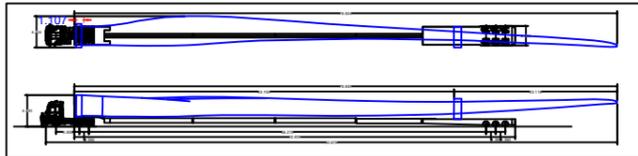




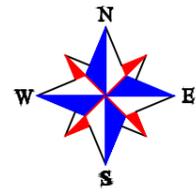
## **APPENDIX 14-1**

### **COLLETT SWEEP PATH ANALYSIS**



Swept Path indicates trailer utilising MANUAL steering

Generic 76m Blade Component Loaded on Super Wing Carrier



Continue on M3 to Junction 6.  
Exit M3 to roundabout, at roundabout, turn left onto R125.

**\*\*Caution\*\***

- Widening required to provide a useable road surface as indicated by the red hatching.
- Indicated road signs to be removed.
- Barrier on the offside of slip road to be removed.
- Ground to be prepared to accept suitable axle loadings.
- Manual steering will be required at this location.

OSi Grid Reference: N 95480 51798

- 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 Topographical Survey Data provided by the client.
- 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. 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 local authorities (LA). Therefore, approval of these 'permits for movements' by the LA 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

ROAD SIGN TO BE REMOVED

ROAD WIDENING REQUIRED

ROAD SIGN TO BE REMOVED

ROAD WIDENING REQUIRED

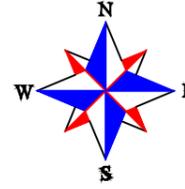
BARRIER TO BE REMOVED

- 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	R. WEBSTER	TITLE	M3 JUNCTION 6/R125 ROUNDABOUT		
DATE	14/09/2021	MAPPING	PROVIDED BY CLIENT	CUSTOMER	
SCALE	1:500	SIZE	A3	PINCH POINT IDENTIFIED BY	COLLETT
			SITE	BALLIVOR	DWG. NO. 333697-10B1.1
			BORD NA MONA		



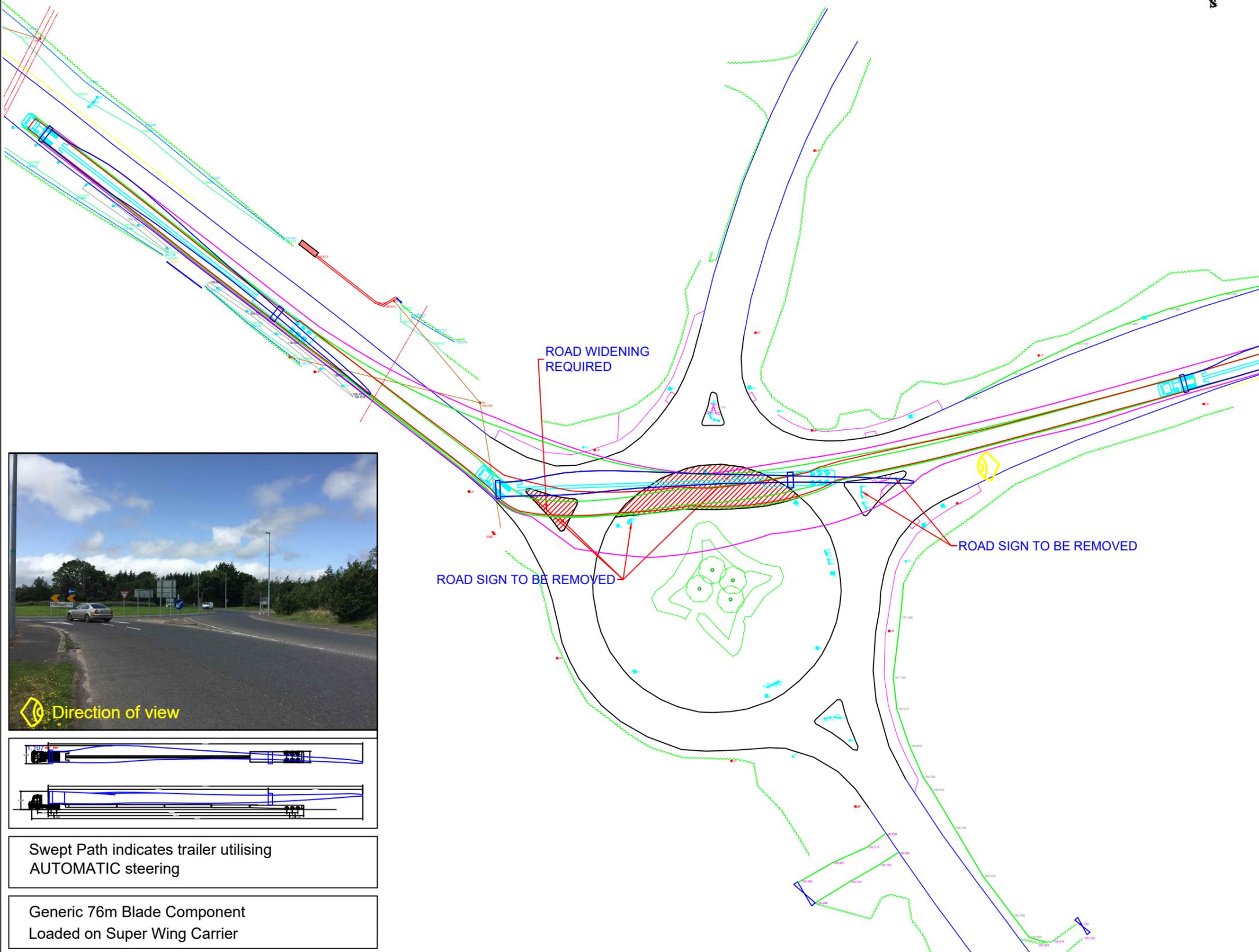
Continue on R125 to roundabout with R154.  
At roundabout, turn right onto R154.

**\*\*Caution\*\***

- Widening required to provide a useable road surface as indicated by the red hatching.
- Indicated road signs to be removed.
- Ground to be prepared to accept suitable axle loadings.
- Loaded blade component to contraflow this roundabout.

OSi Grid Reference: N 93403 50918

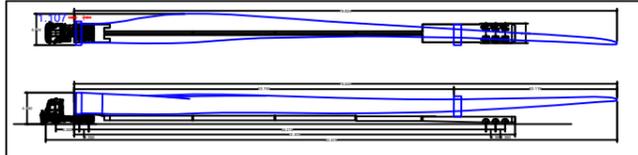
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- The drawing has been produced from Topographical Survey Data provided by the client.
- All swept path diagrams and assessments are made and calculated for the road movement of loaded trailer equipment carrying Turbine components. These dimensions 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.
- 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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- 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



ROAD WIDENING REQUIRED

ROAD SIGN TO BE REMOVED

ROAD SIGN TO BE REMOVED



Swept Path indicates trailer utilising AUTOMATIC steering

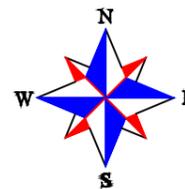
Generic 76m Blade Component Loaded on Super Wing Carrier

- 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	R. WEBSTER	TITLE	R125/R154 ROUNDABOUT		
DATE	14/09/2021	MAPPING	PROVIDED BY CLIENT	CUSTOMER	BORD NA MONA
SCALE	1:750	SIZE	A3	PINCH POINT IDENTIFIED BY	COLLETT
			SITE	BALLIVOR	DWG. NO. 333697-20B1.1



Continue on R154 to roundabout at entry to Trim.  
At roundabout, continue straight on R154.

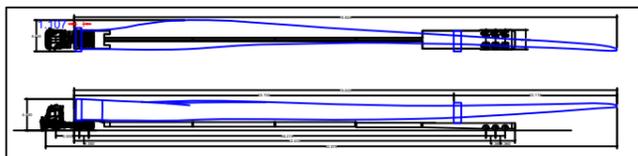
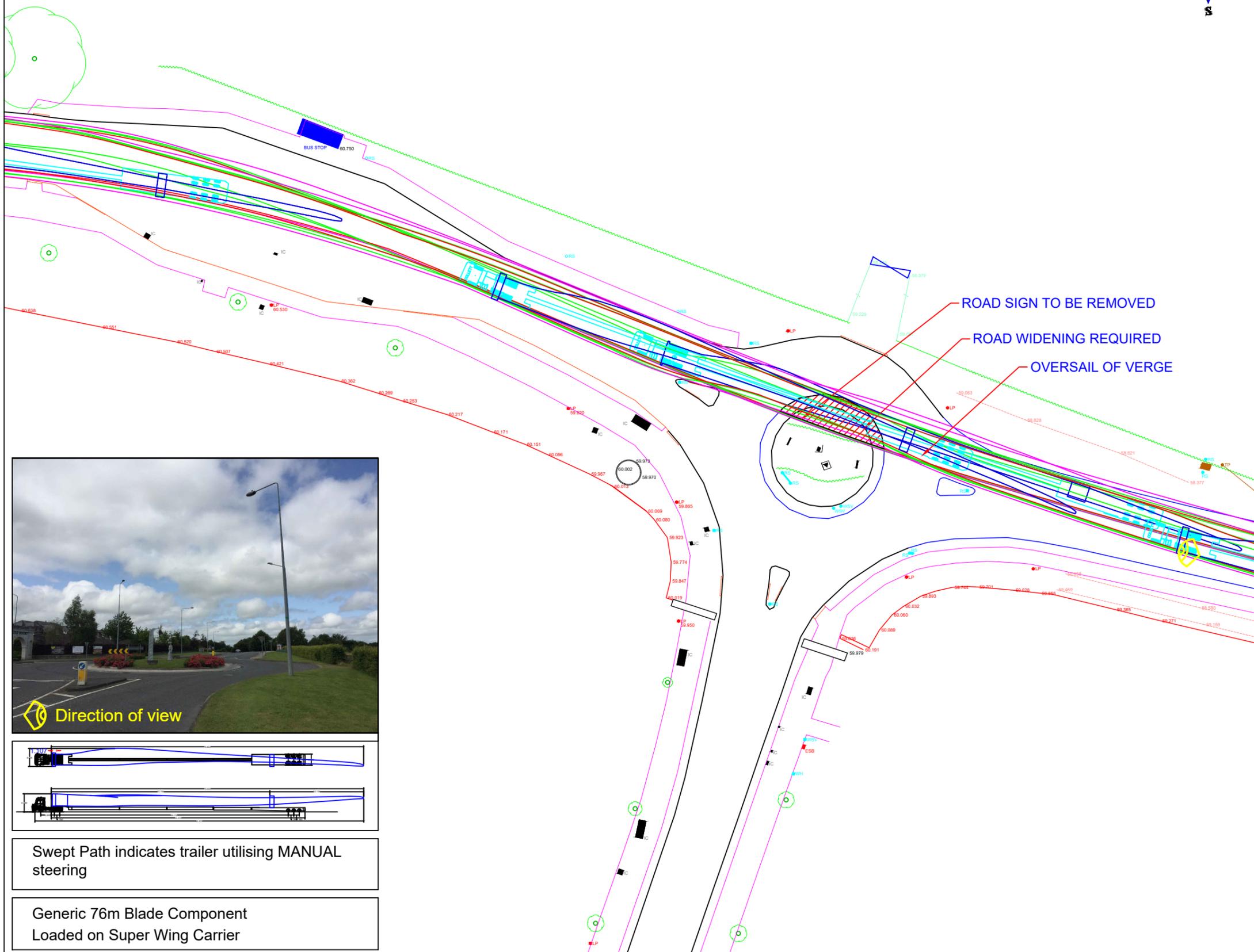
**\*\*Caution\*\***

- Widening required to provide a useable road surface as indicated by the red hatching.
- The load will oversail the verge on the offside of the roundabout entry. This will not cause any third party issues.
- Indicated road sign to be removed.
- Ground to be prepared to accept suitable axle loadings.
- Loaded blade component to contraflow this roundabout.
- Manual steering will be required at this location.

OSi Grid Reference: N 81945 56670

- 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 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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- In critical areas, where modifications are required, the road construction must be formed to the minimum specification contained in the Turbine Manufacturers Transport Guidance Notes.
- The Turbine Manufacturers 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

- 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



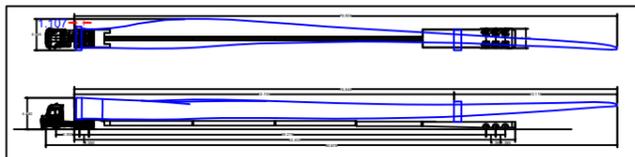
Swept Path indicates trailer utilising MANUAL steering

Generic 76m Blade Component Loaded on Super Wing Carrier



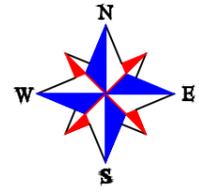
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DRAWN	R. WEBSTER	TITLE	R154 ROUNDABOUT AT ENTRY TO TRIM	
DATE	14/09/2021	MAPPING	PROVIDED BY CLIENT	CUSTOMER
SCALE	1:500	SIZE	A3	PINCH POINT IDENTIFIED BY
			COLLETT	SITE
			BALLIVOR	DWG. NO. 333697-30B1.1
				BORD NA MONA



Swept Path indicates trailer utilising MANUAL steering

Generic 76m Blade Component Loaded on Super Wing Carrier



Turn left off the R154 onto the unnamed road joining the R160.

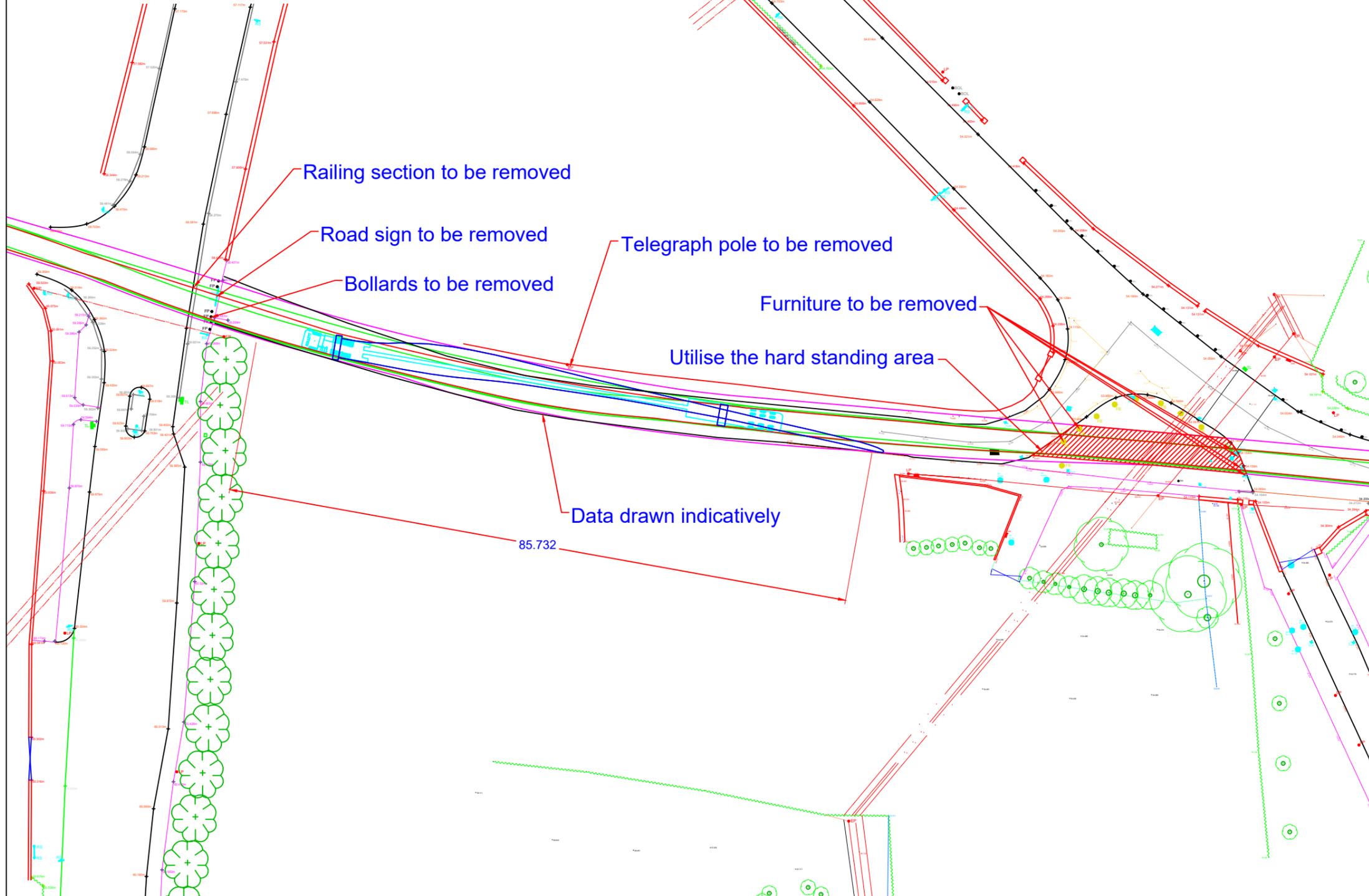
**\*\*Caution\*\***

- The loaded vehicle is required to use the bricked area in order to navigate this junction.
- The street furniture / plant pots on this hard standing area are required to be removed as indicated to allow the loaded vehicle to navigate.
- The telegraph pole on the offside of the unnamed road is required to be removed due to the oversail of the cord of the blade.
- The street furniture on the exit of the junction is required to be removed as indicated.

- The data along the unnamed road has been drawn up indicatively (85m).

OSi Grid Reference: N 80500 56382

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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

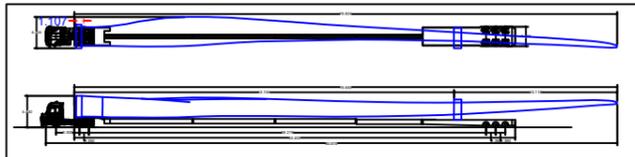


- Area within red outline will be swept by tractor and trailer axles
- ▨ Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body



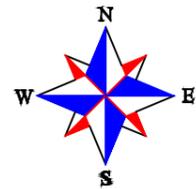
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NAME	S.BUDGEN	TITLE	R154/R160 ROUNDABOUT BYPASS ROAD		
DATE	02/02/2023	MAPPING	PROVIDED BY CLIENT	CUSTOMER	
SCALE	1:750	SIZE	A3	PINCH POINT IDENTIFIED BY	COLLETT
			SITE	BALLIVOR	DWG. NO 333697-410B1.1



Swept Path indicates trailer utilising MANUAL steering

Generic 76m Blade Component Loaded on Super Wing Carrier

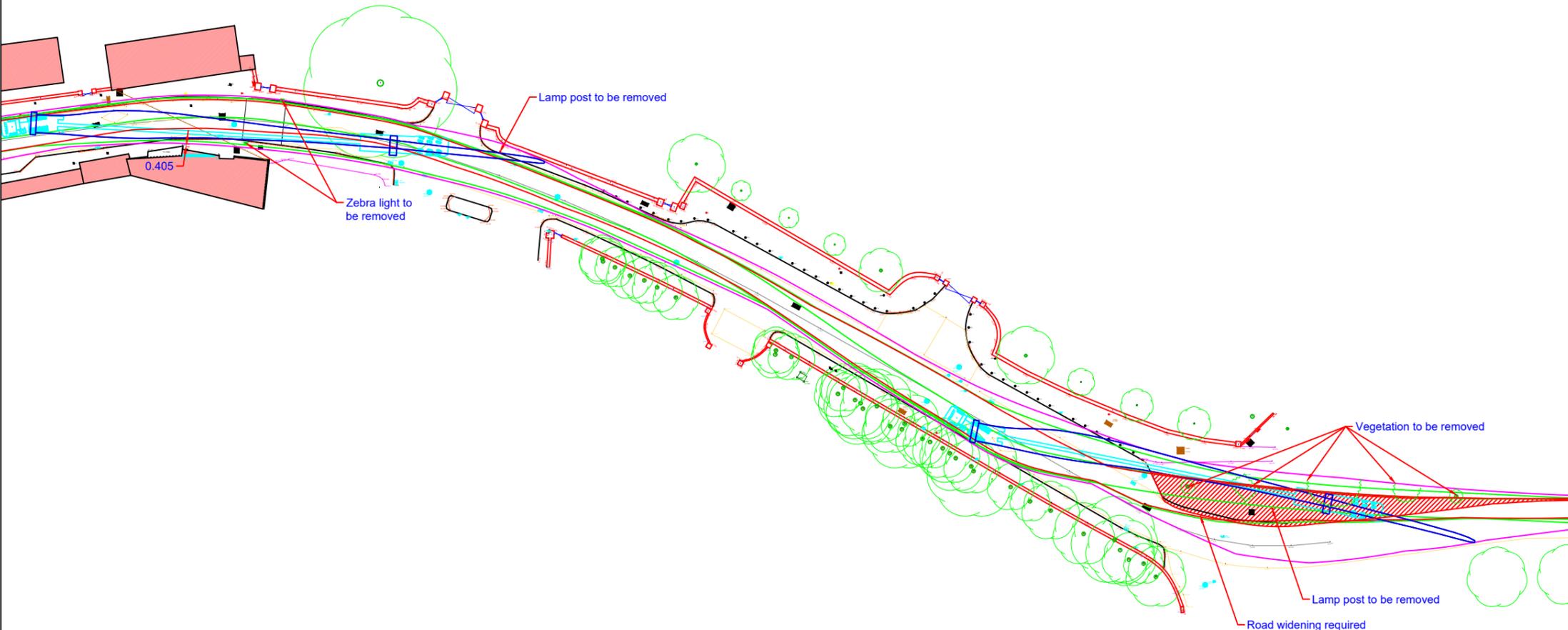


Continue onto Patrick's Street.

**\*\*Caution\*\***

- Road widening is required on the first bend as indicated by the red hatching to reduce further modifications.
- The lamp post within this area is required to be removed as indicated.
- The vegetation / trees in this area are required to be removed to allow the loaded vehicle to navigate.
- The lamp post on the offside of the left bend is required to be removed due to rear projection oversail.
- The 2 lighting columns on the zebra crossing are required to be removed due to the oversail of blade projections.
- The loaded blade is 0.405m away from the nearside building as shown.

OSi Grid Reference: N 80201 56442



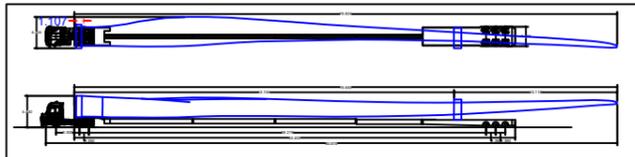
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- All dimensions in meters

- 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



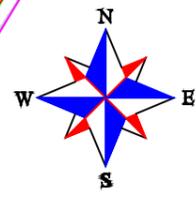
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 Albert Road FAX: +44(0)8456 255244  
 Halifax, HX2 0DF WEB: www.collett.co.uk

NAME	S.BUDGEN	TITLE	DOUBLE BEND ON PATRICK STREET		
DATE	02/02/2023	MAPPING	PROVIDED BY CLIENT	CUSTOMER	
SCALE	1:750	SIZE	A3	PINCH POINT IDENTIFIED BY	COLLETT
			SITE	BALLIVOR	DWG. NO 333697-420B1.1



Swept Path indicates trailer utilising MANUAL steering

Generic 76m Blade Component Loaded on Super Wing Carrier



Use a 3-point maneuver to turn right onto the R156.

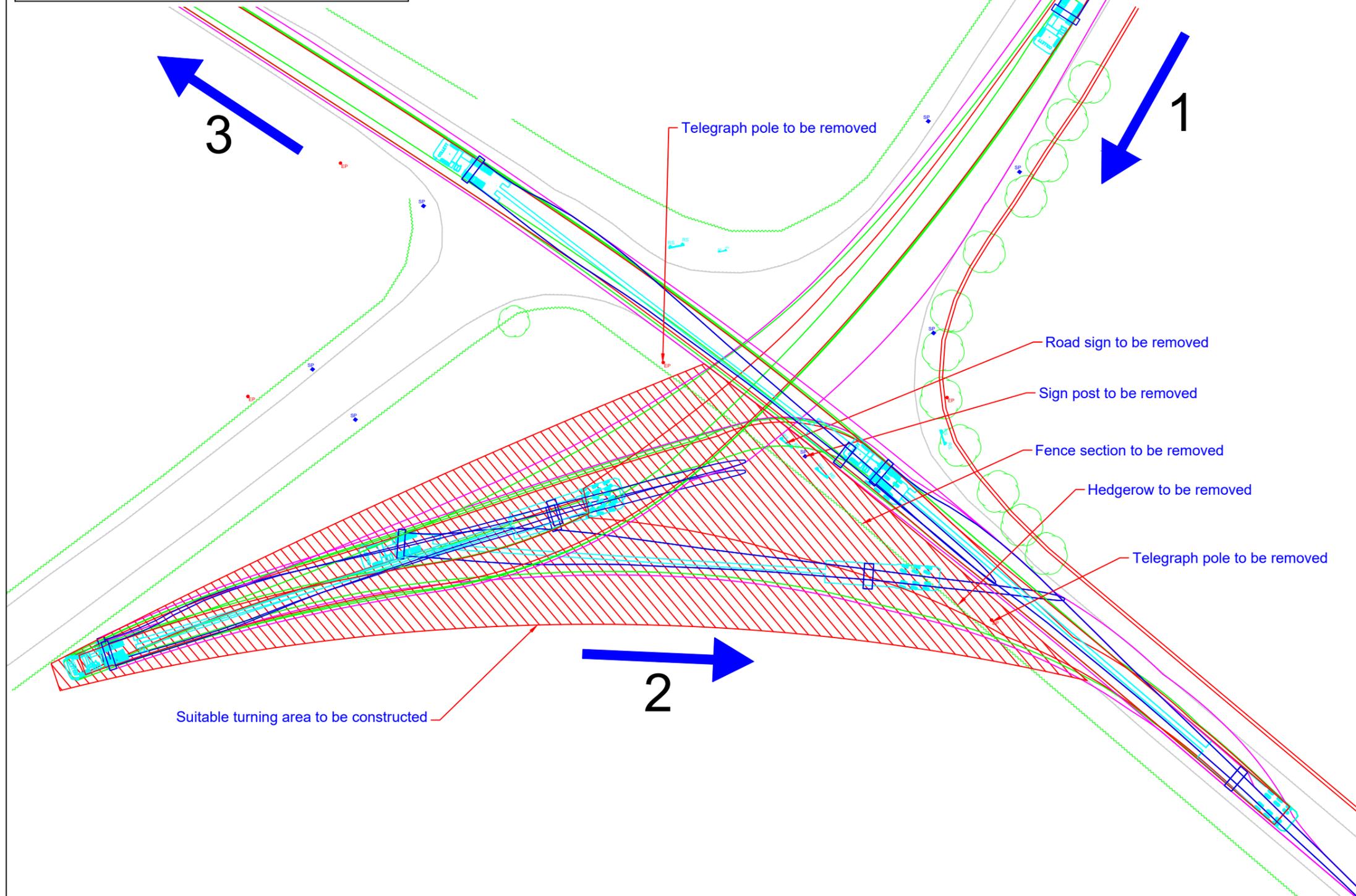
**\*\*Caution\*\***

- A suitable turning area is required to be constructed as per the red hatching.
- The 2 telegraph poles on the offside of the R156 are required to be removed as indicated.
- The road sign and sign post are required to be removed as indicated.
- The hedgerow and the fence are both required to be removed to allow the loaded vehicle to access the proposed turning area.

OSi Grid Reference: N 74715 51819

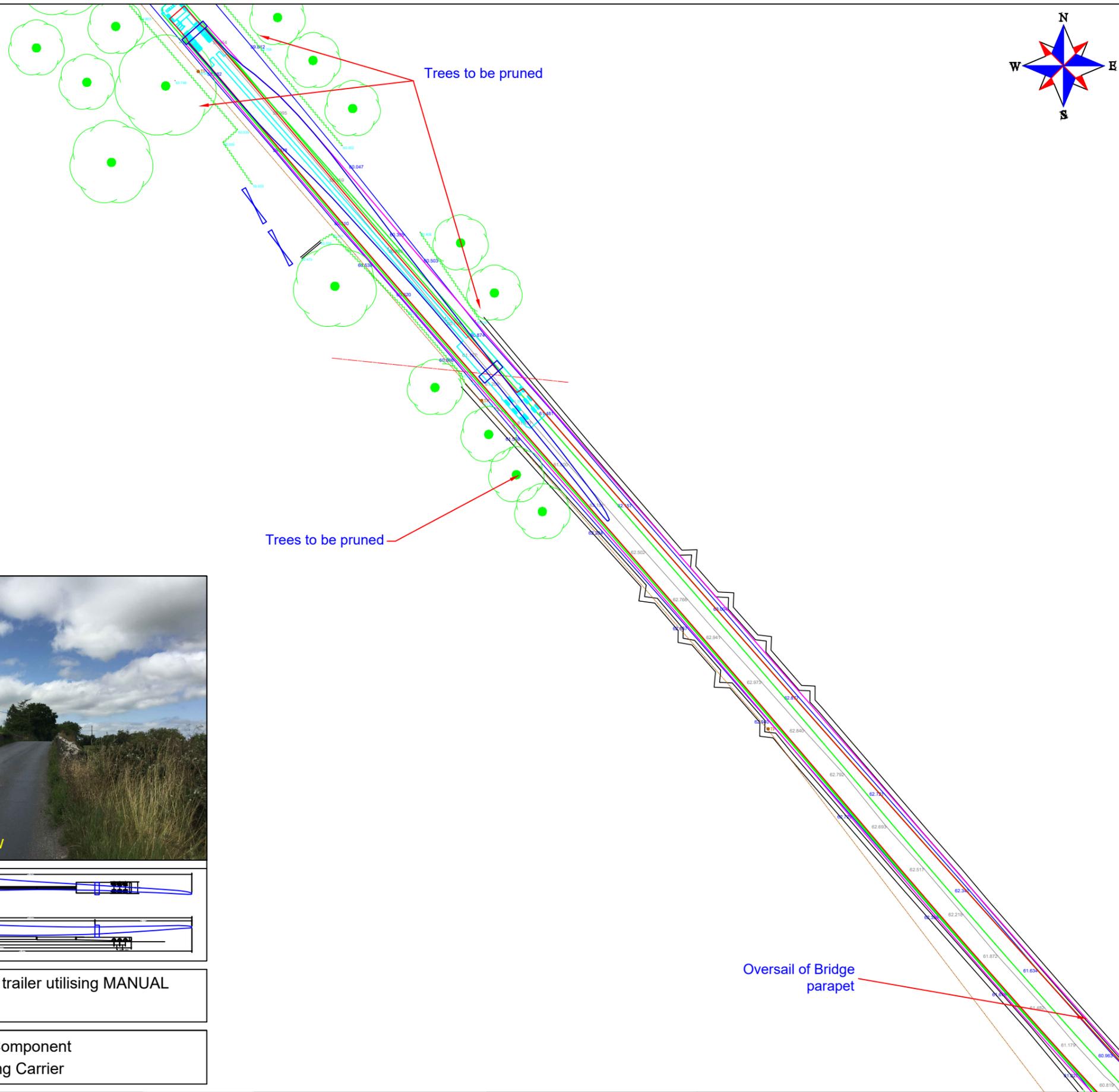
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- All dimensions in meters

- 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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NAME	S.BUDGEN	TITLE	R161 / R165 JUNCTION AT CAREY'S CROSS, DOOLISTOWN		
DATE	02/02/2023	MAPPING	PROVIDED BY CLIENT	CUSTOMER	
SCALE	1:500	SIZE	A3	PINCH POINT IDENTIFIED BY	COLLETT
			SITE	BALLIVOR	DWG. NO 333697-430B1.1



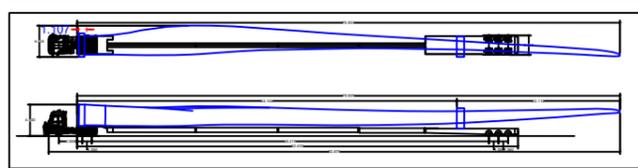
Continue on R156.

**\*\*Caution\*\***

- The Load will Safely oversail the bridge parapet wall on the offside.
- Trees and vegetation on both sides of the road are to be pruned to allow loaded vehicle unobstructed passage.

OSi Grid Reference: N 73384 52679

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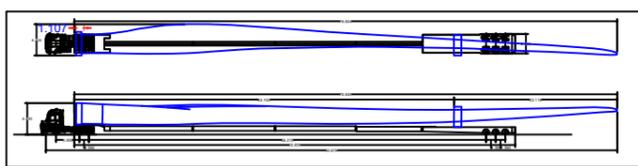


Swept Path indicates trailer utilising MANUAL steering

Generic 76m Blade Component Loaded on Super Wing Carrier

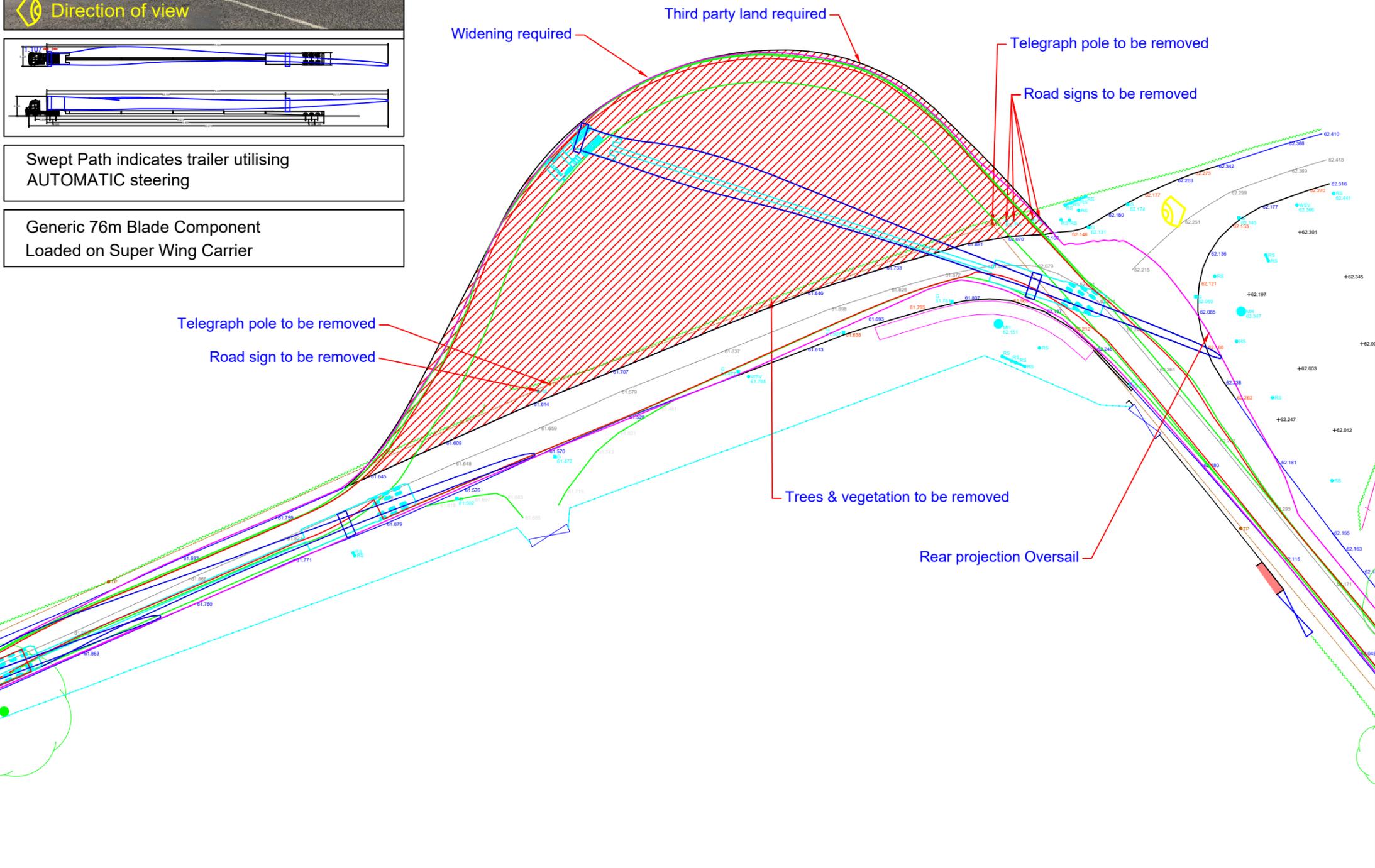
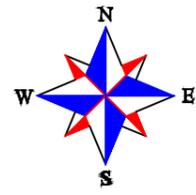
- Area within red outline will be swept by tractor and trailer axles
- ▨ Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body

	<b>COLLETT &amp; SONS LIMITED</b> Victoria Terminal TEL: +44(0)8456 255288 Albert Road FAX: +44(0)8456 255244 Halifax, HX2 0DF WEB: www.collett.co.uk		DRAWN R. WEBSTER DATE 14/09/2021 SCALE 1:500	TITLE MAPPING PROVIDED BY CLIENT PINCH POINT IDENTIFIED BY COLLETT	R156 VERTICAL OVER RIVER BOYNE CUSTOMER BORD NA MONA SITE BALLIVOR	DWG. NO 333697-130B1.1	
			SIZE A3				



Swept Path indicates trailer utilising AUTOMATIC steering

Generic 76m Blade Component Loaded on Super Wing Carrier



Continue on R156 through the left bend on R156.

**\*\*Caution\*\***

- Widening required to provide a useable road surface as indicated by the red hatching.
- Third party land required on the offside of the R156 to allow navigation.
- Trees and vegetation to be removed on the offside of the R156.
- Indicated street furniture to be removed.
- Rear blade projection to oversail street furniture on the offside before the left hand bend.
- Ground to be prepared to accept suitable axle loadings.

OSi Grid Reference: N 72951 53193

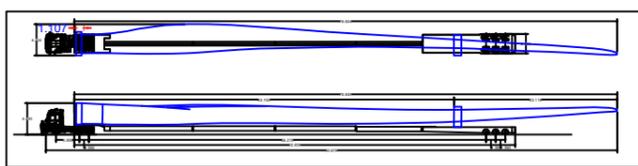
- The swept path analysis provided is produced from a purely transport orientated view, and does not consider any political issues in terms of land ownership, or any other precincts raised, that may otherwise be restrictive.
- The drawing has been produced from Topographical Survey Data provided by the client.
- 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. 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 local authorities (LA). Therefore, approval of these 'permits for movements' by the LA 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

- 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



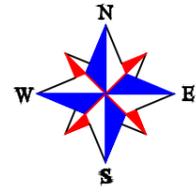
**COLLETT & SONS LIMITED**  
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 Albert Road FAX: +44(0)8456 255244  
 Halifax, HX2 0DF WEB: www.collett.co.uk

DRAWN	R. WEBSTER	TITLE	LEFT BEND ON R156		
DATE	14/09/2021	MAPPING	PROVIDED BY CLIENT	CUSTOMER	BORD NA MONA
SCALE	1:500	SIZE	A3	PINCH POINT IDENTIFIED BY	COLLETT
				SITE	BALLIVOR
					DWG. NO 333697-140B1.1



Swept Path indicates trailer utilising AUTOMATIC steering

Generic 76m Blade Component Loaded on Super Wing Carrier



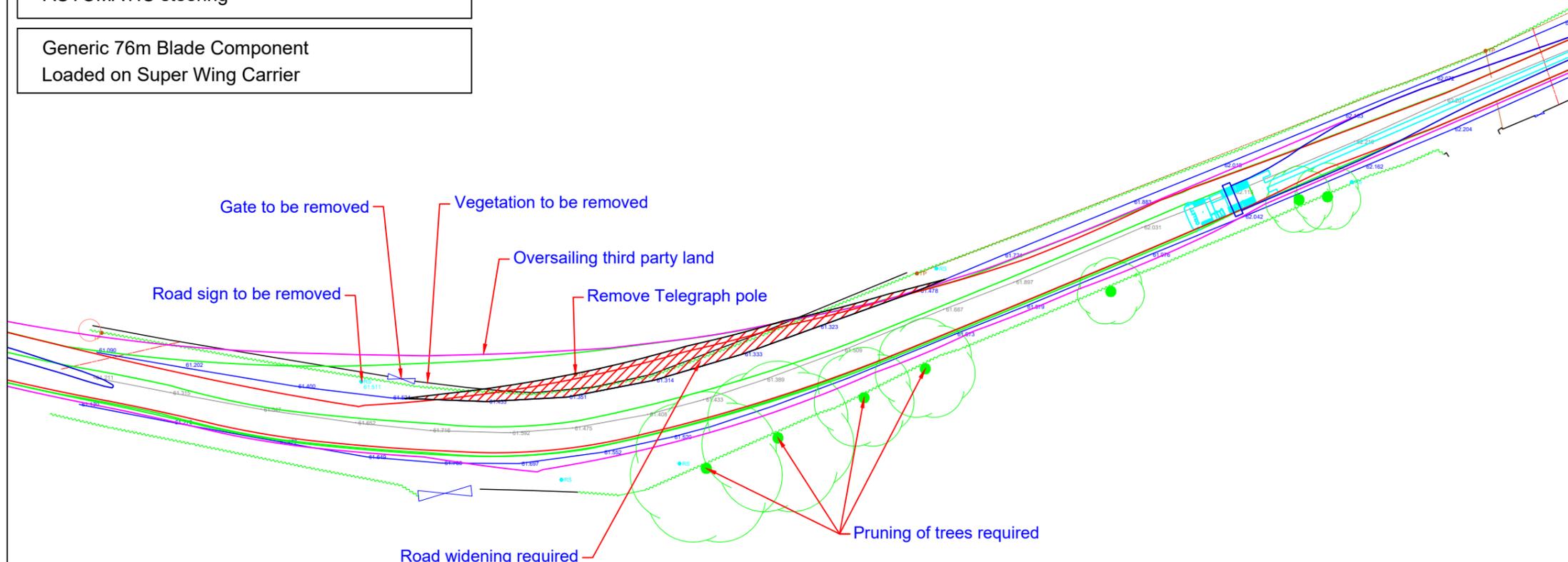
Continue on R156 through the right bend on R156.

**\*\*Caution\*\***

- Third party land required on the offside of the R156 to allow navigation.
- Road widening is required on the offside to prevent third party land issues & save mature trees on the nearside.
- Vegetation to be removed on offside to allow access to third party land.
- Indicated street furniture to be removed.
- Pruning of trees required on the nearside.
- Ground to be prepared to accept suitable axle loadings.

OSi Grid Reference: N 72697 53103

- 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 Topographical Survey Data provided by the client.
- 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. 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 local authorities (LA). Therefore, approval of these 'permits for movements' by the LA 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.
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- All dimensions in meters



- 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	R. WEBSTER	TITLE	RIGHT BEND ON R156		
DATE	14/09/2021	MAPPING	PROVIDED BY CLIENT	CUSTOMER	BORD NA MONA
SCALE	1:500	SIZE	A3	PINCH POINT IDENTIFIED BY	COLLETT
				SITE	BALLIVOR
					DWG. NO 333697-150B1.1