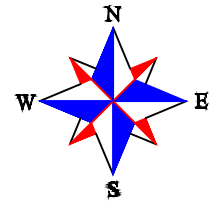


Swept Path indicates trailer utilising MANUAL steering

Siemens
SG155 Turbine Blade Component
Super Wing Carrier trailer



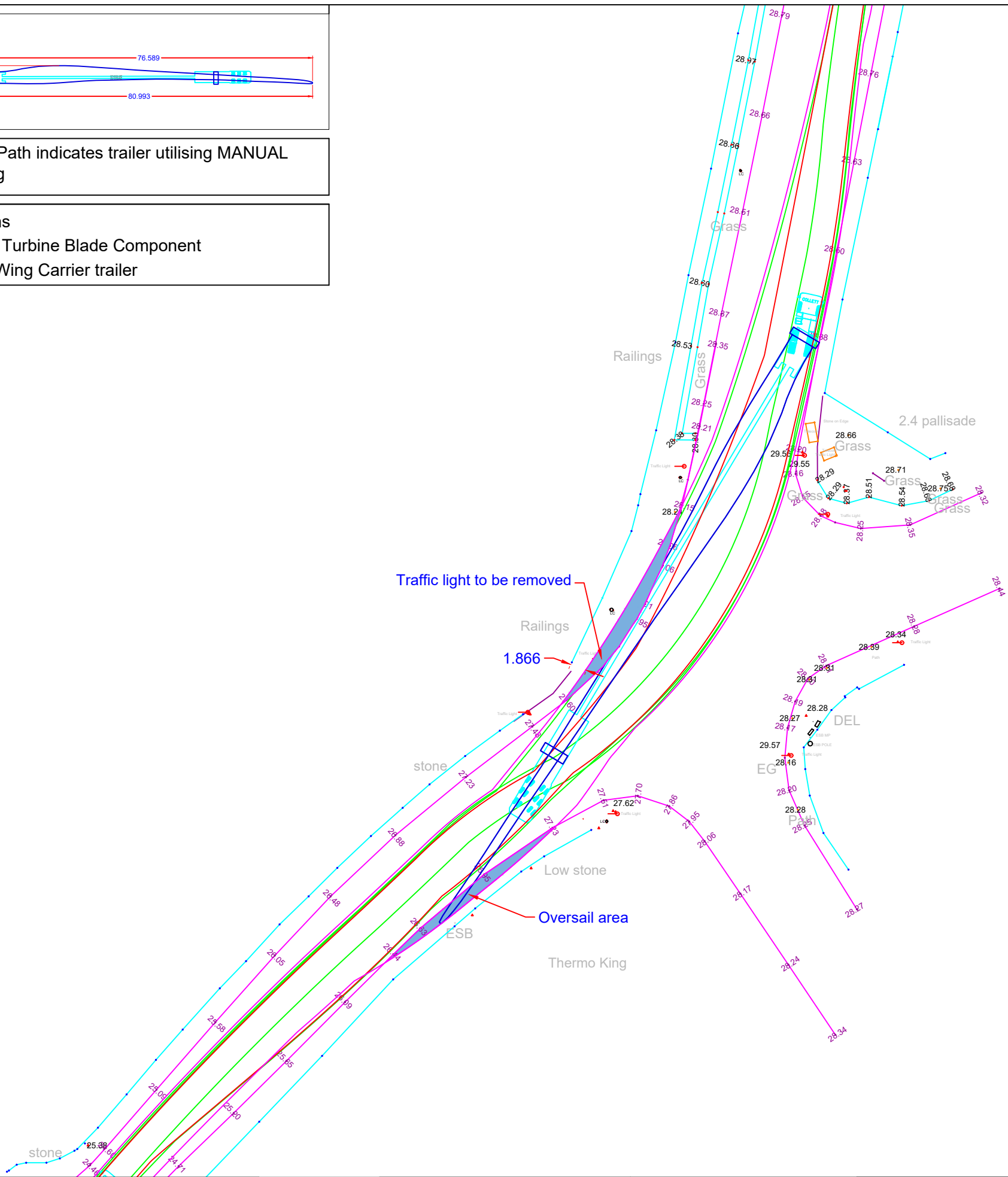
At the junction, turn left onto the unnamed road towards the R336.

****Caution****

- The traffic light on the nearside of the junction is required to be removed as indicated.

Irish Grid Reference: M 31789 26678

- 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. These permits are at the discretion of the Local Authority (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

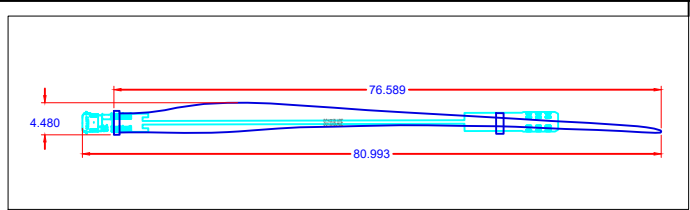


- Area within red outline will be swept by tractor and trailer axles
- ▨ Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body



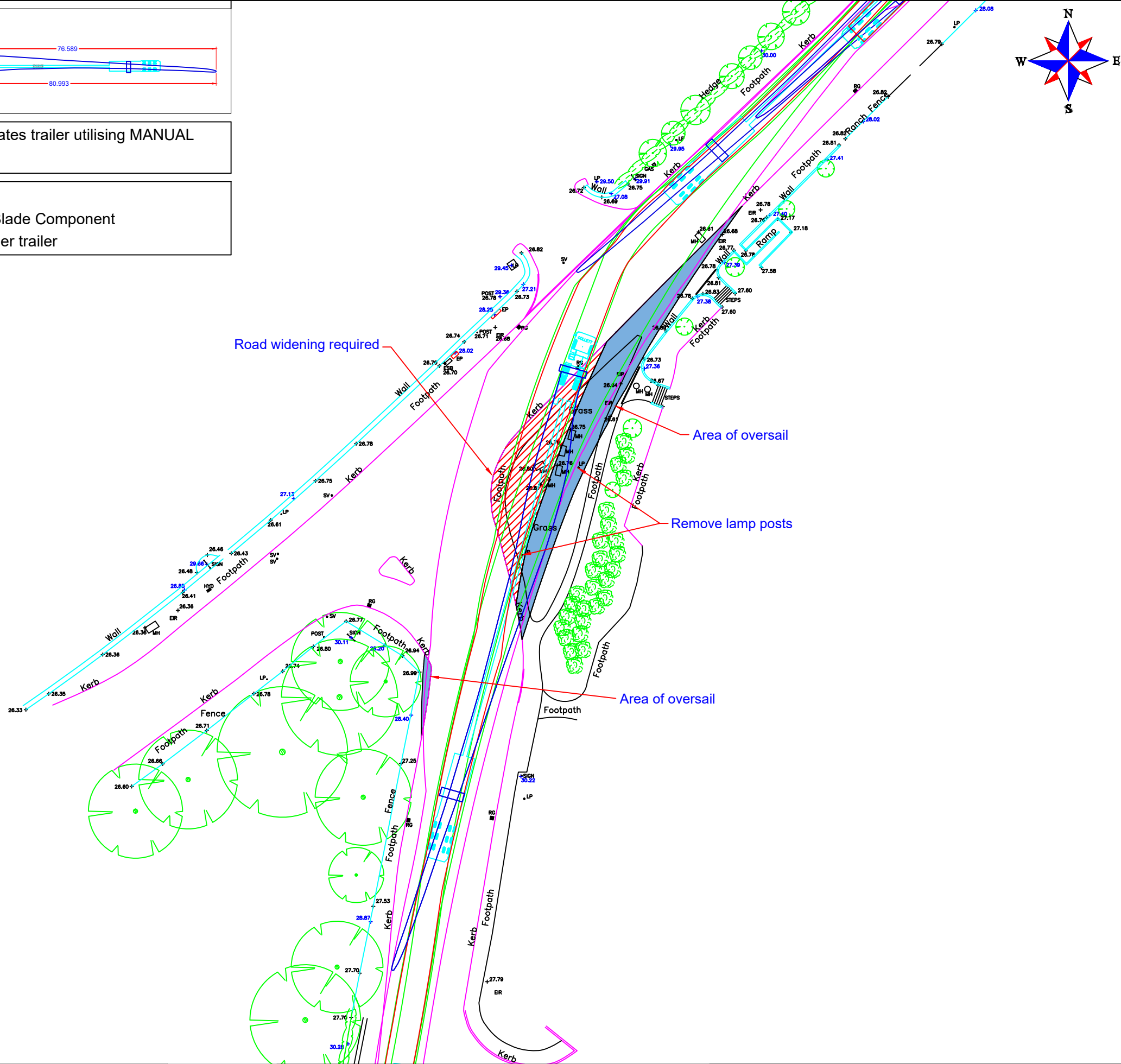
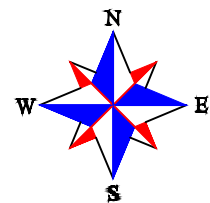
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NAME	S.BUDGEN	TITLE	R339 WELLPARK ROAD JUNCTION	
DATE	27/04/2023	MAPPING TOPOGRAPHICAL SURVEY	CUSTOMER	JENNINGS O'DONOVAN
SCALE 1:500	SIZE A3	PINCH POINT IDENTIFIED BY	CLIENT	SITE FIRLOUGH WIND FARM DWG. NO 381311.200A1.1



Swept Path indicates trailer utilising MANUAL steering

Siemens
SG155 Turbine Blade Component
Super Wing Carrier trailer



At the junction, turn right onto the R336, Tuam Road.

****Caution****

- Road widening is required as indicated by the red hatching.
- The 2 lamp posts on the offside are required to be removed as shown.

Irish Grid Reference: M 31841 26980

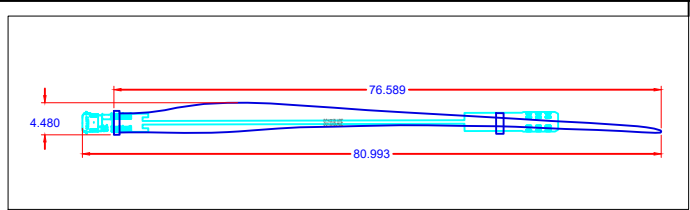
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- The drawing has been produced from Topographical Survey Data provided by the client.
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- This SPA is a means of providing evidence of minimum requirements of any one vehicle as a footprint and there 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 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



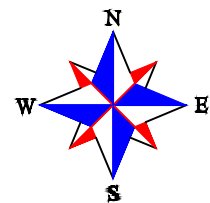
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Albert Road FAX: +44(0)8456 255244
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NAME	S.BUDGEN	TITLE	R339 WELLPARK ROAD JUNCTION	
DATE	27/04/2023	MAPPING TOPOGRAPHICAL SURVEY	CUSTOMER	JENNINGS O'DONOVAN
SCALE 1:500	SIZE A3	PINCH POINT IDENTIFIED BY	CLIENT	SITE FIRLOUGH WIND FARM DWG. NO 381311.210A1.1



Swept Path indicates trailer utilising MANUAL steering

Siemens
SG155 Turbine Blade Component
Super Wing Carrier trailer



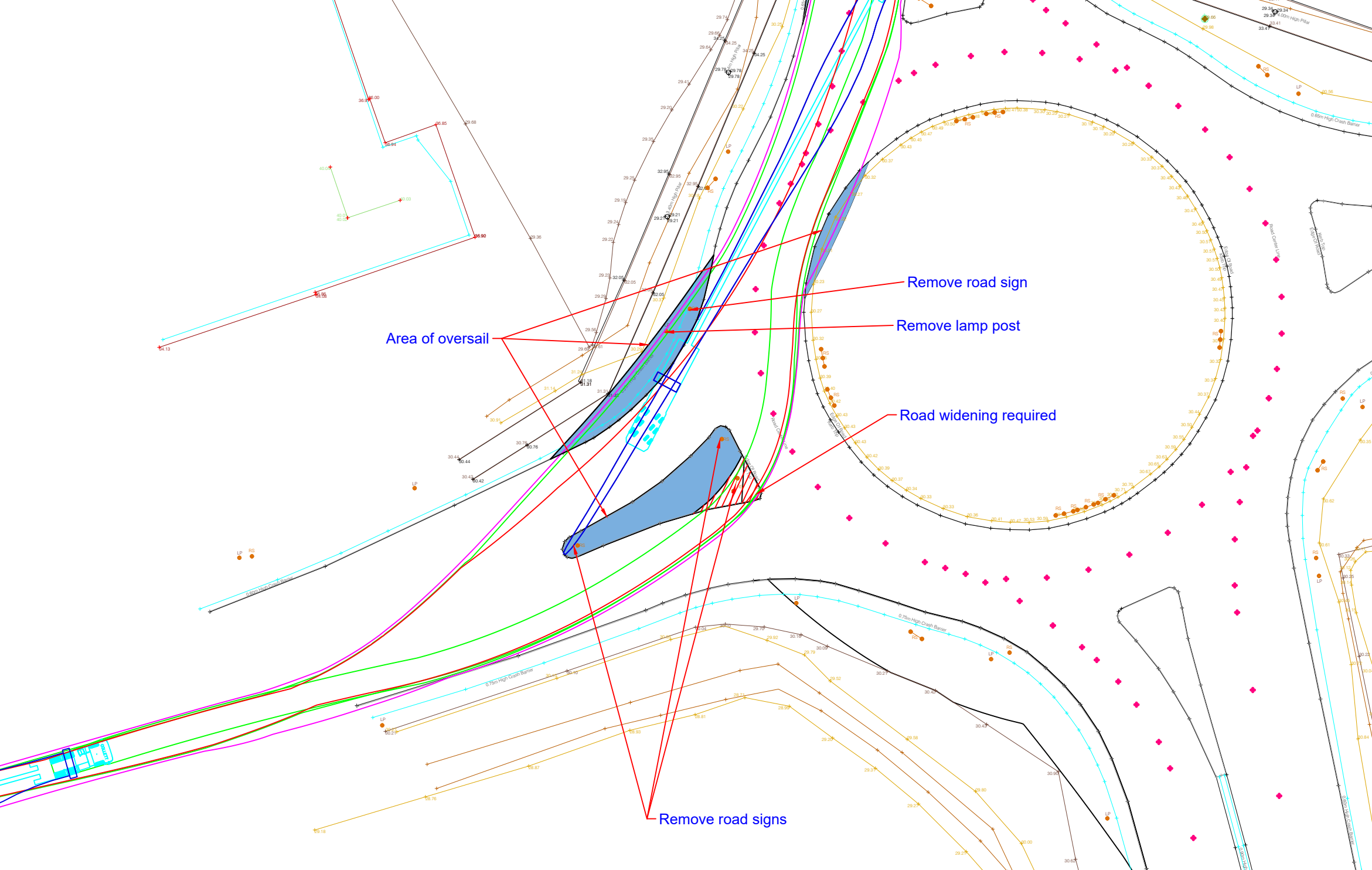
At the roundabout, take the 1st exit onto the N17.

****Caution****

- Road widening is required as indicated by the red hatching.
- The 3 road signs on the entry splitter island are required to be removed as indicated.
- The road sign and lamp post on the nearside are required to be removed to allow the loaded blade to oversail.

Irish Grid Reference: M 41753 51143

- 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.
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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.
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- The information is privileged and confidential and is for the exclusive use of the nominated client.
- All dimensions in meters

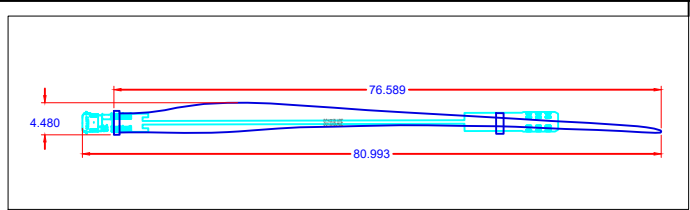


- Area within red outline will be swept by tractor and trailer axles
- ▨ Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body



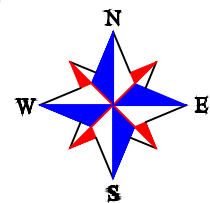
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NAME	S.BUDGEN	TITLE	N17 / N83 ROUNDABOUT	
DATE	27/04/2023	MAPPING TOPOGRAPHICAL SURVEY	CUSTOMER	JENNINGS O'DONOVAN
SCALE 1:500	SIZE A3	PINCH POINT IDENTIFIED BY	CLIENT	SITE FIRLOUGH WIND FARM
			DWG. NO	381311.220A1.1



Swept Path indicates trailer utilising MANUAL steering

Siemens
SG155 Turbine Blade Component
Super Wing Carrier trailer



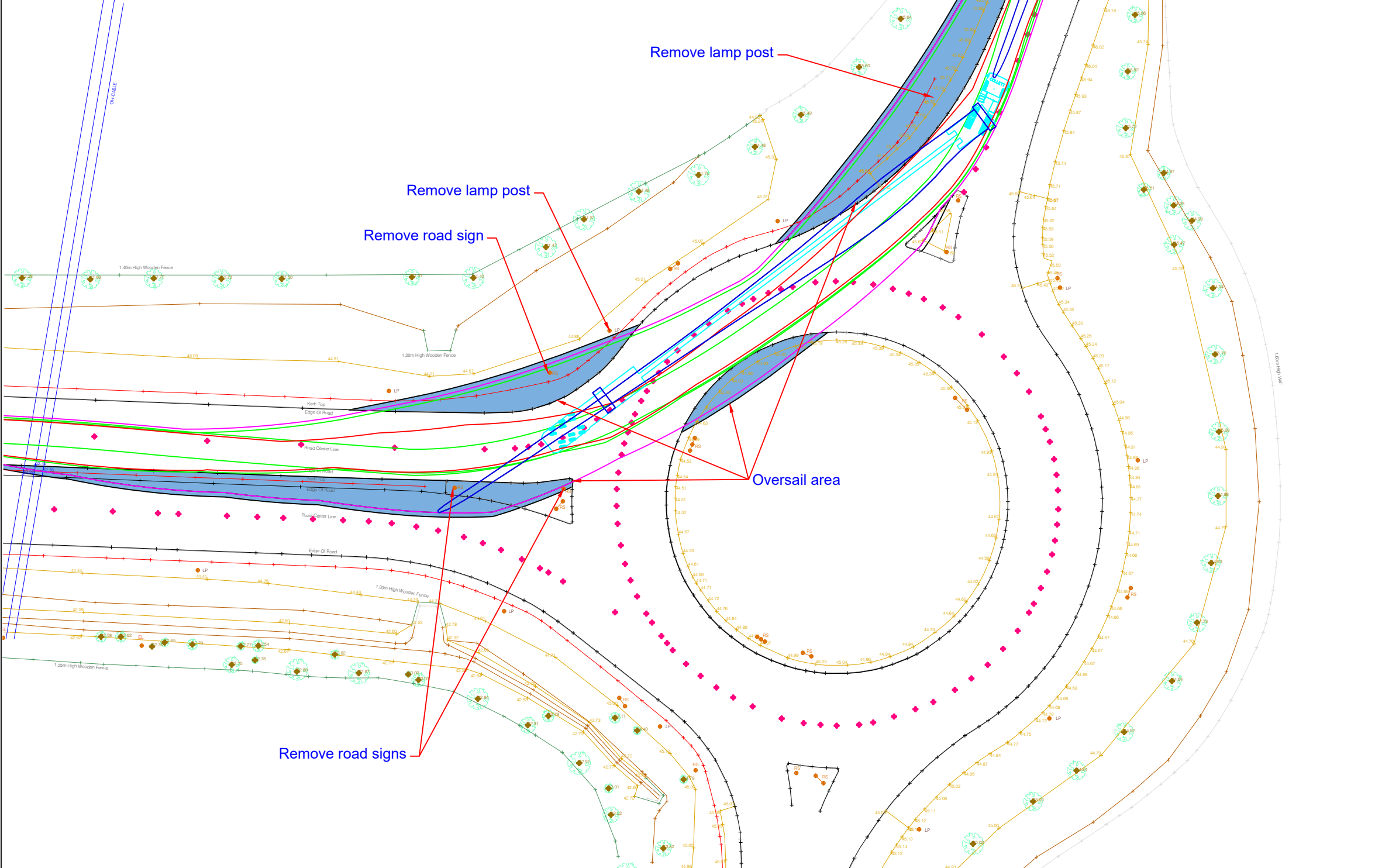
At the roundabout, take the 1st exit onto the N17.

****Caution****

- The 2 road signs on the entry splitter island are required to be removed to allow the rear projection to oversail.
- The lamp post and road sign on the nearside are required to be removed as shown due to blade oversail.
- The lamp post on the nearside exit is required to be removed as shown.

Irish Grid Reference: M 41753 51143

- 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.
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- All dimensions in meters

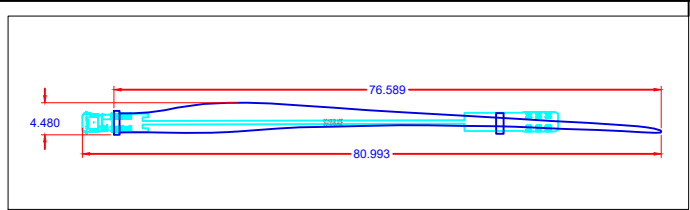


- Area within red outline will be swept by tractor and trailer axles
- ▨ Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body



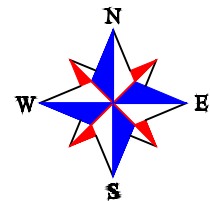
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NAME	S.BUDGEN	TITLE	N17 / N83 ROUNDABOUT NORTH OF TUAM		
DATE	27/04/2023	MAPPING TOPOGRAPHICAL SURVEY	CUSTOMER	JENNINGS O'DONOVAN	
SCALE	1:500	SIZE	A3	PINCH POINT IDENTIFIED BY	CLIENT
			SITE	FIRLOUGH WIND FARM	DWG. NO 381311.230A1.1



Swept Path indicates trailer utilising MANUAL steering

Siemens
SG155 Turbine Blade Component
Super Wing Carrier trailer



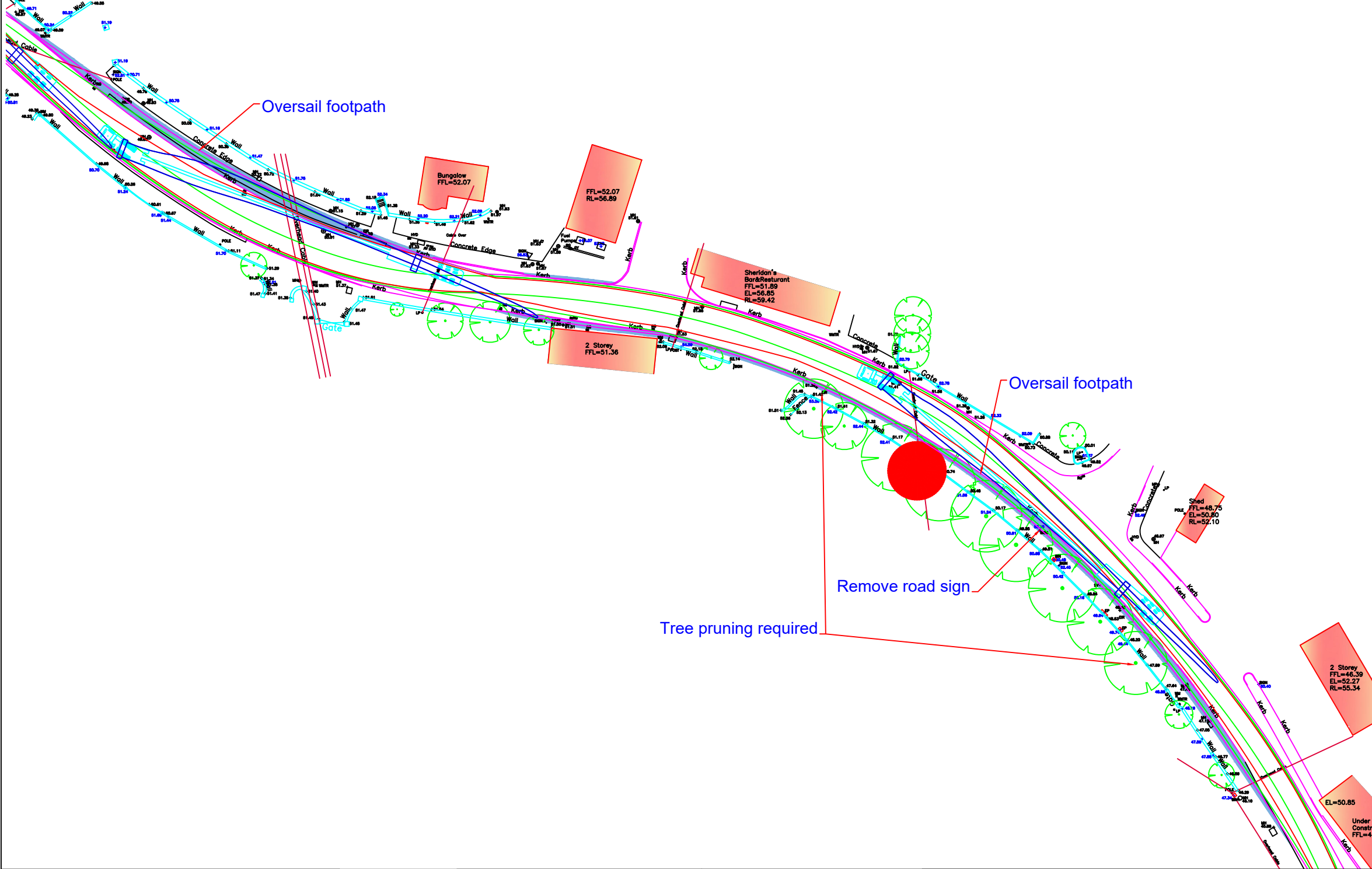
Continue on the N17.

****Caution****

- The road sign on the nearside of the left hand bend is required to be removed due to blade oversail.
- Tree pruning is required on the nearside of the left hand bend as indicated.

Irish Grid Reference: M 40396 63150

- 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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- 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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- All dimensions in meters

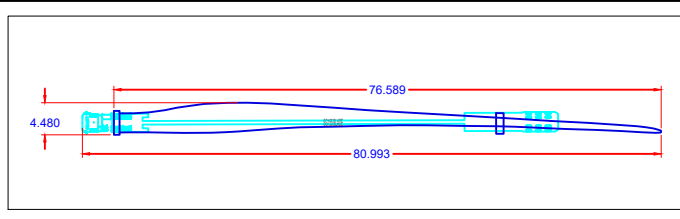


- Area within red outline will be swept by tractor and trailer axles
- ▨ Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body



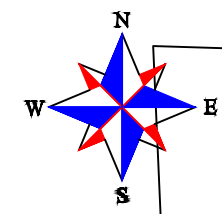
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NAME	S.BUDGEN	TITLE	DOUBLE BEND IN MILLTOWN		
DATE	27/04/2023	MAPPING TOPOGRAPHICAL SURVEY	CUSTOMER	JENNINGS O'DONOVAN	
SCALE	1:750	SIZE	A3	PINCH POINT IDENTIFIED BY	CLIENT
			SITE	FIRLOUGH WIND FARM	DWG. NO 381311.240A1.1



Swept Path indicates trailer utilising MANUAL steering

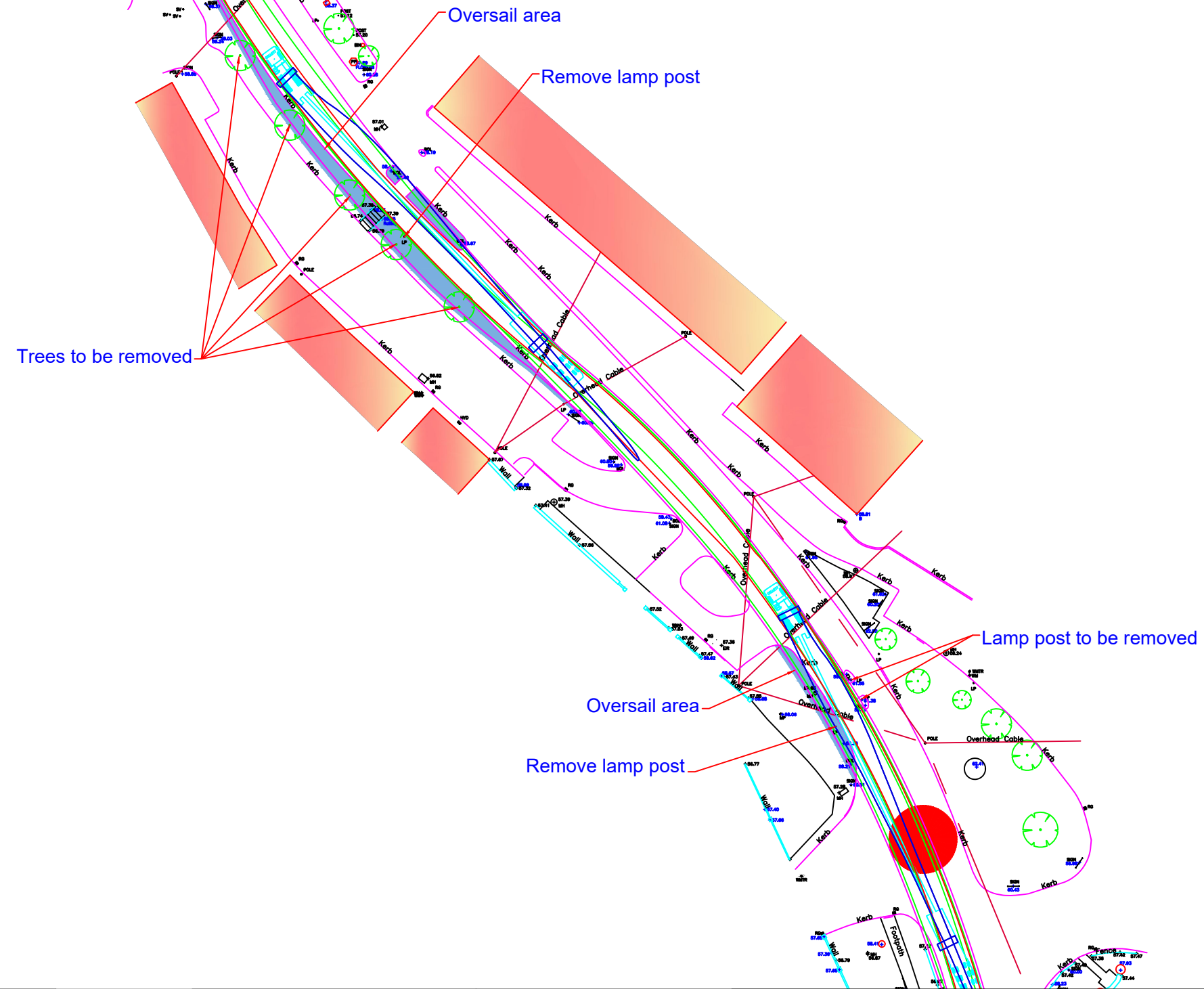
Siemens
SG155 Turbine Blade Component
Super Wing Carrier trailer



Continue on the N17.

****Caution****

- The 2 lamp posts on the offside and 1 on the nearside of the left hand bend are required to be removed.
- The lamp post on the nearside of the second bend is required to be removed.
- Tree pruning on the nearside is required as shown.



Irish Grid Reference: M 36816 69249

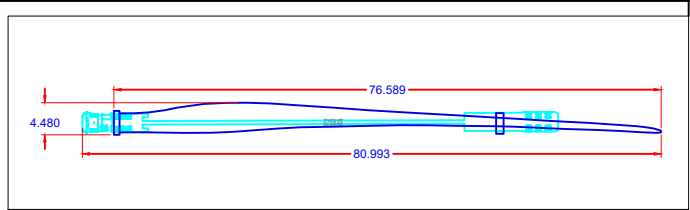
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- The drawing has been produced from Topographical Survey Data provided by the client.
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- This SPA is a means of providing evidence of minimum requirements of any one vehicle as a footprint and there is no safety factor or margin included.
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- All dimensions in meters

- Area within red outline will be swept by tractor and trailer axles
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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



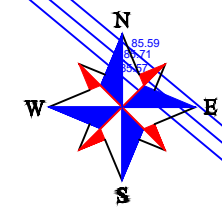
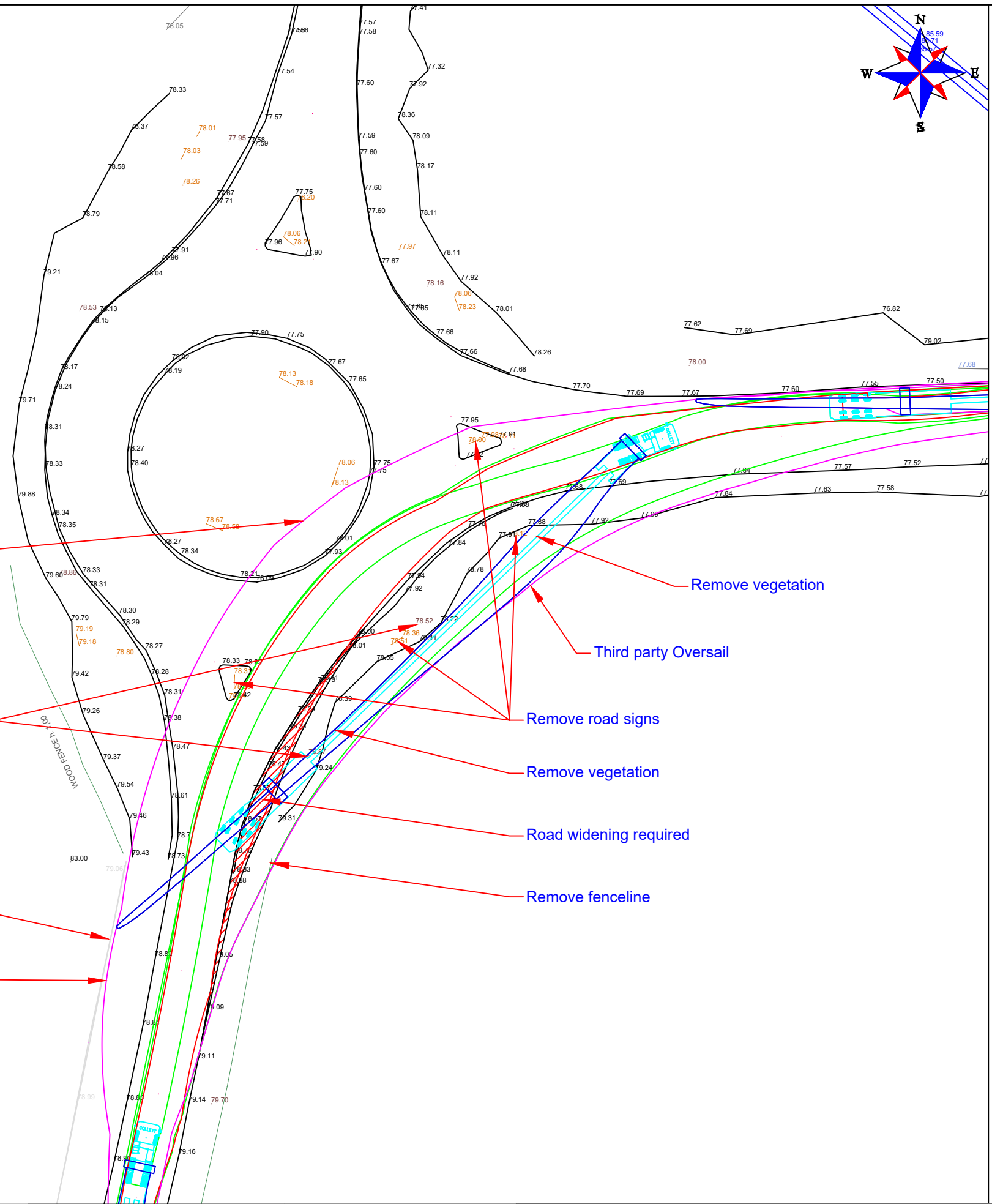
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NAME	S.BUDGEN	TITLE	DOUBLE BEND IN BALLINDINE	
DATE	27/04/2023	MAPPING TOPOGRAPHICAL SURVEY	CUSTOMER	JENNINGS O'DONOVAN
SCALE	1:750	SIZE	A3	PINCH POINT IDENTIFIED BY CLIENT
		SITE	FIRLOUGH WIND FARM	DWG. NO 381311.250A1.1



Swept Path indicates trailer utilising MANUAL steering

Siemens
SG155 Turbine Blade Component
Super Wing Carrier trailer



Contraflow this roundabout to take the 2nd exit towards the N5.

****Caution****

- The loaded blade is required to contraflow this roundabout in order to navigate successfully.
- Third party land is required on the offside as the blade oversails.
- Road widening is required as shown by the red hatching.
- street furniture is required to be removed as indicated to allow the loaded blade to oversail.
- Tree pruning is required on both the offside and nearside to allow the blade to oversail.

Irish Grid Reference: G 47956 00428

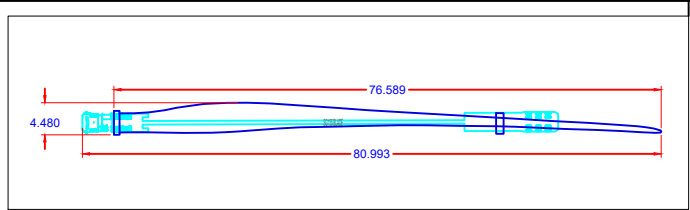
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- All dimensions in meters

- 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



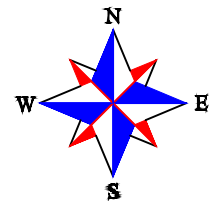
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NAME	S.BUDGEN	TITLE	ROUNDBOUT ON N17 / N5 SOUTH OF CHARLESTOWN		
DATE	27/04/2023	MAPPING TOPOGRAPHICAL SURVEY	CUSTOMER JENNINGS O'DONOVAN		
SCALE 1:500	SIZE A3	PINCH POINT IDENTIFIED BY	CLIENT	SITE	FIRLOUGH WIND FARM DWG. NO 381311.260A1.1



Swept Path indicates trailer utilising MANUAL steering

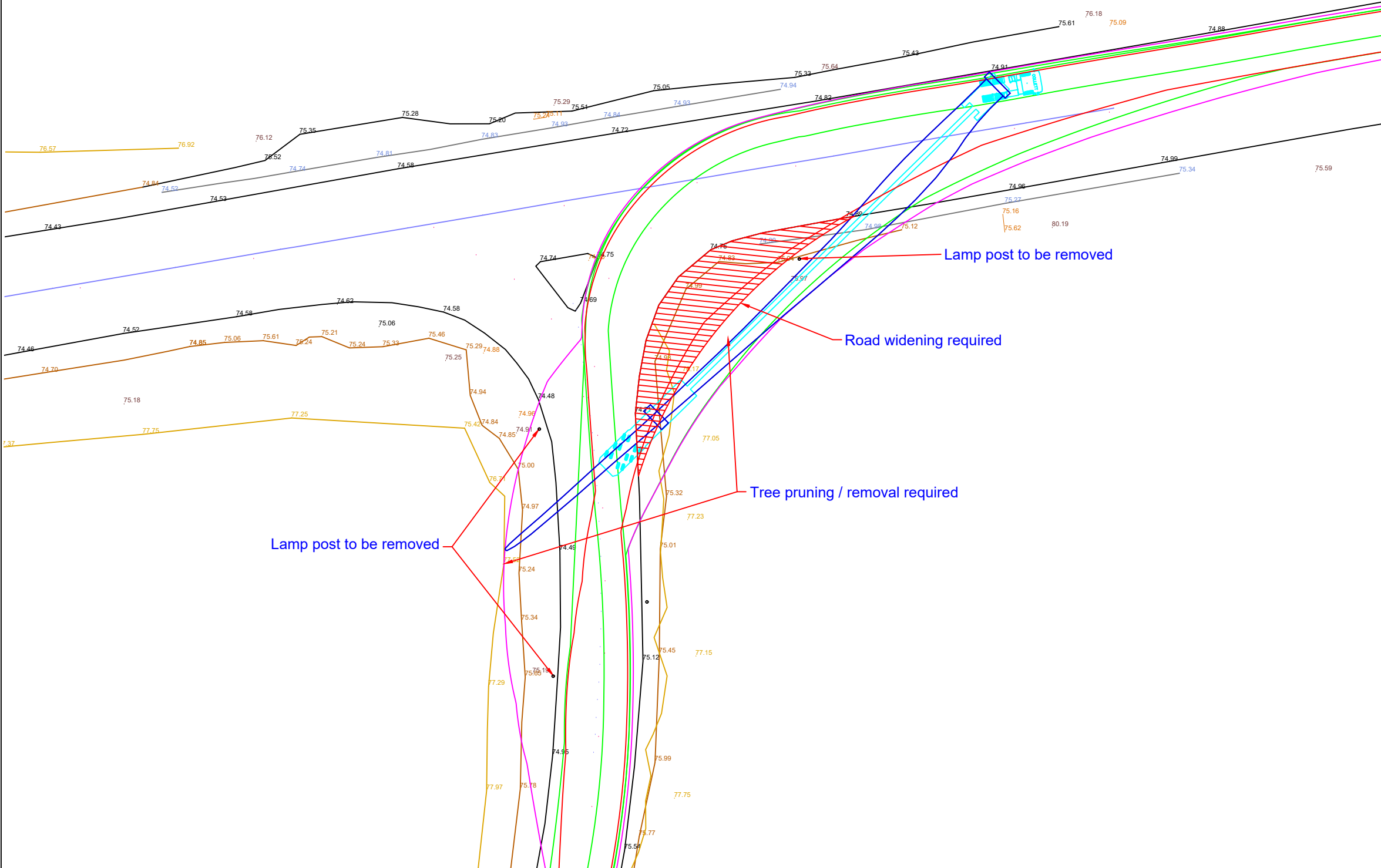
Siemens
SG155 Turbine Blade Component
Super Wing Carrier trailer



Turn right at this junction to join the N5.

****Caution****

- Road widening is required on the nearside of the junction indicated by the red hatching.
- The 2 lamp posts on the nearside and 1 on the offside are required to be removed to allow blade projections to oversail.
- The road sign on the offside is required to be removed as shown.
- Tree pruning is required on both sides of the road as shown.



Irish Grid Reference: G 48428 00801

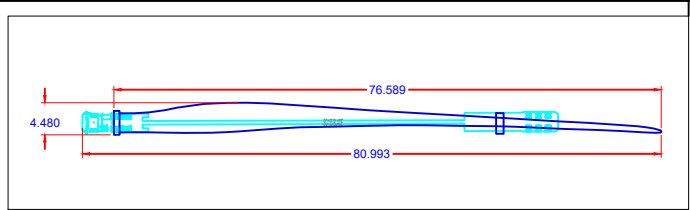
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- The information is privileged and confidential and is for the exclusive use of the nominated client.
- All dimensions in meters

- 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



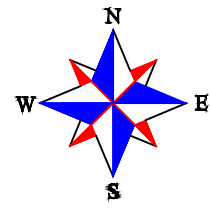
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NAME	S.BUDGEN	TITLE	CONNECTING ROAD JUNCTION WITH N5 SOUTH OF CHARLESTOWN	
DATE	27/04/2023	MAPPING	TOPOGRAPHICAL SURVEY	CUSTOMER
SCALE	1:500	SIZE	A3	PINCH POINT IDENTIFIED BY
			CLIENT	SITE
				FIRLOUGH WIND FARM
				DWG. NO 381311.270A1.1



Swept Path indicates trailer utilising MANUAL steering

Siemens
SG155 Turbine Blade Component
Super Wing Carrier trailer



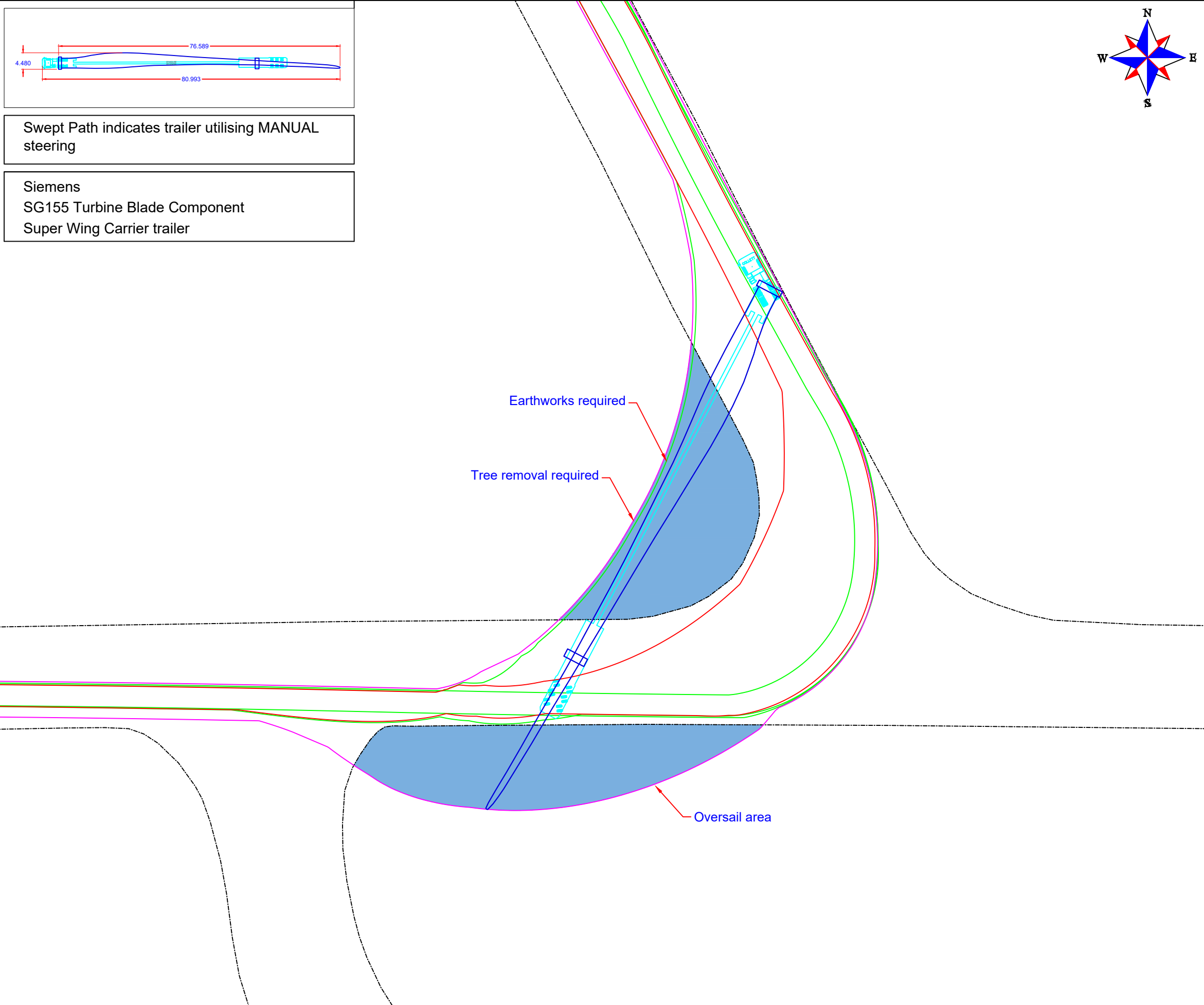
Turn left at the junction towards the L1331.

****Caution****

- The raised embankment on the nearside of the junction is required to be excavated to allow the trailer body and loaded blade to navigate.
- Tree removal is required on the nearside as indicated.
- The rear projection will oversail the land to the south of the junction when navigating.

Irish Grid Reference: G 49789 00968

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- All dimensions in meters

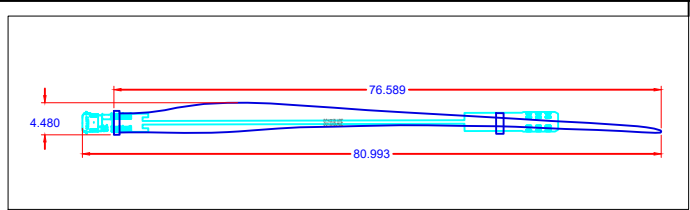


- Area within red outline will be swept by tractor and trailer axles
- ▨ Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body



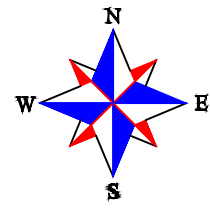
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NAME	S.BUDGEN	TITLE	N5 JUNCTION WITH UNNAMED ROAD TOWARDS L1331	
DATE	27/04/2023	MAPPING	ORDNANCE SURVEY <small>Adjusted</small>	CUSTOMER
SCALE	1:500	SIZE	A3	PINCH POINT IDENTIFIED BY
			CLIENT	SITE
				FIRLOUGH WIND FARM
				DWG. NO 381311.280A1.1



Swept Path indicates trailer utilising MANUAL steering

Siemens
SG155 Turbine Blade Component
Super Wing Carrier trailer



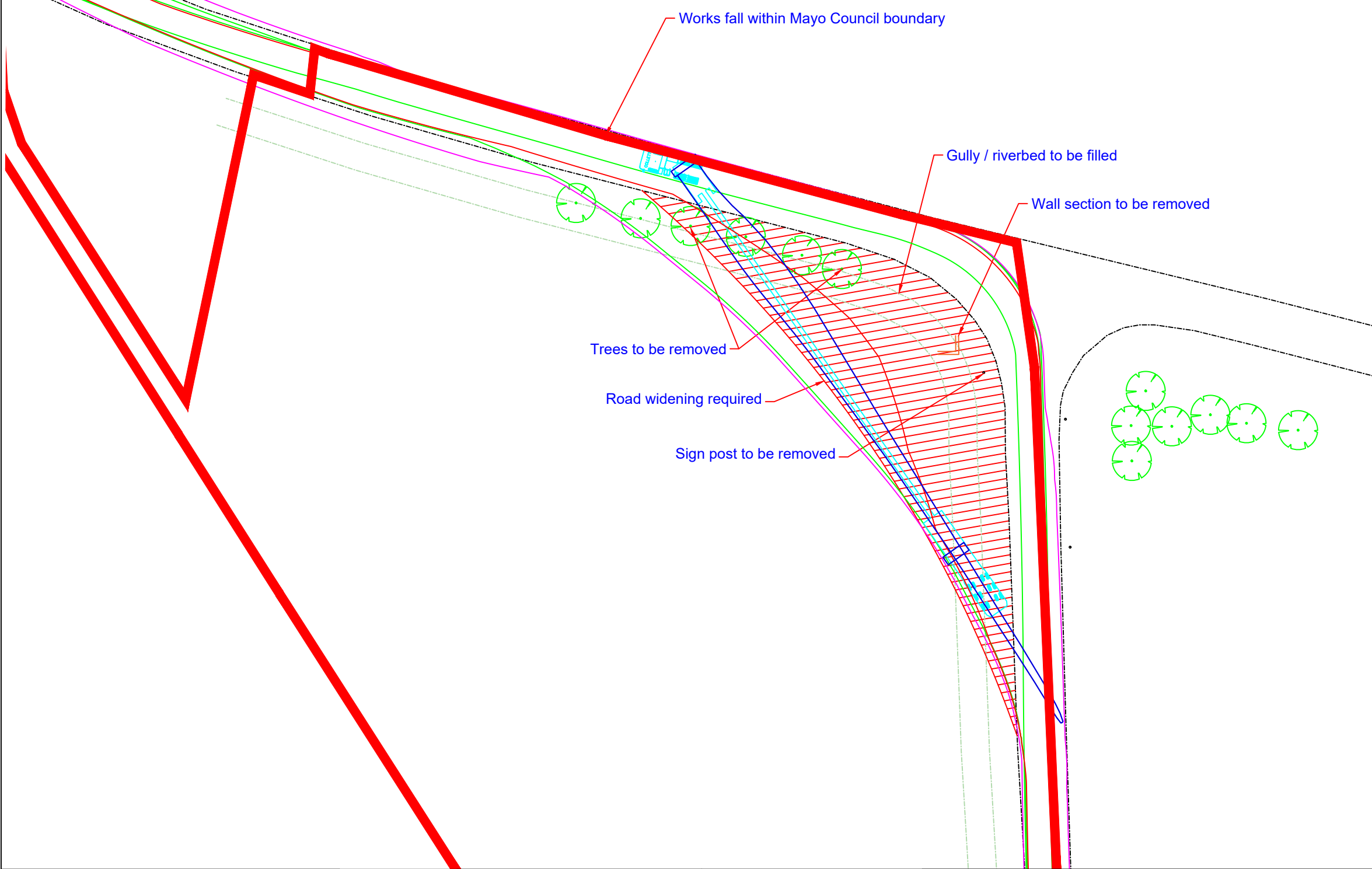
Turn left at the junction onto the L1331.

****Caution****

- The sign posts on both sides of the junction are required to be removed due to blade oversail.
- The telegraph pole on the offside is required to be removed as shown.
- Tree pruning is required on both sides of the junction as indicated to allow for blade oversail.

Irish Grid Reference: G 49597 01483

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- All dimensions in meters

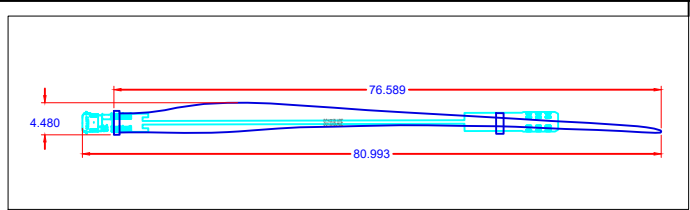


- Area within red outline will be swept by tractor and trailer axles
- ▨ Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body



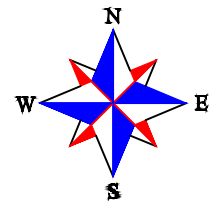
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NAME	S.BUDGEN	TITLE	UNNAMED ROAD JUNCTION WITH L1331		
DATE	27/04/2023	MAPPING	ORDNANCE SURVEY <small>Adjusted</small>	CUSTOMER	JENNINGS O'DONOVAN
SCALE	1:500	SIZE	A3	PINCH POINT IDENTIFIED BY	CLIENT
				SITE	FIRLOUGH WIND FARM
				DWG. NO	381311.290A1.1



Swept Path indicates trailer utilising MANUAL steering

Siemens
SG155 Turbine Blade Component
Super Wing Carrier trailer



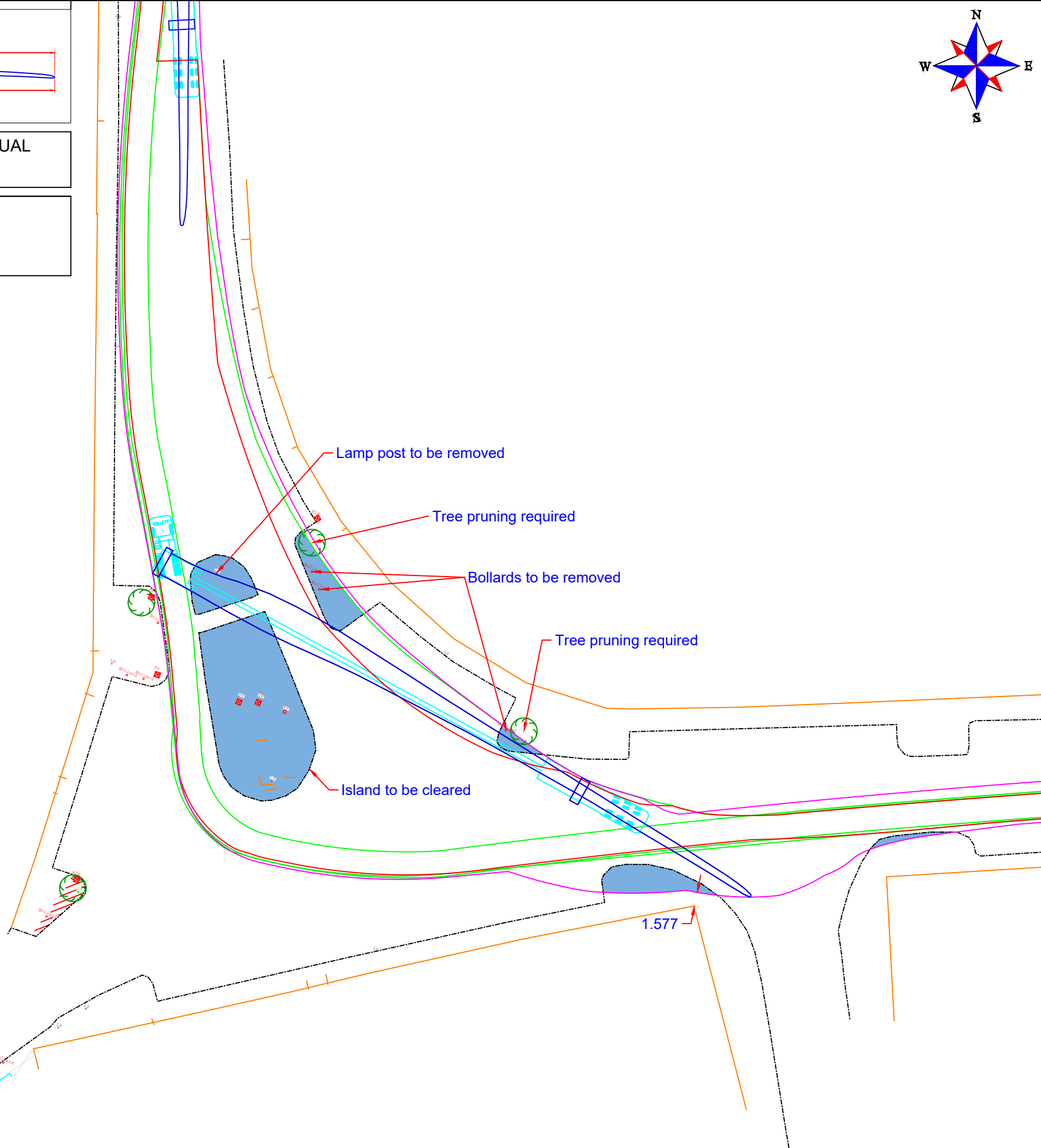
Turn right at the junction onto the N17.

****Caution****

- The central island on the junction is required to be cleared of any obstruction to allow the trailer body to oversail.
- The bollards on the offside of the junction are required to be removed as shown.
- Tree pruning is required on the offside to allow the loaded blade to oversail.

Irish Grid Reference: G 47873 01914

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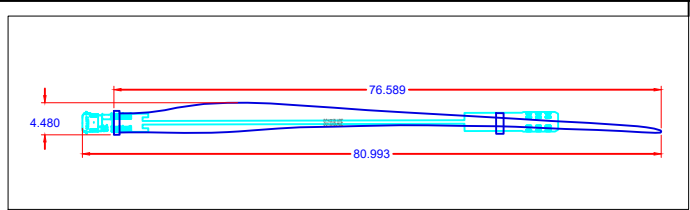


- Area within red outline will be swept by tractor and trailer axles
- ▨ Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body



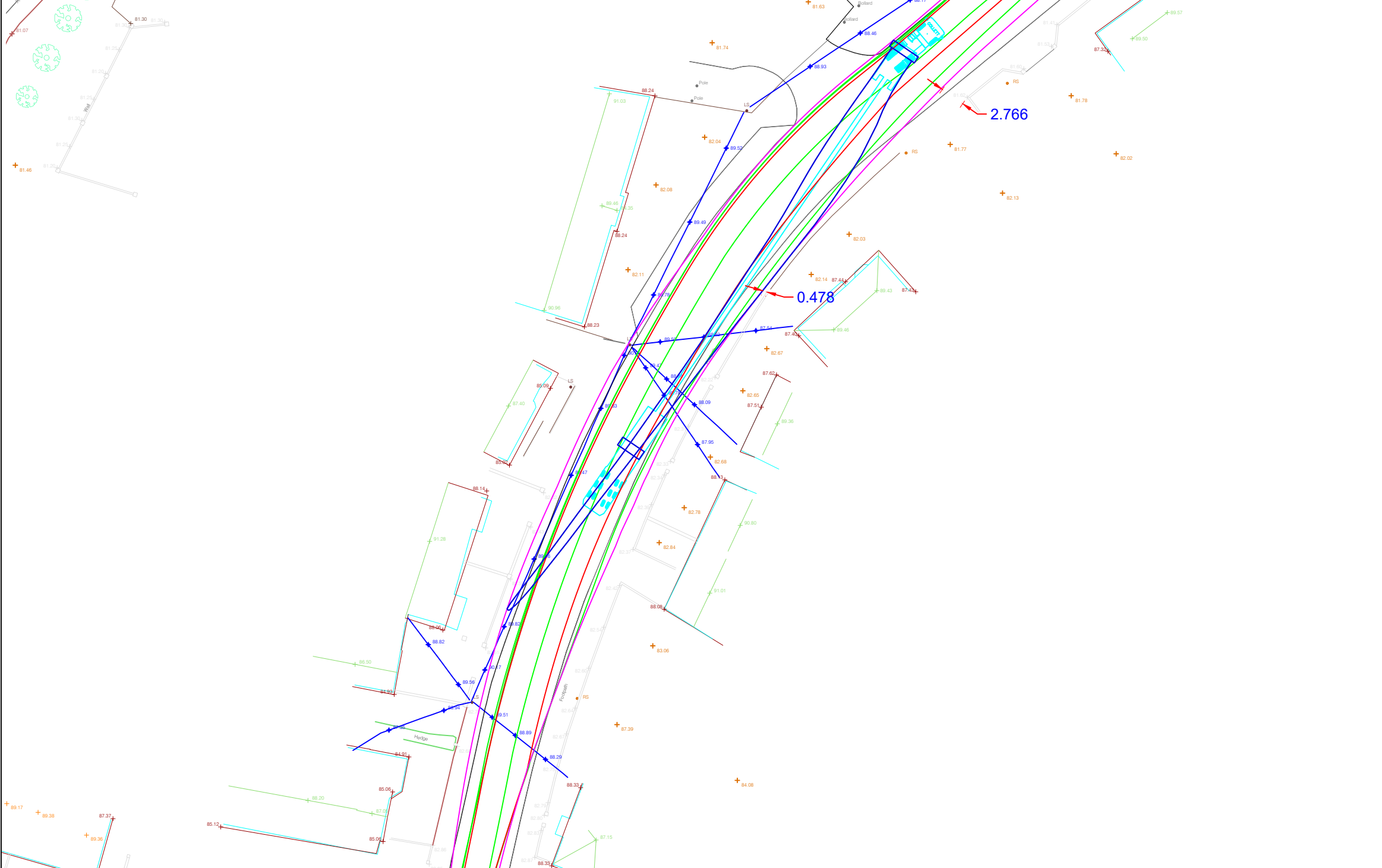
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NAME	S.BUDGEN	TITLE	L1331 / N17 JUNCTION IN CHARLESTOWN	
DATE	27/04/2023	MAPPING TOPOGRAPHICAL SURVEY	CUSTOMER	JENNINGS O'DONOVAN
SCALE 1:500	SIZE A3	PINCH POINT IDENTIFIED BY	CLIENT	SITE FIRLOUGH WIND FARM DWG. NO 381311.300A1.1



Swept Path indicates trailer utilising MANUAL steering

Siemens
SG155 Turbine Blade Component
Super Wing Carrier trailer



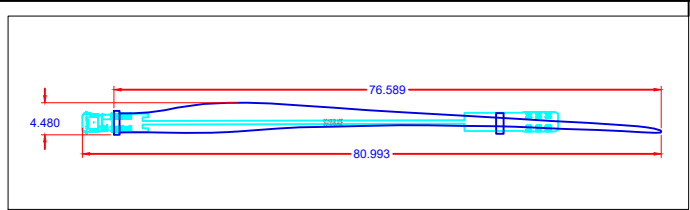
Continue on the R294 through Tobercurry.
****Caution****
• The loaded blade vehicle will navigate this bend without issue.

Irish Grid Reference: G 51991 11632

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- All dimensions in meters

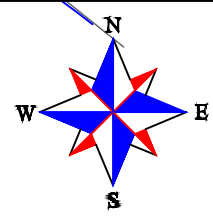
- Area within red outline will be swept by tractor and trailer axles
- ▨ Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body

	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	NAME S.BUDGEN DATE 27/04/2023 SCALE 1:500	TITLE RIGHT HAND BEND IN TOBERCURRY, TEELING STREET MAPPING TOPOGRAPHICAL SURVEY SIZE A3	CUSTOMER JENNINGS O'DONOVAN CLIENT FIRLOUGH WIND FARM SITE DWG. NO 381311.310A1.1
			PINCH POINT IDENTIFIED BY	CLIENT
			SIZE A3	CLIENT



Swept Path indicates trailer utilising MANUAL steering

Siemens
SG155 Turbine Blade Component
Super Wing Carrier trailer



Continue on the R294 through Tobercurry.

****Caution****

- The loaded blade vehicle will navigate this bend without issue.

Irish Grid Reference: G 52237 11854

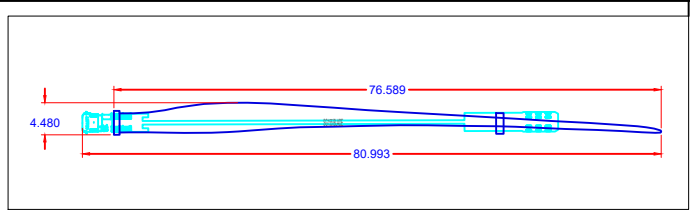
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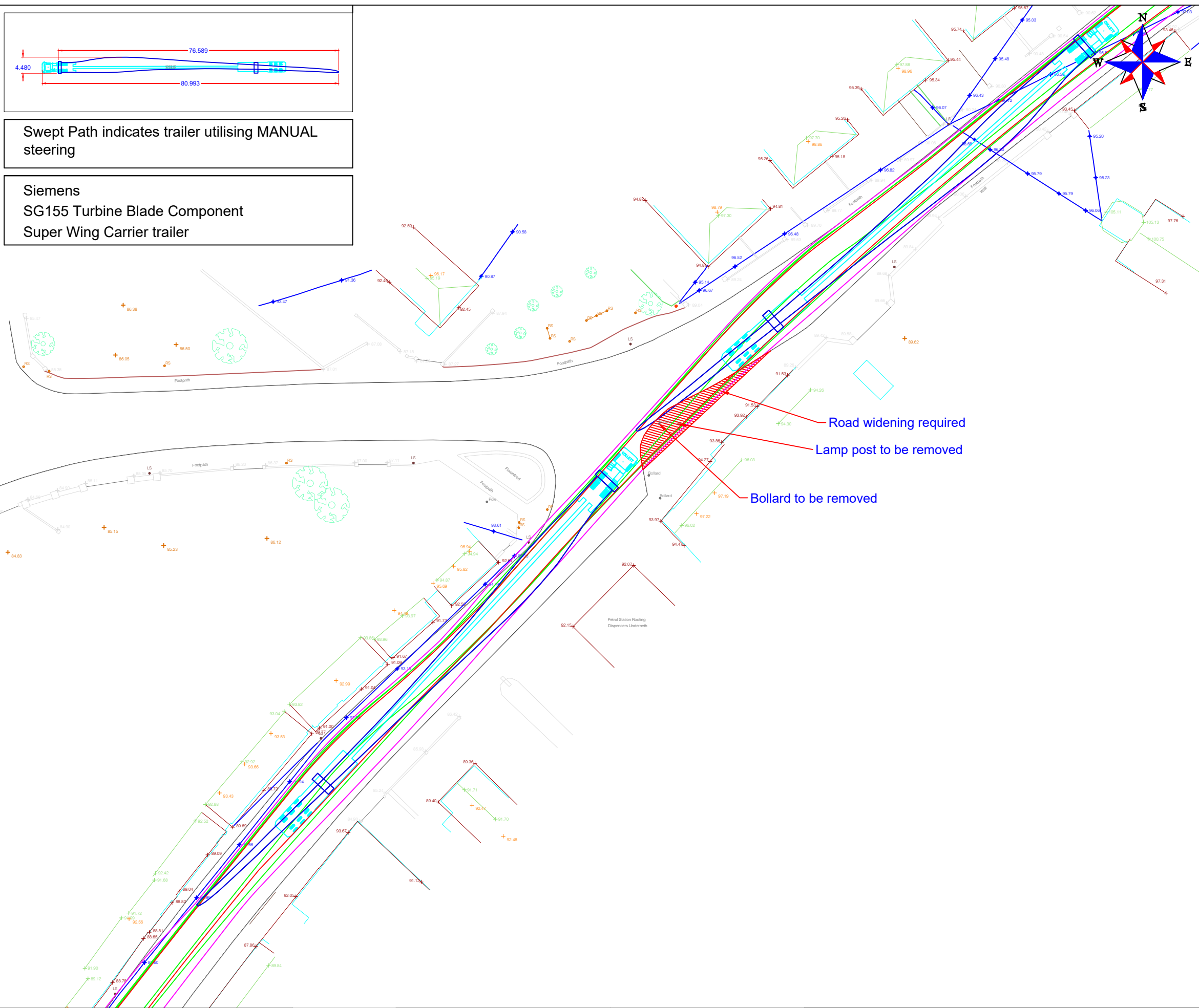
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NAME	S.BUDGEN	TITLE	LEFT HAND BEND IN TOBERCURRY, TEELING STREET	
DATE	27/04/2023	MAPPING TOPOGRAPHICAL SURVEY	CUSTOMER	JENNINGS O'DONOVAN
SCALE 1:500	SIZE A3	PINCH POINT IDENTIFIED BY	CLIENT	SITE FIRLOUGH WIND FARM DWG. NO 381311.320A1.1



Swept Path indicates trailer utilising MANUAL steering

Siemens
SG155 Turbine Blade Component
Super Wing Carrier trailer



At the junction, turn right to join the N17.

****Caution****

- Road widening is required on the protruding kerb as indicated by the red hatching.
- The lamp post and bollard on this section are required to be removed.

Irish Grid Reference: G 52395 12071

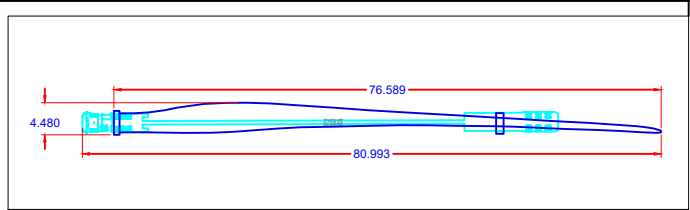
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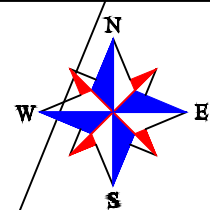
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NAME	S.BUDGEN	TITLE	R294 JUNCTION WITH N17 LEAVING TOBERCURRY	
DATE	27/04/2023	MAPPING TOPOGRAPHICAL SURVEY	CUSTOMER	JENNINGS O'DONOVAN
SCALE	1:500	SIZE	A3	PINCH POINT IDENTIFIED BY CLIENT
		SITE	FIRLOUGH WIND FARM	DWG. NO 381311.330A1.1



Swept Path indicates trailer utilising MANUAL steering

Siemens
SG155 Turbine Blade Component
Super Wing Carrier trailer



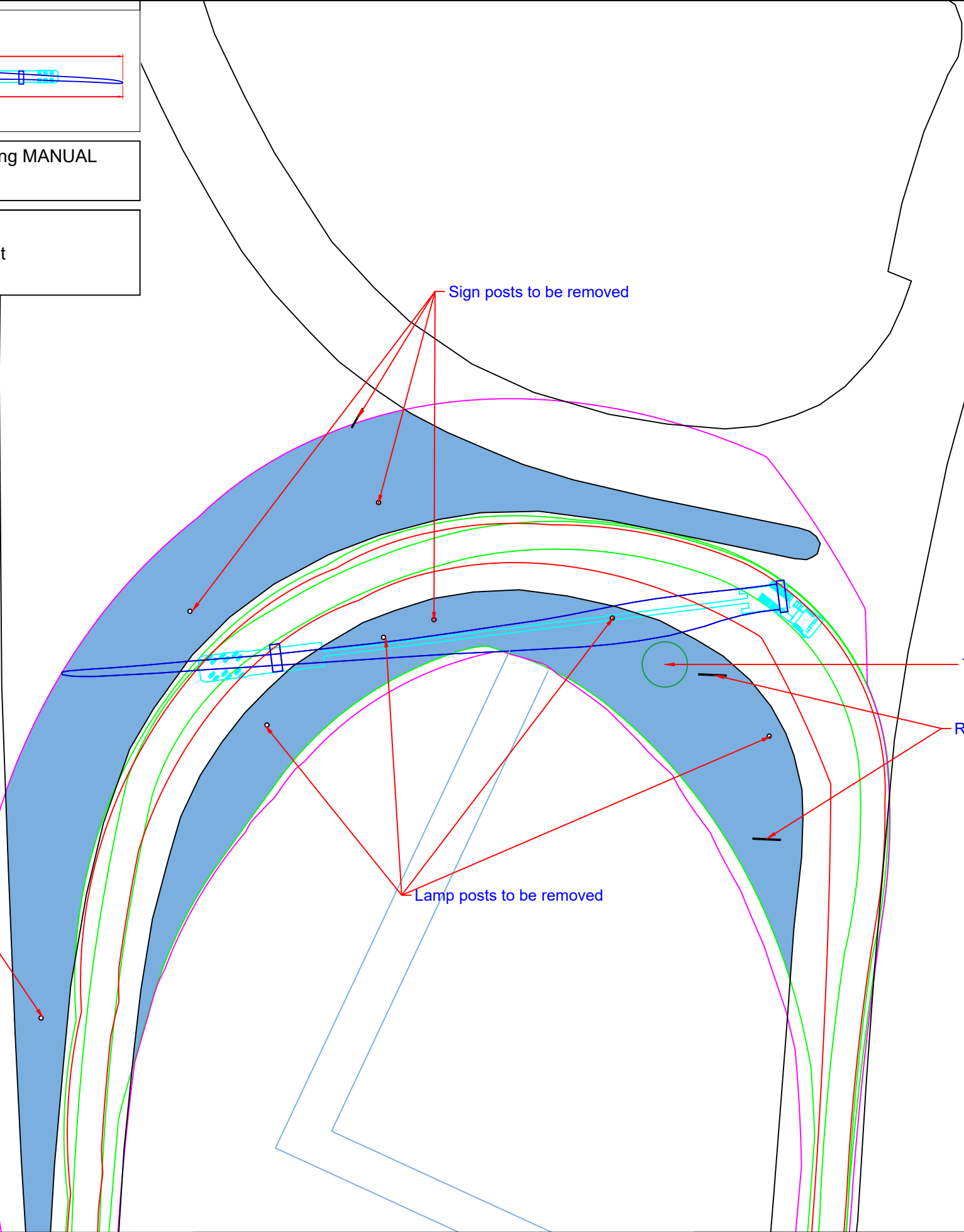
Contraflow the N4 to take the slip road onto the N59.

****Caution****

- The indicated street furniture is required to be removed to allow the loaded blade and trailer body to oversail.
- Tree pruning / removal is required as indicated.

Irish Grid Reference: G 67491 30440

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- All dimensions in meters



Sign post to be removed

Sign posts to be removed

Tree to be removed

Road sign to be removed

Lamp posts to be removed

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NAME	S.BUDGEN	TITLE	N4 / N59 SLIP ROAD	
DATE	30/05/2023	MAPPING	ORDNANCE SURVEY <small>Adjusted</small>	CUSTOMER
SCALE	1:500	SIZE	A3	PINCH POINT IDENTIFIED BY
			CLIENT	SITE
				FIRLOUGH WIND FARM
				DWG. NO 381311.360A1.1