



South Kyle II Environmental Impact Assessment Report

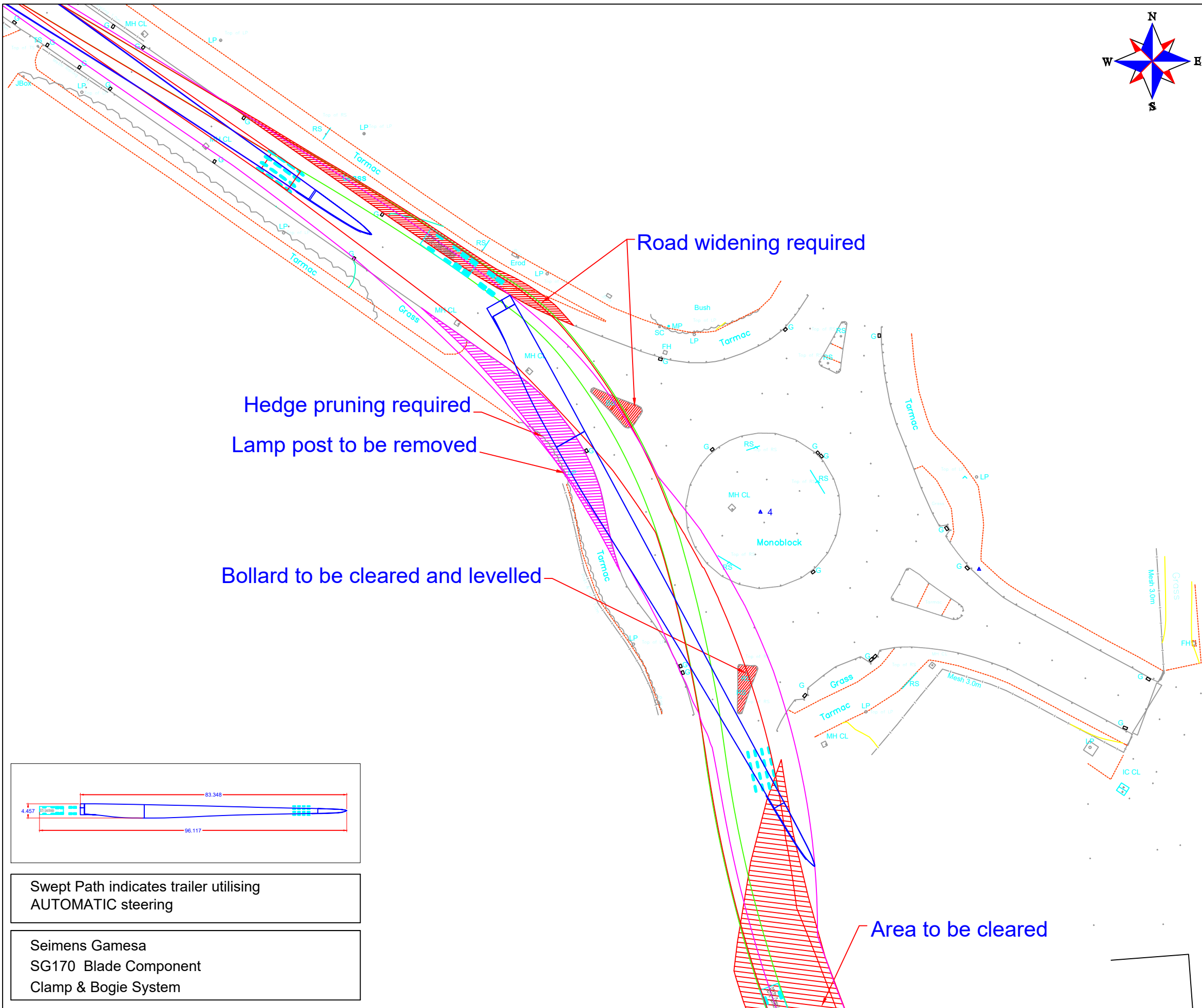
Technical Appendix 11.3: Abnormal Indivisible
Load Route Survey

April 2025

OUR VISION

**Working to create a world
powered by renewable energy**





Continue on Kings Inch Drive through the first roundabout.

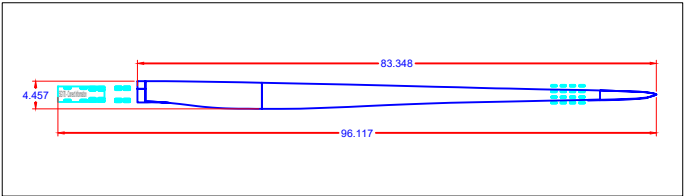
****Caution****

- Widening required to provide a useable road surface as indicated by the red hatching.
- Area within magenta hatching is required to be cleared of all obstructions to allow the blade to oversail these areas.
- Ground to be prepared to accept suitable axle loadings.

UK Grid Reference: NS 52672 66713

- The swept path analysis provided is produced from a purely transport orientated view, and does not consider any political issues in terms of land ownership, or any other precincts raised, that may otherwise be restrictive.
- The drawing has been produced from Ordnance Survey Data. A site visit has **not** been conducted to verify road widths or the presence of street furniture.
- All swept path diagrams and assessments are made and calculated for the road movement of loaded trailer equipment carrying Turbine components. These dimensions are based on the turning circles and specification of Collett & Sons Ltd trailer equipment.
- This SPA is a means of providing evidence of minimum requirements of any one vehicle as a footprint and there is no safety factor or margin included.
- Turbine delivery vehicles can be both left and right hand drive vehicles, therefore due to drivers perception it must be assumed that every vehicle will not follow the exact same line and so a margin of additional space should be allowed for.
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- The information is privileged and confidential and is for the exclusive use of the nominated client.
- All dimensions in meters
- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

- Area within red outline will be swept by tractor and trailer axles
- ▨ Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body



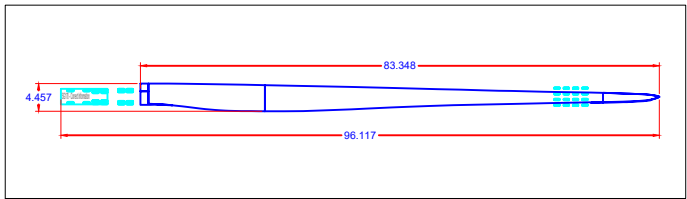
Swept Path indicates trailer utilising AUTOMATIC steering

Seimens Gamesa
SG170 Blade Component
Clamp & Bogie System



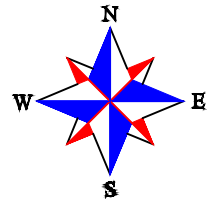
COLLETT & SONS LIMITED
Victoria Terminal TEL: +44(0)8456 255288
Albert Road FAX: +44(0)8456 255244
Halifax, HX2 0DF WEB: www.collett.co.uk

DRAWN S.BUDGEN		TITLE KINGS INCH DRIVE ROUNDABOUT 1	
DATE	08/10/2023	MAPPING ORDNANCE SURVEY Not Adjusted	CUSTOMER VATTENFALL
SCALE 1:500	SIZE A3	PINCH POINT IDENTIFIED BY CLIENT	SITE SOUTH KYLE II WIND FARM
		DWG. NO.	384703-20A1.1



Swept Path indicates trailer utilising
AUTOMATIC steering

Seimens Gamesa
SG170 Blade Component
Clamp & Bogie System



Continue on Kings Inch Drive through the
third roundabout.

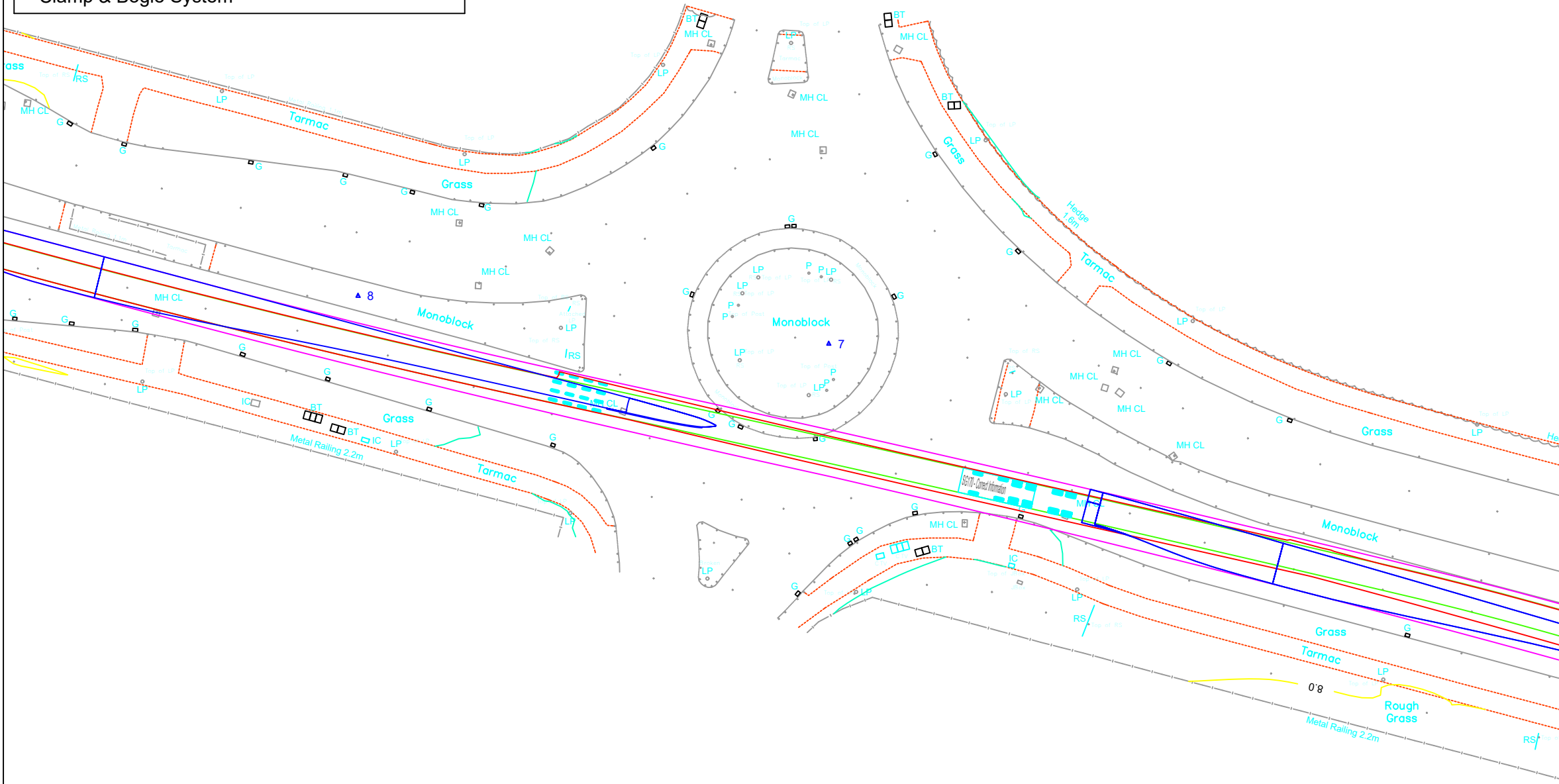
****Caution****

- Loaded blade will navigate this roundabout
without issues.

UK Grid Reference: NS 52289 66917

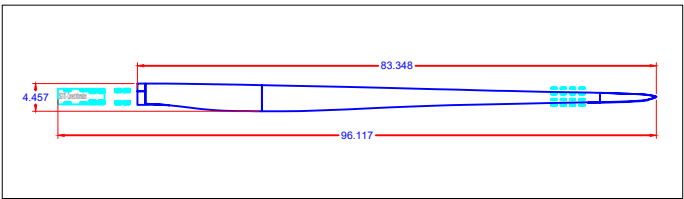
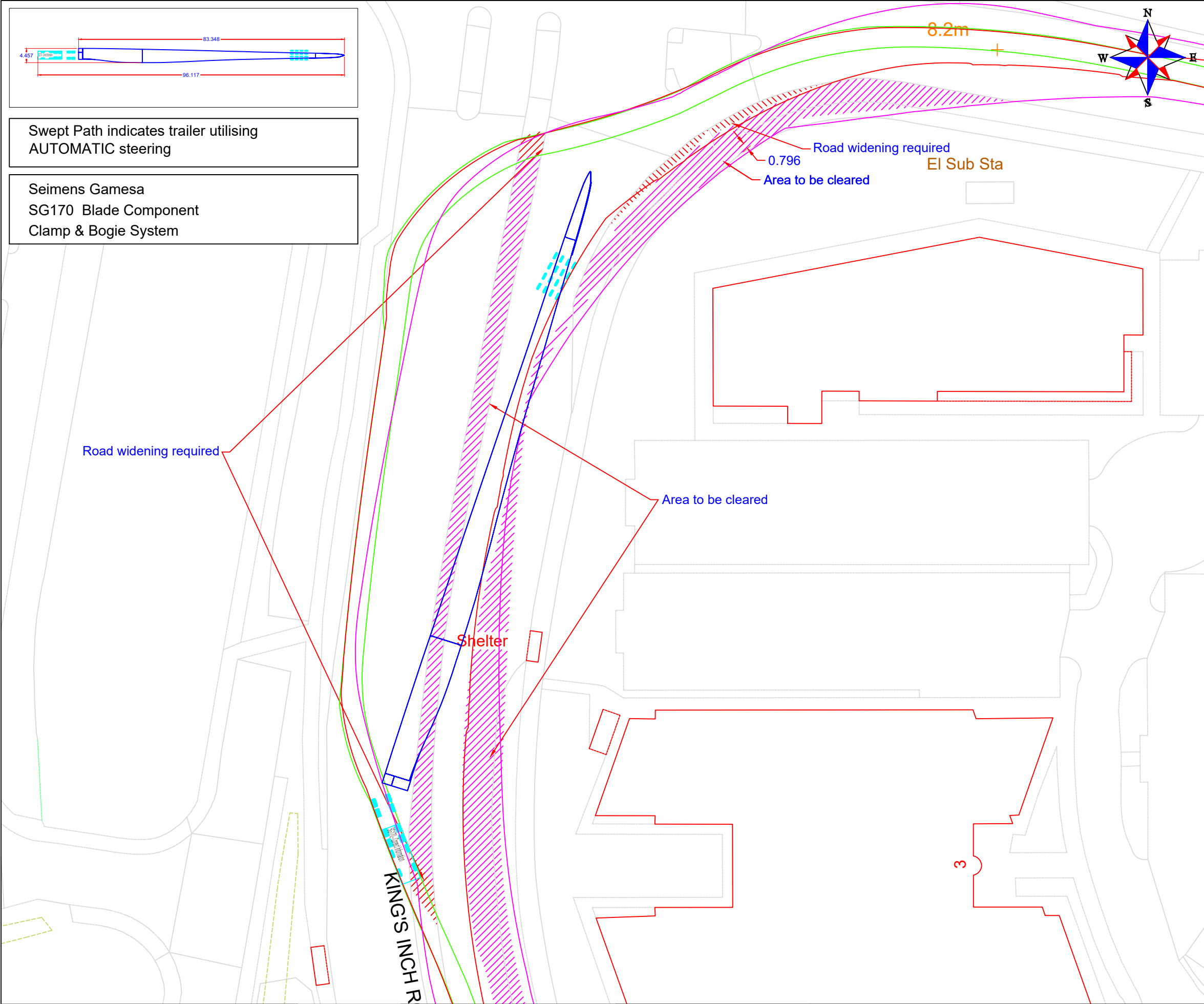
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- Area within red outline will be swept
by tractor and trailer axles
- Hatched area within red outline to be
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loadings
- Area within magenta outline will be
oversailed by load and projections
- Area within green outline will be
oversailed by trailer body



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DRAWN S.BUDGEN		TITLE KINGS INCH DRIVE ROUNDABOUT 3	
DATE 08/10/2023		MAPPING ORDNANCE SURVEY Not Adjusted	CUSTOMER VATTENFALL
SCALE 1:500	SIZE A3	PINCH POINT IDENTIFIED BY CLIENT	SITE SOUTH KYLE II WIND FARM DWG. NO. 384703-40A1.1



Swept Path indicates trailer utilising
AUTOMATIC steering

Seimens Gamesa
SG170 Blade Component
Clamp & Bogie System

Continue on Kings Inch Drive to junction with
Kings Inch Road.
At junction turn left onto King Inch Road.


****Caution****

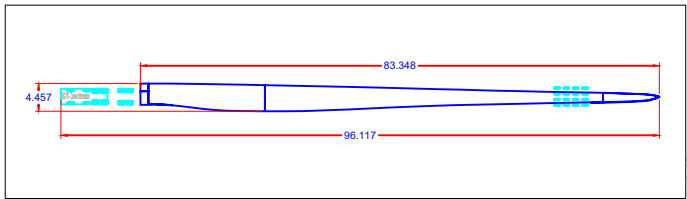
- Widening required to provide a useable road surface as indicated by the red hatching.
- Area within magenta hatching is required to be cleared of all obstructions to allow the blade to oversail these areas.
- Ground to be prepared to accept suitable axle loadings.

UK Grid Reference: NS 51935 66996

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- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

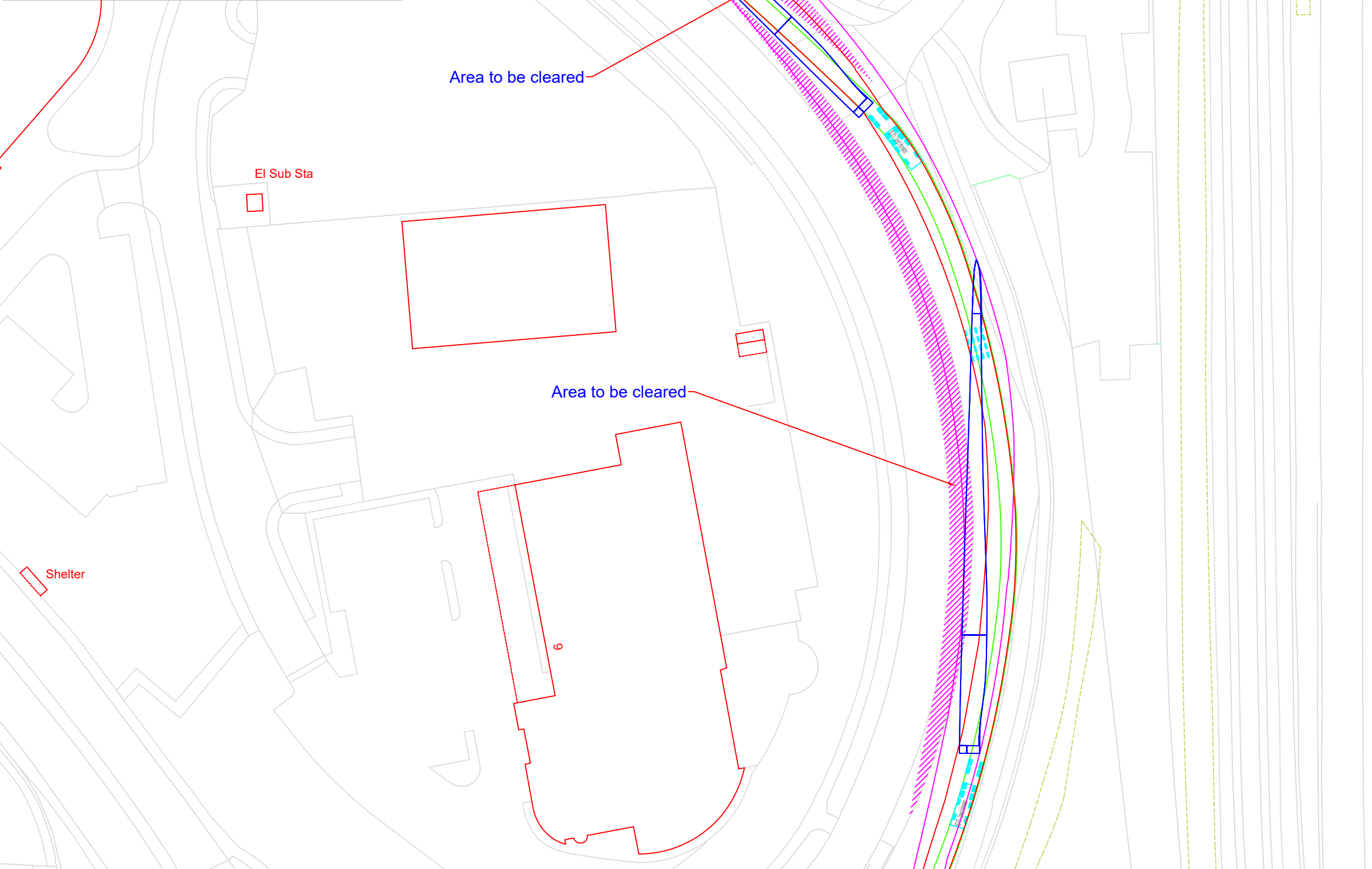
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- Hatched area within red outline to be levelled and prepared to accept axle loadings
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- Area within green outline will be oversailed by trailer body

	COLLETT & SONS LIMITED		DRAWN	S.BUDGEN	TITLE		KINGS INCH JUNCTION		
	Victoria Terminal	TEL: +44(0)8456 255288	DATE	08/10/2023	MAPPING	ORDNANCE SURVEY	CUSTOMER	VATTENFALL	
	Albert Road	FAX: +44(0)8456 255244	SCALE	1:500	SIZE	A3	PINCH POINT IDENTIFIED BY	CLIENT	
	Halifax, HX2 0DF	WEB: www.collett.co.uk					SITE	SOUTH KYLE II WIND FARM	DWG. NO. 384703-50A1.1



Swept Path indicates trailer utilising
AUTOMATIC steering

Seimens Gamesa
SG170 Blade Component
Clamp & Bogie System



Continue on Kings Inch Road through left
hand bend.

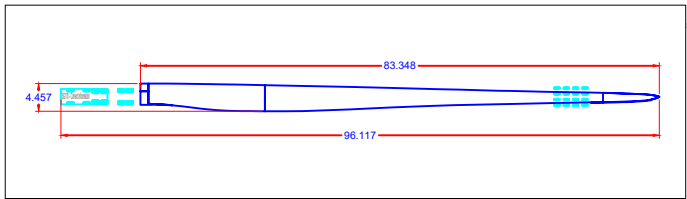
****Caution****

- Area within magenta hatching is required to
be cleared of all obstructions to allow the
blade to oversail these areas.

UK Grid Reference: NS 52020 66716

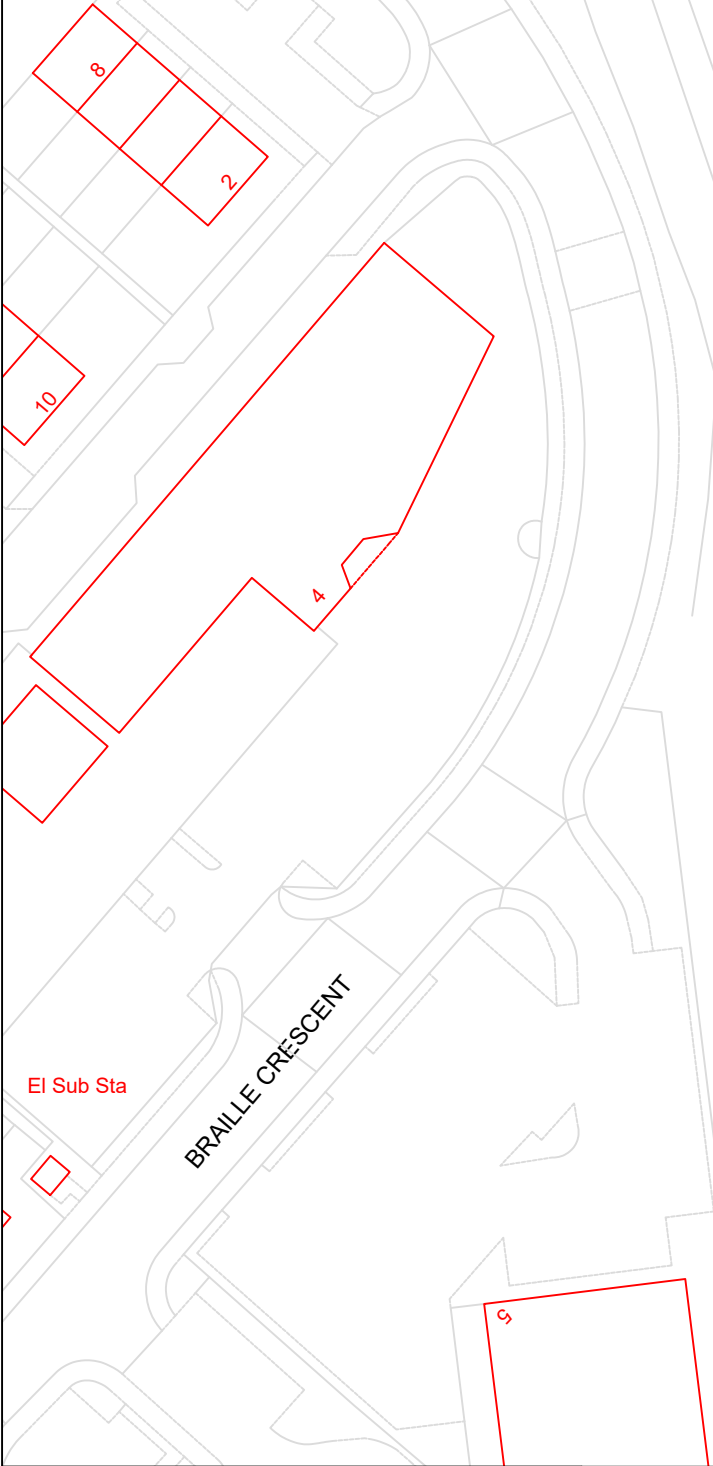
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- Area within green outline will be
oversailed by trailer body



Swept Path indicates trailer utilising AUTOMATIC steering

Seimens Gamesa
SG170 Blade Component
Clamp & Bogie System



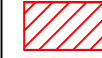
Continue on Kings Inch Road to roundabout junction with A736.
AT roundabout take exit onto A736.


****Caution****

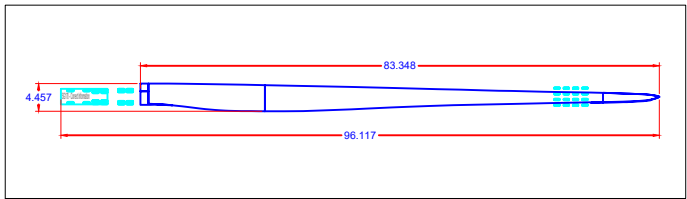
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UK Grid Reference: NS 51967 66555

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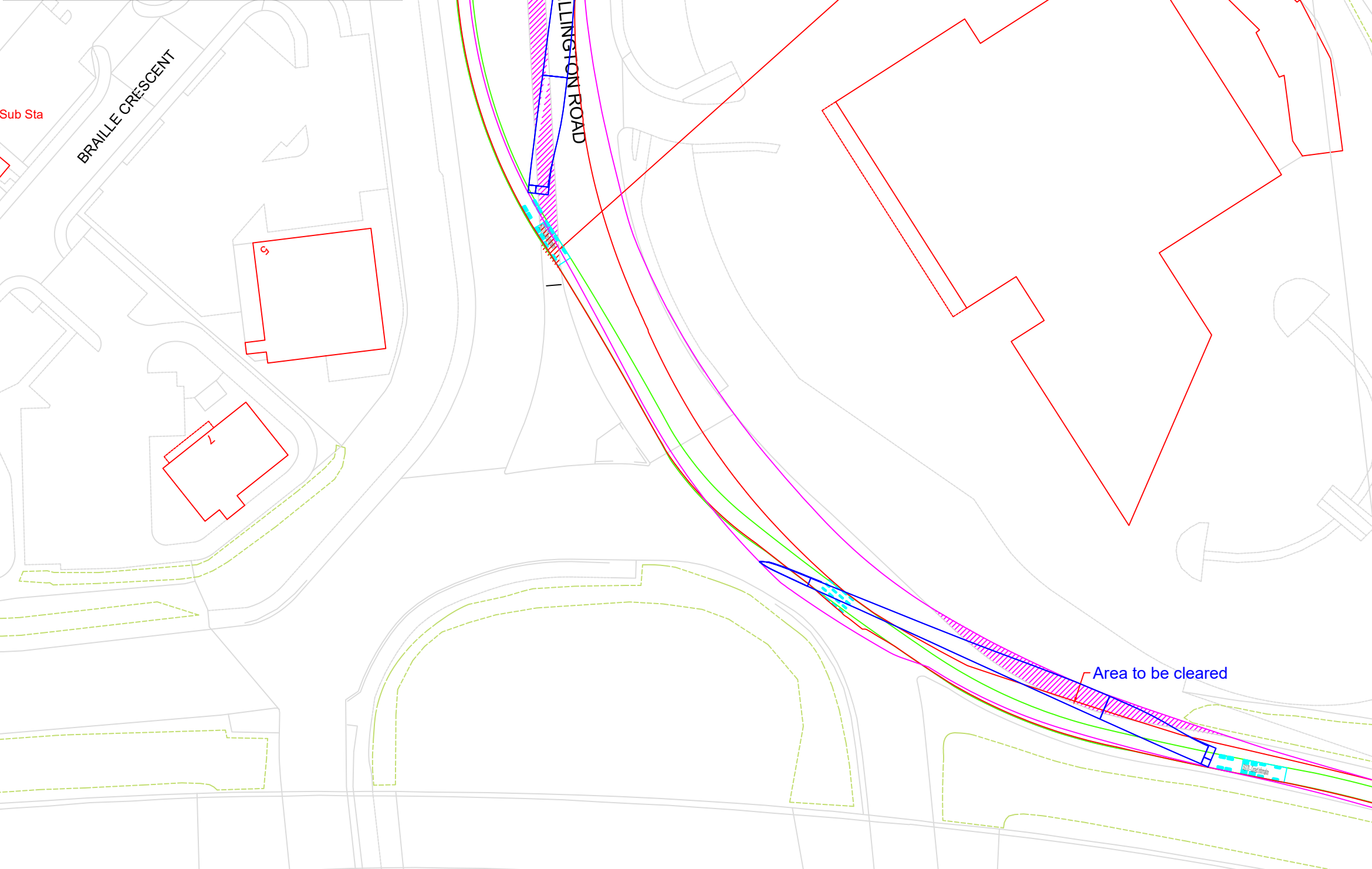
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-  Hatched area within red outline to be levelled and prepared to accept axle loadings
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- Area within green outline will be oversailed by trailer body

	COLLETT & SONS LIMITED		DRAWN	S.BUDGEN	TITLE				KINGS INCH ROAD / A736 ROUNDABOUT	
	Victoria Terminal TEL: +44(0)8456 255288		DATE	08/10/2023	MAPPING	ORDNANCE SURVEY	Not Adjusted	CUSTOMER		VATTENFALL
	Albert Road FAX: +44(0)8456 255244		SCALE	1:500	SIZE	A3	PINCH POINT IDENTIFIED BY	CLIENT	SITE	SOUTH KYLE II WIND FARM
Halifax, HX2 0DF WEB: www.collett.co.uk										



Swept Path indicates trailer utilising AUTOMATIC steering

Seimens Gamesa
SG170 Blade Component
Clamp & Bogie System



Continue on A736 to roundabout junction with M8.
At roundabout take exit onto M8.

****Caution****

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- Ground to be prepared to accept suitable axle loadings.

UK Grid Reference: NS 51985 66367

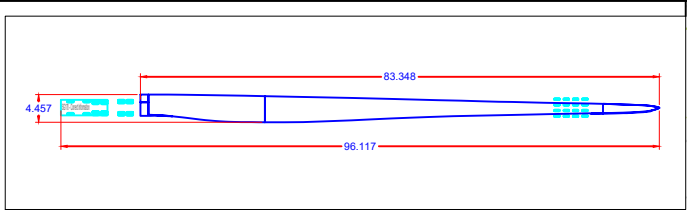
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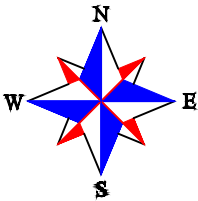
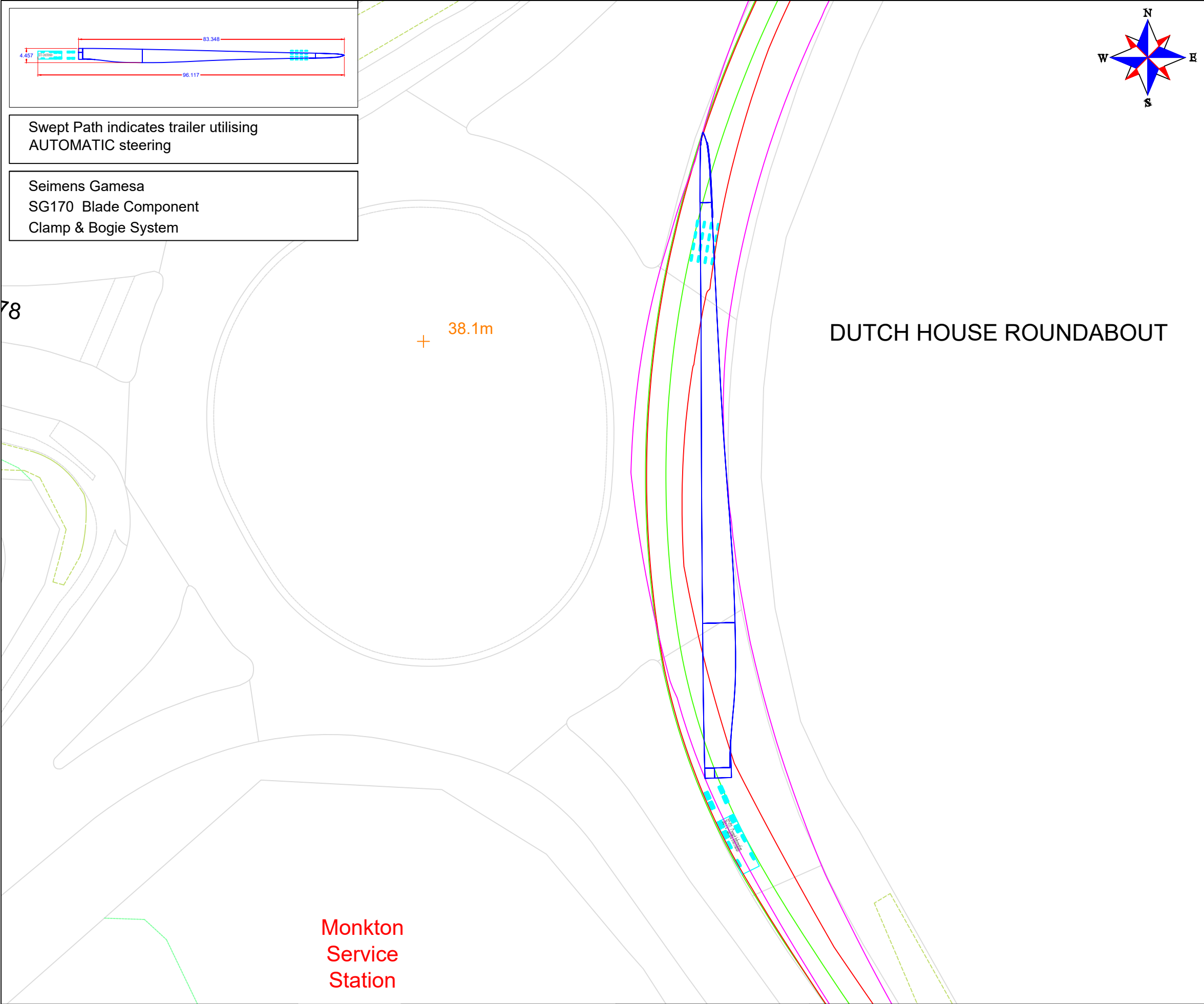
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DRAWN	S.BUDGEN	TITLE		A736 / M8 ROUNDABOUT	
DATE	08/10/2023	MAPPING	ORDNANCE SURVEY	CUSTOMER	
SCALE	1:500	SIZE	A3	PINCH POINT IDENTIFIED BY	CLIENT
				SITE	SOUTH KYLE II WIND FARM
				DWG. NO.	384703-80A1.1



Swept Path indicates trailer utilising AUTOMATIC steering

Seimens Gamesa
SG170 Blade Component
Clamp & Bogie System



Take the 1st exit to continue on the A77.

****Caution****

- Loaded vehicle will navigate this roundabout without any issues.

UK Grid Reference: NS 36630 28694

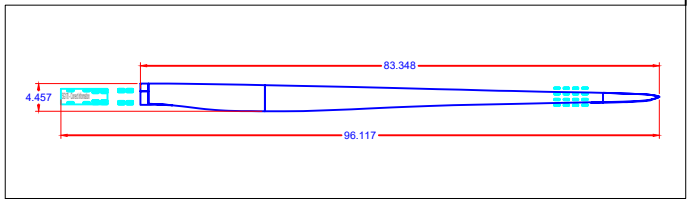
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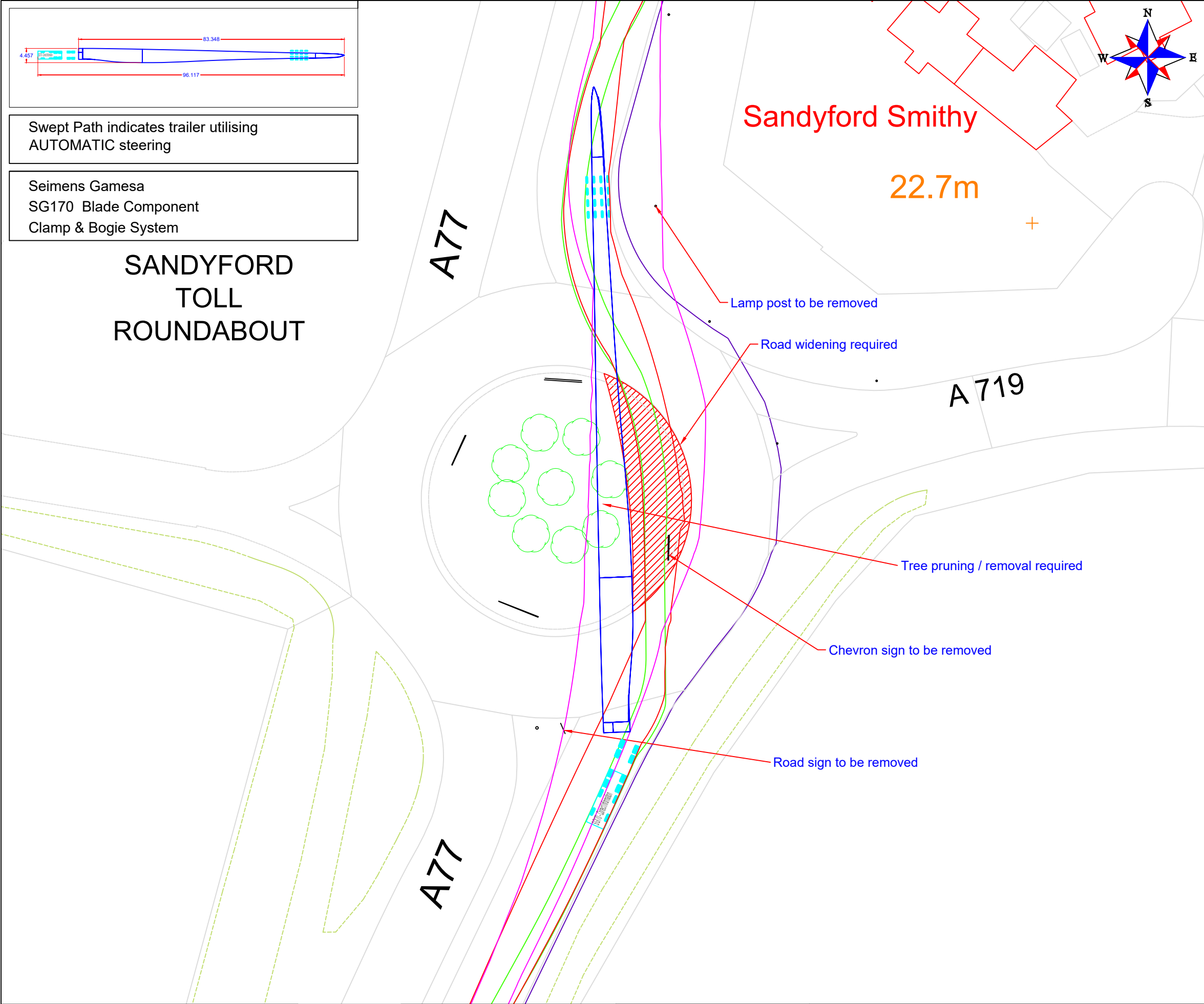
DRAWN	S.BUDGEN	TITLE DUTCH HOUSE ROUNDABOUT			
DATE	08/10/2023	MAPPING	ORDNANCE SURVEY <small>Not Adjusted</small>	CUSTOMER VATTENFALL	
SCALE	1:500	SIZE	A3	PINCH POINT IDENTIFIED BY	CLIENT
				SITE	SOUTH KYLE II WIND FARM
				DWG. NO.	384703-90A1.1



Swept Path indicates trailer utilising
AUTOMATIC steering

Seimens Gamesa
SG170 Blade Component
Clamp & Bogie System

SANDYFORD
TOLL
ROUNDAABOUT



- Take the 2nd exit to continue on the A77.
- **Caution****
- Road widening required on the central reservation as shown by the red hatching.
 - The lamp post on the nearside prior to the roundabout is required to be removed.
 - The chevron sign on the roundabout and road sign on the splitter island is required to be removed.
 - Tree pruning is required on the center of the roundabout.

UK Grid Reference: NS 38021 25652

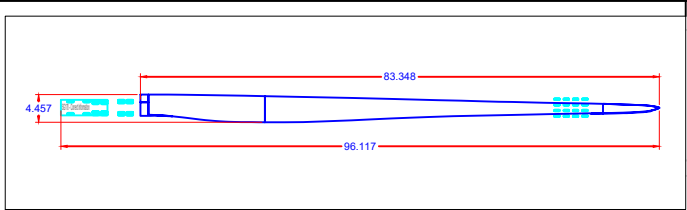
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- Police escorts and permits will be required for the movement of all of the components. Form 'BE16' permits will also be required to undertake the movement of the vehicle shown in the swept path analysis. These permits are at the discretion of the Highway Agency (HA). Therefore, approval of these 'permits for movements' by the HA are a major consideration before the physical capability to deliver these components are undertaken.
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- The Turbine Manufactures Transport Guidance Notes will state the minimum road width required for the transport of components. Any roads below this stated width will require widening to reflect this regardless of any swept path analysis not indicating modifications.
- The information is privileged and confidential and is for the exclusive use of the nominated client.
- All dimensions in meters
- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

- Area within red outline will be swept by tractor and trailer axles
- Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body



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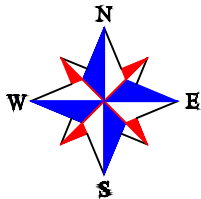
DRAWN S.BUDGEN		TITLE SANDYFORD TOLL ROUNDAABOUT	
DATE 08/10/2023		MAPPING ORDNANCE SURVEY <small>Not Adjusted</small>	CUSTOMER VATTENFALL
SCALE 1:500	SIZE A3	PINCH POINT IDENTIFIED BY CLIENT	SITE SOUTH KYLE II WIND FARM
		DWG. NO	384703-100A1.1



Swept Path indicates trailer utilising AUTOMATIC steering

Seimens Gamesa
SG170 Blade Component
Clamp & Bogie System

D ROUNDABOUT



Take the 1st exit to continue on the A713.

****Caution****

- The lamp post on the nearside is required to be removed as indicated to allow the loaded blade to oversail.

UK Grid Reference: NS 35493 19284

- The swept path analysis provided is produced from a purely transport orientated view, and does not consider any political issues in terms of land ownership, or any other precincts raised, that may otherwise be restrictive.
- The drawing has been produced from Ordnance Survey Data. A site visit has **not** been conducted to verify road widths or the presence of street furniture.
- All swept path diagrams and assessments are made and calculated for the road movement of loaded trailer equipment carrying Turbine components. These dimensions are based on the turning circles and specification of Collett & Sons Ltd trailer equipment.
- This SPA is a means of providing evidence of minimum requirements of any one vehicle as a footprint and there is no safety factor or margin included.
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- All dimensions in meters
- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

Lamp post to be removed

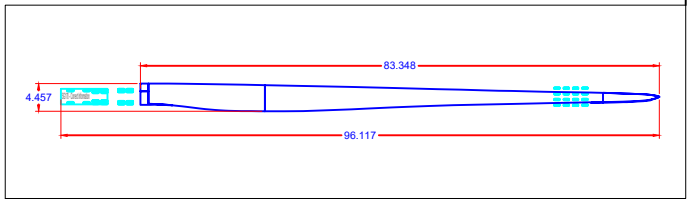
33.1m

- Area within red outline will be swept by tractor and trailer axles
- Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body



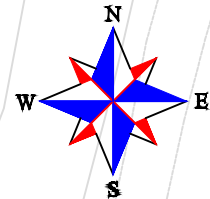
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DRAWN	S.BUDGEN	TITLE		BANKFIELD ROUNDABOUT	
DATE	08/10/2023	MAPPING	ORDNANCE SURVEY <small>Not Adjusted</small>	CUSTOMER	
SCALE	1:750	SIZE	A3	PINCH POINT IDENTIFIED BY	CLIENT
		SITE	SOUTH KYLE II WIND FARM		DWG. NO
				384703-130A1.1	



Swept Path indicates trailer utilising
AUTOMATIC steering

Seimens Gamesa
SG170 Blade Component
Clamp & Bogie System



Continue on the A713.

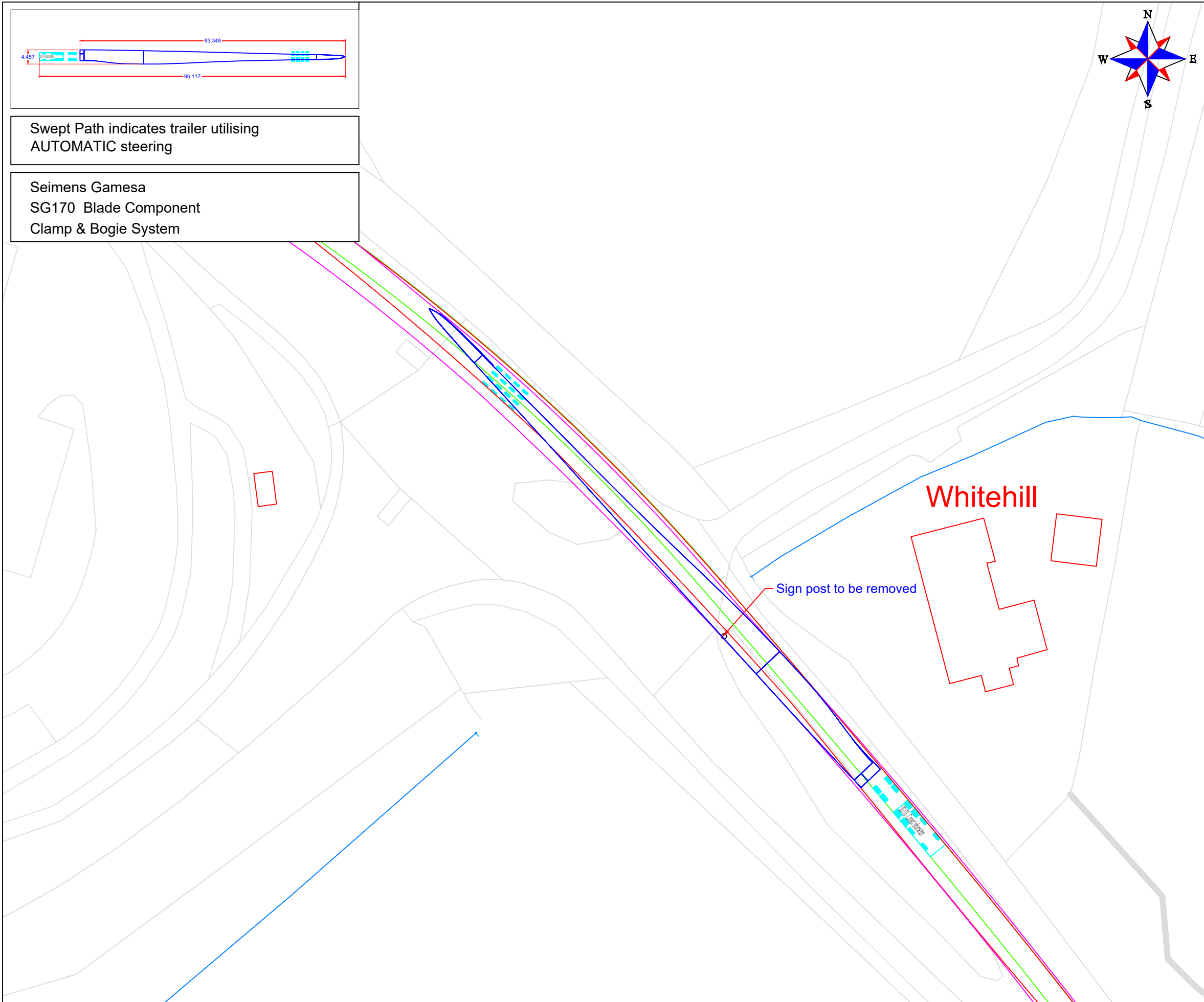
****Caution****


- The sign post on the splitter island is required to be removed as indicated to allow the loaded blade to navigate.

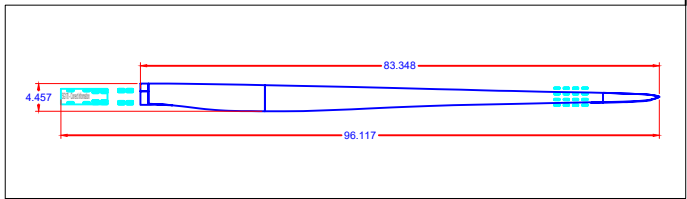
UK Grid Reference: NS 36307 18635

- The swept path analysis provided is produced from a purely transport orientated view, and does not consider any political issues in terms of land ownership, or any other precincts raised, that may otherwise be restrictive.
- The drawing has been produced from Ordnance Survey Data. A site visit has **not** been conducted to verify road widths or the presence of street furniture.
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- All dimensions in meters
- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

- Area within red outline will be swept by tractor and trailer axles
- Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body

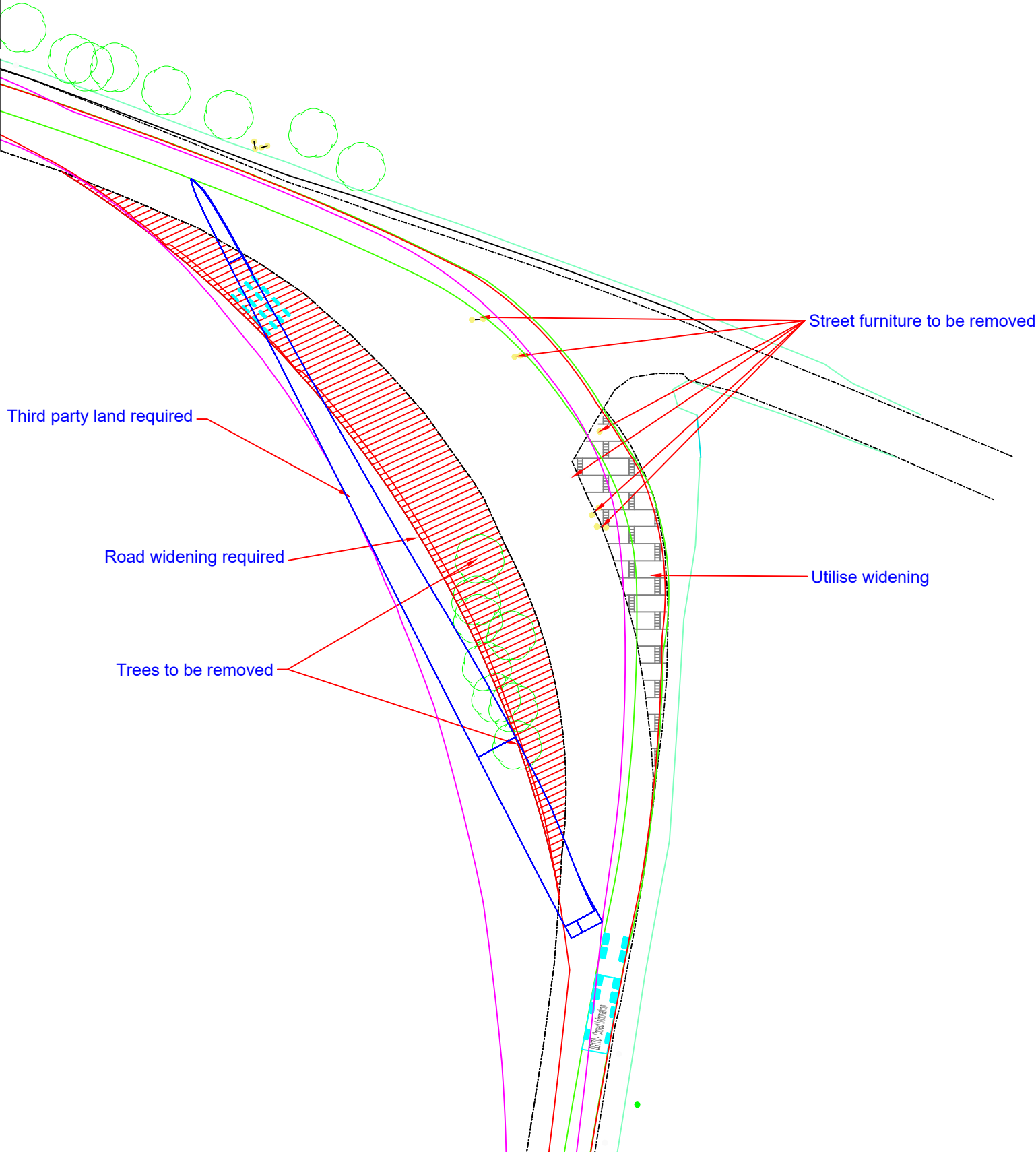
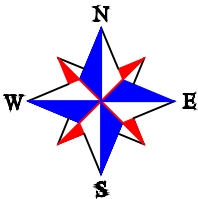


	COLLETT & SONS LIMITED Victoria Terminal TEL: +44(0)8456 255288 Albert Road FAX: +44(0)8456 255244 Halifax, HX2 0DF WEB: www.collett.co.uk	DRAWN S.BUDGEN		TITLE WOODEND COTTAGES A713 / DALMELLINGTON ROAD JUNCTION				
		DATE 08/10/2023		MAPPING ORDNANCE SURVEY <small>Not Adjusted</small>		CUSTOMER VATTENFALL		
		SCALE 1:750	SIZE A3	PINCH POINT IDENTIFIED BY CLIENT		SITE SOUTH KYLE II WIND FARM		DWG. NO 384703-140A1.1



Swept Path indicates trailer utilising AUTOMATIC steering

Seimens Gamesa
SG170 Blade Component
Clamp & Bogie System




Continue on the A713.

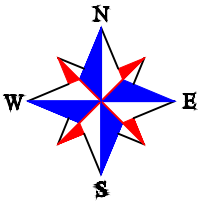
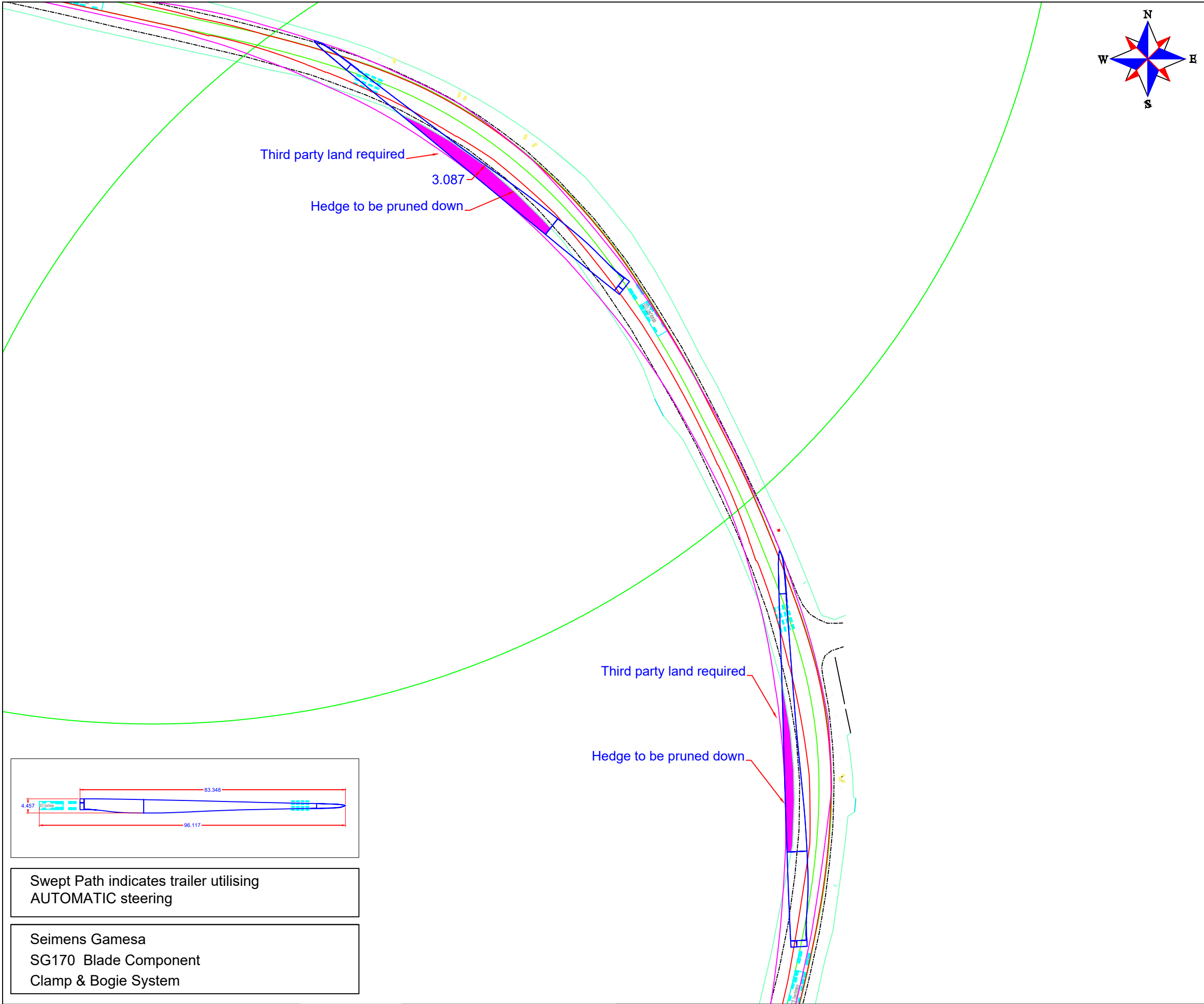
****Caution****

- Third party land is required on the offside of the bend as indicated as the loaded blade vehicle navigates the bend.
- Road widening is required on the offside as indicated by the red hatching.
- The removable street furniture on the nearside is required to be removed during deliveries.
- Tree removal is required on the offside as indicated.

UK Grid Reference: NS 40280 14594

- The swept path analysis provided is produced from a purely transport orientated view, and does not consider any political issues in terms of land ownership, or any other precincts raised, that may otherwise be restrictive.
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- The information is privileged and confidential and is for the exclusive use of the nominated client.
- All dimensions in meters
- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

- Area within red outline will be swept by tractor and trailer axles
-  Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body




Continue on the A713.

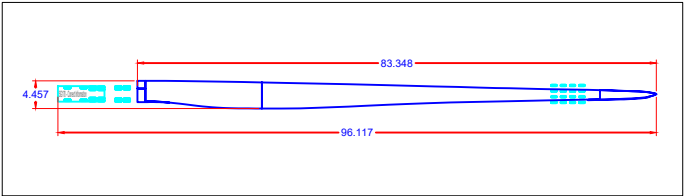
****Caution****

- Third party land is required on the nearside as indicated by the magenta hatching.
- The hedgerow on the nearside of both bends are required to be pruned down to allow the loaded blade to oversail.

UK Grid Reference: NS 40673 13730 -
NS 40606 13844

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- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

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- Area within green outline will be oversailed by trailer body



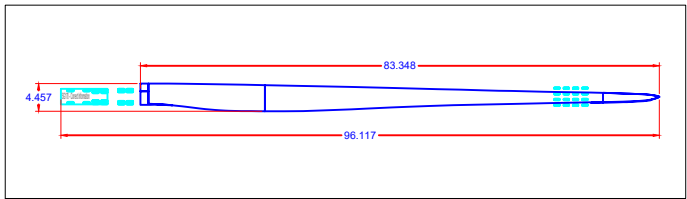
Swept Path indicates trailer utilising
AUTOMATIC steering

Seimens Gamesa
SG170 Blade Component
Clamp & Bogie System



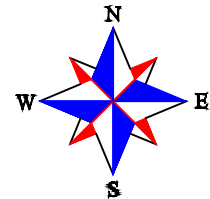
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Albert Road FAX: +44(0)8456 255244
Halifax, HX2 0DF WEB: www.collett.co.uk

DRAWN	S.BUDGEN	TITLE	DOUBLE RIGHT HAND BEND ON THE A713		
DATE	08/10/2023	MAPPING	ORDNANCE SURVEY <small>Not Adjusted</small>	CUSTOMER	VATTENFALL
SCALE	1:750	SIZE	A3	PINCH POINT IDENTIFIED BY	CLIENT
			SITE	SOUTH KYLE II WIND FARM	DWG. NO 384703-160A1.1



Swept Path indicates trailer utilising
AUTOMATIC steering

Seimens Gamesa
SG170 Blade Component
Clamp & Bogie System



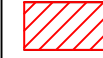
Continue on the A713.

****Caution****

- Third party land is required on the offside of the bend to allow the rear projection to oversail.
- Road widening is required indicated by the red hatching.
- The telegraph pole, chevron sign and 15 plastic bollards are required to be removed on the offside as indicated.

UK Grid Reference: NS 40554 13346

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- All dimensions in meters
- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

- Area within red outline will be swept by tractor and trailer axles
-  Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body

Third party land required

Road widening required

3.436

Telegraph pole to be removed

Chevron signs to be removed

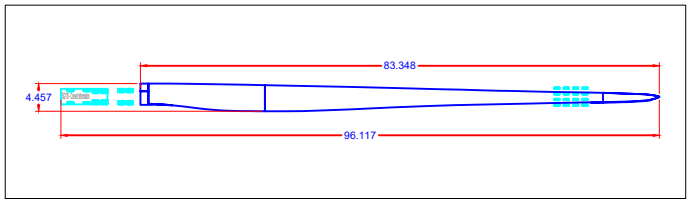
0.906

15 bollards to be removed



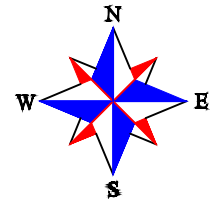
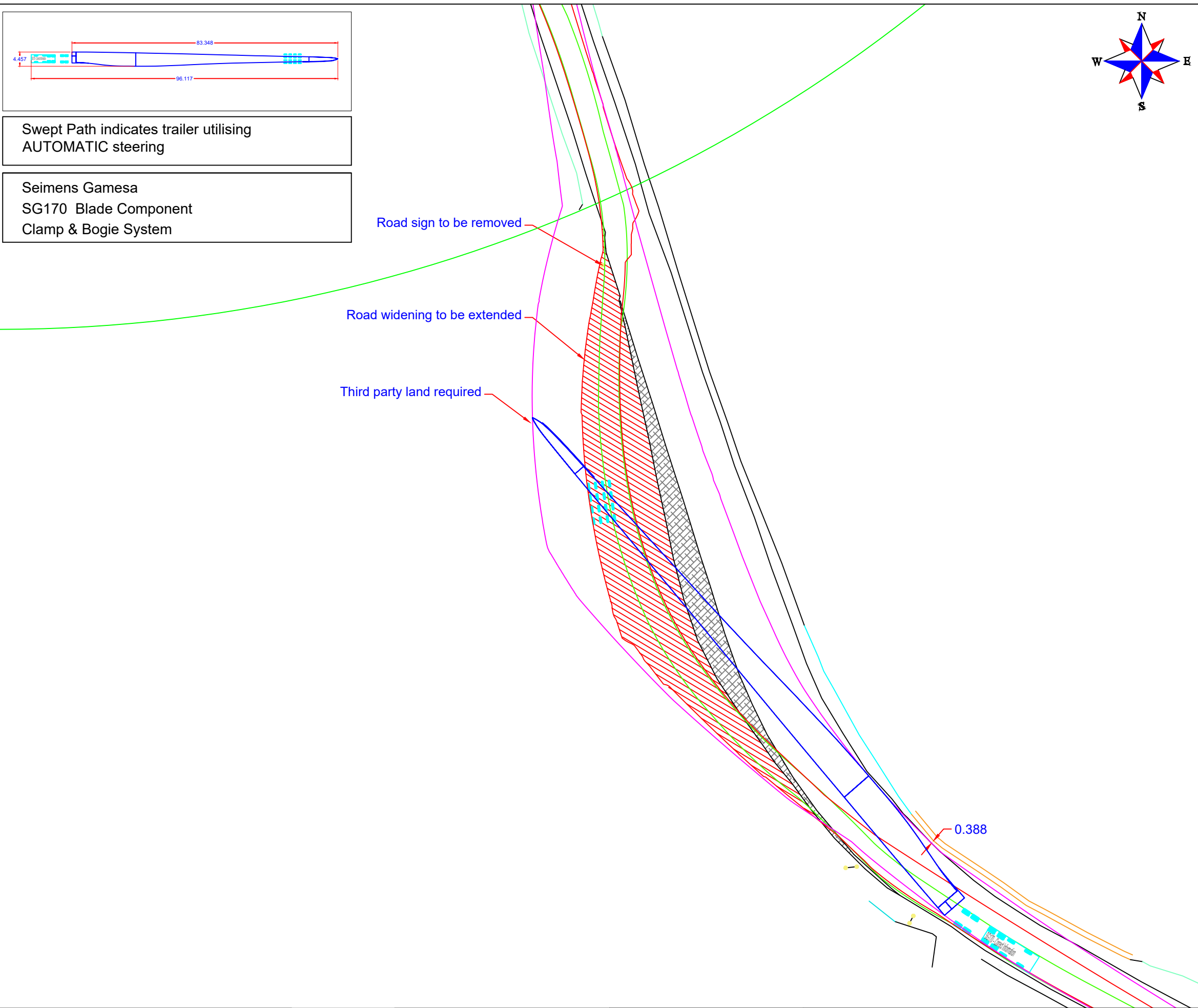
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Halifax, HX2 0DF WEB: www.collett.co.uk

DRAWN	S.BUDGEN	TITLE		LEFT HAND BEND ON A713	
DATE	08/10/2023	MAPPING	ORDNANCE SURVEY <small>Not Adjusted</small>	CUSTOMER	
SCALE	1:500	SIZE	A3	PINCH POINT IDENTIFIED BY	CLIENT
		SITE	SOUTH KYLE II WIND FARM		DWG. NO 384703-170A1.1



Swept Path indicates trailer utilising
AUTOMATIC steering

Seimens Gamesa
SG170 Blade Component
Clamp & Bogie System




Continue on the A713.

****Caution****

- Third party land is required on the offside of the bend to allow the rear projection to oversail.
- The existing road widening is required to be extended as per the red hatching to accommodate the length of the loaded vehicle.
- The road sign on the offside is required to be removed as indicated.

UK Grid Reference: NS 40609 13180

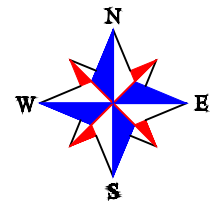
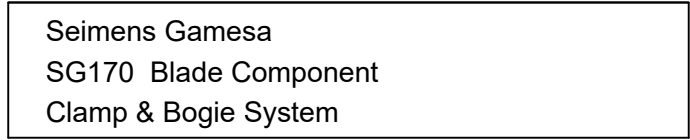
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- All dimensions in meters
- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

- Area within red outline will be swept by tractor and trailer axles
-  Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body



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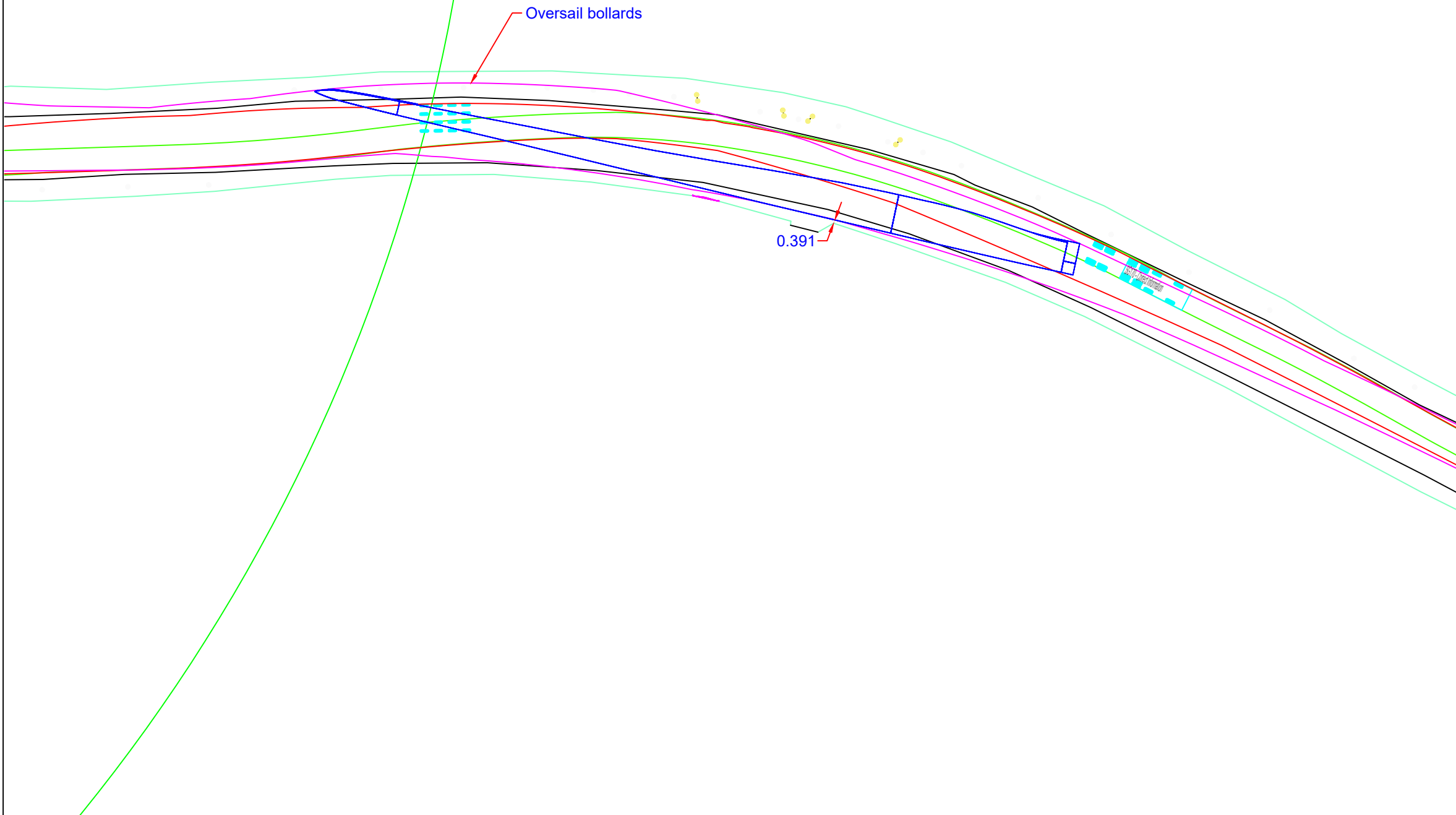
DRAWN	S.BUDGEN	TITLE		LEFT HAND BEND / BRIDGE ON A713	
DATE	08/10/2023	MAPPING	ORDNANCE SURVEY	CUSTOMER	
SCALE	1:500	SIZE	A3	PINCH POINT IDENTIFIED BY	CLIENT
				SITE	SOUTH KYLE II WIND FARM
				DWG. NO	384703-180A1.1

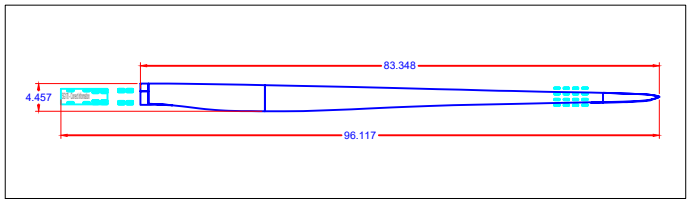


- Third party land is required on the offside of the bend due to the cord of the blade oversailing. - shown by the magenta hatching.

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- All dimensions in meters
- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

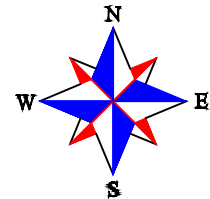
- Area within red outline will be swept by tractor and trailer axles
- Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body





Swept Path indicates trailer utilising
AUTOMATIC steering

Seimens Gamesa
SG170 Blade Component
Clamp & Bogie System




Continue on the A713.

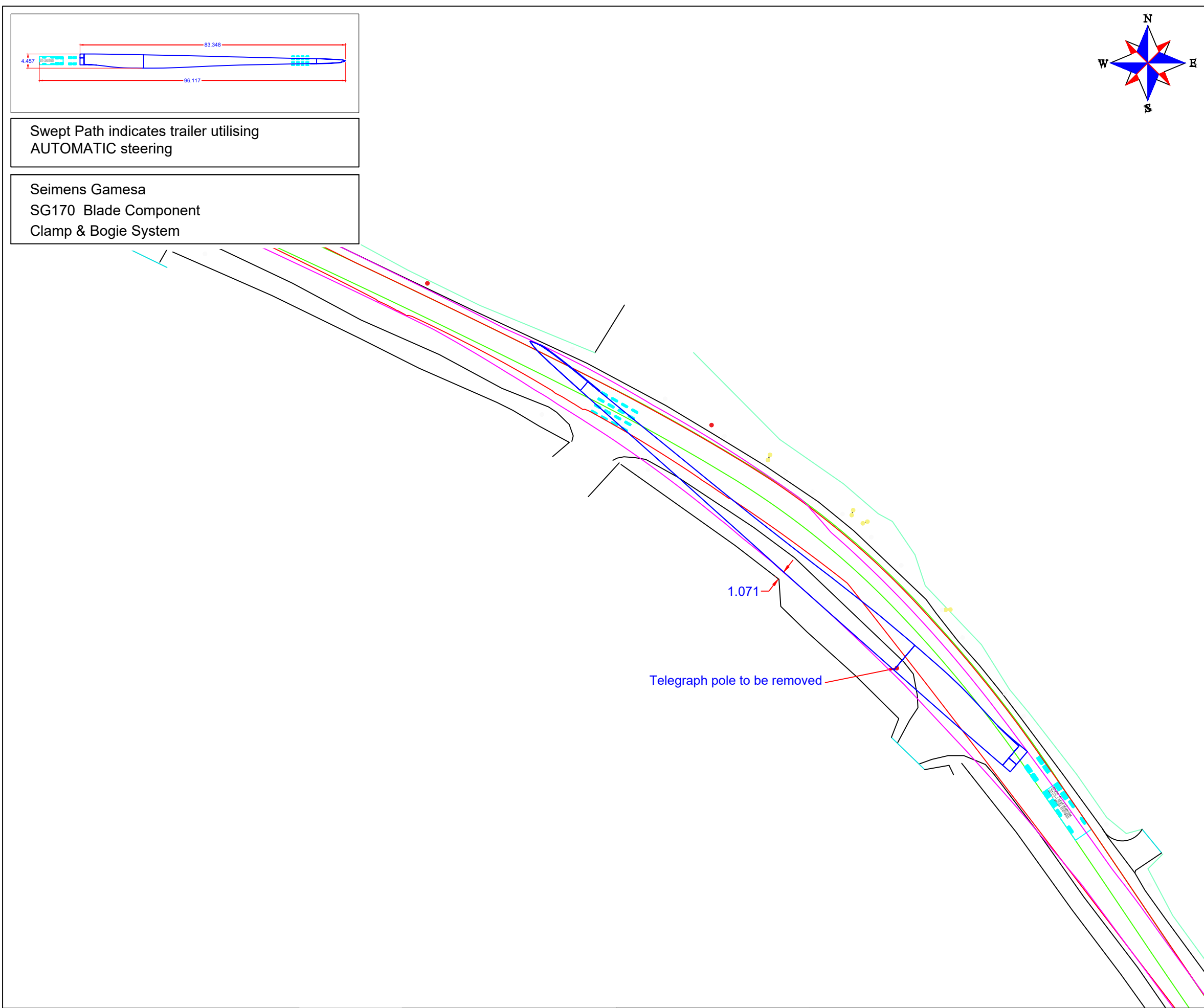
****Caution****


- The telegraph poles on either side of the A713 are required to be removed as indicated to allow blade projections to oversail.
- The 2 bollards on the offside will be oversailed by the loaded blade.

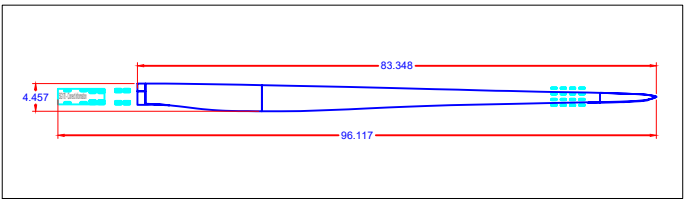
UK Grid Reference: NS 41323 12868

- The swept path analysis provided is produced from a purely transport orientated view, and does not consider any political issues in terms of land ownership, or any other precincts raised, that may otherwise be restrictive.
- The drawing has been produced from Ordnance Survey Data. A site visit has **not** been conducted to verify road widths or the presence of street furniture.
- All swept path diagrams and assessments are made and calculated for the road movement of loaded trailer equipment carrying Turbine components. These dimensions are based on the turning circles and specification of Collett & Sons Ltd trailer equipment.
- This SPA is a means of providing evidence of minimum requirements of any one vehicle as a footprint and there is no safety factor or margin included.
- Turbine delivery vehicles can be both left and right hand drive vehicles, therefore due to drivers perception it must be assumed that every vehicle will not follow the exact same line and so a margin of additional space should be allowed for.
- Land take is usually referred to when land is required from Private Land Owners; road widening is usually referred to when land is required within highways boundaries. The boundaries between private land and highways property are assumed by using obvious demarcation such as fence lines/hedges etc. It should be noted that actual boundaries between highways and private land are not substantiated in this report and can only be authenticated by carrying out land searches.
- Police escorts and permits will be required for the movement of all of the components. Form 'BE16' permits will also be required to undertake the movement of the vehicle shown in the swept path analysis. These permits are at the discretion of the Highway Agency (HA). Therefore, approval of these 'permits for movements' by the HA are a major consideration before the physical capability to deliver these components are undertaken.
- In critical areas, where modifications are required, the road construction must be formed to the minimum specification contained in the Turbine Manufactures Transport Guidance Notes.
- The Turbine Manufactures Transport Guidance Notes will state the minimum road width required for the transport of components. Any roads below this stated width will require widening to reflect this regardless of any swept path analysis not indicating modifications.
- The information is privileged and confidential and is for the exclusive use of the nominated client.
- All dimensions in meters
- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

- Area within red outline will be swept by tractor and trailer axles
-  Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body

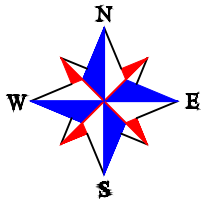


	COLLETT & SONS LIMITED		DRAWN	S.BUDGEN	TITLE				RIGHT HAND BEND NEXT TO 'SMITHSTON FARM' ON A713					
	Victoria Terminal TEL: +44(0)8456 255288		DATE		08/10/2023		MAPPING		ORDNANCE SURVEY		CUSTOMER		VATTENFALL	
	Albert Road FAX: +44(0)8456 255244		SCALE		1:500		SIZE		A3		PINCH POINT IDENTIFIED BY		CLIENT	
	Halifax, HX2 0DF WEB: www.collett.co.uk										SITE		SOUTH KYLE II WIND FARM	
											DWG. NO		384703-200A1.1	



Swept Path indicates trailer utilising
AUTOMATIC steering

Seimens Gamesa
SG170 Blade Component
Clamp & Bogie System




Continue on the A713.

****Caution****

- Third party land is required on the nearside of the A713 as shown by the magenta hatching.
- The telegraph pole on the nearside is require to be removed to allow the loaded blade to oversail.
- Any bollards on the offside of the road will be oversailed by the rear projection.

UK Grid Reference: NS 41557 12397

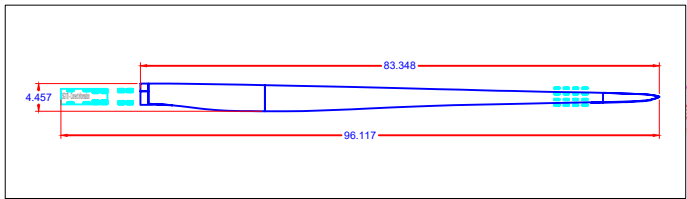
- The swept path analysis provided is produced from a purely transport orientated view, and does not consider any political issues in terms of land ownership, or any other precincts raised, that may otherwise be restrictive.
- The drawing has been produced from Ordnance Survey Data. A site visit has **not** been conducted to verify road widths or the presence of street furniture.
- All swept path diagrams and assessments are made and calculated for the road movement of loaded trailer equipment carrying Turbine components. These dimensions are based on the turning circles and specification of Collett & Sons Ltd trailer equipment.
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- The information is privileged and confidential and is for the exclusive use of the nominated client.
- All dimensions in meters
- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

- Area within red outline will be swept by tractor and trailer axles
-  Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body



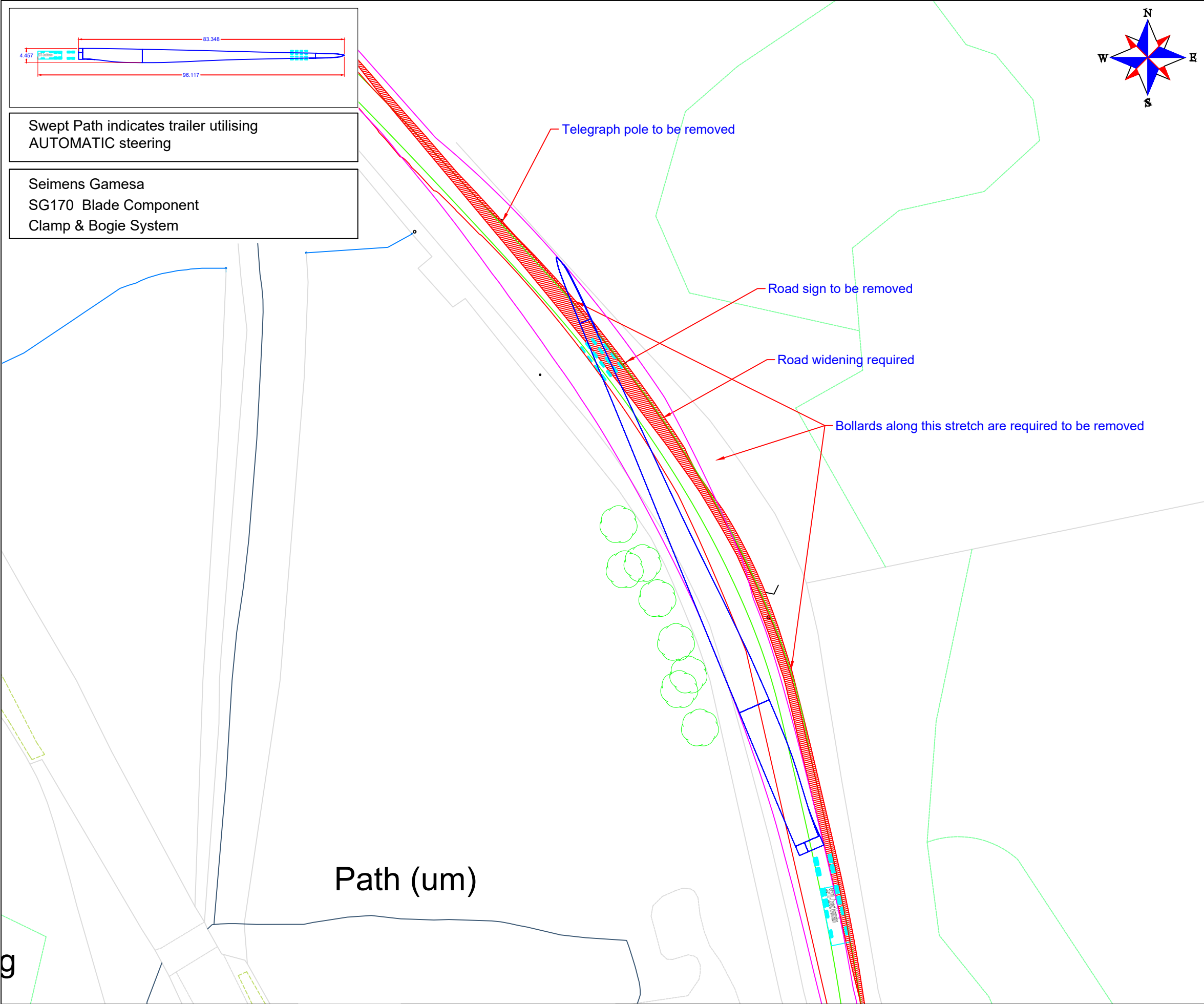
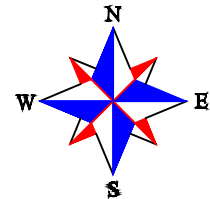
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Halifax, HX2 0DF WEB: www.collett.co.uk

DRAWN	S.BUDGEN	TITLE LEFT HAND BEND ON A713 EAST OF 'CARNOCHAN FARM'			
DATE	08/10/2023	MAPPING	ORDNANCE SURVEY	CUSTOMER VATTENFALL	
SCALE	1:500	SIZE	A3	PINCH POINT IDENTIFIED BY	CLIENT
				SITE	SOUTH KYLE II WIND FARM
				DWG. NO	384703-210A1.1



Swept Path indicates trailer utilising AUTOMATIC steering

Seimens Gamesa
SG170 Blade Component
Clamp & Bogie System



Continue on the A713.

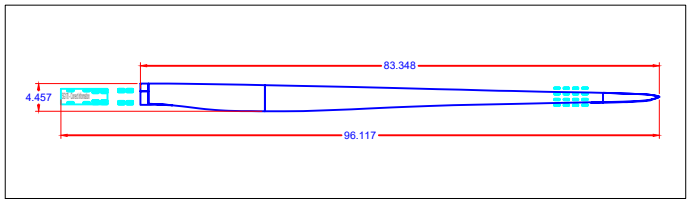
****Caution****

- The sign post on the offside of the bend is required to be removed as indicated.
- Tree / vegetation pruning is required on the offside as indicated to allow the loaded blade to oversail as needed.

UK Grid Reference: NS 41846 12017

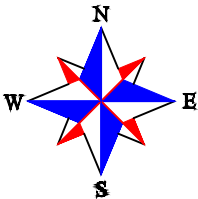
- The swept path analysis provided is produced from a purely transport orientated view, and does not consider any political issues in terms of land ownership, or any other precincts raised, that may otherwise be restrictive.
- The drawing has been produced from Ordnance Survey Data. A site visit has **not** been conducted to verify road widths or the presence of street furniture.
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- The information is privileged and confidential and is for the exclusive use of the nominated client.
- All dimensions in meters
- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

- Area within red outline will be swept by tractor and trailer axles
- Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body



Swept Path indicates trailer utilising
AUTOMATIC steering

Seimens Gamesa
SG170 Blade Component
Clamp & Bogie System



Continue on the A713.

****Caution****

- The loaded vehicle will navigate this bend without any issues utilising manual steering.

UK Grid Reference: NS 41742 11067

- The swept path analysis provided is produced from a purely transport orientated view, and does not consider any political issues in terms of land ownership, or any other precincts raised, that may otherwise be restrictive.
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- The information is privileged and confidential and is for the exclusive use of the nominated client.
- All dimensions in meters
- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

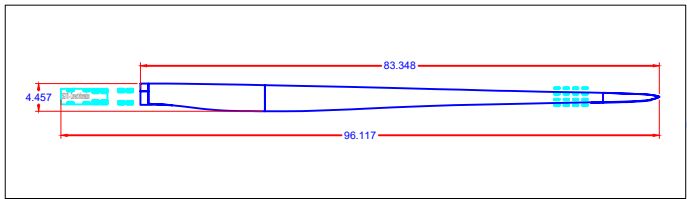
- Area within red outline will be swept by tractor and trailer axles
- Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body

50.25



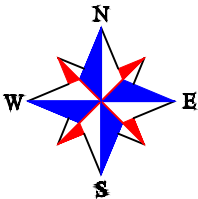
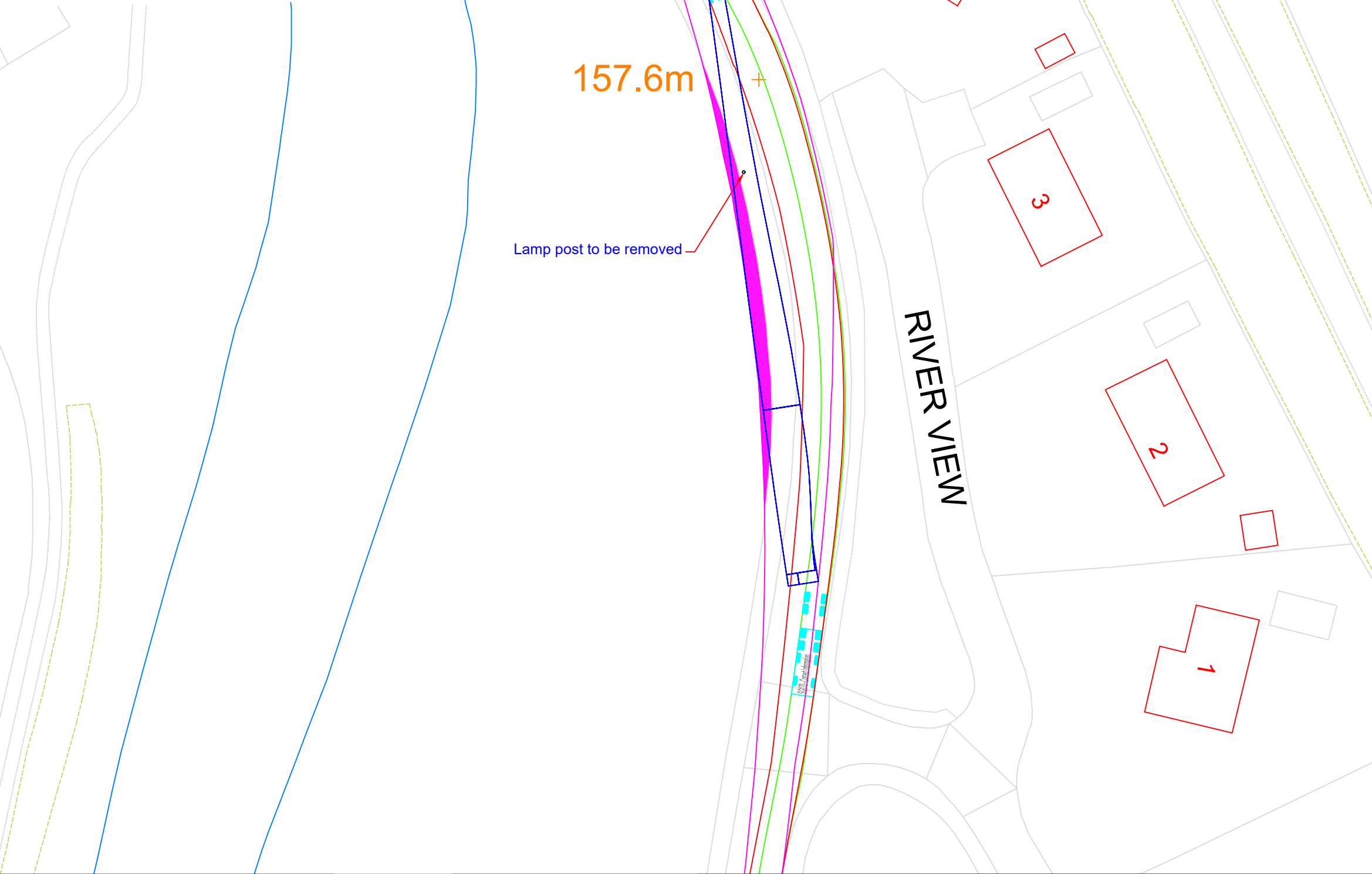
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Albert Road FAX: +44(0)8456 255244
Halifax, HX2 0DF WEB: www.collett.co.uk

DRAWN	S.BUDGEN	TITLE			RIGHT HAND BEND ON A713 PRIOR TO 'PATNA'		
DATE	08/10/2023	MAPPING	ORDNANCE SURVEY	Not Adjusted	CUSTOMER		
SCALE	1:500	SIZE	A3	PINCH POINT IDENTIFIED BY	CLIENT	SITE	SOUTH KYLE II WIND FARM
						DWG. NO	384703-230A1.1



Swept Path indicates trailer utilising
AUTOMATIC steering

Seimens Gamesa
SG170 Blade Component
Clamp & Bogie System



Continue on the A713.

****Caution****

- The lamp post on the offside of the bend is required to be removed as indicated.

UK Grid Reference: NS 41819 10475

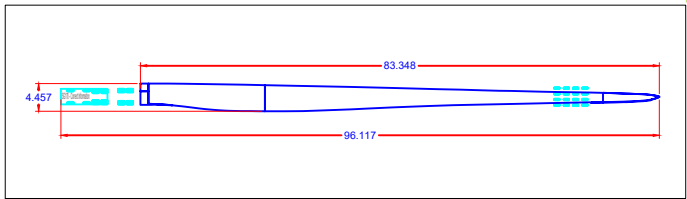
- The swept path analysis provided is produced from a purely transport orientated view, and does not consider any political issues in terms of land ownership, or any other precincts raised, that may otherwise be restrictive.
- The drawing has been produced from Ordnance Survey Data. A site visit has **not** been conducted to verify road widths or the presence of street furniture.
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- The information is privileged and confidential and is for the exclusive use of the nominated client.
- All dimensions in meters
- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

- Area within red outline will be swept by tractor and trailer axles
- Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body



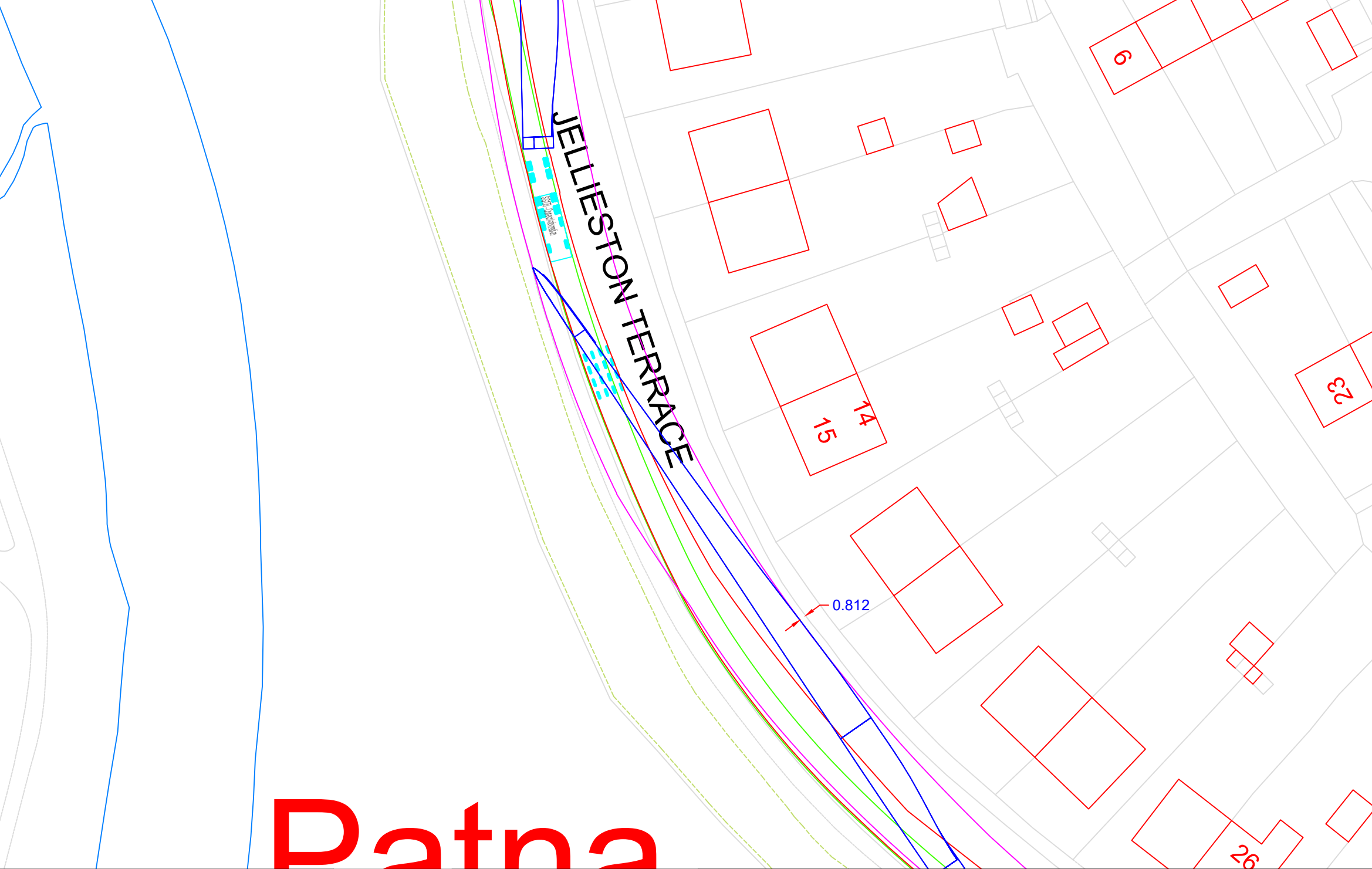
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Albert Road FAX: +44(0)8456 255244
Halifax, HX2 0DF WEB: www.collett.co.uk

DRAWN	S.BUDGEN	TITLE	RIGHT HAND BEND ON A713 OPPOSITE 'DOON VALLEY GOLF CLUB'	
DATE	08/10/2023	MAPPING	ORDNANCE SURVEY <small>Not Adjusted</small>	CUSTOMER
SCALE	1:500	SIZE	A3	PINCH POINT IDENTIFIED BY
			CLIENT	SITE
				SOUTH KYLE II WIND FARM
				DWG. NO
				384703-240A1.1



Swept Path indicates trailer utilising AUTOMATIC steering

Seimens Gamesa
SG170 Blade Component
Clamp & Bogie System



Continue on the A713.

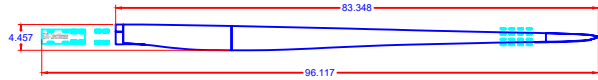
****Caution****

- The loaded vehicle will navigate this bend utilising manual steering.
- Without topographical data of this location, it is difficult to distinguish third party land boundaries - the blade is shown to come within 0.8m of the indicative boundary on the nearside.

UK Grid Reference: NS 41787 10172

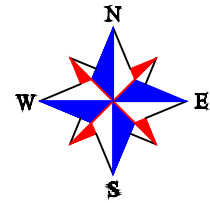
- The swept path analysis provided is produced from a purely transport orientated view, and does not consider any political issues in terms of land ownership, or any other precincts raised, that may otherwise be restrictive.
- The drawing has been produced from Ordnance Survey Data. A site visit has **not** been conducted to verify road widths or the presence of street furniture.
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- All dimensions in meters
- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

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- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body



Swept Path indicates trailer utilising
AUTOMATIC steering

Seimens Gamesa
SG170 Blade Component
Clamp & Bogie System



Continue on the A713.

****Caution****

- The centre line of the road has been taken due to weight requirements on the bridge.
- Third party land is required on the offside of the bridge as the blade oversails.
- The loaded blade comes within 0.53m of the electrical stays - Please note this is an indicative measurement.
- The loaded blade is shown to oversail the parapets of the bridge on the offside. The height of these parapets is required to be confirmed to determine the feasibility of this.

UK Grid Reference: NS 47235 06245

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- The information is privileged and confidential and is for the exclusive use of the nominated client.
- All dimensions in meters
- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

- Area within red outline will be swept by tractor and trailer axles
- Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body

Centre line

0.531

ELECTRICAL STAYS

Area to be cleared of obstruction

Oversail parapet - height to be confirmed

Third party oversail

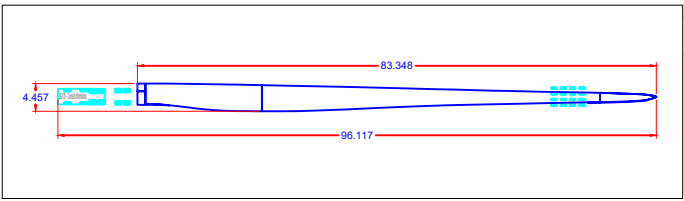
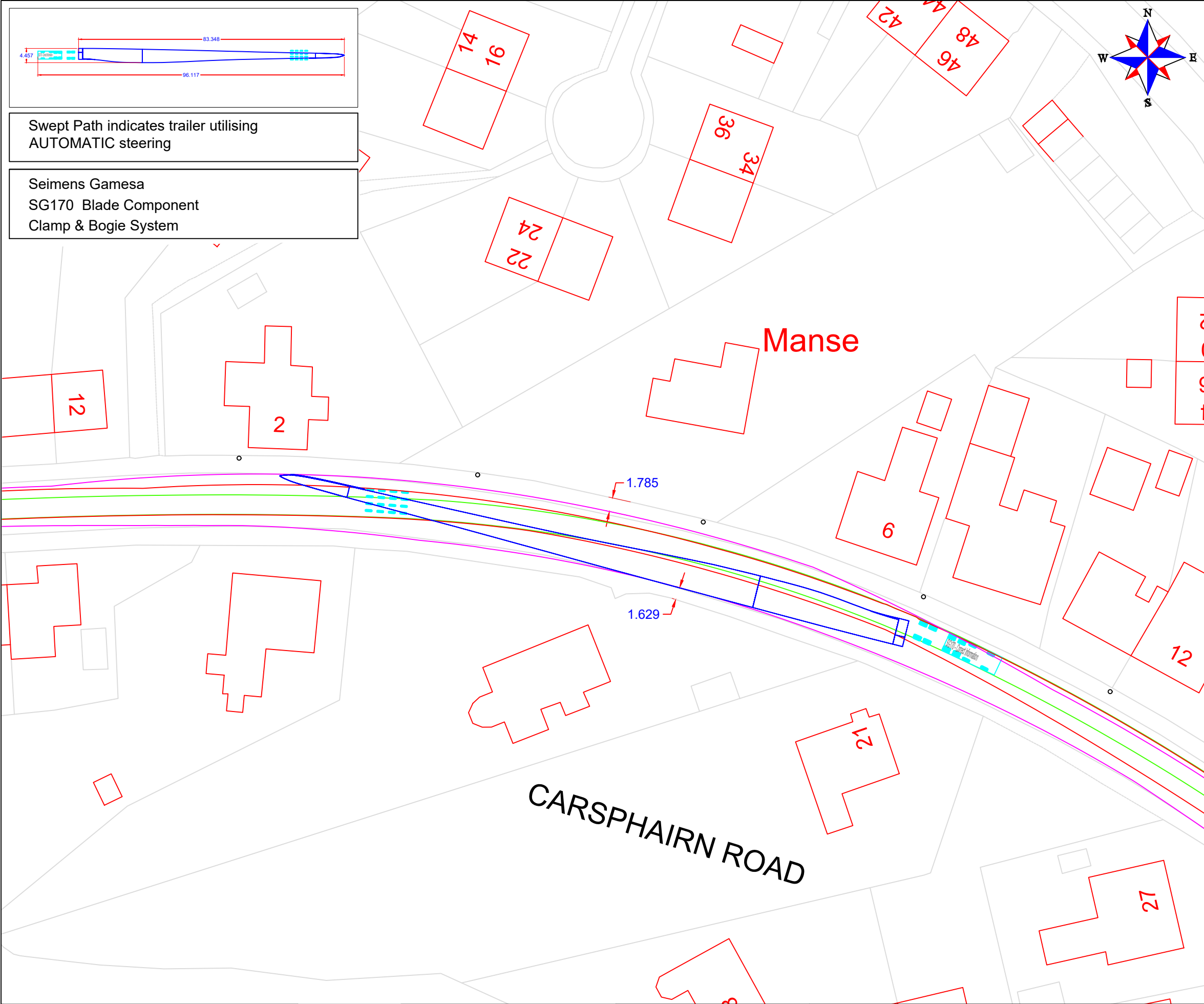
COLLETT
EXPERTS IN MOTION

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Halifax, HX2 0DF WEB: www.collett.co.uk

DRAWN S.BUDGEN
DATE 13/09/2023
SCALE 1:500 SIZE A3

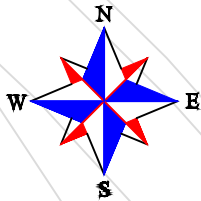
TITLE A713 - BUCHANS BRIDGE PRIOR TO DALMELINGTON
MAPPING ORDNANCE SURVEY Not Adjusted
PINCH POINT IDENTIFIED BY CLIENT

CUSTOMER VATTENFALL
SITE SOUTH KYLE II WIND FARM
DWG. NO 384703-260A1.1



Swept Path indicates trailer utilising AUTOMATIC steering

Seimens Gamesa
SG170 Blade Component
Clamp & Bogie System




Continue on the A713.


****Caution****

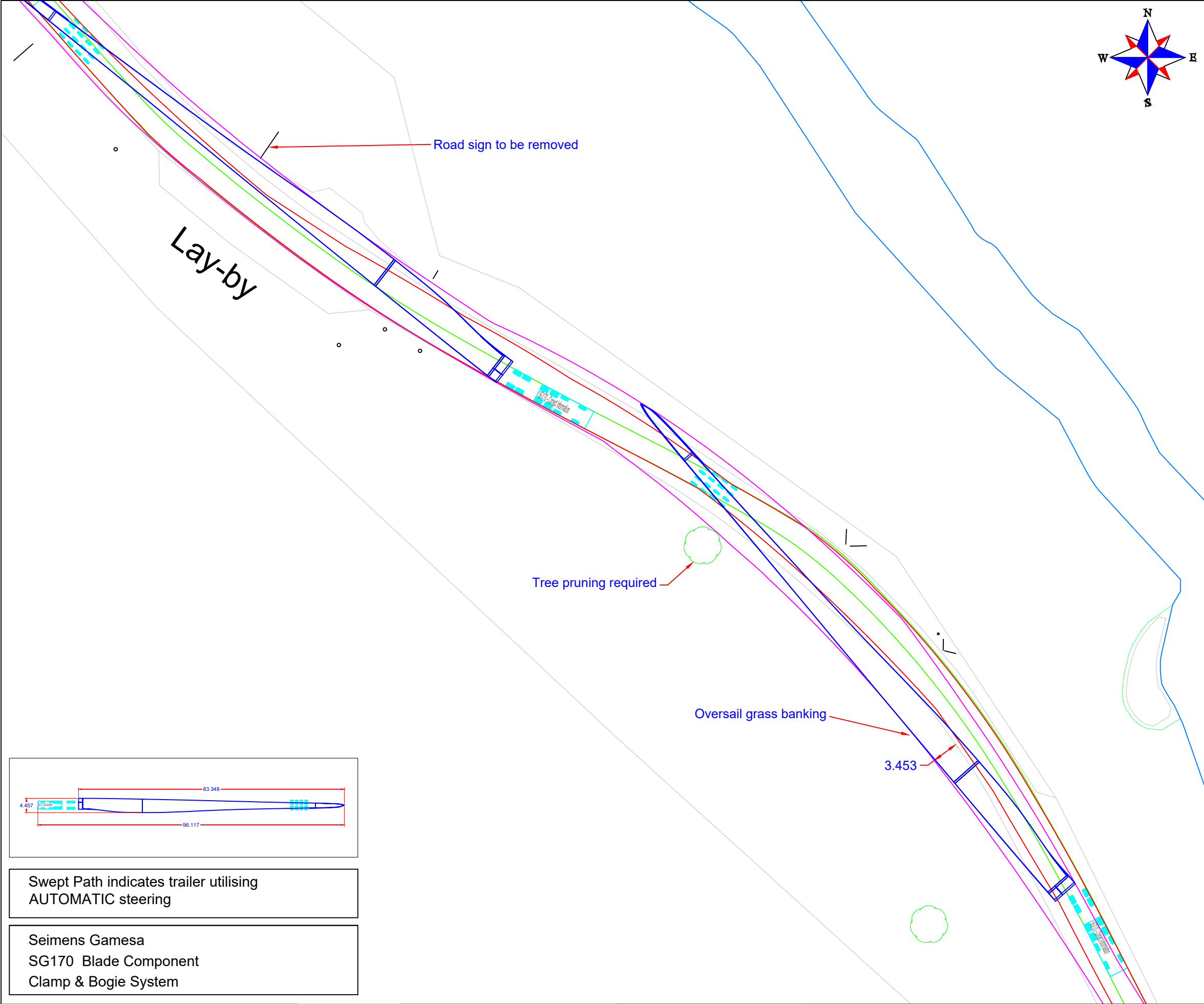
- The 2 lamp posts on the nearside are required to be removed as indicated.

UK Grid Reference: NS 48377 05647

- The swept path analysis provided is produced from a purely transport orientated view, and does not consider any political issues in terms of land ownership, or any other precincts raised, that may otherwise be restrictive.
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- The Turbine Manufactures Transport Guidance Notes will state the minimum road width required for the transport of components. Any roads below this stated width will require widening to reflect this regardless of any swept path analysis not indicating modifications.
- The information is privileged and confidential and is for the exclusive use of the nominated client.
- All dimensions in meters
- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

- Area within red outline will be swept by tractor and trailer axles
-  Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body

	COLLETT & SONS LIMITED		DRAWN	S.BUDGEN	TITLE				RIGHT HAND BEND ON A713 CARSPHAIRN ROAD								
	Victoria Terminal TEL: +44(0)8456 255288		DATE		08/10/2023		MAPPING		ORDNANCE SURVEY	Not Adjusted		CUSTOMER		VATTENFALL			
	Albert Road FAX: +44(0)8456 255244		SCALE		1:500	SIZE		A3	PINCH POINT IDENTIFIED BY		CLIENT		SITE		SOUTH KYLE II WIND FARM	DWG. NO 384703-270A1.1	
	Halifax, HX2 0DF WEB: www.collett.co.uk																



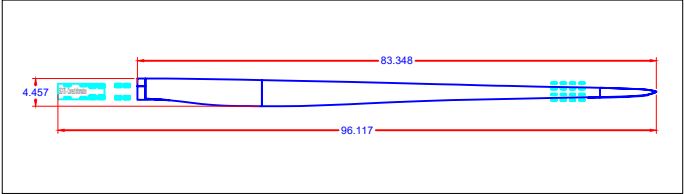
Continue on the A713.

****Caution****

- The road sign on the nearside of the first bend is required to be removed as indicated.
- Tree pruning is required on the offside of the 2nd bend as the loaded blade will oversail the grass banking.

UK Grid Reference: NS 48700 05368


- The swept path analysis provided is produced from a purely transport orientated view, and does not consider any political issues in terms of land ownership, or any other precincts raised, that may otherwise be restrictive.
- The drawing has been produced from Ordnance Survey Data. A site visit has **not** been conducted to verify road widths or the presence of street furniture.
- All swept path diagrams and assessments are made and calculated for the road movement of loaded trailer equipment carrying Turbine components. These dimensions are based on the turning circles and specification of Collett & Sons Ltd trailer equipment.
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- Turbine delivery vehicles can be both left and right hand drive vehicles, therefore due to drivers perception it must be assumed that every vehicle will not follow the exact same line and so a margin of additional space should be allowed for.
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- The information is privileged and confidential and is for the exclusive use of the nominated client.
- All dimensions in meters
- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

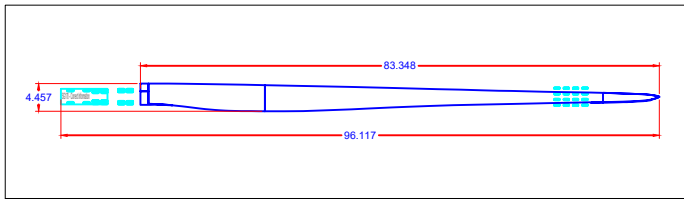


Swept Path indicates trailer utilising
AUTOMATIC steering

Seimens Gamesa
SG170 Blade Component
Clamp & Bogie System

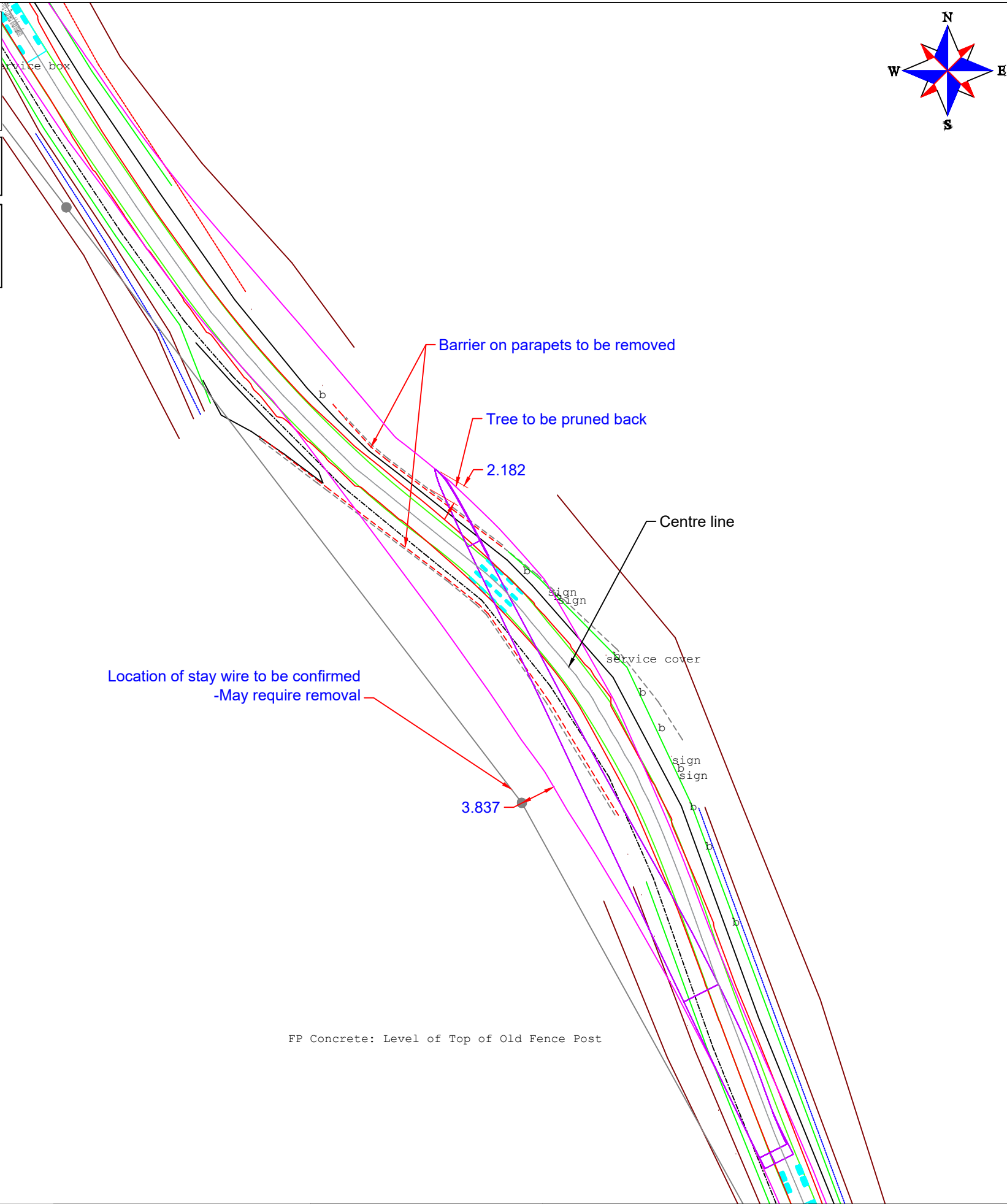
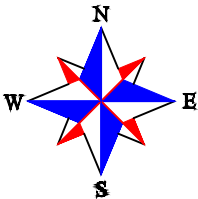
- Area within red outline will be swept by tractor and trailer axles
- ▨ Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body

	COLLETT & SONS LIMITED		DRAWN	S.BUDGEN	TITLE				S BEND ON THE A713 AFTER DALMELLINGTON	
	Victoria Terminal TEL: +44(0)8456 255288		DATE	08/10/2023	MAPPING	ORDNANCE SURVEY	Not Adjusted	CUSTOMER		VATTENFALL
	Albert Road FAX: +44(0)8456 255244		SCALE	1:500	SIZE	A3	PINCH POINT IDENTIFIED BY		CLIENT	
	Halifax, HX2 0DF WEB: www.collett.co.uk						SITE		SOUTH KYLE II WIND FARM	DWG. NO 384703-280A1.1



Swept Path indicates trailer utilising
AUTOMATIC steering

Seimens Gamesa
SG170 Blade Component
Clamp & Bogie System



Continue on the A713.

****Caution****

- The barrier on both parapets is reuired to be removed to allow the loaded blade to oversail the parapets.
- The chevron signs on either side are required to be removed as indicated.
- The location of the Stay from the electric pole is required to be determined. this will require removal if it lays within the swept path of the vehicle.
- The tree is required to be pruned back to the trunk as indicated.

UK Grid Reference: NS 48821 05222

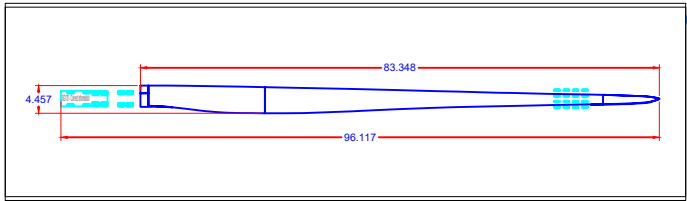
- The swept path analysis provided is produced from a purely transport orientated view, and does not consider any political issues in terms of land ownership, or any other precincts raised, that may otherwise be restrictive.
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- The information is privileged and confidential and is for the exclusive use of the nominated client.
- All dimensions in meters
- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

- Area within red outline will be swept by tractor and trailer axles
- Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body



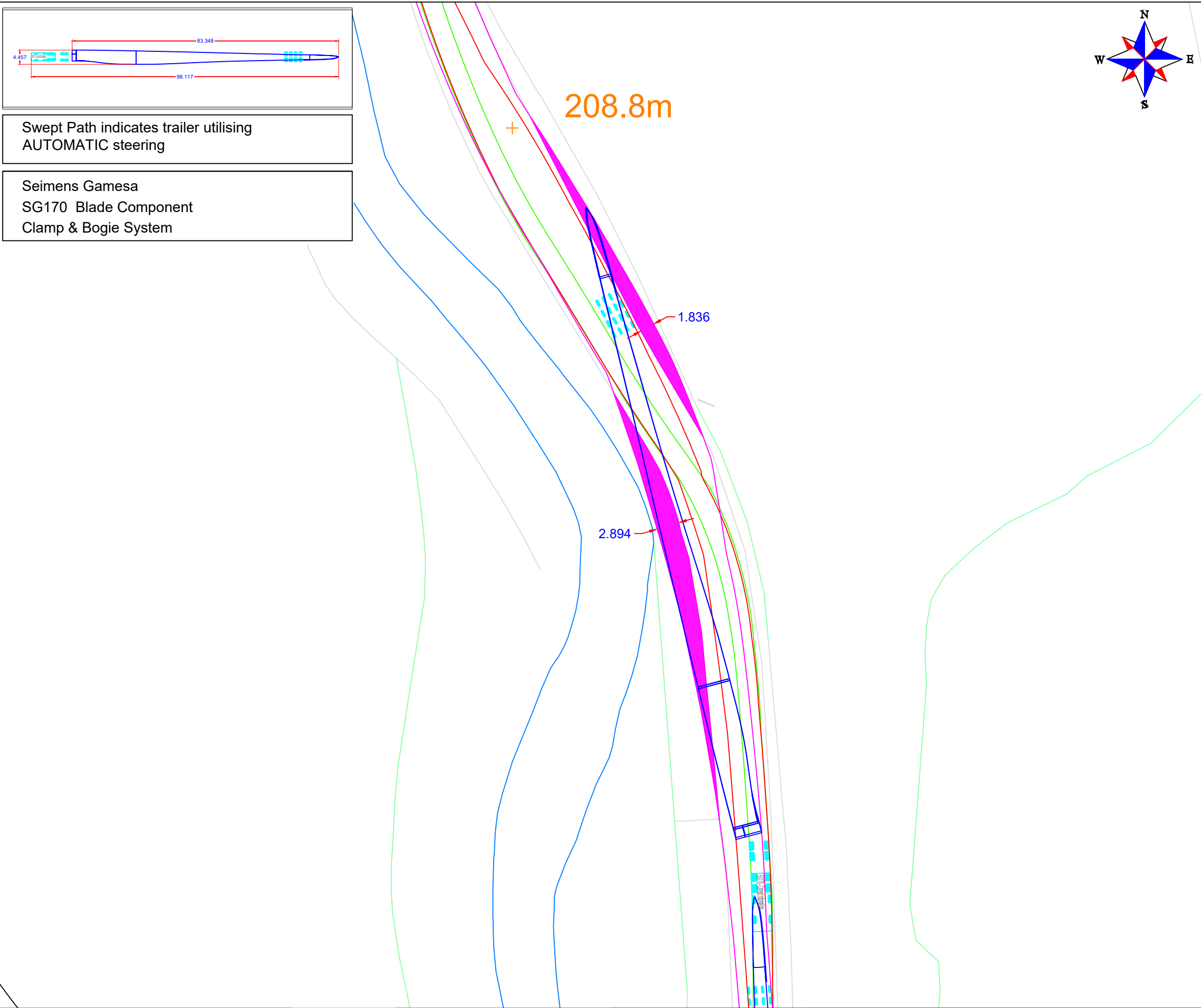
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DRAWN	S.BUDGEN	TITLE BRIDGE OVER RIGHT HAND BEND ON THE A713			
DATE	08/10/2023	MAPPING	ORDNANCE SURVEY	CUSTOMER VATTENFALL	
SCALE	1:500	SIZE	A3	PINCH POINT IDENTIFIED BY	CLIENT
		SITE		DWG. NO	
		SOUTH KYLE II WIND FARM		384703-290A1.1	



Swept Path indicates trailer utilising
AUTOMATIC steering

Seimens Gamesa
SG170 Blade Component
Clamp & Bogie System




Continue on the A713.

****Caution****

- The loaded blade vehicle will navigate this bend utilising manual steering.
- The blade projections will oversail both sides of the road as shown without the need for modifications.

UK Grid Reference: NS 48975 04840

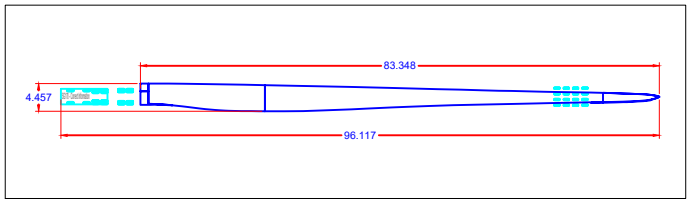
- The swept path analysis provided is produced from a purely transport orientated view, and does not consider any political issues in terms of land ownership, or any other precincts raised, that may otherwise be restrictive.
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- All dimensions in meters
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-  Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body



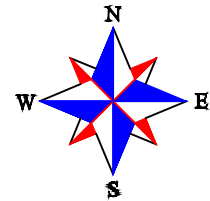
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DRAWN S.BUDGEN		TITLE RIGHT HAND BEND ON THE A713 EAST OF BELLSBANK	
DATE 08/10/2023		MAPPING ORDNANCE SURVEY <small>Not Adjusted</small>	CUSTOMER VATTENFALL
SCALE 1:500	SIZE A3	PINCH POINT IDENTIFIED BY CLIENT	SITE SOUTH KYLE II WIND FARM
		DWG. NO 384703-295A1.1	



Swept Path indicates trailer utilising AUTOMATIC steering

Seimens Gamesa
SG170 Blade Component
Clamp & Bogie System




Continue on the A713.

****Caution****

- The loaded blade vehicle will oversail the grass verge on the nearside of the bend.

UK Grid Reference: NS 49015 04521

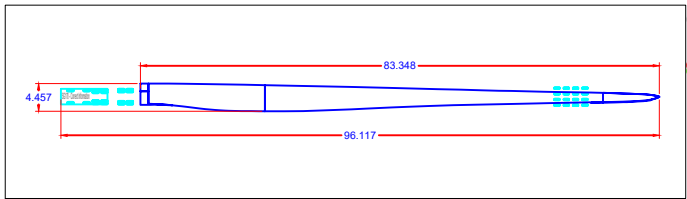
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-  Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body



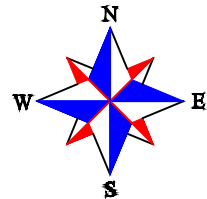
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DRAWN	S.BUDGEN	TITLE LEFT HAND BEND ON A713 EAST OF 'BELLSBANK'			
DATE	08/10/2023	MAPPING	ORDNANCE SURVEY	CUSTOMER VATTENFALL	
SCALE	1:500	SIZE	A3	PINCH POINT IDENTIFIED BY	CLIENT
		SITE		SOUTH KYLE II WIND FARM	
		DWG. NO		384703-300A1.1	



Swept Path indicates trailer utilising
AUTOMATIC steering

Seimens Gamesa
SG170 Blade Component
Clamp & Bogie System




Continue on the A713.

****Caution****

- The sign post on the offside of the bend is required to be removed as indicated.
- Tree pruning is required as indicated to allow the loaded blade to oversail.

UK Grid Reference: NS 49453 03940

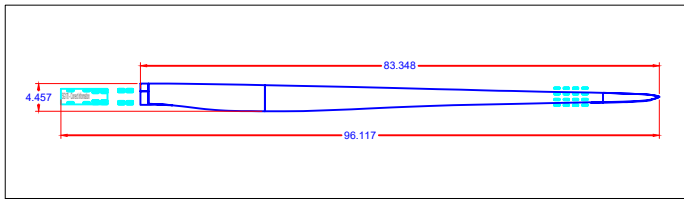
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- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

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- Area within green outline will be oversailed by trailer body



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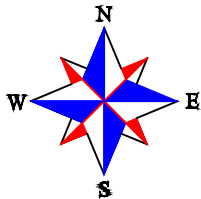
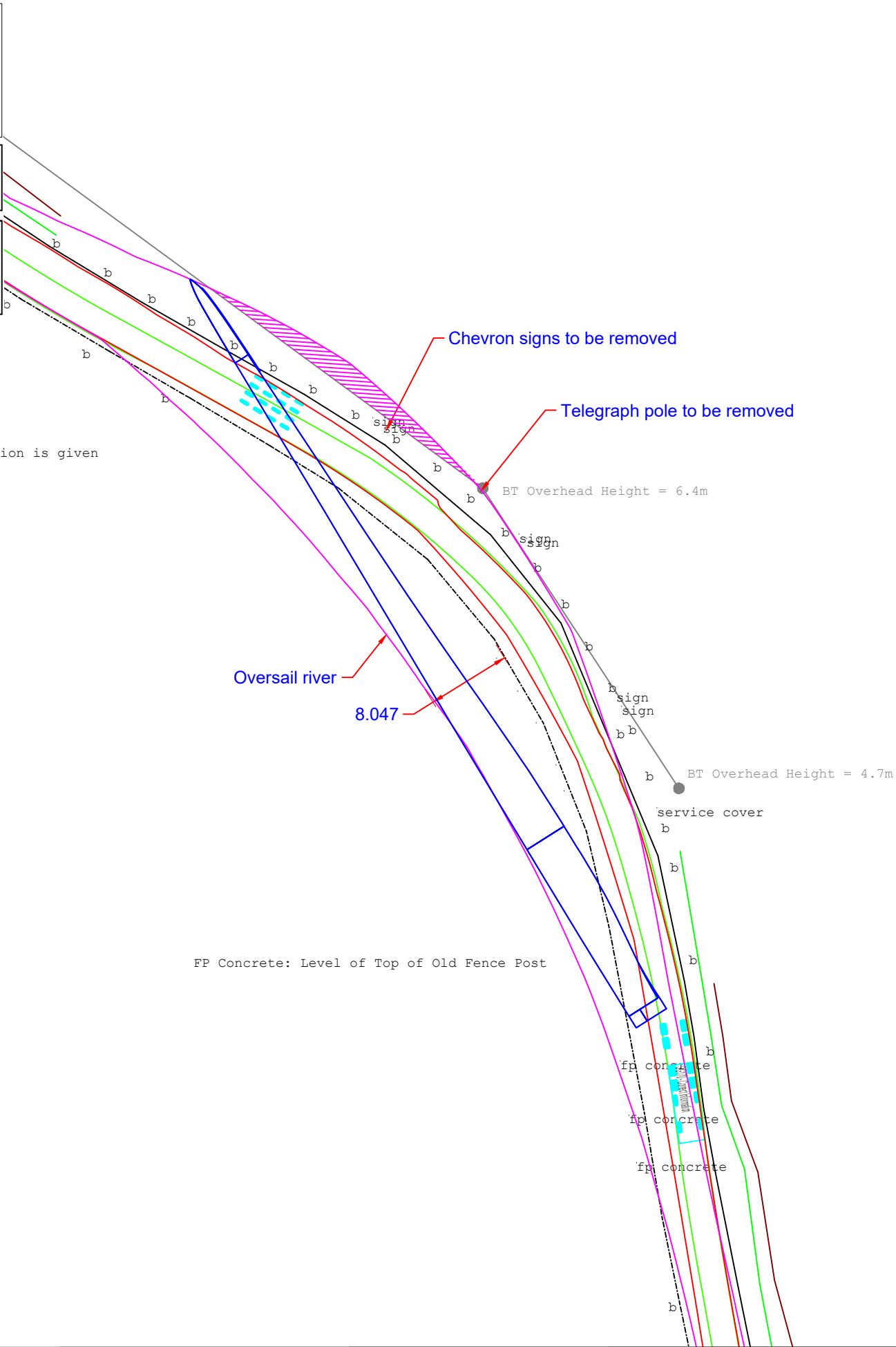
DRAWN S.BUDGEN		TITLE CHICANE ON A713 AFTER JUNCTION WITH GALLOWAY FORREST PARK	
DATE 08/10/2023		MAPPING ORDNANCE SURVEY <small>Not Adjusted</small>	CUSTOMER VATTENFALL
SCALE 1:500	SIZE A3	PINCH POINT IDENTIFIED BY CLIENT	SITE SOUTH KYLE II WIND FARM
		DWG. NO	384703-310A1.1



Swept Path indicates trailer utilising
AUTOMATIC steering

Seimens Gamesa
SG170 Blade Component
Clamp & Bogie System

Verge Level or falls away where no survey information is given




Continue on the A713.

****Caution****

- The chevron sign and telegraph pole on the nearside are both required to be removed due to rear projection oversail.
- The loaded blade will oversail the land on the offside by 9.24m as shown.

UK Grid Reference: NS 49993 03146

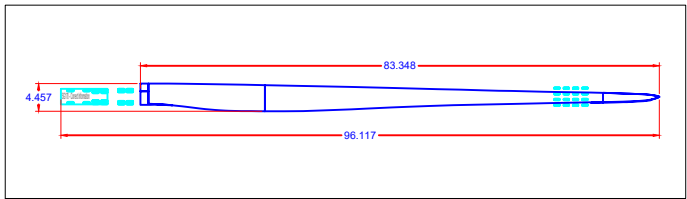
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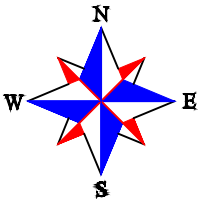
DRAWN	S.BUDGEN	TITLE	RIGHT HAND BEND ON THE A713		
DATE	08/10/2023	MAPPING	ORDNANCE SURVEY	CUSTOMER	VATTENFALL
SCALE	1:500	SIZE	A3	PINCH POINT IDENTIFIED BY	CLIENT
			SITE	SOUTH KYLE II WIND FARM	DWG. NO 384703-320A1.1



Swept Path indicates trailer utilising AUTOMATIC steering

Seimens Gamesa
SG170 Blade Component
Clamp & Bogie System

248m




Continue on the A713.

****Caution****

- The loaded blade will oversail the road edge on the nearside as shown. This is within the highway boundaries.

UK Grid Reference: NS 50043 02986

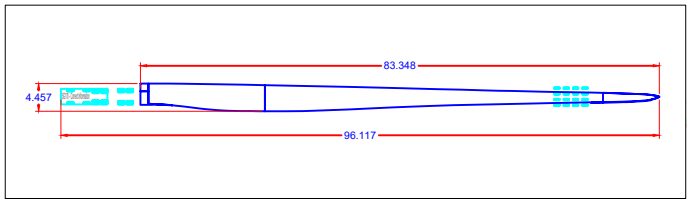
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- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

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- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body



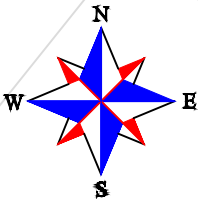
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DRAWN	S.BUDGEN	TITLE LEFT HAND BEND ON THE A713			
DATE	08/10/2023	MAPPING	ORDNANCE SURVEY <small>Not Adjusted</small>	CUSTOMER VATTENFALL	
SCALE	1:500	SIZE	A3	PINCH POINT IDENTIFIED BY	CLIENT
				SITE	SOUTH KYLE II WIND FARM
				DWG. NO	384703-330A1.1



Swept Path indicates trailer utilising
AUTOMATIC steering

Seimens Gamesa
SG170 Blade Component
Clamp & Bogie System




Continue on the A713.

****Caution****

- The sign post on the nearside is required to be removed as shown.
- The loaded blade will oversail the road edge on the nearside. This is within the highway boundaries.

UK Grid Reference: NS 50648 02486

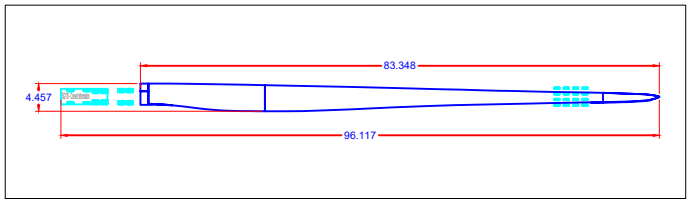
- The swept path analysis provided is produced from a purely transport orientated view, and does not consider any political issues in terms of land ownership, or any other precincts raised, that may otherwise be restrictive.
- The drawing has been produced from Ordnance Survey Data. A site visit has **not** been conducted to verify road widths or the presence of street furniture.
- All swept path diagrams and assessments are made and calculated for the road movement of loaded trailer equipment carrying Turbine components. These dimensions are based on the turning circles and specification of Collett & Sons Ltd trailer equipment.
- This SPA is a means of providing evidence of minimum requirements of any one vehicle as a footprint and there is no safety factor or margin included.
- Turbine delivery vehicles can be both left and right hand drive vehicles, therefore due to drivers perception it must be assumed that every vehicle will not follow the exact same line and so a margin of additional space should be allowed for.
- Land take is usually referred to when land is required from Private Land Owners; road widening is usually referred to when land is required within highways boundaries. The boundaries between private land and highways property are assumed by using obvious demarcation such as fence lines/hedges etc. It should be noted that actual boundaries between highways and private land are not substantiated in this report and can only be authenticated by carrying out land searches.
- Police escorts and permits will be required for the movement of all of the components. Form 'BE16' permits will also be required to undertake the movement of the vehicle shown in the swept path analysis. These permits are at the discretion of the Highway Agency (HA). Therefore, approval of these 'permits for movements' by the HA are a major consideration before the physical capability to deliver these components are undertaken.
- In critical areas, where modifications are required, the road construction must be formed to the minimum specification contained in the Turbine Manufactures Transport Guidance Notes.
- The Turbine Manufactures Transport Guidance Notes will state the minimum road width required for the transport of components. Any roads below this stated width will require widening to reflect this regardless of any swept path analysis not indicating modifications.
- The information is privileged and confidential and is for the exclusive use of the nominated client.
- All dimensions in meters
- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

- Area within red outline will be swept by tractor and trailer axles
-  Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body



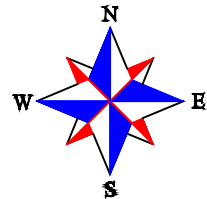
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Halifax, HX2 0DF WEB: www.collett.co.uk

DRAWN	S.BUDGEN	TITLE		LEFT HAND BEND OVER CRAIG BRIDGE, A713	
DATE	08/10/2023	MAPPING	ORDNANCE SURVEY	CUSTOMER	
SCALE	1:500	SIZE	A3	PINCH POINT IDENTIFIED BY	CLIENT
				SITE	SOUTH KYLE II WIND FARM
				DWG. NO	384703-340A1.1



Swept Path indicates trailer utilising
AUTOMATIC steering

Seimens Gamesa
SG170 Blade Component
Clamp & Bogie System




Continue on the A713.

****Caution****

- The loaded blade will oversail the road edge on the nearside. This is within the highway boundaries.

UK Grid Reference: NS 50648 02486

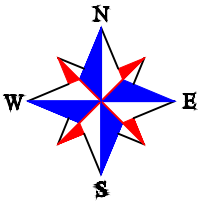
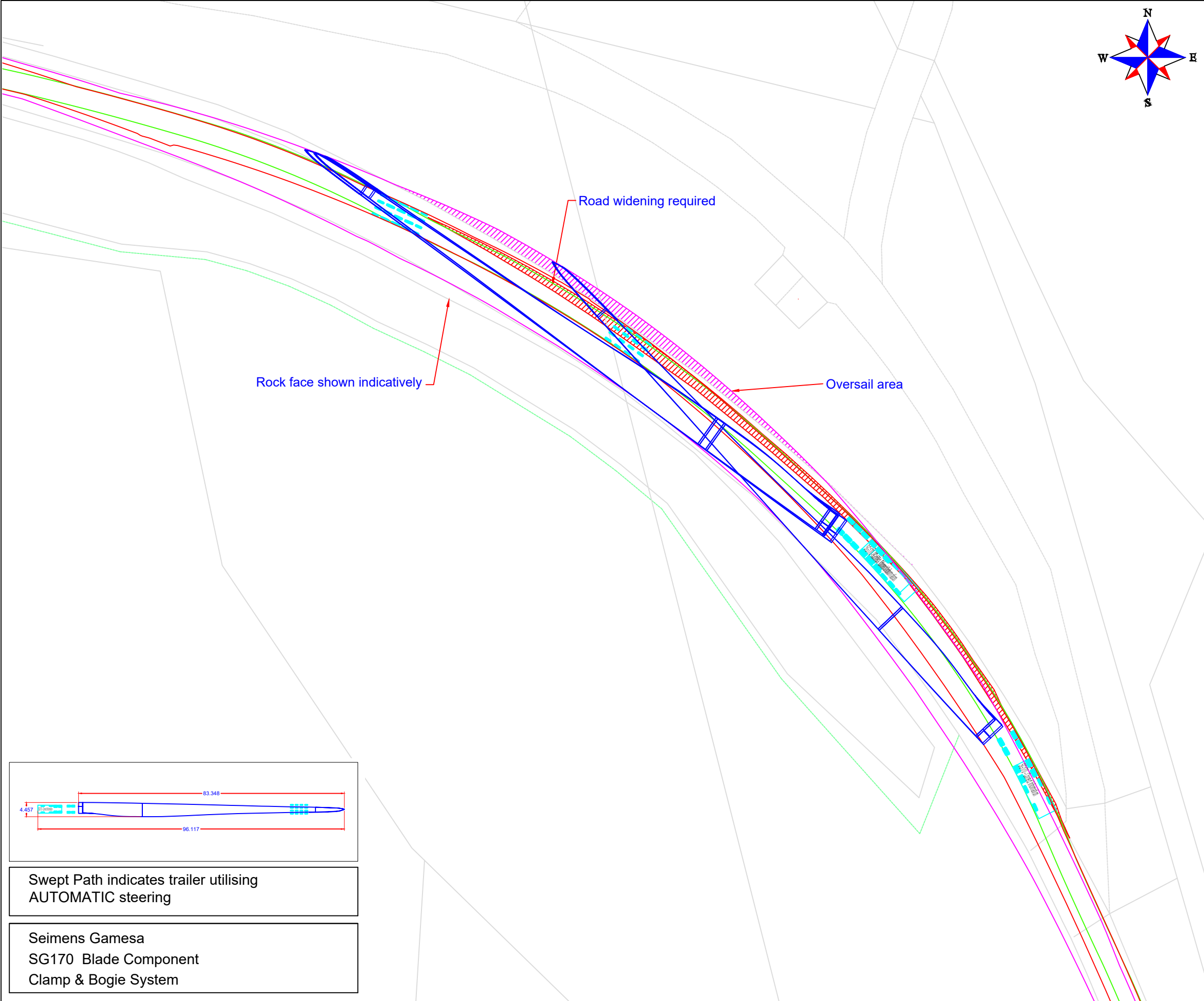
- The swept path analysis provided is produced from a purely transport orientated view, and does not consider any political issues in terms of land ownership, or any other precincts raised, that may otherwise be restrictive.
- The drawing has been produced from Ordnance Survey Data. A site visit has **not** been conducted to verify road widths or the presence of street furniture.
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- Land take is usually referred to when land is required from Private Land Owners; road widening is usually referred to when land is required within highways boundaries. The boundaries between private land and highways property are assumed by using obvious demarcation such as fence lines/hedges etc. It should be noted that actual boundaries between highways and private land are not substantiated in this report and can only be authenticated by carrying out land searches.
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- All dimensions in meters
- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

- Area within red outline will be swept by tractor and trailer axles
-  Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body



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DRAWN	S.BUDGEN	TITLE LEFT HAND BEND ON THE A713 AFTER CRAIG BRIDGE			
DATE	08/10/2023	MAPPING	ORDNANCE SURVEY	CUSTOMER VATTENFALL	
SCALE	1:500	SIZE	A3	PINCH POINT IDENTIFIED BY	CLIENT
				SITE	SOUTH KYLE II WIND FARM
				DWG. NO	384703-350A1.1




Continue on the A713.

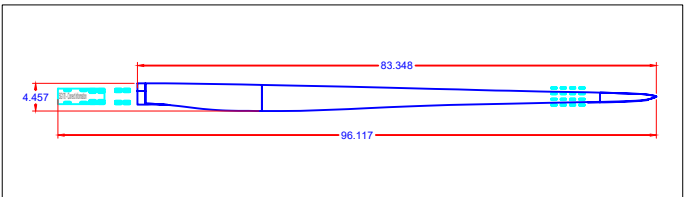
****Caution****

- Road widening is required on the nearside as shown by the red hatching.
- The loaded blade will oversail the land on the nearside as shown by the magenta hatching.

UK Grid Reference: NS 51329 01999

- The swept path analysis provided is produced from a purely transport orientated view, and does not consider any political issues in terms of land ownership, or any other precincts raised, that may otherwise be restrictive.
- The drawing has been produced from Ordnance Survey Data. A site visit has **not** been conducted to verify road widths or the presence of street furniture.
- All swept path diagrams and assessments are made and calculated for the road movement of loaded trailer equipment carrying Turbine components. These dimensions are based on the turning circles and specification of Collett & Sons Ltd trailer equipment.
- This SPA is a means of providing evidence of minimum requirements of any one vehicle as a footprint and there is no safety factor or margin included.
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- In critical areas, where modifications are required, the road construction must be formed to the minimum specification contained in the Turbine Manufactures Transport Guidance Notes.
- The Turbine Manufactures Transport Guidance Notes will state the minimum road width required for the transport of components. Any roads below this stated width will require widening to reflect this regardless of any swept path analysis not indicating modifications.
- The information is privileged and confidential and is for the exclusive use of the nominated client.
- All dimensions in meters
- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

- Area within red outline will be swept by tractor and trailer axles
-  Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body



Swept Path indicates trailer utilising
AUTOMATIC steering

Seimens Gamesa
SG170 Blade Component
Clamp & Bogie System



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DRAWN	S.BUDGEN	TITLE				LONG RIGHT HAND BEND ON THE A713	
DATE	08/10/2023	MAPPING	ORDNANCE SURVEY	Not Adjusted	CUSTOMER		VATTENFALL
SCALE	1:500	SIZE	A3	PINCH POINT IDENTIFIED BY	CLIENT	SITE	SOUTH KYLE II WIND FARM
						DWG. NO	384703-360A1.1

