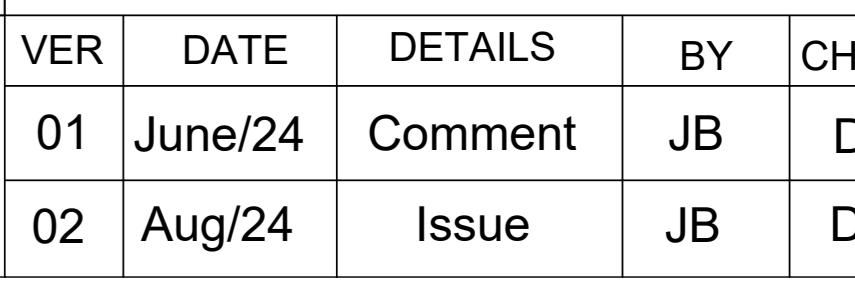
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Project Name:
 Morgan and Morecambe Offshore Wind Farms:
 Transmission Assets

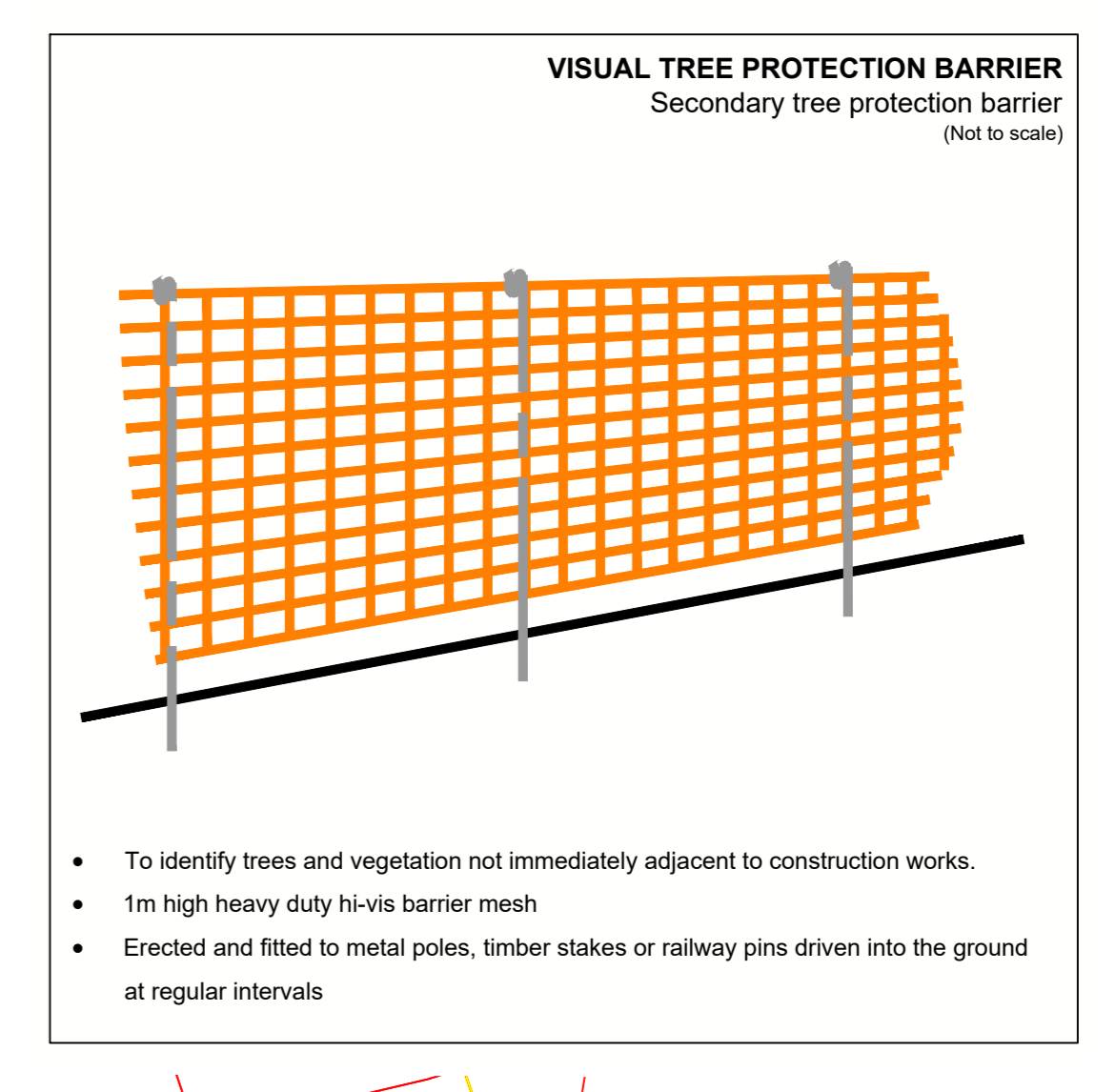
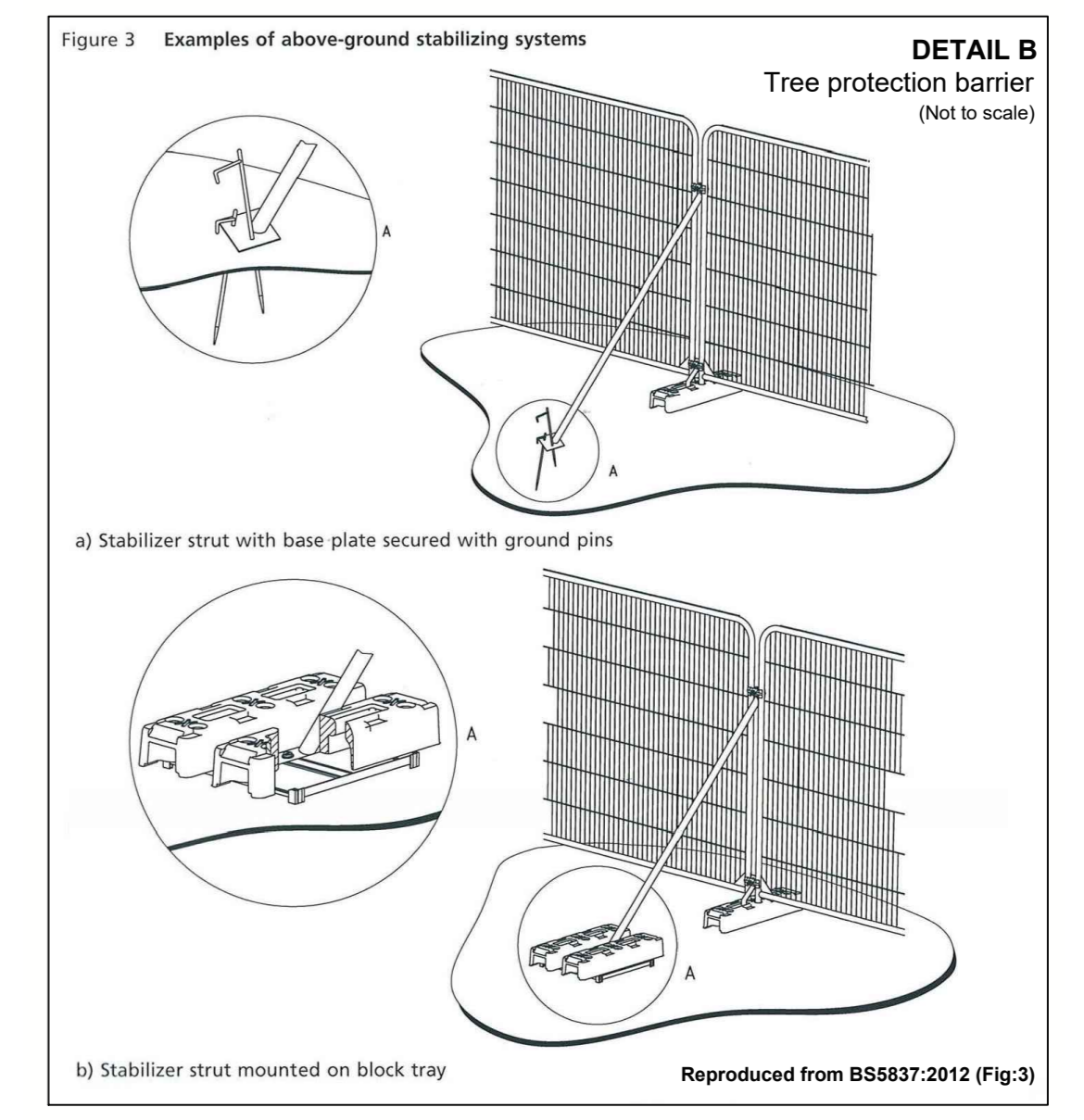
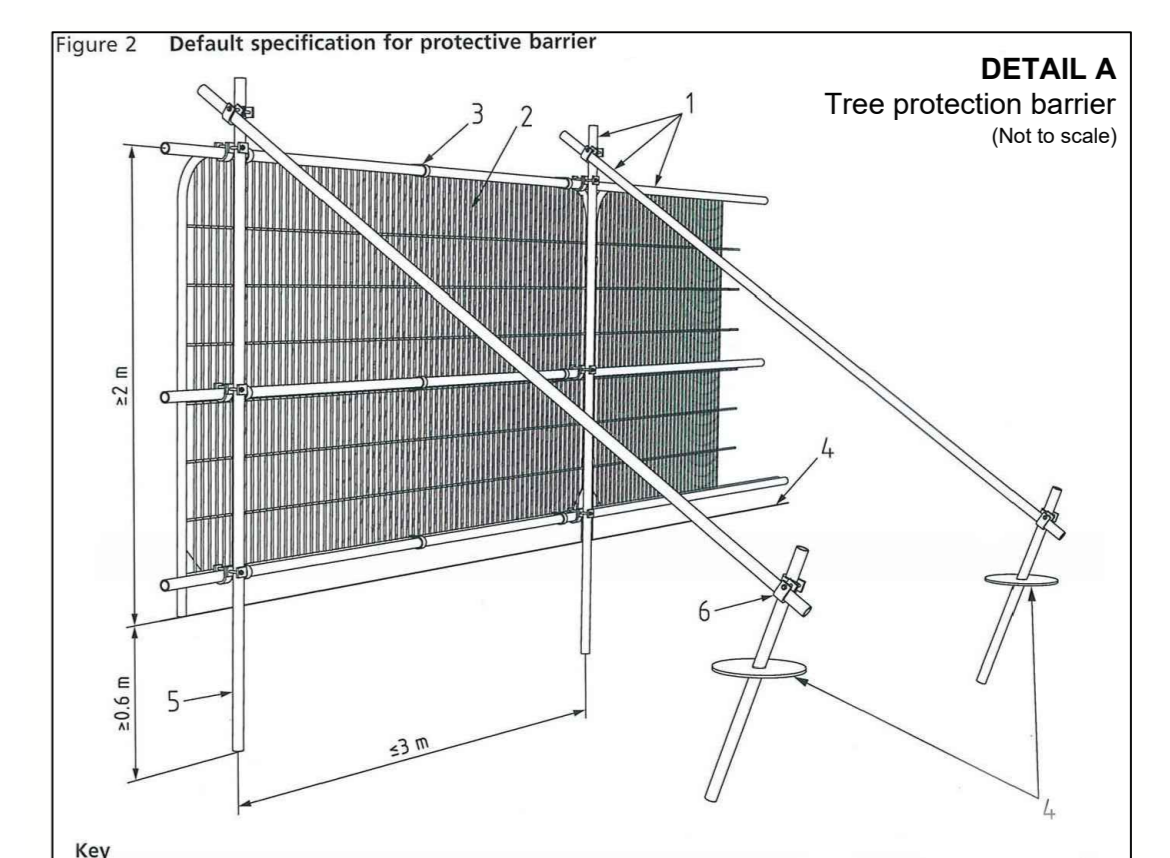
Drawing Title:
 Tree and Hedgerow Protection Plan

Scale
 Scale@A0: 1:1000

Geodetic Information:
 Datum: ETRS 1989
 Projection: British National Grid



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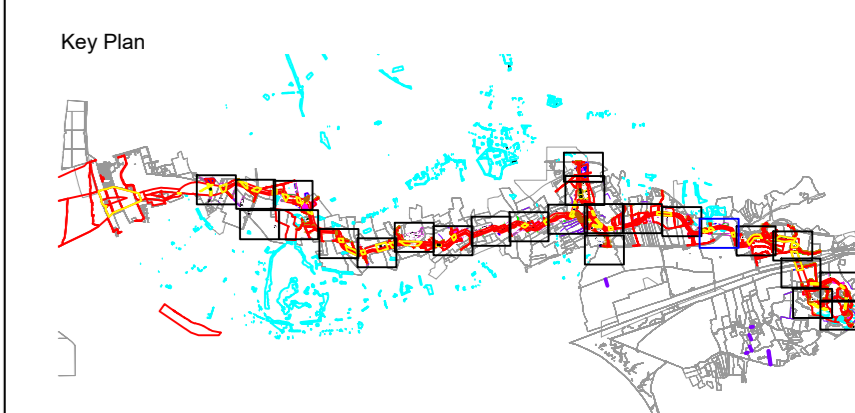


LEGEND

- Ordnance Development Area
- Tree with numbered reference
- Canopy extent and coloured BS5837:2012 tree quality category as shown below
- Tree details estimate (inaccessible tree)
- Tree in off site location
- Vegetation group with numbered reference
- Canopy extent and coloured BS5837:2012 tree quality category as shown below
- Hedge with numbered reference
- Canopy extent and coloured BS5837:2012 tree quality category as shown below
- Woodland with numbered reference
- Canopy extent and coloured BS5837:2012 tree quality category as shown below
- BS 5837:2012 Tree Quality Categories - Table 1
- Category A - High quality
- Category B - Moderate quality
- Category C - Low quality
- Category U - Unsuitable for retention
- Tree/Hedge identified with satellite imagery where access permission for surveys has not been granted. No survey data has been collected.
- Precautionary Root Protection Area (RPA) Added to un-surveyed trees, preliminary (5m) RPA added as preventative buffer
- Scrub group with numbered reference. Extents as shown.
- Hedge identified as 'important' during ecology surveys (refer to ecology report)
- Root protection area (RPA) Calculated in accordance with Section 4.8 - BS5837:2012
- Tree protected by Tree Preservation Order - Fylde Borough Council and South Ribbles Borough Councils. GIS Databases provided by respective Councils. Location data only.
- Veteran tree buffer (15 x stem Ø) as per standing advice produced by Natural Resource Wales)
- Arboricultural BRAG Assessment Based on quantitative and professional assessment. The ranking is defined as:
- Black: Significant arboreal asset within development.
- Red: High potential to constrain development.
- Amber: Moderate potential to constrain development.
- Green: Low potential to constrain development
- Cable Crossing Technique
- Trenched
- Trenchless
- Trenchless technique employed No arboricultural impact / harm. No tree or woodland loss. Area of trenchless cable route as defined by client. Traditional trench technique to be employed Preferred trenching location indicated, to avoid high or moderate arboricultural asset.
- Construction access tracks/ permanent substation access.
- Temporary construction compound.
- Permanent substation area.
- Temporary substation area.
- Temporary protective fencing in accordance with Section 6.2 - BS5837:2012. See example, also shown within supporting report.
- Temporary visual warning barrier. See example detail, also shown within supporting report.
- Tree with numbered reference requiring removal to facilitate development (assumed trees).

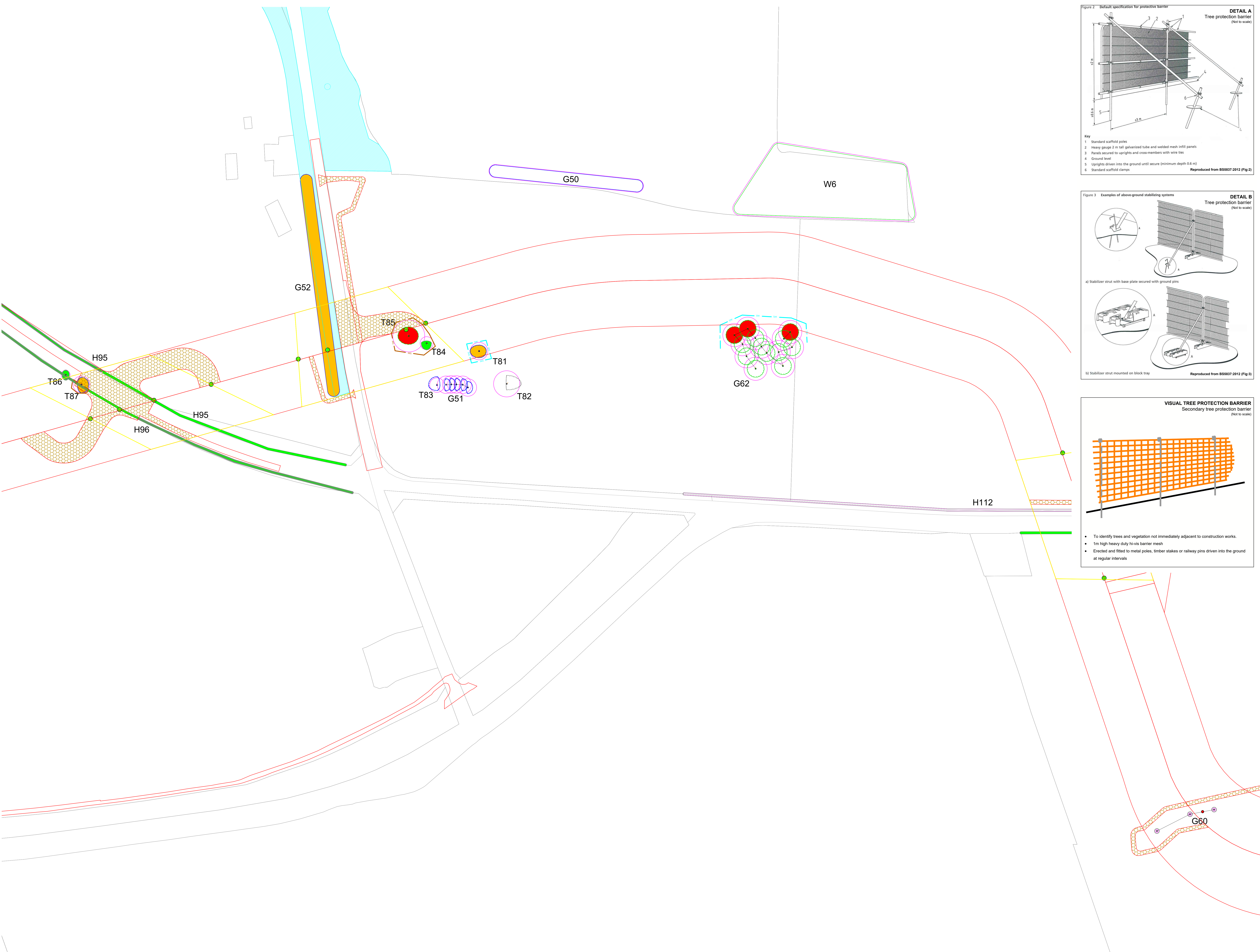
NOTES:

- Refer to RPS Tree Survey & Arboricultural Impact Assessment Report for further details.
- Survey based on a visual inspection from the ground and is not intended as a full arboricultural inspection.
- Plan produced in accordance with recommendations set out in BS 5837:2012. There is flexibility in design, demarcation and construction.
- Due to the legal protection afforded to breeding birds, vegetation removal should not take place during the bird nesting period, generally, although not restricted to, March - August inclusive.
- Survey based upon aerial photography, therefore tree locations should be deemed as approximate, and not digitally accurate.
- Predefined vehicle emergency access routes to be maintained at all times.
- All protective fencing to be completed and approved by LPA / CMA prior to commencement of any site works.
- All works to conform with requirements of BS 2669:2010 - Tree Works BS 5837:2012 - Trees in relation to design, demarcation and construction and BS 5837:2012 - Trees in relation to design, demarcation and construction
- Guidelines for Utility Services in Proximity to Trees



Drawing Number:
 JSL4847_749

VER	DATE	DETAILS	BY	CHECK
01	June/24	Comment	JB	DC
02	Aug/24	Issue	JB	DC



Project Name:
 Morgan and Morecambe Offshore Wind Farms:
 Transmission Assets

Drawing Title:
 Tree and Hedgerow Protection Plan

Scale
 Scale@A0: 1:1000

Geodetic Information:
 Datum: ETRS 1989
 Projection: British National Grid



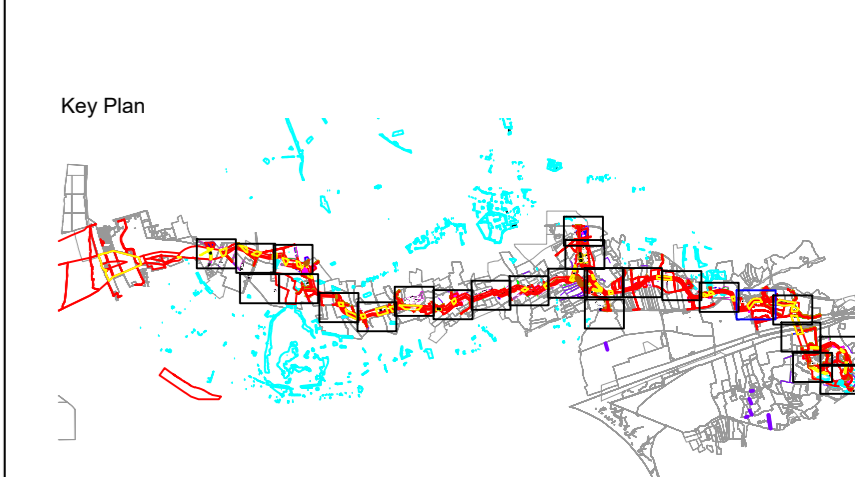
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VER DATE DETAILS BY CHECK
 01 June/24 Comment JB DC
 02 Aug/24 Issue JB DC

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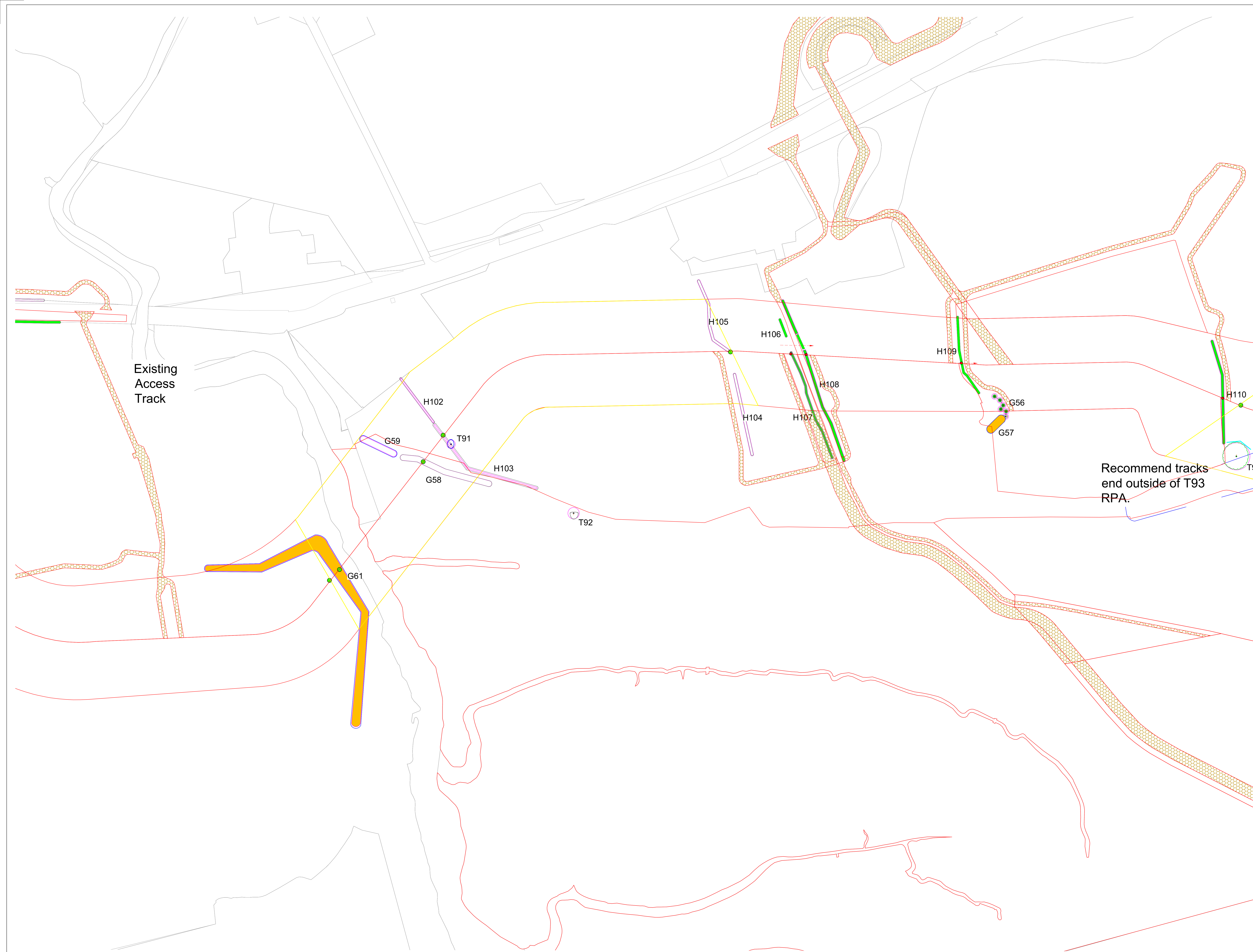
LEGEND

- Ordnance Development Area (see also BS5837:2012)
- Tree with numbered reference. Canopy spread and coloured BS5837:2012 tree quality category as shown below.
= Tree details estimate (inaccessible tree)
* = Tree in off site location
- Vegetation group with numbered reference. Canopy extents and coloured BS5837:2012 tree quality category as shown below.
- Hedge with numbered reference. Canopy extents and coloured BS5837:2012 tree quality category as shown below.
- Woodland with numbered reference. Canopy extents and coloured BS5837:2012 tree quality category as shown below.
- BS 5837:2012 Tree Quality Categories - Table 1
- Category B - Moderate quality
- Category C - Low quality
- Category U - Unsuitable for retention
- Tree hedge identified with satellite imagery where access permission for surveys has not been granted. No survey data has been collected.
- Precautionary Root Protection Area (RPA) added to un-surveyed trees. Preliminary Single RPA added as preventative buffer.
- Scrub group with numbered reference. Extents as shown.
- Hedge identified as 'important' during ecology surveys (refer to ecology report)
- Root protection area (RPA) Calculated in accordance with Section 4.8 - BS5837:2012
- Tree protected by Tree Preservation Order - Fylde Borough Council and South Ribbles Borough Councils. GIS Database provided by respective Councils. Location data only.
- Vegetation tree buffer (15m stem Ø) (as per standing advice produced by Natural Resource Wales)
- Arboricultural BRAC Assessment**
Based on quantitative and professional assessment. The ranking is defined as:
 Black: Significant arboricultural asset within development.
 Red: High potential to constrain development.
 Amber: Moderate potential to constrain development.
 Green: Low potential to constrain development
- Cable Crossing Technique**
 Trenched
 Trenchless
 Trenchless technique employed. No arboricultural impact / harm. No tree or woodland loss. Area of trenchless cable route as defined by client.
 Traditional trench technique to be employed. Preferred trenching location indicated, to avoid high or moderate arboricultural asset.
- Construction access tracks/ permanent substation access.
- Temporary construction compound.
- Permanent substation area.
- Temporary substation area.
- Temporary protective fencing in accordance with Section 6.2 - BS5837:2012. See example, also shown within supporting report.
- Temporary visual warning barrier. See example detail, also shown within supporting report.
- Tree with numbered reference requiring removal to facilitate development (assumed loss).



Drawing Number:
 JSL4847_750

VER	DATE	DETAILS	BY	CHECK
01	June/24	Comment	JB	DC
02	Aug/24	Issue	JB	DC

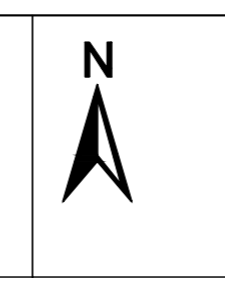


Project Name:
 Morgan and Morecambe Offshore Wind Farms:
 Transmission Assets

Drawing Title:
 Tree and Hedgerow Protection Plan

Scale
 Scale@A0: 1:1000

Geodetic Information:
 Datum: ETRS 1989
 Projection: British National Grid



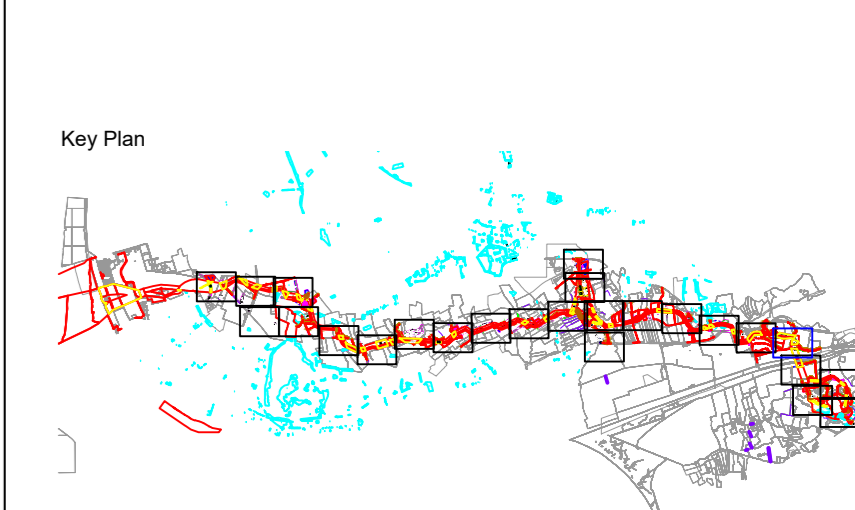
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01	June/24	Comment	JB	DC
02	Aug/24	Issue	JB	DC

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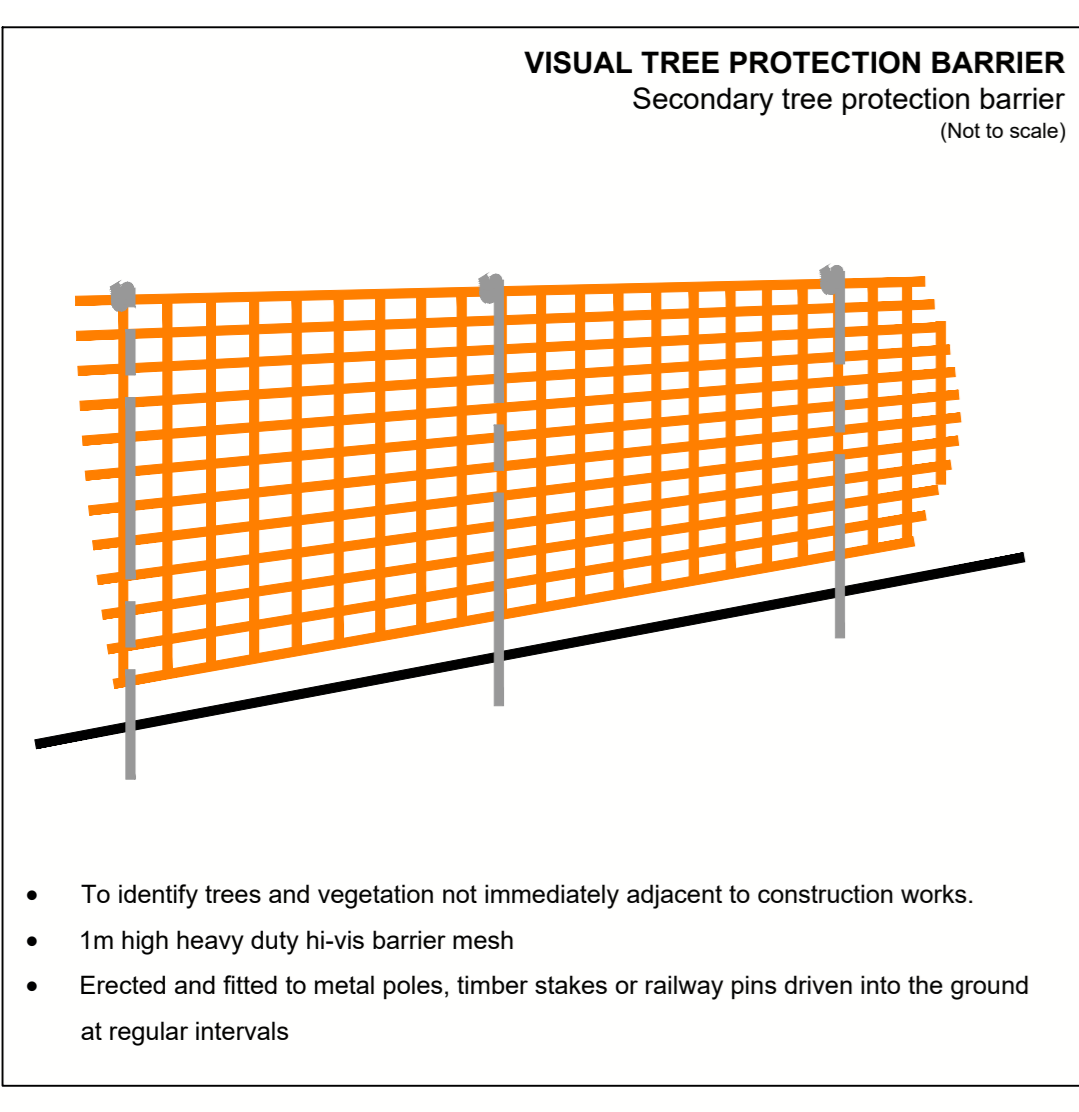
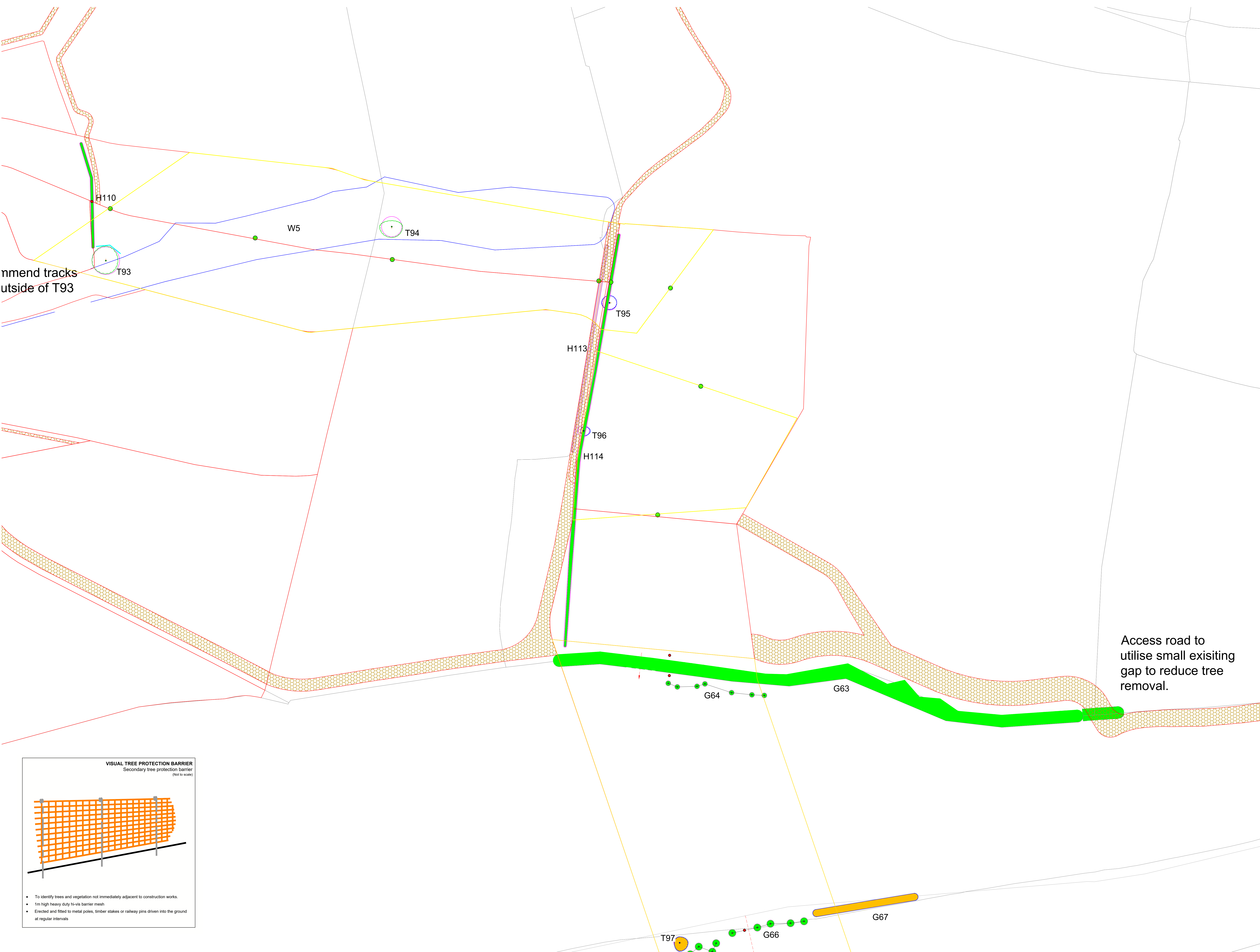
LEGEND

- Orchard Development Area (460, 460, 460, 460, 460, 460)
- Tree with numbered reference. Canopy spread and coloured BS5837:2012 tree quality category as shown below.
 # = Tree details estimate (accessible tree)
 = Tree in off site location
- Vegetation group with numbered reference. Canopy extents and coloured BS5837:2012 tree quality category as shown below.
- Hedge with numbered reference. Canopy extents and coloured BS5837:2012 tree quality category as shown below.
- Woodland with numbered reference. Canopy extents and coloured BS5837:2012 tree quality category as shown below.
- Tree Quality Categories - Table 1:
 ● Category A - High quality
 ● Category B - Moderate quality
 ● Category C - Low quality
 ● Category U - Unsuitable for retention
- Tree/ Hedges identified with satellite imagery where access permission for surveys has not been granted. No survey data has been collected.
- Precautionary Root Protection Area (RPA) Added to un-surveyed trees, preliminary 15m RPA added as preventative buffer
- Scrub group with numbered reference. Extents as shown.
- Hedge identified as 'important' during ecology surveys (refer to ecology report)
- Root protection area (RPA) Calculated in accordance with Section 4.6 - BS5837:2012
- Tree protected by Tree Preservation Order - Fylde Borough Council and South Ribbles Borough Councils. GIS Databases provided by respective Councils. Location data only.
- Veteran tree buffer (15 x stem G) (as per standing advice produced by Natural Resource Wales)
- Arboricultural BRAG Assessment**
 Based on quantitative and professional assessment. The ranking is defined as:
 ■ Black: Significant arboreal asset within development.
 ■ Red: High potential to constrain development.
 ■ Amber: Moderate potential to constrain development.
 ■ Green: Low potential to constrain development
- Cable Crossing Technique**
 ● Trenchcut
 ● Trenchless
- Trenchless technique employed
 No arboricultural impact / harm. No tree or woodland loss.
 Area of trenchless cable route as defined by client.
 Traditional trench technique to be employed
 Preferred trenching location indicated, to avoid high or moderate arboricultural asset.
- Construction access tracks/ permanent substation access.
- Temporary construction compound.
- Permanent substation area.
- Temporary substation area.
- Temporary protective fencing in accordance with Section 6.2 - BS5837:2012. See example, also shown within supporting report.
- Temporary visual warning barrier. See example detail, also shown within supporting report.
- Tree with numbered reference requiring removal to facilitate development (assumed loss).



Drawing Number:
 JSL4847_751

VER	DATE	DETAILS	BY	CHECK
01	June/24	Comment	JB	DC
02	Aug/24	Issue	JB	DC



Project Name:
 Morgan and Morecambe Offshore Wind Farms:
 Transmission Assets

Drawing Title:
 Tree and Hedgerow Protection Plan

Scale
 Scale@A0: 1:1000

Geodetic Information:
 Datum: ETRS 1989
 Projection: British National Grid



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LEGEND

Ordnance Development Area
 Ordnance Development Area

Tree with numbered reference
 Tree with numbered reference
 Canopy spread and coloured BS5837:2012 tree quality category as shown below.
 # = Tree details estimate (accessible tree)
 . = Tree in off site location

Vegetation group with numbered reference
 Vegetation group with numbered reference
 Canopy extent and coloured BS5837:2012 tree quality category as shown below.

Hedge with numbered reference
 Hedge with numbered reference
 Canopy extent and coloured BS5837:2012 tree quality category as shown below.

Woodland with numbered reference
 Woodland with numbered reference
 Canopy extent and coloured BS5837:2012 tree quality category as shown below.

BS 5837:2012 Tree Quality Categories - Table 1

- Category A - High quality
- Category B - Moderate quality
- Category C - Low quality
- Category U - Unsuitable for retention

Tree/Hedge identified with satellite imagery where access permission for surveys has not been granted. No survey data has been collected.
 Tree/Hedge identified with satellite imagery where access permission for surveys has not been granted. No survey data has been collected.

Precautionary Root Protection Area (RPA)
 Added to un-surveyed trees, preliminary 15mØ RPA added as preventative buffer.

Scrub group with numbered reference
 Scrub group with numbered reference. Extents as shown.

Hedge identified as 'important' during ecology surveys (refer to ecology report)
 Hedge identified as 'important' during ecology surveys (refer to ecology report).

Root protection area (RPA)
 Calculated in accordance with Section 4.6 - BS5837:2012.

Trees protected by Tree Preservation Order - Fylde Borough Council and South Ribbles Borough Councils. GIS Datasets provided by respective Councils. Location data only.
 Trees protected by Tree Preservation Order - Fylde Borough Council and South Ribbles Borough Councils. GIS Datasets provided by respective Councils. Location data only.

Veteran tree buffer (15 x stem Ø)
 (as per standing advice produced by Natural Resource Wales)

Arboricultural BRAG Assessment
 Based on quantitative and professional assessment. The ranking is defined as:

- Black: Significant arboreal asset within development.
- Red: High potential to constrain development.
- Amber: Moderate potential to constrain development.
- Green: Low potential to constrain development.

Cable Crossing Technique

- Trenched
- Trenchless

Trenchless technique employed
 No arboricultural impact / harm. No tree or woodland loss.
 Area of trenchless cable route as defined by client.
 Traditional trench technique to be employed. Preferred trenching location indicated, to avoid high or moderate arboricultural asset.

Construction access track / permanent substation access.
 Construction access track / permanent substation access.

Temporary construction compound.
 Temporary construction compound.

Permanent substation area.
 Permanent substation area.

Temporary substation area.
 Temporary substation area.

Temporary protective fencing in accordance with Section 8.2 - BS5837:2012. See example, also shown within supporting report.
 Temporary protective fencing in accordance with Section 8.2 - BS5837:2012. See example, also shown within supporting report.

Temporary visual warning barrier. See example detail, also shown within supporting report.
 Temporary visual warning barrier. See example detail, also shown within supporting report.

Tree with numbered reference requiring removal to facilitate development (assumed loss).
 Tree with numbered reference requiring removal to facilitate development (assumed loss).

NOTES:

- Refer to RPS Tree Survey & Arboricultural Impact Assessment Report for further details.
- Survey based on a visual inspection from the ground and is not intended as a full arboricultural inspection.
- Plan produced in accordance with recommendations set out in BS 5837:2012. Trees in Retention to design, demolition and construction.
- Due to the legal protection afforded to breeding birds, vegetation removal should not take place during the bird nesting period, generally, although not restricted to March - August inclusive.
- Survey based upon aerial photography, therefore tree locations should be deemed as approximate, and not digitally accurate.
- Provisional vehicular emergency access routes to be maintained at all times.
- All protective fencing to be completed and approved by LPA. CA prior to commencement of any site works.
- All works to conform with requirements of BS 3900:2010 - Tree Works BS 5837:2012 - Trees in relation to design, demolition and construction and construction Guidelines for Utility Services in Proximity to Trees.

Key Plan



Project Name:
 Morgan and Morecambe Offshore Wind Farms:
 Transmission Assets

Drawing Title:
 Tree and Hedgerow Protection Plan

Scale
 Scale@A0: 1:1000

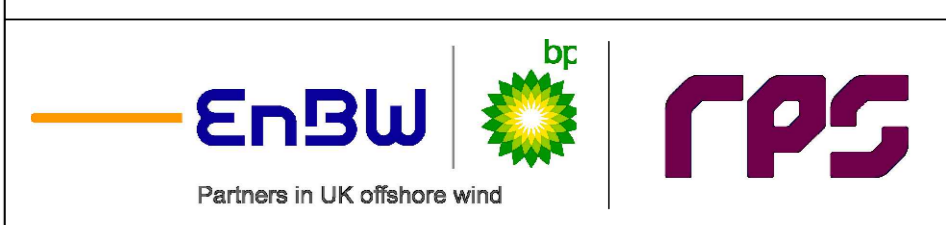
Geodetic Information:
 Datum: ETRS 1989
 Projection: British National Grid



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Drawing Number:
 JSL4847_752

VER	DATE	DETAILS	BY	CHECK
01	June/24	Comment	JB	DC
02	Aug/24	Issue	JB	DC



LEGEND

- Dashed Development Area (DDA) (e.g. 200, 200, 200, 200m)
- Tree with numbered reference. Canopy spread and coloured BS5837:2012 tree quality category as shown below.
= Tree details estimate (inaccessible tree)
= Tree in off site location
- Vegetation group with numbered reference. Canopy extents and coloured BS5837:2012 tree quality category as shown below.
- Hedge with numbered reference. Canopy extents and coloured BS5837:2012 tree quality category as shown below.
- Woodland with numbered reference. Canopy extents and coloured BS5837:2012 tree quality category as shown below.
- Tree Quality Categories - Table 1
● Category A - High quality
● Category B - Moderate quality
● Category C - Low quality
● Category U - Unsuitable for retention
- Tree / Hedge identified with satellite imagery where access permission for surveys has not been granted. No survey data has been collected.
- Preliminary Root Protection Area (RPA) added to un-surveyed trees. Preliminary (S)RPA added as preventative buffer.
- Scrub group with numbered reference. Extents as shown.
- Hedge identified as 'important' during ecology surveys (refer to ecology report)
- Root protection area (RPA) Calculated in accordance with Section 4.6 - BS5837:2012
- Tree protected by Tree Preservation Order - Fylde Borough Council and South Ribblesborough Councils. GIS Database provided by respective Councils. Location data only.
- Veteran tree buffer (15 x stem D) (as per standing advice produced by Natural Resource Wales)
- Arboricultural BRAC Assessment**
Based on quantitative and professional assessment. The ranking is defined as:
 Black: Significant arboreal asset within development;
 Red: High potential to constrain development;
 Amber: Moderate potential to constrain development;
 Green: Low potential to constrain development
- Cable Crossing Technique**
 Trenched
 Trenchless
- Trenchless technique employed**
 No arboricultural impact / harm. No tree or woodland loss.
 Area of trenchless cable route as defined by client.
 Traditional trench technique to be employed. Preferred trenching location indicated, to avoid high or moderate arboricultural asset.
- Construction access tracks/ permanent substation access.
- Temporary construction compound.
- Permanent substation area.
- Temporary substation area.
- Temporary protective fencing in accordance with Section 6.2 - BS5837:2012. See example, also shown within supporting report.
- Temporary visual warning barrier. See example detail, also shown within supporting report.
- Tree with numbered reference requiring removal to facilitate development (assumed loss).

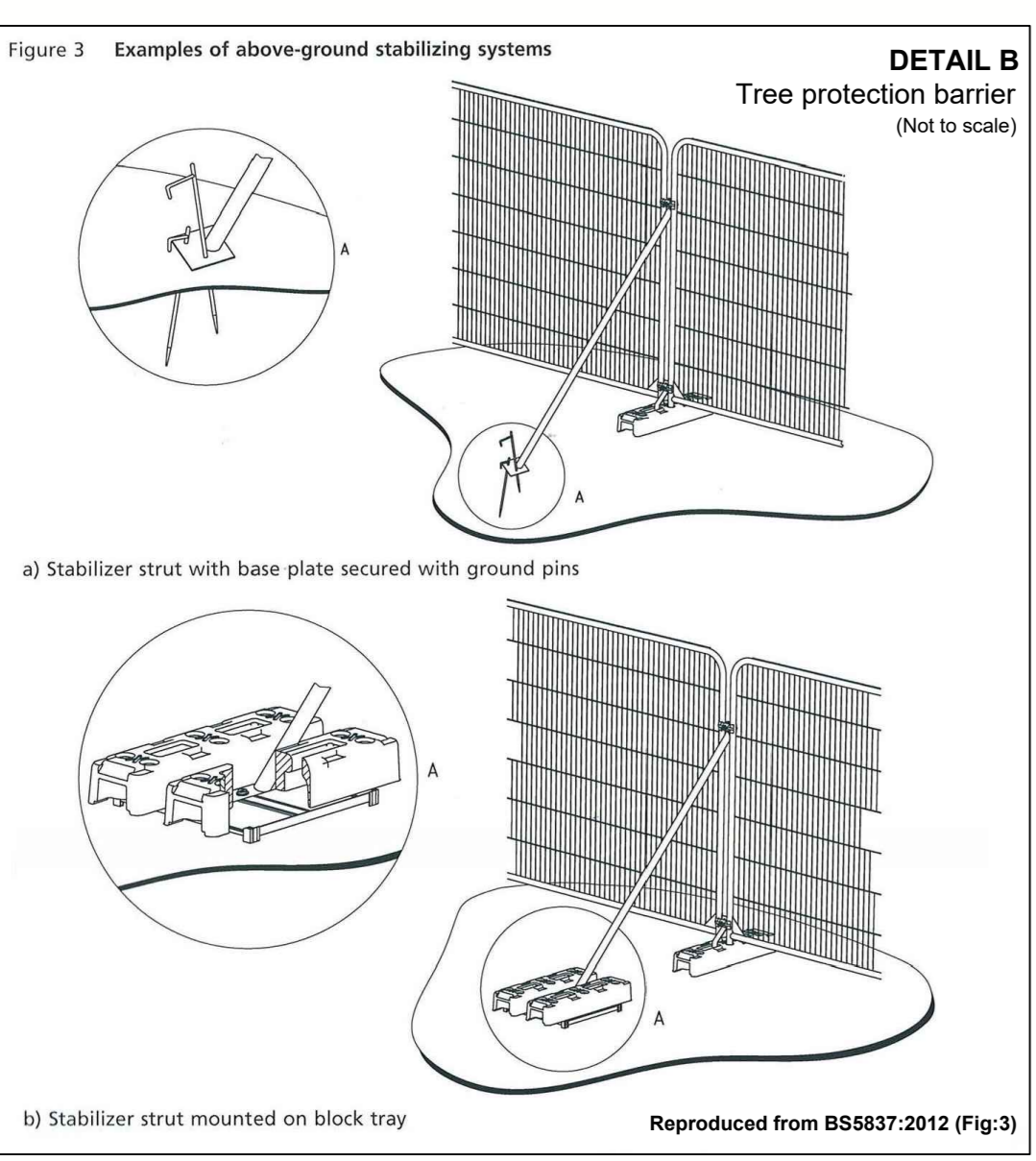
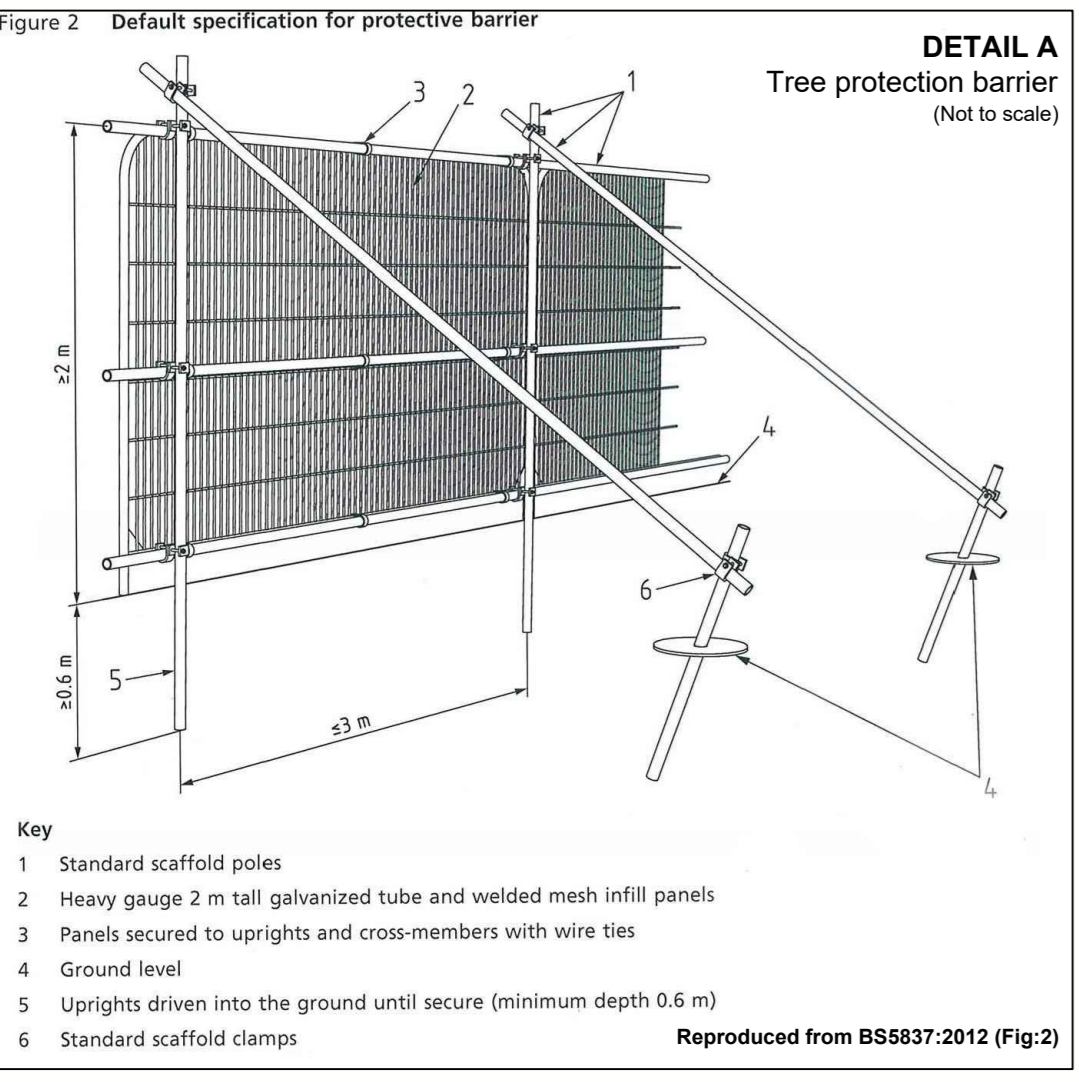
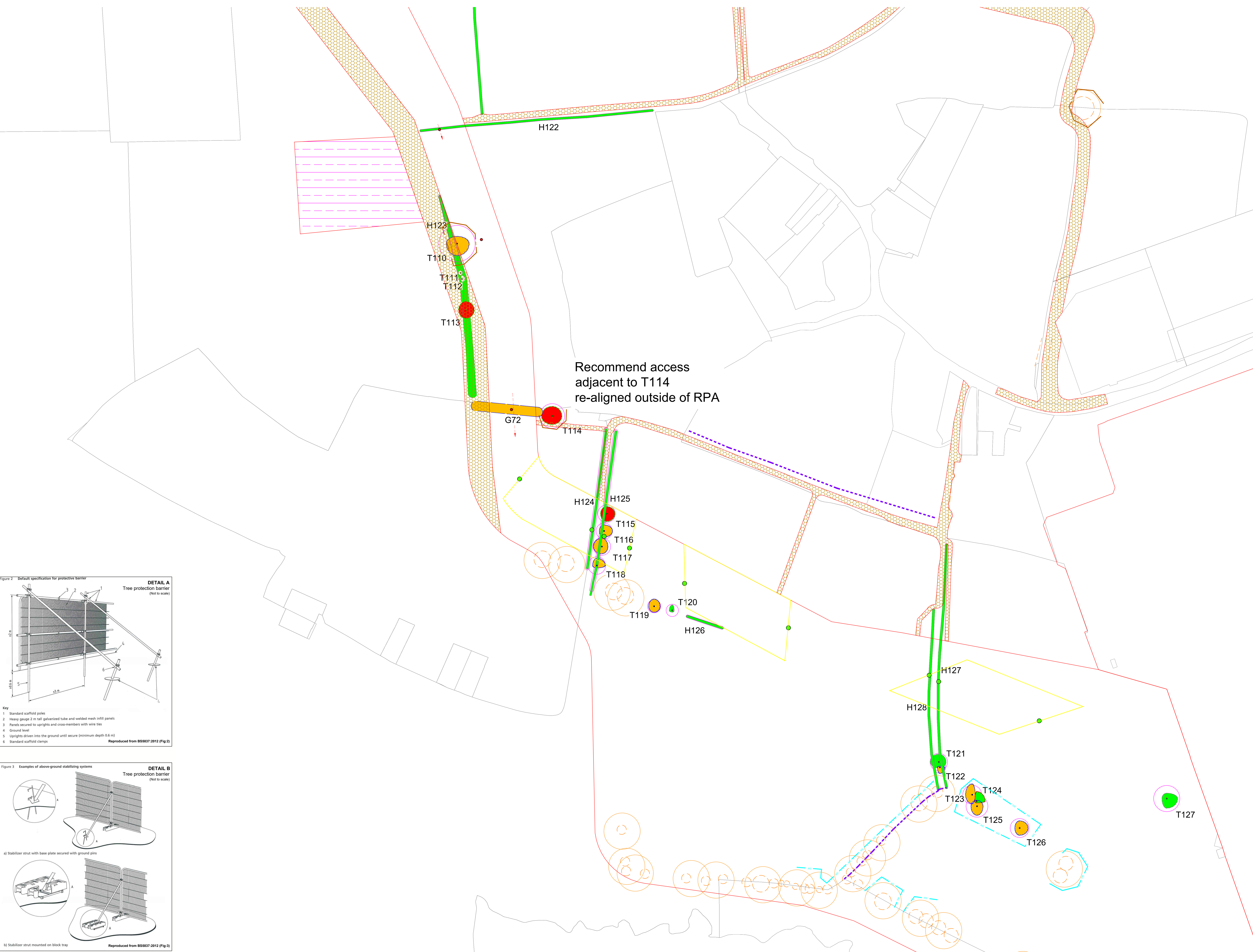
NOTES:

- Refer to RPS Tree Survey & Arboricultural Impact Assessment Report for further details.
- Survey based on a visual inspection from the ground and is not intended as a full arboricultural inspection.
- Plan produced in accordance with recommendations set out in BS 5837:2012 - 'Trees in Relation to Design, Construction and Construction'.
- Due to the legal protection afforded to breeding birds vegetation removal should not take place during the bird nesting period, generally, although not restricted to March - August inclusive.
- Survey based upon aerial photography, therefore tree locations should be deemed as approximate, and not digitally accurate.
- Professional vehicular emergency access routes to be maintained at all times.
- All protective fencing to be completed and approved by LPA (LPA prior to commencement of any site work).
- All works to comply with requirements of BS 5837:2012 - 'Trees in Relation to Design, Construction and Construction'.
- Guidelines for Utility Services in Proximity to Trees



Drawing Number:
 JSL4847_753

VER	DATE	DETAILS	BY	CHECK
01	June/24	Comment	JB	DC
02	Aug/24	Issue	JB	DC

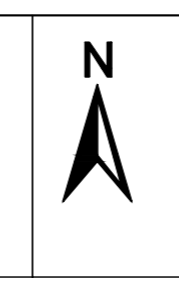


Project Name:
 Morgan and Morecambe Offshore Wind Farms:
 Transmission Assets

Drawing Title:
 Tree and Hedgerow Protection Plan

Scale
 Scale@A0: 1:1000

Geodetic Information:
 Datum: ETRS 1989
 Projection: British National Grid



Service Layer Credits: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

LEGEND

- Offshore Development Area
- Tree with numbered reference. Canopy spread and coloured BS5837:2012 tree quality category as shown below.
 * = Tree details estimate (inaccessible tree)
 * = Tree in off site location
- Vegetation group with numbered reference. Canopy extent and coloured BS5837:2012 tree quality category as shown below.
- Hedge with numbered reference. Canopy extent and coloured BS5837:2012 tree quality category as shown below.
- Woodland with numbered reference. Canopy extent and coloured BS5837:2012 tree quality category as shown below.
- BS 5837:2012 Tree Quality Categories - Table 1
 ● Category A - High quality
 ● Category B - Moderate quality
 ● Category C - Low quality
 ● Category U - Unsuitable for retention
- Tree/ Hedge identified with satellite imagery where access permission for surveys has not been granted. No survey data has been collected.
- Precautionary Root Protection Area (RPA) Added to un-surveyed trees, preliminary 15m/2 RPA added as preventative buffer.
- Scrub group with numbered reference. Extents as shown.
- Hedge identified as 'important' during ecology surveys (refer to ecology report)
- Root protection area (RPA) Calculated in accordance with Section 4.6 - BS5837:2012
- Tree protected by Tree Preservation Order - Fylde Borough Council and South Ribbles Borough Councils. GIS Datasets provided by respective Councils. Location data only.
- Veteran tree buffer (15 x stem Ø) (as per standing advice produced by Natural Resource Wales)

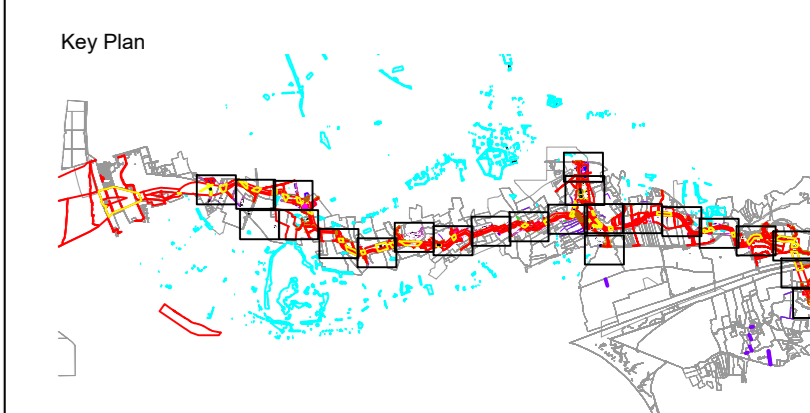
- Arboricultural BRAG Assessment**
 Based on quantitative and professional assessment. The ranking is defined as:
- Black: Significant arboreal asset within development.
 - Red: High potential to constrain development.
 - Amber: Moderate potential to constrain development.
 - Green: Low potential to constrain development.

- Cable Crossing Technique**
- Trenched
 - Trenchless

- Trenchless technique employed**
 No arboricultural impact / harm. No tree or woodland loss.
 Area of trenchless cable route as defined by client.
- Traditional trench technique to be employed**
 Preferred trenching location indicated, to avoid high or moderate arboricultural asset.

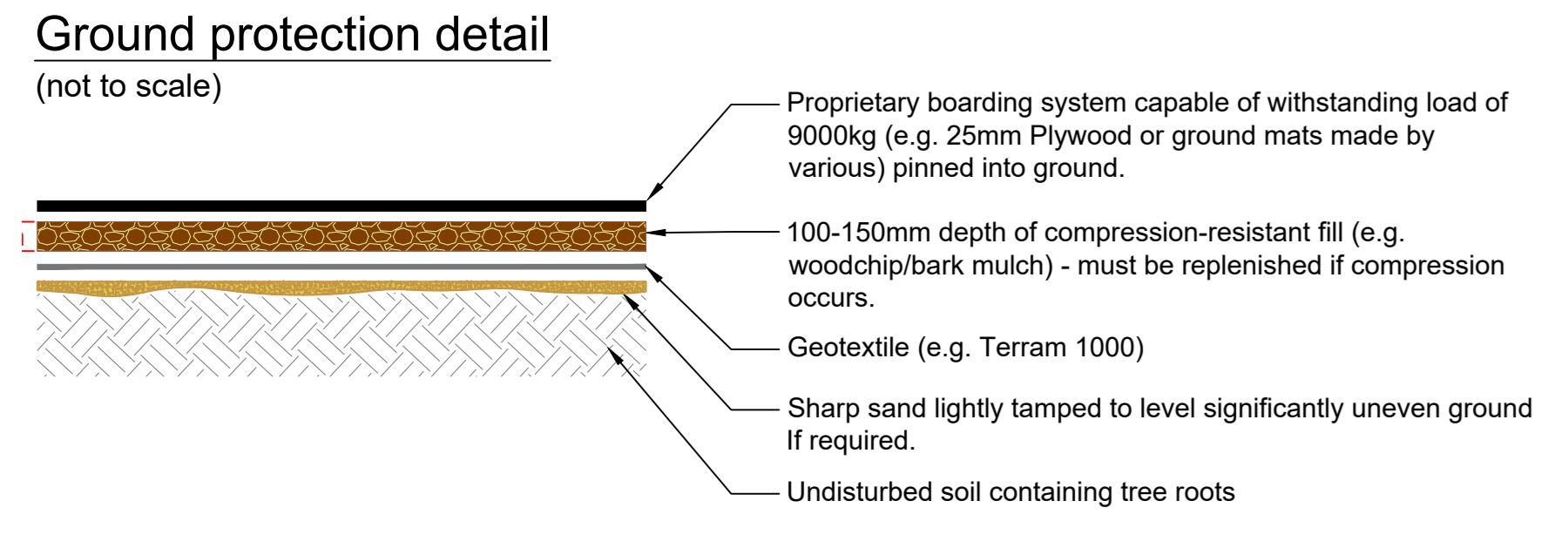
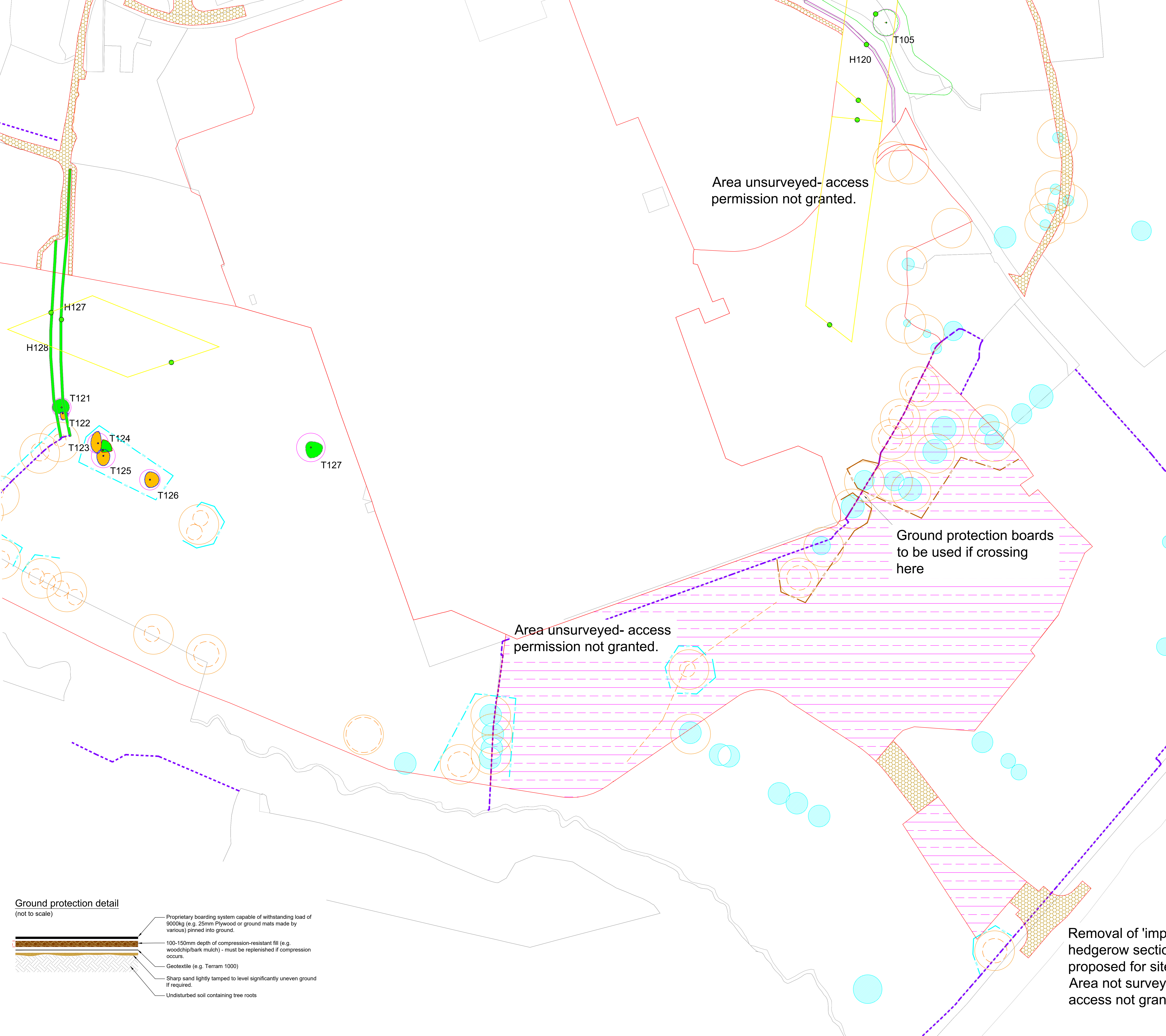
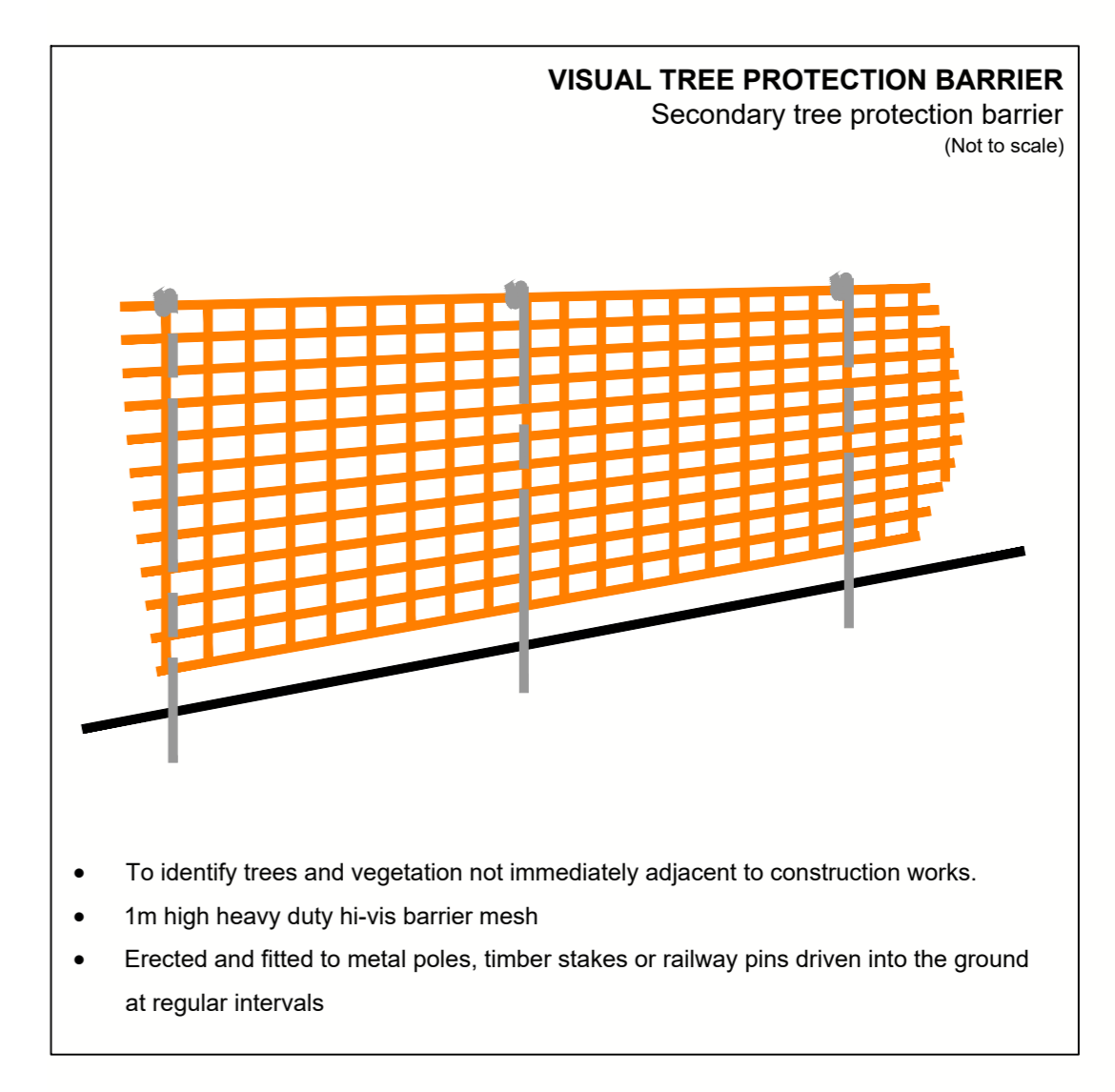
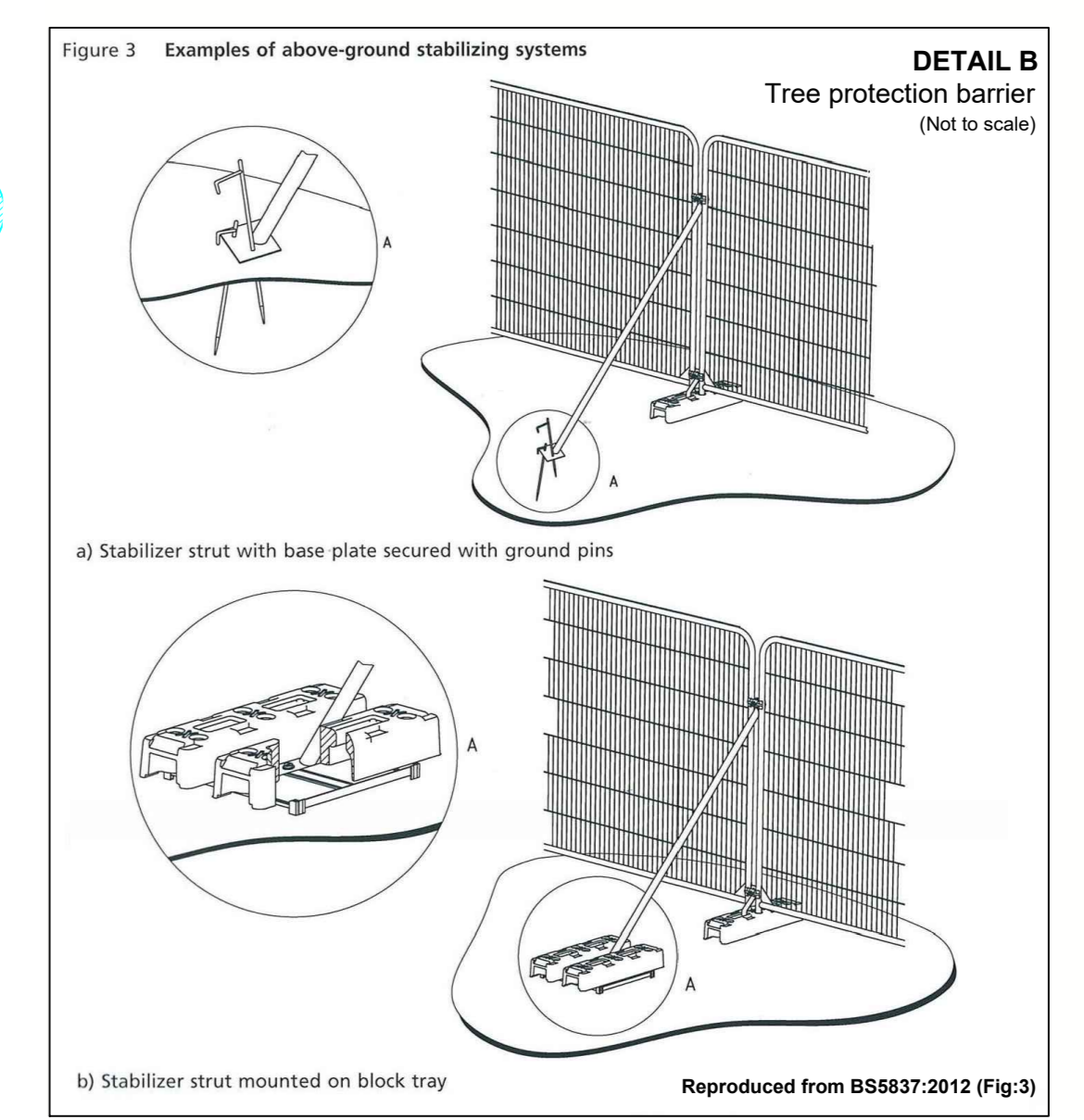
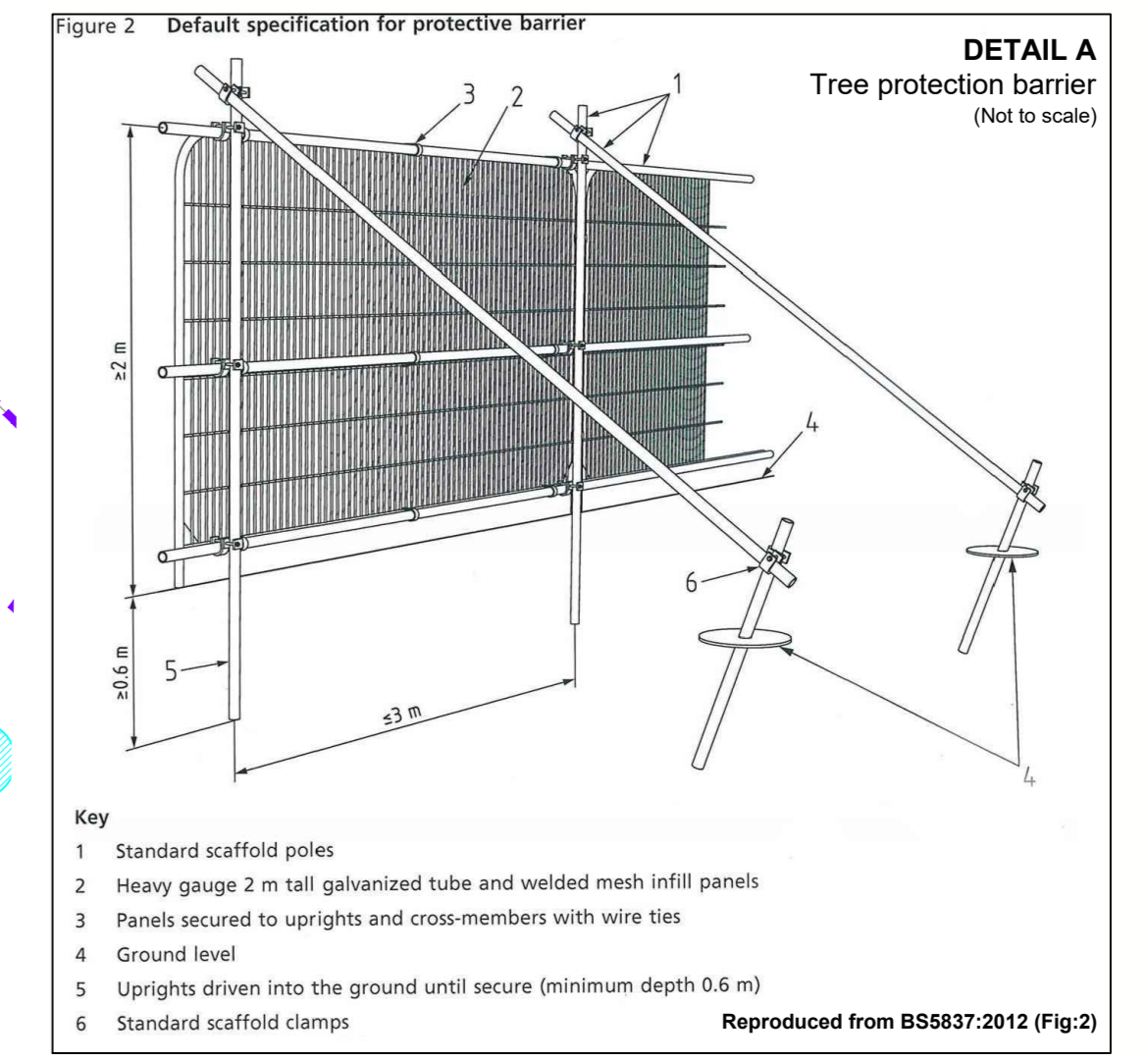
- Construction access tracks/ permanent substation access.
- Temporary construction compound.
- Permanent substation area.
- Temporary substation area.
- Temporary protective fencing in accordance with Section 8.2 - BS5837:2012. See example, also shown within supporting report.
- Temporary visual warning barrier. See example detail, also shown within supporting report.
- Tree with numbered reference requiring removal to facilitate development (assumed loss).

- NOTES:**
- Refer to RPS Tree Survey & Arboricultural Impact Assessment Report for further details.
 - Survey based on a visual inspection from the ground and is not intended as a full arboricultural inspection.
 - Plan produced in accordance with recommendations set out in BS 5837:2012. 'Tree in Relation to Design, Demolition and Construction'. Due to the legal protection afforded to breeding birds, vegetation removal should not take place during the bird nesting period, generally although not restricted to, March - August inclusive.
 - Some trees based upon aerial photography. Therefore tree locations should be deemed as approximate, and not digitally accurate.
 - Protective vehicle emergency access routes to be maintained at all times.
 - All protective fencing to be completed and approved by LPA. CA prior to commencement of any site works.
 - All works to conform with requirements of BS 3998:2012 - Tree Works and BS 5837:2012 - Tree in relation to design, demolition and construction.
 - N/A/G/A: Guidelines for Utility Services in N/A/G/A: Priority to Trees



Drawing Number:
 JSL4847_754

VER	DATE	DETAILS	BY	CHECK
01	June/24	Comment	JB	DC
02	Aug/24	Issue	JB	DC

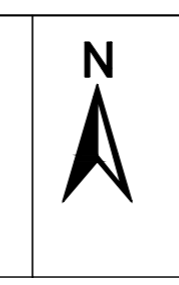


Project Name:
 Morgan and Morecambe Offshore Wind Farms:
 Transmission Assets

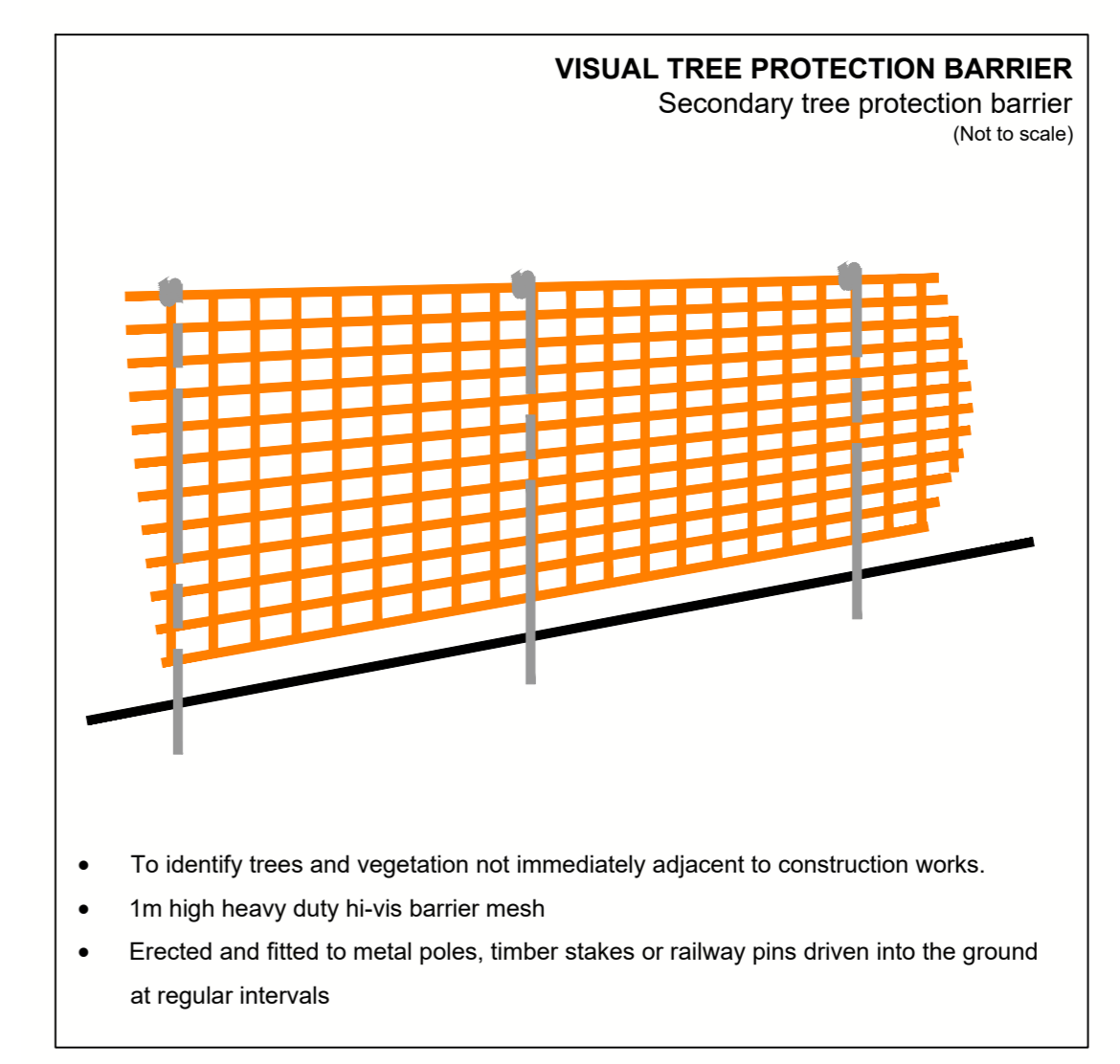
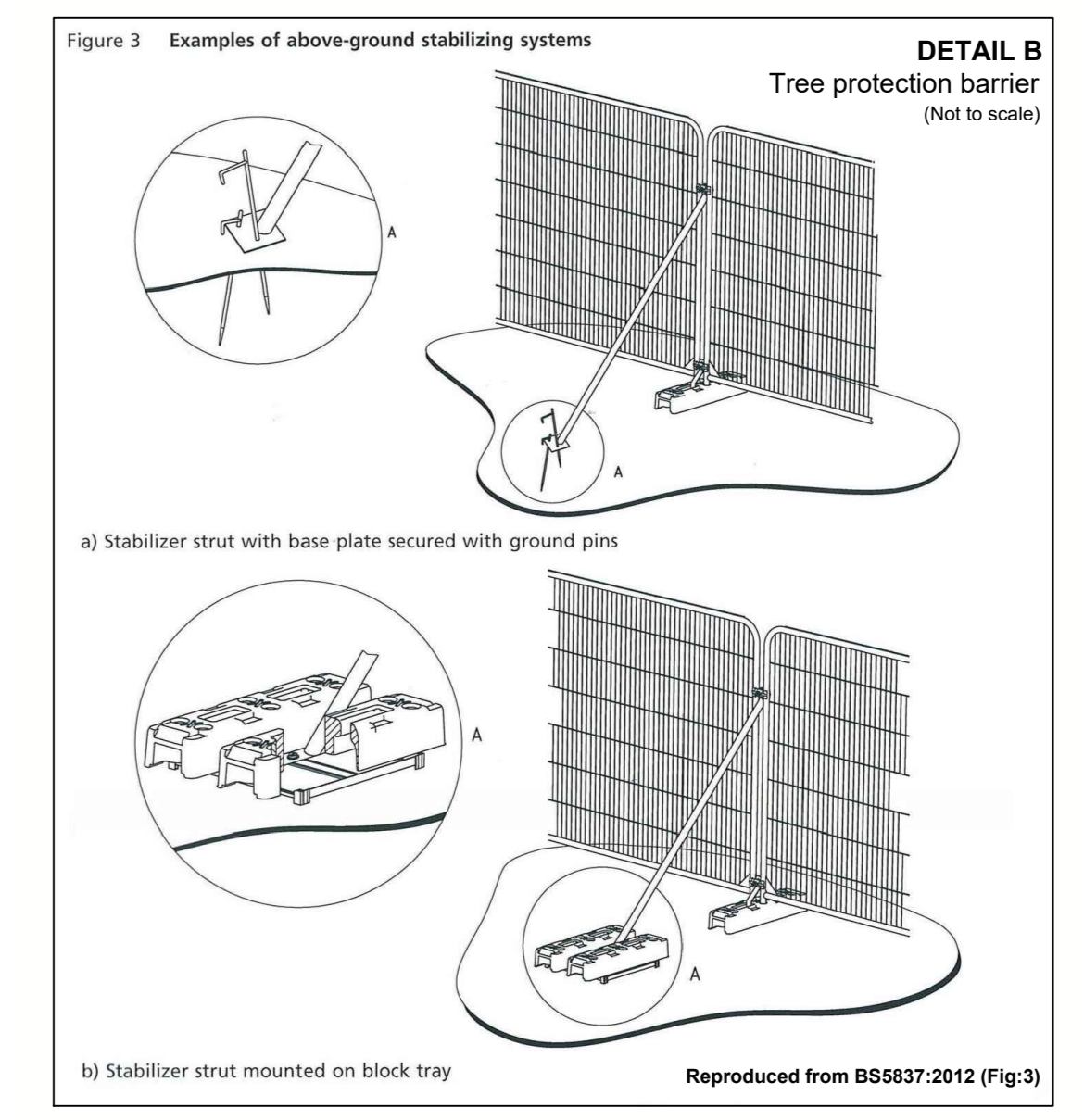
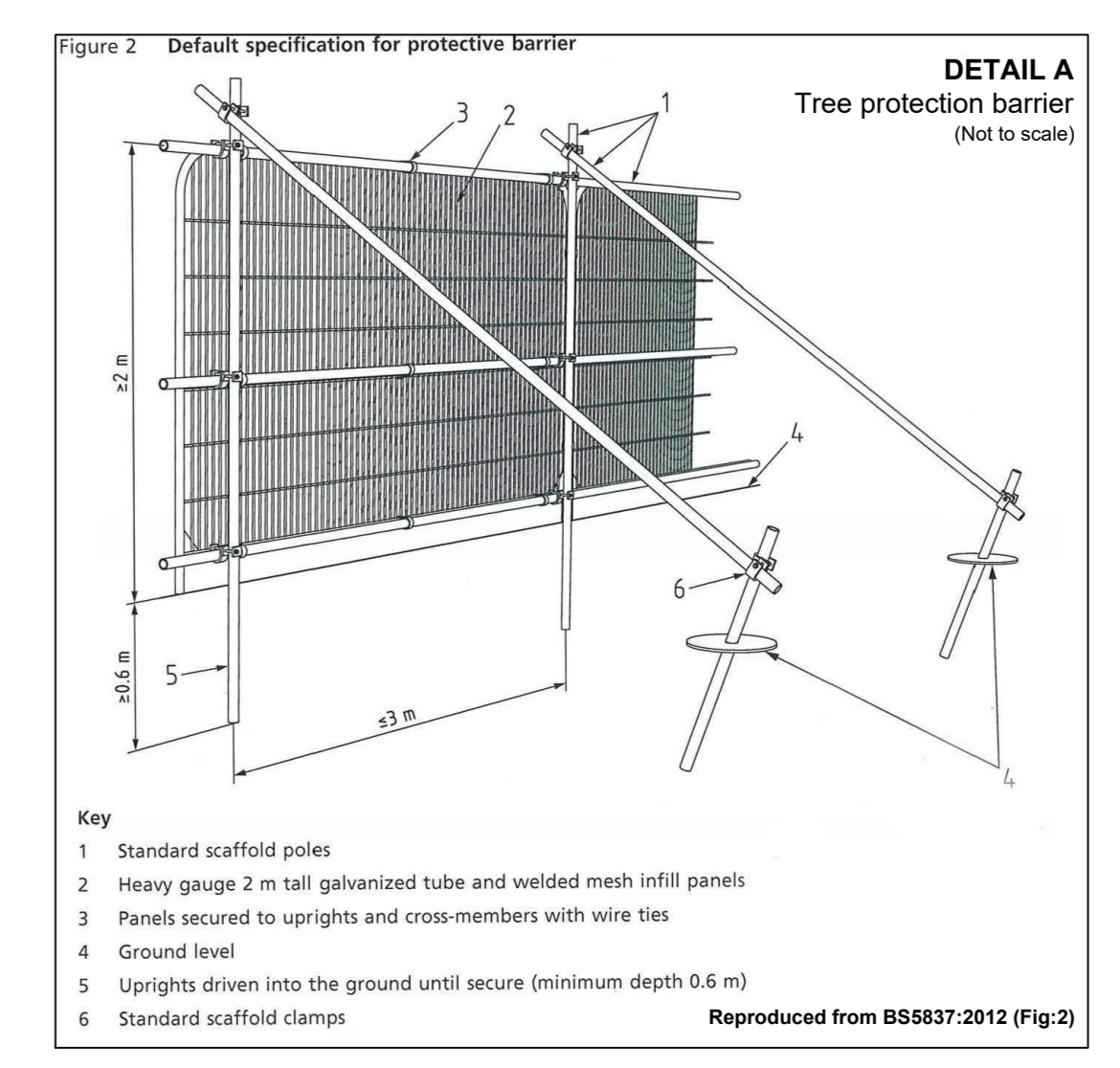
Drawing Title:
 Tree and Hedgerow Protection Plan

Scale
 Scale@A0: 1:1000

Geodetic Information:
 Datum: ETRS 1989
 Projection: British National Grid

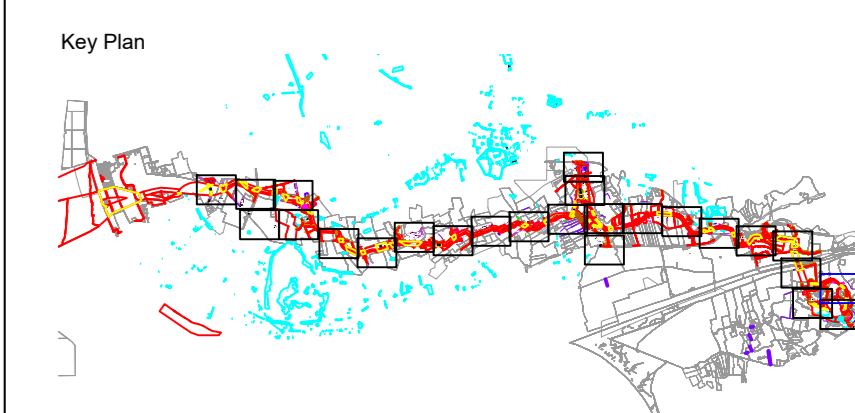


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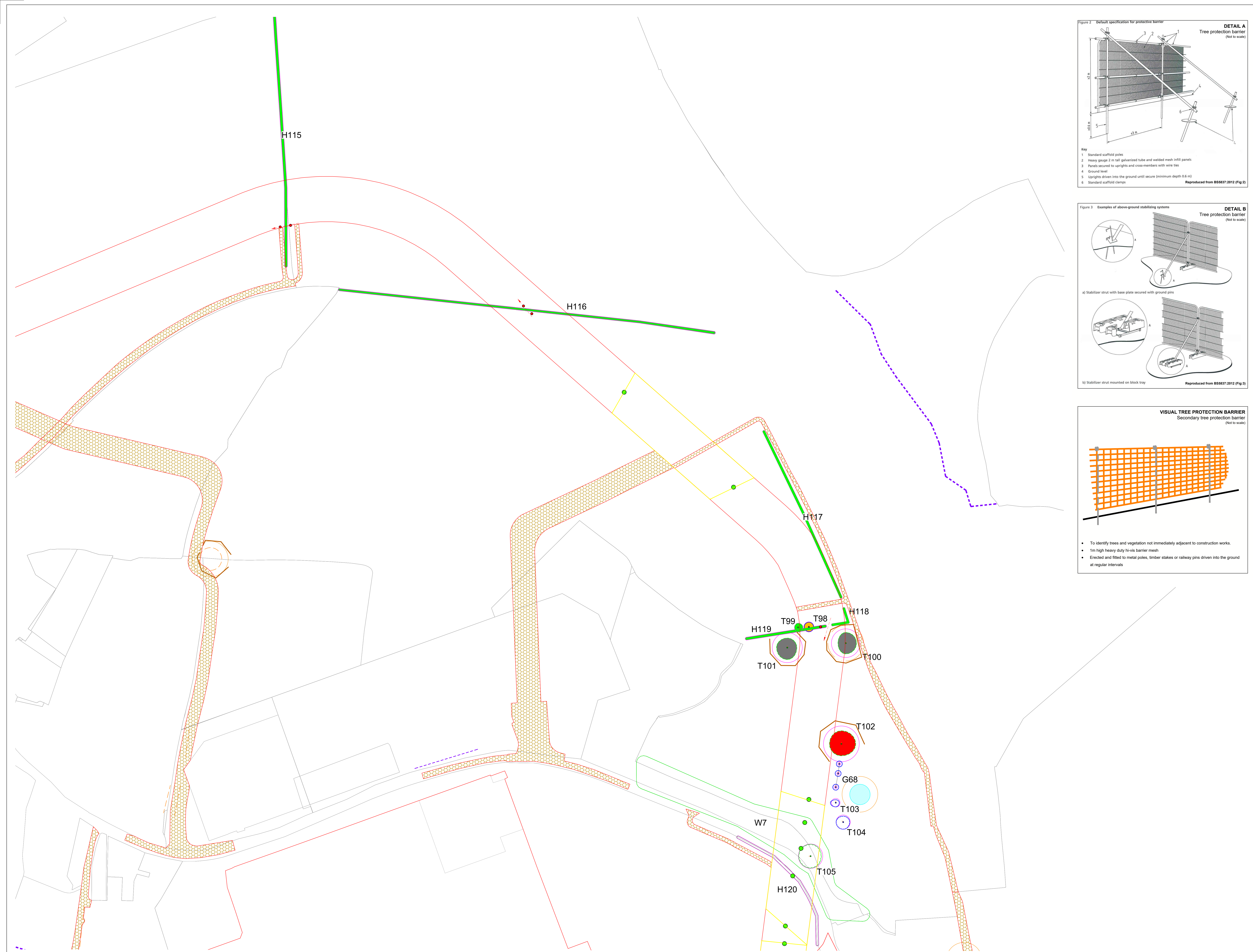
LEGEND

- Construction Development Area (SU, M, AP, P, H, D, C, A, S, I)
 - Tree with numbered reference. Canopy spread and coloured BS5837:2012 tree quality category as shown below. # = Tree details estimate (accessible tree) = Tree in off site location
 - Vegetation group with numbered reference. Canopy extents and coloured BS5837:2012 tree quality category as shown below.
 - Hedge with numbered reference. Canopy extents and coloured BS5837:2012 tree quality category as shown below.
 - Woodland with numbered reference. Canopy extents and coloured BS5837:2012 tree quality category as shown below.
 - Tree Quality Categories - Table 1
 - Category A - High quality
 - Category B - Moderate quality
 - Category C - Low quality
 - Category U - Unsuitable for retention
 - Tree: Hedge identified with satellite imagery where access permission for surveys has not been granted. No survey data has been collected.
 - Precursory Root Protection Area (RPA) Added to un-surveyed trees, preliminary 15m RPA added as preventative buffer
 - Scrub group with numbered reference. Extents as shown.
 - Hedge identified as 'important' during ecology surveys (refer to ecology report)
 - Root protection area (RPA) Calculated in accordance with Section 4.4, BS5837:2012
 - Tree protected by Tree Preservation Order - Fylde Borough Council and South Ribbles Borough Council. GIS Datasets provided by respective Councils. Location data only.
 - Visible tree buffer (15 x stem Ø) (as per standing advice produced by Natural Resource Wales)
 - Arboricultural BRAG Assessment Based on quantitative and professional assessment. The ranking is defined as:
 Black: Significant arboreal asset within development.
 Red: High potential to constrain development.
 Amber: Moderate potential to constrain development.
 Green: Low potential to constrain development.
 - Cable Crossing Technique
 - Trenched
 - Trenchless
 - Trenchless technique employed. No arboricultural impact / harm. No tree or woodland loss. Area of trenchless cable route as defined by client. Traditional trench technique to be employed. Preferred trenching location indicated, to avoid high or moderate arboricultural asset.
 - Construction access tracks/ permanent substation access.
 - Temporary construction compound.
 - Permanent substation area.
 - Temporary substation area.
 - Temporary protective fencing in accordance with Section 6.2 - BS5837:2012. See example, also shown within supporting report.
 - Temporary visual warning barrier. See example detail, also shown within supporting report.
 - Tree with numbered reference requiring removal to facilitate development (assumed loss).
- NOTES:**
- Refer to RPS Tree Survey & Arboricultural Impact Assessment Report for further details.
 - Survey based on a visual inspection from the ground and is not intended as a full arboricultural inspection.
 - Plan produced in accordance with recommendations set out in BS 5837:2012 - "Trees in Relation to design, demolition and construction".
 - Due to the legal protection afforded to breeding bird vegetation removal should not take place during the bird nesting period, generally although not restricted to March - August inclusive.
 - Survey based upon aerial photography, therefore tree locations should be deemed as approximate, and not digitally accurate.
 - Protective vehicle emergency access routes to be maintained at all times.
 - Alternative fencing to be completed and approved by EPA / CA prior to commencement of any site works.
 - All works to conform with requirements of:
 BS 5837:2012 - "Trees in Relation to design, demolition and construction"
 NRS04 - Guidelines for Utility Services in Proximity to Trees



Drawing Number:
 JSL4847_755

VER	DATE	DETAILS	BY	CHECK
01	June/24	Comment	JB	DC
02	Aug/24	Issue	JB	DC

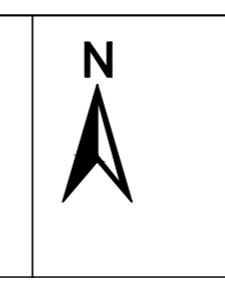


Project Name:
 Morgan and Morecambe Offshore Wind Farms:
 Transmission Assets

Drawing Title:
 Tree and Hedgerow Protection Plan

Scale
 Scale@A0: 1:1000

Geodetic Information:
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Service Layer Credits: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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