

Appendix 2A

TURBINE DELIVERY ROUTE REPORT (TDR)



TURBINE DELIVERY ASSESSMENT REPORT

BRITTAS WIND FARM

Brittas Wind Farm Ltd.

July 2024

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Project No.	Doc. No.	Rev.	Date	Prepared By	Checked By	Approved By	Status
23318	MWP-00-ST-RP-Z-6001	P01	02/02/2024	CMcL	PC		S0
23318	MWP-00-ST-RP-Z-6001	P02	07/03/2024	CMcL	PC	MT	S2
23318	MWP-00-ST-RP-Z-6001	P03	28/07/2024	CMcL	PC	MT	S3
23318	MWP-00-ST-RP-Z-6001	P04	11/07/2024	CMcL	PC	MT	S4

MWP, Engineering and Environmental Consultants
Address: Park House, Bessboro Road, Blackrock, Cork, T12 X251, Ireland
www.mwp.ie



2. Turbine Delivery Route Assessment

2.1 Delivery Route Overview

The proposed Wind Farm is located on a greenfield site in the townlands of Brittas/Brownstown/Rossestown, 3km north of Thurles in County Tipperary, Ireland. The proposed Wind Farm consists of 10 No. wind turbines. No decision on the turbine make or model has been made but three models are being assessed which will have a blade length between 73m and 76m therefore a maximum blade length of 81.5m has been considered to assess the route. Malachy Walsh and Partners (MWP) have been requested to provide a study on the viability of delivering components for this class of turbine to the proposed development.

The components for each turbine are expected to be delivered in approximately 10 No. deliveries (approximately 100 No. deliveries in total). Due to their abnormal size, blades and towers will be delivered at night to avoid disruption to daytime traffic. The turbine blades will be the longest components to be transported from port to site at approximately 81.5m in length. The components are expected to be delivered by sea to one of four ports; Limerick, Galway, Waterford and Dublin and transported to site along the national, regional and local road network.

Pre and post-construction surveys will be carried out to ensure the structural integrity of the selected haulage route as per Tipperary County Council and Transport Infrastructure Ireland (TII) requirements. Repairs will be carried out on the public road network, as necessary, during the construction phase, to ensure that the condition does not deteriorate below a standard that could affect the use of the roads. Following completion of construction, the condition of the public road network will be of at least the same standard as it was prior to commencement of construction.

2.2 Proposed Delivery Route

The proposed port of entry for the wind turbine components will likely be the port of Foynes in County Limerick. The proposed route travels from the port of Foynes along the N69 to the M7 motorway to Junction 25 (Nenagh Centre) to the site entrance on L8017. A description of the section is provided below, and an overview of the proposed section is shown in **Figure 2-1**,

- Exit M7 at Junction 25
- M7/R498/ Roundabout, Exit travelling southeast
- Travelling southeast along R498 to Borrisoleigh
- Travelling southeast along R498 to Thurles
- R498/Jimmy Doyle Rd Roundabout, 1st Exit travelling northeast
- Turn left at Jimmy Doyle Rd/N62 (Brittas Rd) junction
- Travelling north along N62 (Brittas Rd) to Brittas
- Turn right at N62 (Brittas Rd)/L8017 (Rossestown Rd junction)
- Travelling east along L8017.
- Turn left at site entrance for wind turbines 1 - 8
- Turn right at site entrance for wind turbines 9 – 10

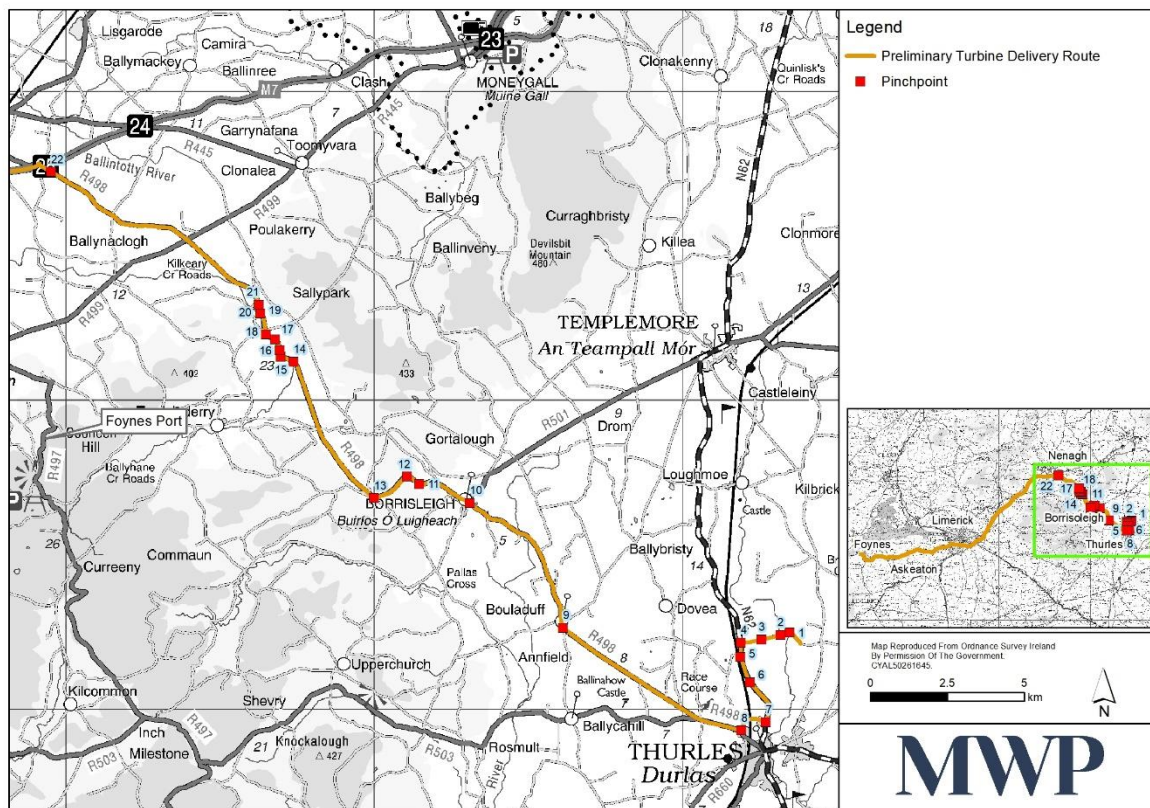


Figure 2-1 Proposed Turbine Delivery Route

2.3 Swept Path Analysis

The proposed turbines will have a blade length of between 73m and 76m. For the swept path analysis, a larger blade length of 81.5m was modelled to allow for extra clearance and avoid constraints along the route. The extent of the proposed blades will fit within the swept path area detailed in this analysis

A vehicle swept path analysis (SPA) of an 81.5m blade on a vehicle with an overall length of 93.3m (truck and blade) was completed using Autodesk® Vehicle Tracking software.

Analysing aerial photography, topographical survey, GIS and information from site visits for the proposed route highlighted pinch points that required a vehicle tracking model.

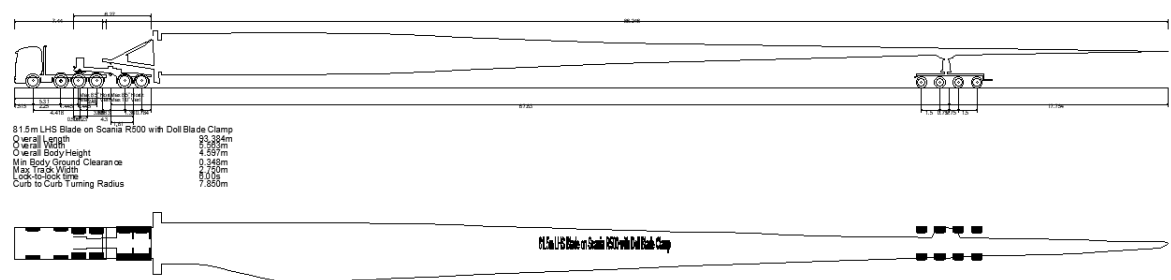


Figure 2-2 Blade configuration details used for Autodesk Vehicle Tracking

The Autodesk model was developed for an 81.5m blade with a 14.8m overhang on a Scania R500 (doll blade clamp) truck and bogie trailer, see **Figure 2-2**, in assessing the route from M7 junction 25 Nenagh (centre) to the proposed site entrances on L8017. The type of trailer used for the model is common for transporting turbine blades and available from heavy haulage / turbine transport companies.

An automatic steering principle within the software was used where possible but otherwise a manual override system is used with a conservative maximum steering angle of 30°, apart from N62 – Cluian Glas T-Junction where a 50° steering angle was used, to help alter the path of the bogie past constraints at pinch points.

The Swept Path Analysis output is illustrated in the drawings included in **Appendix 1**. This shows the extents of the wheel swept path, vehicle body swept path and blade swept path as the delivery truck manoeuvres around each pinch point. This information highlights areas that require widening or clearance along the route. See Table 3-1 for an overview of works required to public roads along the turbine delivery route. The images within the table are extracts from the Autodesk model, the coloured lines represent different elements of the delivery vehicle.

- Cyan – Vehicle outline
- Red – Wheelbase footprint (truck & trailer)
- Magenta - Extent of Load outline
- Green – Extent of body outline (tower/blade)



2.4 Delivery Route Enabling Works


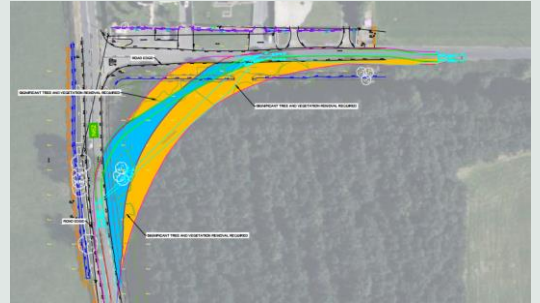
The section of the route that has been modelled is from the M7, junction 25 Nenagh (centre), along the R498 through Borrisoleigh and Thurles to the site at Brittas. Table 3-1 shows the pinch points along the route, provides a description of the enabling works required and drawing number for each pinch point. The route is split into three zones, the table also shows which zone the pinch point is in and the corresponding drawing number showing the zone.



Zone 1: Brittas site to Thurles town
Zone 2: Thurles to Borrisoleigh
Zone 3: Borrisoleigh to M7 junction 25




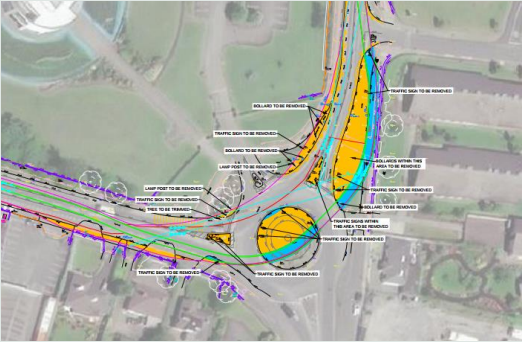
Table 3-1: Overview of Works Required along Turbine Delivery Rout

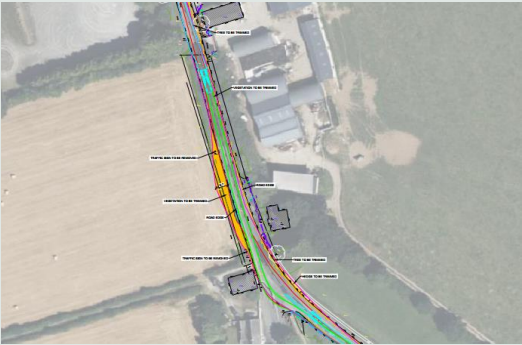

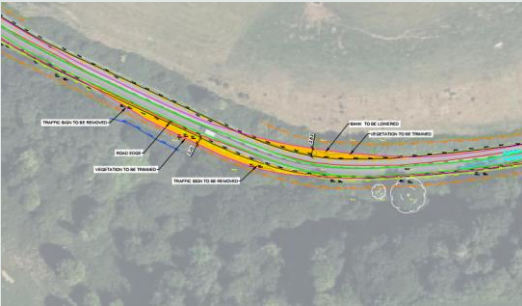
Zone Ref #	Ref #	Overview Drawing Number	Pinch Point Drawing Number	Description of Location	Agreement Required**	Description of Enabling Works	Aerial photo of site location
ZONE 1	1	23318-MWP-HR-01-DR-C-1101	23318-MWP-HR-01-DR-C-0102	Site Entrance to T7 L8017 ITM Coordinates: 613416, 662524	Y	<ul style="list-style-type: none"> •Trees and vegetation to be trimmed on north & south side of L8017 •Trees and vegetation to be removed on north side of L8017 •Fence to be removed on northside of L8017 •Turbine will over sail on both north and south sides of L8017 •Stream crossing on TDR to T7 construction of a bridge required •Road widening needed on northside of L8017 	
	2		23318-MWP-HR-01-DR-C-0103	Site entrance to T9 L8017 ITM Coordinates: 613106, 662446	Y	<ul style="list-style-type: none"> •Trees and vegetation to be trimmed on south side of L8017 •Fence to be removed on south side of L8017 •Vegetation to be removed on south side of L8017 	

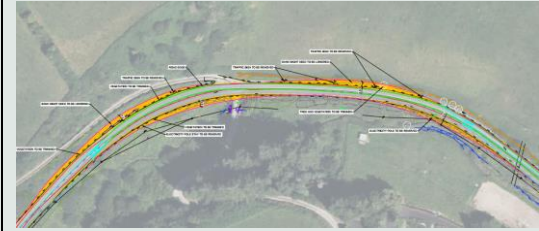
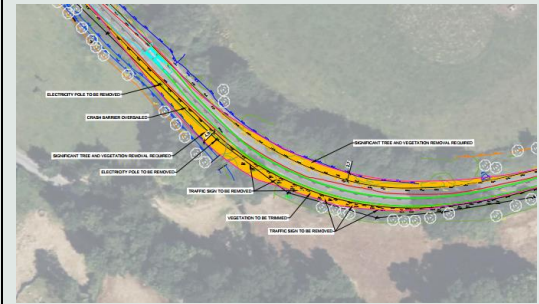
Zone Ref #	Ref #	Overview Drawing Number	Pinch Point Drawing Number	Description of Location	Agreement Required**	Description of Enabling Works	Aerial photo of site location
	3		23318-MWP-HR-01-DR-C-0104	Site Entrance to T8 L8017 ITM Coordinates: 612498, 662301	Y	<ul style="list-style-type: none"> •Trees to be trimmed on south side of L8017 •Vegetation to be trimmed on north side of L8017 •Vegetation to be removed on north side of L8017 •Minor oversailing to occur on south side of L8017 •Road widening on north side of L8017 	
	4		23318-MWP-HR-01-DR-C-0105	N62-L8017 Junction ITM Coordinates: 611819, 662197	Y	<ul style="list-style-type: none"> •Significant tree and vegetation removal on east side of N62 •Significant tree and vegetation removal on south side of L8017 •Significant road widening needed on both N62 and L8017s. •Minor oversailing to occur on north side of L8017" 	

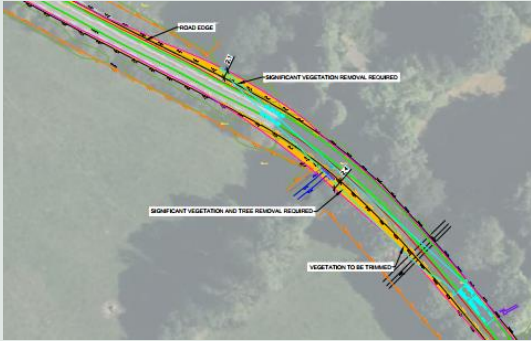
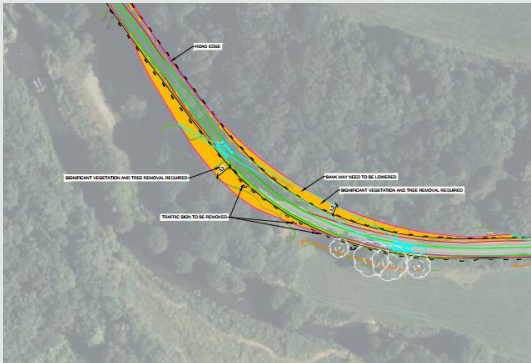
Zone Ref #	Ref #	Overview Drawing Number	Pinch Point Drawing Number	Description of Location	Agreement Required**	Description of Enabling Works	Aerial photo of site location
	5		23318-MWP-HR-01-DR-C-0106	N62-Brittas Road Junction ITM Coordinates: 611811, 661742	N	<ul style="list-style-type: none"> •Delivery truck will overrun onto the footpath on west side of N62 just after junction with Brittas Road, will be 0.2 metres from wall on west side •Trees will need to be trimmed on east side of N62 •Traffic sign will need to be removed on west and east side of N62 •Turbine will oversail on west and east side of N62" 	
	6		23318-MWP-HR-01-DR-C-0107	N62-Right Hand Bend ITM Coordinates: 612130, 660913	N	<ul style="list-style-type: none"> •Turbine will oversail slightly on west and east side of N62 	


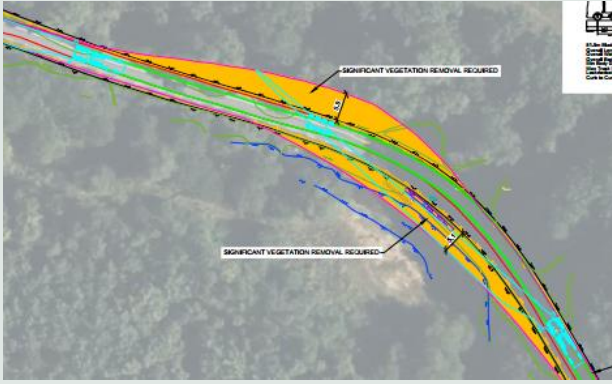
Zone Ref #	Ref #	Overview Drawing Number	Pinch Point Drawing Number	Description of Location	Agreement Required**	Description of Enabling Works	Aerial photo of site location
	7		23318-MWP-HR-01-DR-C-0108	N62-Cluain Glas (Jimmy Doyle Road) T Junction ITM Coordinates: 612643, 659625	Y	<ul style="list-style-type: none">•Vegetation & trees to be trimmed & removed on east side of N62 & north & south side of Jimmy Doyle Road•Lamp post to be removed on west & east side of N62 as well as north & south side of Jimmy Doyle Road•Traffic light to be removed on south side of Jimmy Doyle Road•Traffic sign to be removed on north & south side of Jimmy Doyle Road & west side of N62•Road widening works to take place on north & south side of Jimmy Doyle Road. Road widening to take place on west & east side of N62•Significant oversailing to occur on south & north side of Jimmy Doyle Road. Oversailing will also take place on west side of N62"	


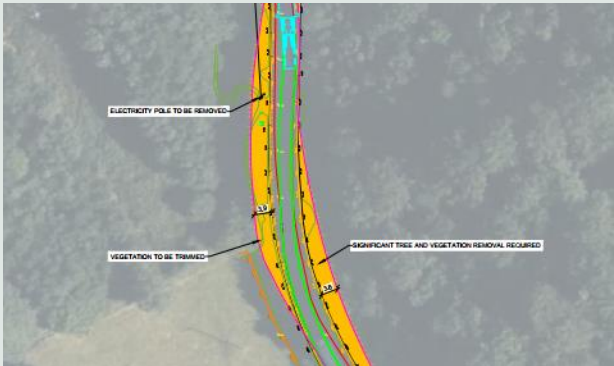
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	8		23318-MWP-HR-01-DR-C-0109	Tipperary Institute Roundabout ITM Coordinates: 611842, 659350	N	<ul style="list-style-type: none">•Traffic signs to be removed on R498, Nenagh Road & roundabout island•Lamp posts to be removed on R498 and Nenagh Road•Tree to be trimmed on north side of R498•Bollards to be removed on west & east side of Nenagh Road•Oversailing will occur on west & east side of Nenagh Road as well as north & south side of R498•Road widening will occur on east side of Nenagh Road and south side of R498"	


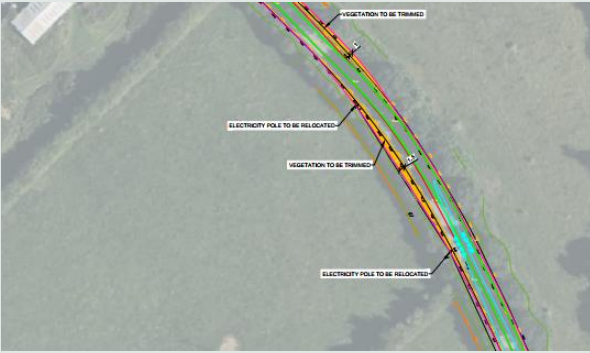
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ZONE 2	9	23318-MWP-HR-02-DR-C-1102	23318-MWP-HR-02-DR-C-0110	R498/L4124 Junction ITM Coordinates: 606061, 662680	Y	<ul style="list-style-type: none"> •Trees & vegetation to be trimmed on west & east side of R498 •Traffic signs to be removed on west side of R498 •Road widening to be implemented on west side of R498 •Turbine will oversail on west and east side of R498 	
	10		23318-MWP-HR-02-DR-C-0111	R498 / Borrisoleigh Town ITM Coordinates: 603049, 666723	N	<ul style="list-style-type: none"> •2 Trees need to be trimmed on north side of R498 and tree trimming needed on south side •Overhead cable must be noted on north side of R498 •Turbine will oversail on both north & south sides of R498 through Borrisoleigh 	
	11		23318-MWP-HR-02-DR-C-0112	R498 / Left Hand Bend ITM Coordinates: 601416, 667332"	Y	<ul style="list-style-type: none"> •Vegetation to be trimmed on north and south side of R498 •Traffic sign to be removed on south side of R498 •Turbine will oversail on both the north and south side of R498 of bend 	

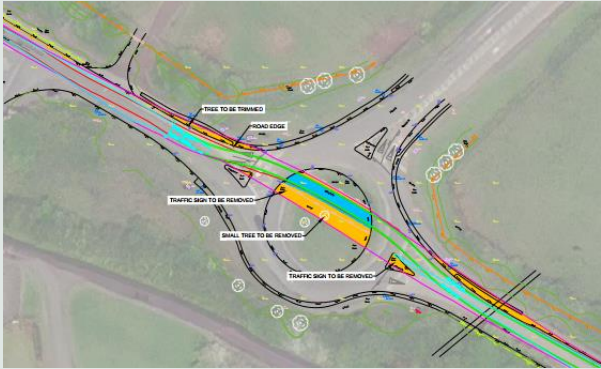
Zone Ref #	Ref #	Overview Drawing Number	Pinch Point Drawing Number	Description of Location	Agreement Required**	Description of Enabling Works	Aerial photo of site location
	12		23318-MWP-HR-02-DR-C-0113	R498 / Right Hand Bend ITM Coordinates: 601010, 667573	Y	<ul style="list-style-type: none"> •Trees & Vegetation to be trimmed on north and south side of R498 •Traffic Signs to be removed on north side of R498 •Possibility bank may need to be lowered on north side of R498 •Electricity pole and pole stay to be removed on south side of R498 •Turbine will oversail on north and south side of R498 	
	13		23318-MWP-HR-02-DR-C-0114	Left Hand Bend after R498/L4141 Junction ITM Coordinates: 599944, 666881	Y	<ul style="list-style-type: none"> •Significant tree and vegetation removal required on north and south side of R498 •Traffic signs and electricity poles to be removed •Turbine will oversail on both north and south side of R498 	

Zone Ref #	Ref #	Overview Drawing Number	Pinch Point Drawing Number	Description of Location	Agreement Required**	Description of Enabling Works	Aerial photo of site location
ZONE 3	14	23318-MWP-HR-03-DR-C-1103	23318-MWP-HR-03-DR-C-0115	R498 "S" Bends Sheet 1 ITM Coordinates: 597338, 671292	Y	<ul style="list-style-type: none"> •Significant vegetation and tree removal required on north and south side of R498 •Turbine will oversail on north and south side of R498 	
	15		23318-MWP-HR-03-DR-C-0116	R498 "S" Bends Sheet 2 ITM Coordinates: 596925, 671451	Y	<ul style="list-style-type: none"> •Significant tree and vegetation removal needed on north and south side of R498 •Bank on north side may need to be lowered •Traffic sign to be removed on south side of R498 •Turbine will oversail on north and south side of R498 	

Zone Ref #	Ref #	Overview Drawing Number	Pinch Point Drawing Number	Description of Location	Agreement Required**	Description of Enabling Works	Aerial photo of site location
	16		23318-MWP-HR-03-DR-C-0117	R498 "S" Bends Sheet 3 ITM Coordinates: 596892, 671671	Y	<ul style="list-style-type: none"> •Significant tree and vegetation removal needed on west and east side of R498 •Turbine will oversail on west and east side of R498 	
	17		23318-MWP-HR-03-DR-C-0118	R498 "S" Bends Sheet 4 ITM Coordinates: 596740, 672023	Y	<ul style="list-style-type: none"> •Significant vegetation removal and tree trimming needed on north and south side of R498 •Turbine will oversail on west and east side of R498 	

Zone Ref #	Ref #	Overview Drawing Number	Pinch Point Drawing Number	Description of Location	Agreement Required**	Description of Enabling Works	Aerial photo of site location
	18		23318-MWP-HR-03-DR-C-0119	R498 "S" Bends Sheet 5 ITM Coordinates: 596445, 672176	Y	<ul style="list-style-type: none"> •Tree to be removed on west side of R498 & tree/vegetation trimming needed on both sides •Traffic sign to be removed on west side •Turbine will oversail on west and east side of R498 	
	19		23318-MWP-HR-03-DR-C-0120	R498 "S" Bends Sheet 6 ITM Coordinates: 596251, 672857	Y	<ul style="list-style-type: none"> •Turbine will oversail on west and east side of R498 •Vegetation to be trimmed on west and east side •Significant tree and vegetation removal needed on east side of R498 •Electricity poles to be removed on west side of R498 	

Zone Ref #	Ref #	Overview Drawing Number	Pinch Point Drawing Number	Description of Location	Agreement Required**	Description of Enabling Works	Aerial photo of site location
	20		23318-MWP-HR-03-DR-C-0121	R498 "S" Bends Sheet 7 ITM Coordinates: 596215, 673147	N	<ul style="list-style-type: none">•Vegetation to be trimmed on west and east side of R498•Turbine will oversail on west side of R498	
	21		23318-MWP-HR-03-DR-C-0122	R498 "S" Bends Sheet 8 ITM Coordinates: 596215, 673147	N	<ul style="list-style-type: none">•Vegetation to be trimmed on west and east side of R498•Turbine will oversail on west and east side of R498	

Zone Ref #	Ref #	Overview Drawing Number	Pinch Point Drawing Number	Description of Location	Agreement Required**	Description of Enabling Works	Aerial photo of site location
	22		23318-MWP-HR-03-DR-C-0123	M7/R498 Roundabout ITM Coordinates: 589473, 677443	N	<ul style="list-style-type: none">•Traffic signs to be removed•Small tree on roundabout island to be removed and tree trimming needed on north side of R498•Turbine will oversail on north side of R498	

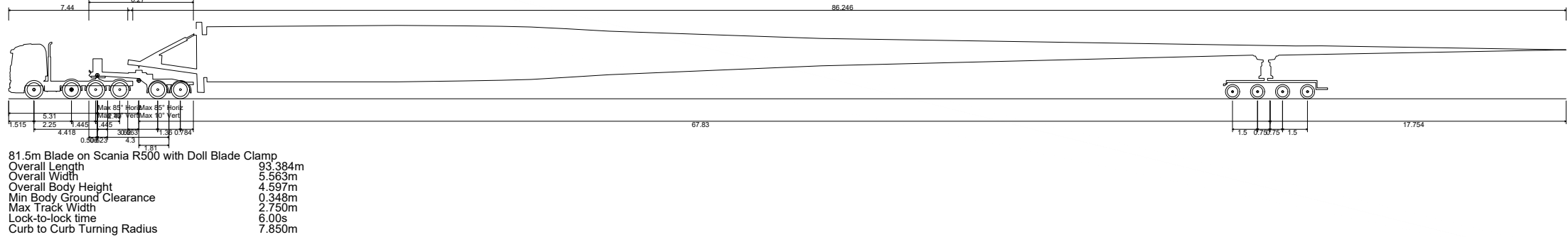
3. Recommendations and Conclusions

The swept path analysis has identified areas of oversail and overrun along the proposed turbine delivery route. These have been detailed in the drawings appended to this report.

Prior to commencement of any works and delivery of turbines to site, a permit for moving abnormal loads to the wind farm site will be sought from An Garda Síochána, Tipperary County Council and Limerick County Council on the selected haulage route. A detailed transportation plan with a breakdown of the timing of deliveries will be established at construction stage.

Appendix 1

Turbine Delivery Route Assessment Drawings



VEGETATION TO BE TRIMMED

TREE TO BE TRIMMED

VEGETATION TO BE TRIMMED

ROAD EDGE

VEGETATION TO BE TRIMMED

VEGETATION TO BE TRIMMED

FENCE OVERSAILED

VEGETATION TO BE TRIMMED

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WIND FARM SWEPT PATH ANALYSIS (SPA) LEGEND

- EXTENT OF BODY OUTLINE
- EXTENT OF WHEELBASE FOOTPRINT
- EXTENT OF LOAD OUTLINE
- AREA REQUIRED FOR LOAD OVERSAIL
- AREA WIDENED & SURFACED WITH CLAUSE 804
- PROPOSED SITE ENTRANCE
- VEGETATION
- FENCE
- DITCH
- WALL

REFERENCE DRAWINGS:

DRAWING No.	DRAWING TITLE
23318-MWP-HR-01-DR-C-1101	HAUL ROUTE WIDENING WORKS MASTER SHEET - FROM TIPPERARY ROUNDABOUT TO SITE

P01	26/07/23	ISSUED FOR INFORMATION	OR	BS
REV	DATE	DESCRIPTION	BY	APP

PROJECT:
BRITTAS WIND FARM

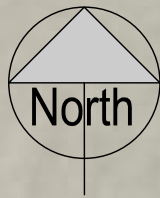
TITLE:
HAUL ROUTE WIDENING WORKS -
SITE ENTRANCE T11

CLIENT:

ENGINEERING AND ENVIRONMENTAL CONSULTANTS
CORK | TRALEE | LONDON | LIMERICK
mwp.ie

DRAWN: O.R.	CHECKED: P.C.	APPROVED: B.S.
PROJECT NUMBER: 23318	DATE: 26/07/23	SCALE @ A1: 1:500
STATUS DESCRIPTION FOR INFORMATION		STATUS: S2

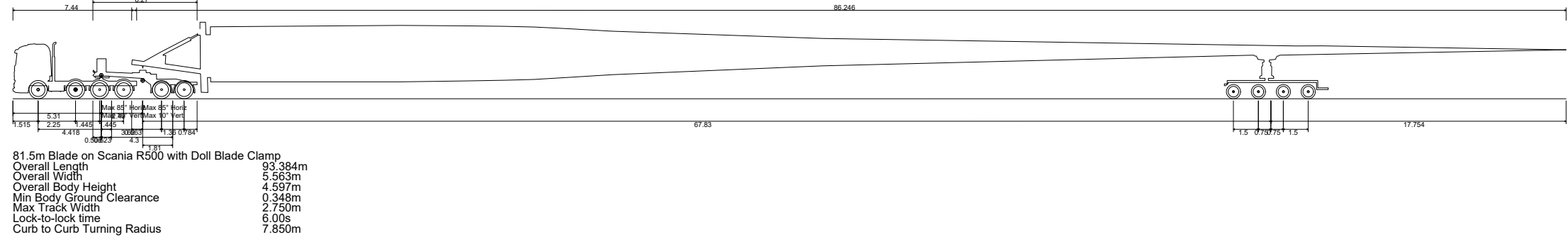
DRAWING NUMBER: 23318 - MWP -HR- 01 -DR-C- 0101	REV: P01
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NOTE

TO GET TO T11 TRUCK TO TURN LEFT INTO SITE TO T7, TURN AROUND USING THE FULL TURNING HEAD PAST T7 AND DRIVE BACK TO T11

STREAM CROSSING



DO NOT SCALE FROM THIS DRAWING.
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6. ALL DIMENSIONS ARE IN **METRES**, UNLESS NOTED OTHERWISE.

WIND FARM SWEEPED PATH ANALYSIS (SPA) LEGEND

- EXTENT OF BODY OUTLINE
- EXTENT OF WHEELBASE FOOTPRINT
- EXTENT OF LOAD OUTLINE
- AREA REQUIRED FOR LOAD OVSAIL
- AREA WIDENED & SURFACED WITH CLAUSE 804
- PROPOSED SITE ENTRANCE
- VEGETATION
- FENCE
- DITCH
- WALL

REFERENCE DRAWINGS:

DRAWING No.	DRAWING TITLE
23318-MWP-HR-01-DR-C-1101	HAUL ROUTE WIDENING WORKS MASTER SHEET - FROM TIPPERARY ROUNDABOUT TO SITE

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REV	DATE	DESCRIPTION	BY	APP

PROJECT: BRITTAS WIND FARM

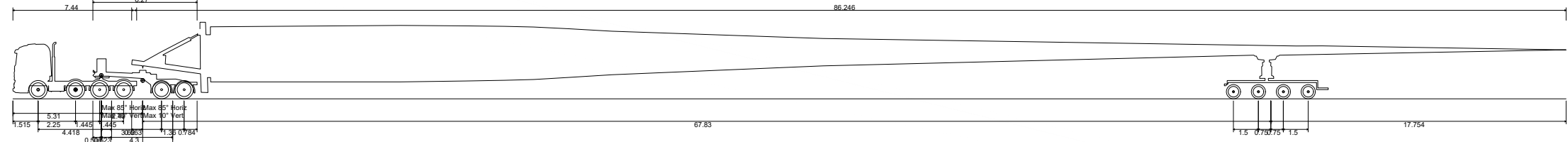
TITLE: HAUL ROUTE WIDENING WORKS -
SITE ENTRANCE T7

CLIENT:

ENGINEERING AND ENVIRONMENTAL CONSULTANTS
CORK | TRALEE | LONDON | LIMERICK
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DRAWN: O.R.	CHECKED: P.C.	APPROVED: B.S.
PROJECT NUMBER: 23318	DATE: 26/07/23	SCALE @ A1: 1:500
STATUS DESCRIPTION: FOR INFORMATION		STATUS: S2

DRAWING NUMBER: 23318 - MWP -HR- 01 -DR-C- 0102	REV: P01
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81.5m Blade on Scania R500 with Doll Blade Clamp
Overall Length 8.1m
Overall Width 2.56m
Overall Height 4.59m
Wheelbase 2.75m
Track Width 0.34m
Ground Clearance 0.09m
Lock-to-lock Angle 6.00 degrees
Curb-to-curb Turning Radius 7.85m

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3. ALL CO-ORDINATES ARE TO IRISH TRANSVERSE MERCATOR (ITM) AND IN METERS.
4. ANY DISCREPANCIES BETWEEN THESE DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
5. DRAWINGS ARE NOT TO BE SCALED.
6. ALL DIMENSIONS ARE IN **METRES**, UNLESS NOTED OTHERWISE.

WIND FARM SWEEPED PATH ANALYSIS (SPA) LEGEND

- EXTENT OF BODY OUTLINE
- EXTENT OF WHEELBASE FOOTPRINT
- EXTENT OF LOAD OUTLINE
- AREA REQUIRED FOR LOAD OVERSAIL
- AREA WIDENED & SURFACED WITH CLAUSE 804
- PROPOSED SITE ENTRANCE
- VEGETATION
- FENCE
- DITCH
- WALL

REFERENCE DRAWINGS:

DRAWING No.	DRAWING TITLE
23318-MWP-HR-01-DR-C-1101	HAUL ROUTE WIDENING WORKS MASTER SHEET - FROM TIPPERARY ROUNDABOUT TO SITE

P01	26/07/23	ISSUED FOR INFORMATION	OR	BS
REV	DATE	DESCRIPTION	BY	APP

PROJECT:

BRITTAS WIND FARM

TITLE:

HAUL ROUTE WIDENING WORKS -
SITE ENTRANCE T9

CLIENT:

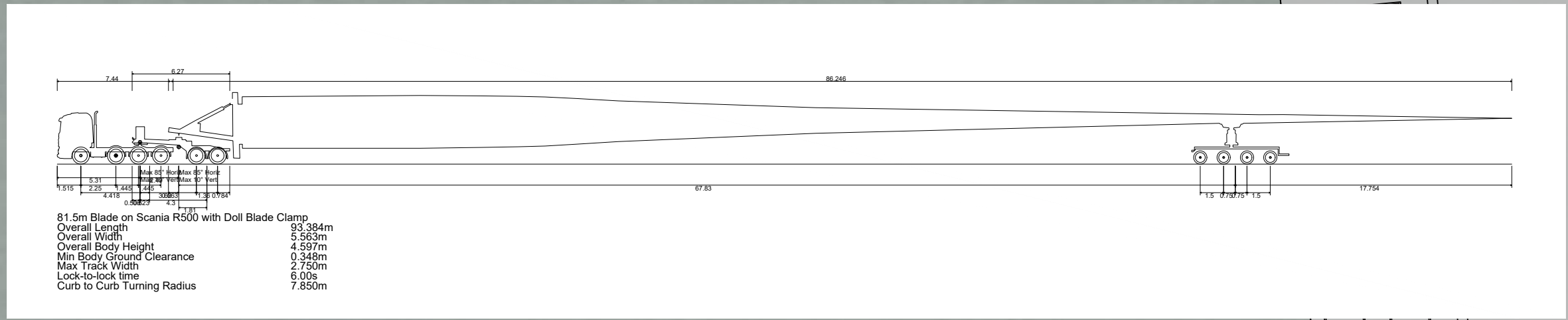
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DRAWN:	O.R.	CHECKED:	P.C.	APPROVED:	B.S.
PROJECT NUMBER:	23318	DATE:	26/07/23	SCALE @ A1:	1:500
STATUS DESCRIPTION	FOR INFORMATION				STATUS: S2

DRAWING NUMBER:	23318 - MWP -HR- 01 -DR-C- 0103	REV:	P01
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 6. ALL DIMENSIONS ARE IN **METRES**, UNLESS NOTED OTHERWISE.

- WIND FARM SWEEPED PATH ANALYSIS (SPA) LEGEND
- EXTENT OF BODY OUTLINE
 - EXTENT OF WHEELBASE FOOTPRINT
 - EXTENT OF LOAD OUTLINE
 - AREA REQUIRED FOR LOAD OVERSAIL
 - AREA WIDENED & SURFACED WITH CLAUSE 804
 - PROPOSED SITE ENTRANCE
 - VEGETATION
 - FENCE
 - DITCH
 - WALL

REFERENCE DRAWINGS:	
DRAWING No.	DRAWING TITLE
23318-MWP-HR-01-DR-C-1101	HAUL ROUTE WIDENING WORKS MASTER SHEET - FROM TIPPERARY ROUNDABOUT TO SITE

P01	26/07/23	ISSUED FOR INFORMATION	OR	BS
REV	DATE	DESCRIPTION	BY	APP

PROJECT: BRITTAS WIND FARM

TITLE: HAUL ROUTE WIDENING WORKS -
SITE ENTRANCE T8

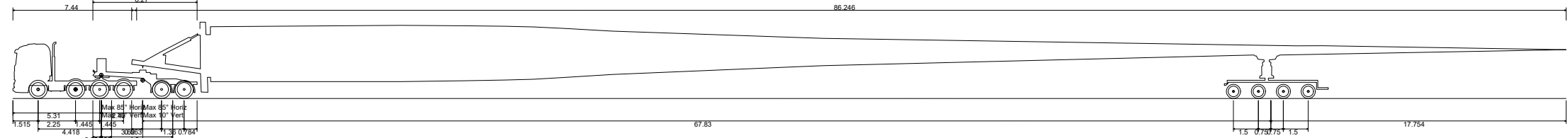
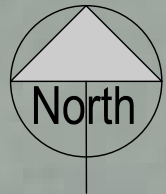
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Orsted

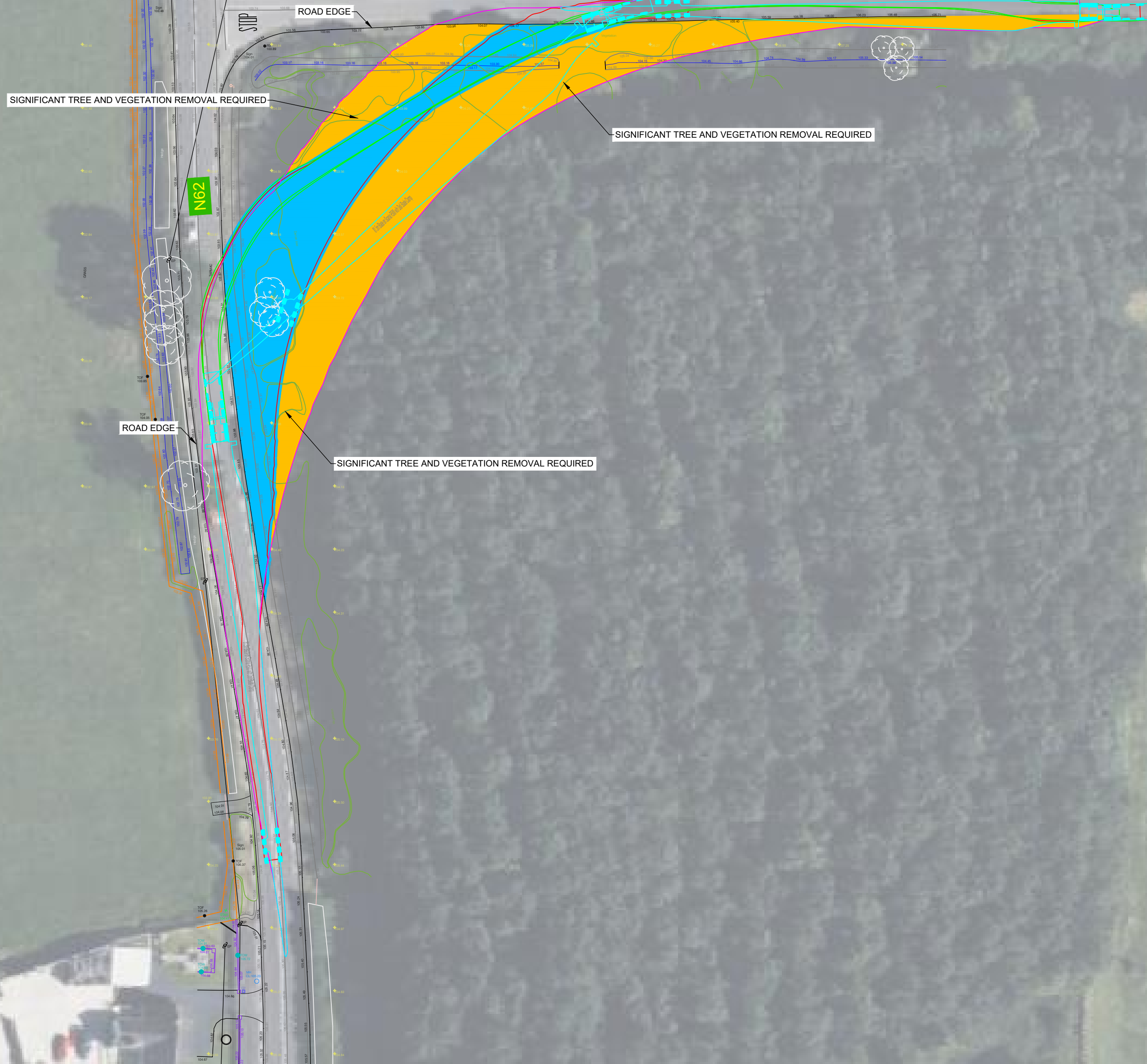
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PROJECT NUMBER: 23318	DATE: 26/07/23	SCALE @ A1: 1:500
STATUS DESCRIPTION: FOR INFORMATION		STATUS: S2

DRAWING NUMBER: 23318 - MWP -HR- 01 -DR-C- 0104	REV: P01
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81.5m Blade on Scania R500 with Doll Blade Clamp
Overall Length 16.20m
Overall Width 2.563m
Overall Body Height 4.597m
Min Body Ground Clearance 0.340m
Max Track Width 2.750m
Lock-to-lock time 6.00s
Curb to Curb Turning Radius 7.850m



DO NOT SCALE FROM THIS DRAWING.
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WIND FARM SWEPT PATH ANALYSIS (SPA) LEGEND

- EXTENT OF BODY OUTLINE
- EXTENT OF WHEELBASE FOOTPRINT
- EXTENT OF LOAD OUTLINE
- AREA REQUIRED FOR LOAD OVERSAIL
- AREA WIDENED & SURFACED WITH CLAUSE 804
- PROPOSED SITE ENTRANCE
- VEGETATION
- FENCE
- DITCH
- WALL

REFERENCE DRAWINGS:

DRAWING No.	DRAWING TITLE
23318-MWP-HR-01-DR-C-1101	HAUL ROUTE WIDENING WORKS MASTER SHEET - FROM TIPPERARY ROUNDABOUT TO SITE

P01	26/07/23	ISSUED FOR INFORMATION	OR	BS
REV	DATE	DESCRIPTION	BY	APP

PROJECT:

BRITTAS WIND FARM

TITLE:

HAUL ROUTE WIDENING WORKS -
N62-ROSSESTOWN ROAD JUNCTION

CLIENT:

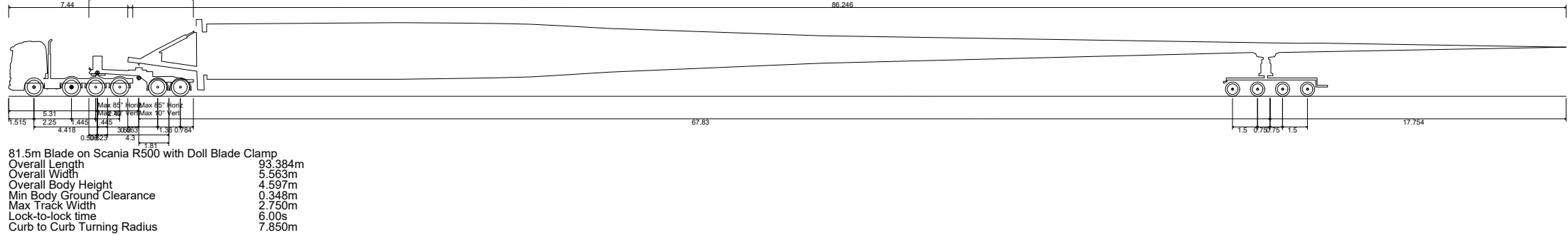
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DRAWN:	CHECKED:	APPROVED:
O.R.	P.C.	B.S.
PROJECT NUMBER:	DATE:	SCALE @ A1:
23318	26/07/23	1:500
STATUS DESCRIPTION	STATUS:	
FOR INFORMATION	S2	

DRAWING NUMBER:	REV:
23318 - MWP -HR- 01 -DR-C- 0105	P01



ELECTRICITY POLE

0.25

0.2m FROM BODY OF TRUCK TO WALL

OVER-RUN ON THE FOOTPATH REQUIRED

0.2

WALL

TRAFFIC SIGN TO BE REMOVED

ROAD EDGE

WALL

0.38

TRAFFIC SIGN TO BE REMOVED

0.25

ELECTRICITY POLE

0.2

WALL

0.2

TREE TO BE TRIMMED

N62

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- WIND FARM SWEEP PATH ANALYSIS (SPA) LEGEND
- EXTENT OF BODY OUTLINE
 - EXTENT OF WHEELBASE FOOTPRINT
 - EXTENT OF LOAD OUTLINE
 - AREA REQUIRED FOR LOAD OVERSAIL
 - AREA WIDENED & SURFACED WITH CLAUSE 804
 - PROPOSED SITE ENTRANCE
 - VEGETATION
 - FENCE
 - DITCH
 - WALL

REFERENCE DRAWINGS:	
DRAWING No.	DRAWING TITLE
23318-MWP-HR-01-DR-C-1101	HAUL ROUTE WIDENING WORKS MASTER SHEET - FROM TIPPERARY ROUNDABOUT TO SITE

P01	26/07/23	ISSUED FOR INFORMATION		OR	BS
REV	DATE	DESCRIPTION		BY	APP

PROJECT:

BRITTAS WIND FARM

TITLE:

HAUL ROUTE WIDENING WORKS -
N62 - BRITTAS RD JUNCTION

CLIENT:

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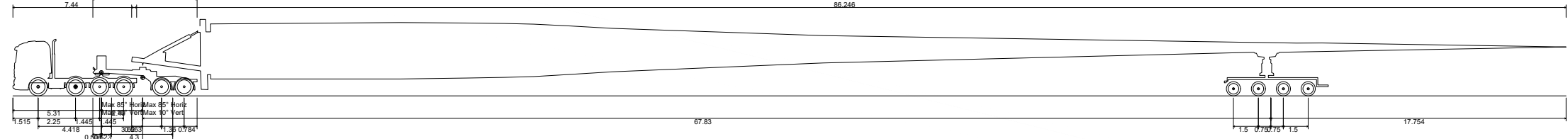
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PROJECT NUMBER:	23318	DATE:	26/07/23	SCALE @ A1:	1:500
STATUS DESCRIPTION					STATUS:
FOR INFORMATION					S2

DRAWING NUMBER:	23318 - MWP -HR- 01 -DR-C- 0106	REV:	P01
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N62



81.5m Blade on Scania R500 with Doll Blade Clamp
Overall Length 12.00m
Overall Width 2.50m
Overall Body Height 4.00m
Min Body Ground Clearance 0.340m
Max Track Width 2.750m
Lock-to-lock time 6.00s
Curb to curb Turning Radius 7.850m

ROAD EDGE

ROAD EDGE

ELECTRICITY POLE

N62

N62

DO NOT SCALE FROM THIS DRAWING.
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WIND FARM SWEEPED PATH ANALYSIS (SPA) LEGEND

- EXTENT OF BODY OUTLINE
- EXTENT OF WHEELBASE FOOTPRINT
- EXTENT OF LOAD OUTLINE
- AREA REQUIRED FOR LOAD OVSAIL
- AREA WIDENED & SURFACED WITH CLAUSE 804
- PROPOSED SITE ENTRANCE
- VEGETATION
- FENCE
- DITCH
- WALL

REFERENCE DRAWINGS:

DRAWING No.	DRAWING TITLE
23318-MWP-HR-01-DR-C-1101	HAUL ROUTE WIDENING WORKS MASTER SHEET - FROM TIPPERARY ROUNDABOUT TO SITE

P01	26/07/23	ISSUED FOR INFORMATION	OR	BS
REV	DATE	DESCRIPTION	BY	APP

PROJECT:
BRITTAS WIND FARM

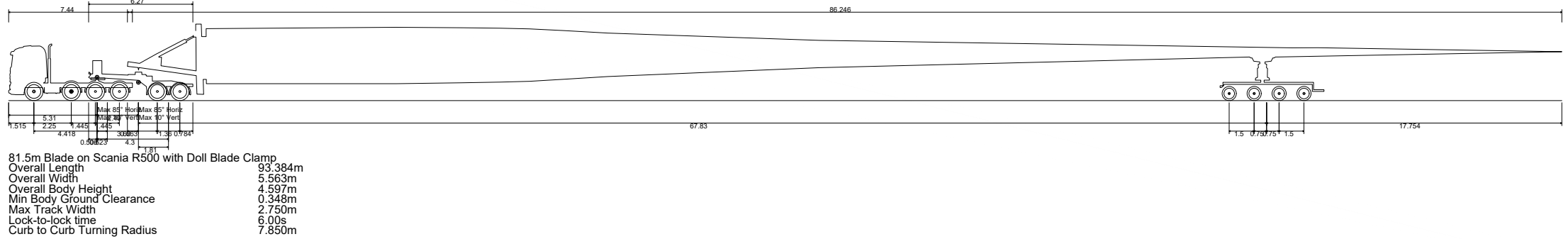
TITLE:
HAUL ROUTE WIDENING WORKS -
N62 RIGHT HAND BEND

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PROJECT NUMBER: 23318	DATE: 26/07/23	SCALE @ A1: 1:500
STATUS DESCRIPTION FOR INFORMATION		STATUS: S2

DRAWING NUMBER: 23318 - MWP -HR- 01 -DR-C- 0107	REV: P01
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 6. ALL DIMENSIONS ARE IN **METRES**, UNLESS NOTED OTHERWISE.
 7. THE REAR STEERING ANGLE OF THE TRAILER MAY EXCEED 30° IN SOME LOCATIONS. WHERE THIS OCCURS, THE TRAILER MAY NEED TO BE PUSHED AT THE REAR TO FOLLOW THE PATH SHOWN.

WIND FARM SWEEP PATH ANALYSIS (SPA) LEGEND	
	EXTENT OF BODY OUTLINE
	EXTENT OF WHEELBASE FOOTPRINT
	EXTENT OF LOAD OUTLINE
	AREA REQUIRED FOR LOAD OVERSAIL
	AREA WIDENED & SURFACED WITH CLAUSE 804
	PROPOSED SITE ENTRANCE
	VEGETATION
	FENCE
	DITCH
	WALL

REFERENCE DRAWINGS:	
DRAWING No.	DRAWING TITLE
23318-MWP-HR-01-DR-C-1101	HAUL ROUTE WIDENING WORKS MASTER SHEET - FROM TIPPERARY ROUNDABOUT TO SITE

P03	10/07/24	ISSUED FOR INFORMATION	JK	CMCL
P02	16/07/24	ISSUED FOR INFORMATION	JK	CMCL
P01	26/07/23	ISSUED FOR INFORMATION	JK	BS
REV	DATE	DESCRIPTION	BY	APP

PROJECT:
BRITTAS WIND FARM

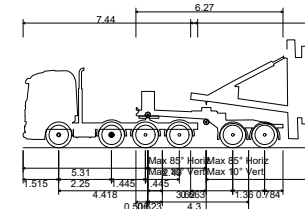
TITLE:
HAUL ROUTE WIDENING WORKS -
N62-CLUAIN GLAS T JUNCTION

CLIENT:
BRITTAS WIND FARM LTD.

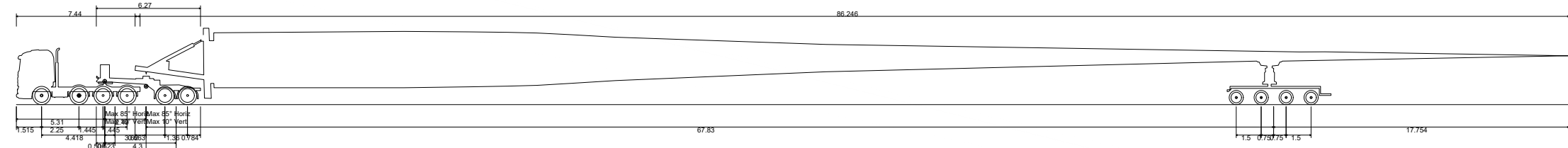


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O.R.	P.C.	B.S.
PROJECT NUMBER:	DATE:	SCALE @ A1:
23318	26/07/23	1:500
STATUS DESCRIPTION:	STATUS:	
FOR INFORMATION	S2	

DRAWING NUMBER:	REV:
23318 - MWP -HR- 01 -DR-C- 0108	P03



81.5m Blade on Scania R500 with Doll Blade Clamp	
Overall Length	93.384m
Overall Width	5.563m
Overall Body Height	4.597m
Min Body Ground Clearance	0.348m
Max Track Width	2.750m
Lock-to-lock time	6.00s
Curb to Curb Turning Radius	7.850m

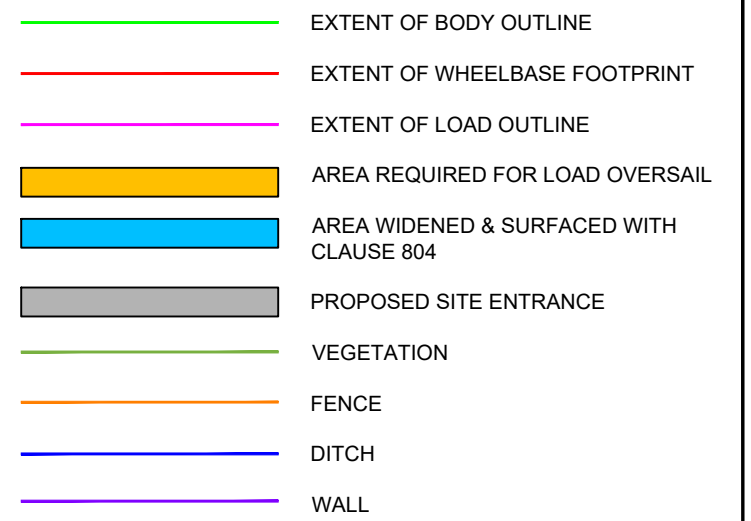


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WIND FARM SWEEPED PATH ANALYSIS (SPA) LEGEND



REFERENCE DRAWINGS:

DRAWING No.	DRAWING TITLE
23318-MWP-HR-01-DR-C-1101	HAUL ROUTE WIDENING WORKS MASTER SHEET - FROM TIPPERARY ROUNDABOUT TO SITE

P01	26/07/23	ISSUED FOR INFORMATION	OR	BS
REV	DATE	DESCRIPTION	BY	APP

BRITTAS WIND FARM

TITLE: HAUL ROUTE WIDENING WORKS -
TIPPERARY INSTITUTE ROUNDABOUT

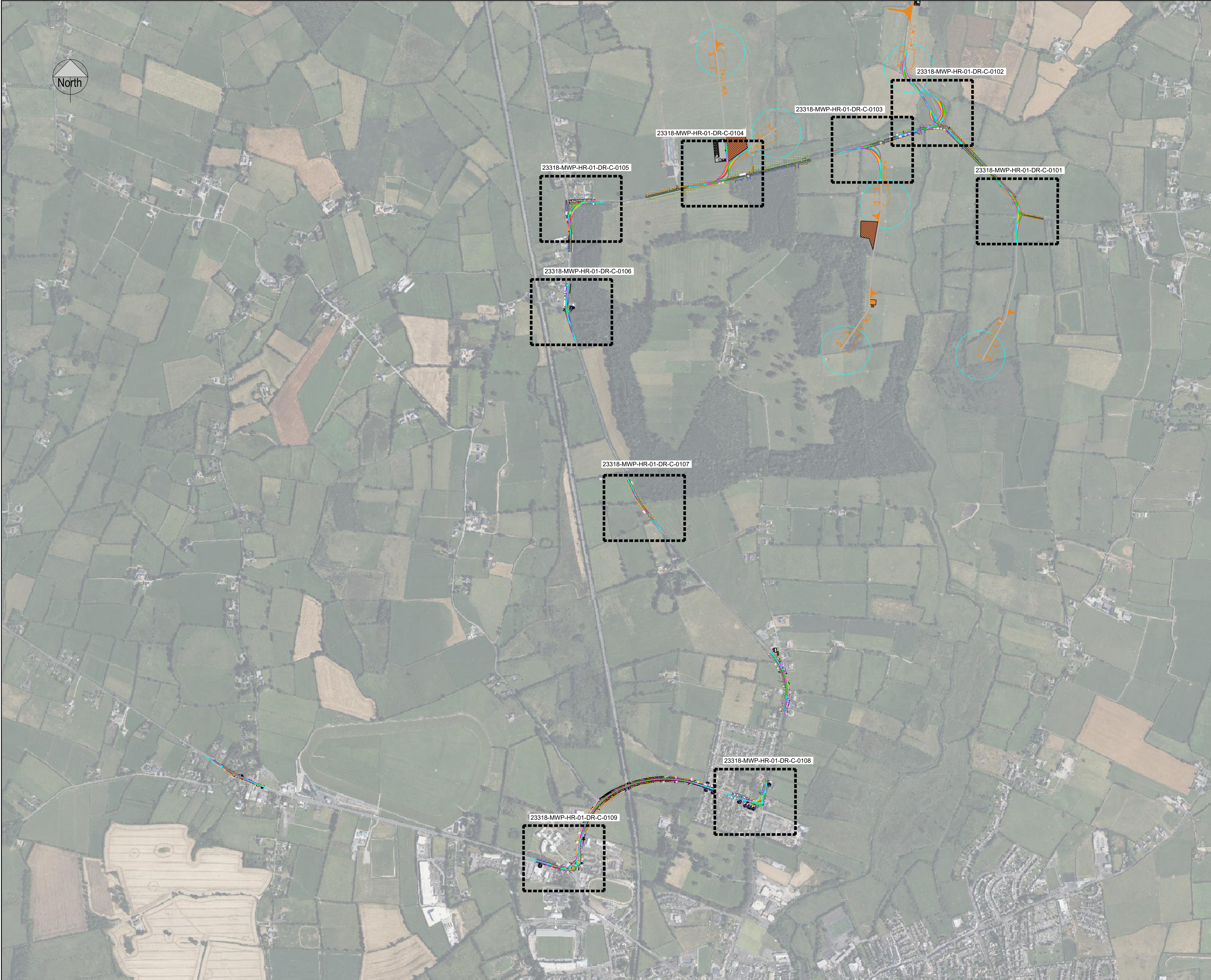
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PROJECT NUMBER: 23318	DATE: 26/07/23	SCALE @ A1: 1:500
STATUS DESCRIPTION FOR INFORMATION		STATUS: S2

DRAWING NUMBER:	REV:
23318 - MWP -HR-01-DR-C-0109	P01



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WIND FARM SWEEP PATH ANALYSIS (SPA) LEGEND	
<div></div>	EXTENT OF BODY OUTLINE
<div></div>	EXTENT OF WHEELBASE FOOTPRINT
<div></div>	EXTENT OF LOAD OUTLINE
<div></div>	AREA REQUIRED FOR LOAD OVERSAIL
<div></div>	AREA WIDENED & SURFACED WITH CLAUSE 804
<div></div>	PROPOSED SITE ENTRANCE

REFERENCE DRAWINGS:	
DRAWING No.	DRAWING TITLE

P01	26/07/23	ISSUED FOR INFORMATION		OR	BS
REV	DATE	DESCRIPTION		BY	APP

PROJECT: BRITTAS WIND FARM

TITLE: HAUL ROUTE WIDENING WORKS - MASTER SHEET - FROM TIPPERARY ROUNDABOUT TO SITE

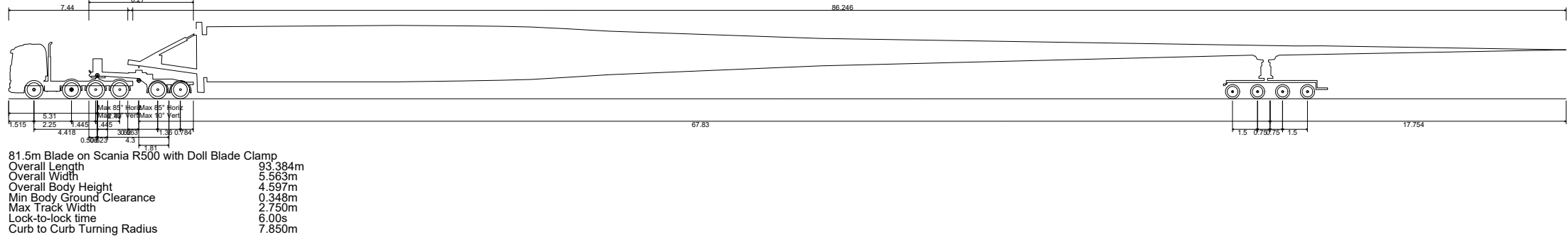
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PROJECT NUMBER: 23318	DATE: 26/07/23	SCALE @ A1: 1:7500
STATUS DESCRIPTION: FOR INFORMATION		STATUS: S2

DRAWING NUMBER: 23318 - MWP -HR- 01 -DR-C- 1101	REV: P01
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TRAFFIC SIGN TO BE REMOVED

VEGETATION TO BE TRIMMED

ROAD EDGE

TRAFFIC SIGN TO BE REMOVED

TREE TO BE TRIMMED

HEDGE TO BE TRIMMED

VEGETATION TO BE TRIMMED

TREE TO BE TRIMMED

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WIND FARM SWEEPED PATH ANALYSIS (SPA) LEGEND

- EXTENT OF BODY OUTLINE
- EXTENT OF WHEELBASE FOOTPRINT
- EXTENT OF LOAD OUTLINE
- AREA REQUIRED FOR LOAD OVERSAIL
- AREA WIDENED & SURFACED WITH CLAUSE 804
- VEGETATION
- FENCE
- DITCH
- WALL

REFERENCE DRAWINGS:

DRAWING No.	DRAWING TITLE
23318-MWP-HR-02-DR-C-1102	HAUL ROUTE WIDENING WORKS MASTER SHEET - FROM BORRISOLEIGH TO TIPPERARY ROUNDABOUT

P01	08/08/23	ISSUED FOR INFORMATION	OR	BS
REV	DATE	DESCRIPTION	BY	APP

PROJECT:
BRITTAS WIND FARM

TITLE:
HAUL ROUTE WIDENING WORKS -
R498/L4124 JUNCTION

CLIENT:
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PROJECT NUMBER: 23318	DATE: 08/08/23	SCALE @ A1: 1:500
STATUS DESCRIPTION FOR INFORMATION		STATUS: S2

DRAWING NUMBER: 23318 - MWP -HR- 02-DR-C-0110	REV: P01
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 2. ALL LEVELS ARE IN METRES RELATED TO ORDNANCE DATUM MALIN HEAD OSGM15.
 3. ALL CO-ORDINATES ARE TO IRISH TRANSVERSE MERCATOR (ITM) AND IN METERS.
 4. ANY DISCREPANCIES BETWEEN THESE DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
 5. DRAWINGS ARE NOT TO BE SCALED.
 6. ALL DIMENSIONS ARE IN METRES, UNLESS NOTED OTHERWISE.

- WIND FARM SWEEP PATH ANALYSIS (SPA) LEGEND
- EXTENT OF BODY OUTLINE
 - EXTENT OF WHEELBASE FOOTPRINT
 - EXTENT OF LOAD OUTLINE
 - AREA REQUIRED FOR LOAD OVERSAIL
 - AREA WIDENED & SURFACED WITH CLAUSE 804
 - VEGETATION
 - FENCE
 - DITCH
 - WALL

REFERENCE DRAWINGS:	
DRAWING No.	DRAWING TITLE
23318-MWP-HR-02-DR-C-1102	HAUL ROUTE WIDENING WORKS MASTER SHEET - FROM BORRISOLEIGH TO TIPPERARY ROUNDABOUT

PO3	10/07/24	ISSUED FOR INFORMATION	OR	CMCL
PO2	15/07/24	ISSUED FOR INFORMATION	JK	CMCL
PO1	08/08/23	ISSUED FOR INFORMATION	OR	BS
REV	DATE	DESCRIPTION	BY	APP

PROJECT:
BRITTAS WIND FARM

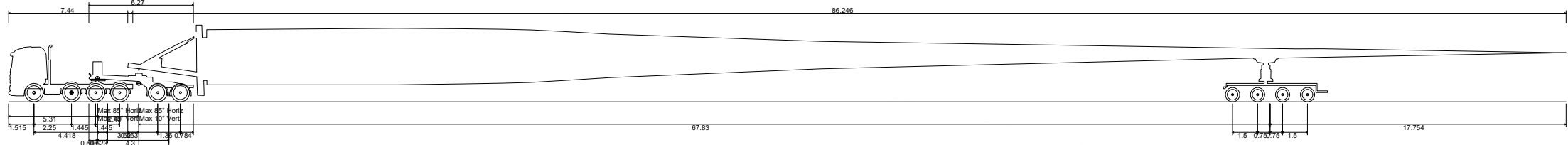
TITLE:
HAUL ROUTE WIDENING WORKS -
BORRISOLEIGH TOWN

CLIENT:
BRITTAS WIND FARM LTD.



DRAWN: O.R.	CHECKED: P.C.	APPROVED: B.S.
PROJECT NUMBER: 23318	DATE: 08/08/23	SCALE @ A1: 1:500
STATUS DESCRIPTION: FOR INFORMATION		STATUS: S2

DRAWING NUMBER: 23318 - MWP -HR- 02- DR- C- 0111	REV: P03
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81.5m Blade on Scania R500 with Doll Blade Clamp	81.5m
Overall Length	81.5m
Overall Width	2.563m
Overall Body Height	4.597m
Min Body Ground Clearance	0.348m
Max Track Width	2.725m
Look-to-look time	0.00s
Curb to curb Turning Radius	7.850m

DO NOT SCALE FROM THIS DRAWING.
USE FIGURED DIMENSIONS IN ALL CASES.
VERIFY DIMENSIONS ON SITE AND REPORT ANY DISCREPANCIES TO THE DESIGNERS IMMEDIATELY.
THIS DRAWING TO BE READ IN CONJUNCTION WITH THE DESIGNERS SPECIFICATION.
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WIND FARM SWEPT PATH ANALYSIS (SPA) LEGEND

- EXTENT OF BODY OUTLINE
- EXTENT OF WHEELBASE FOOTPRINT
- EXTENT OF LOAD OUTLINE
- AREA REQUIRED FOR LOAD OVERSAIL
- AREA WIDENED & SURFACED WITH CLAUSE 804
- VEGETATION
- FENCE
- DITCH
- WALL

REFERENCE DRAWINGS:

DRAWING No.	DRAWING TITLE
23318-MWP-HR-02-DR-C-1102	HAUL ROUTE WIDENING WORKS MASTER SHEET - FROM BORRISOLEIGH TO TIPPERARY ROUNDABOUT

REV	DATE	DESCRIPTION	BY	APP
P01	08/08/23	ISSUED FOR INFORMATION	OR	BS

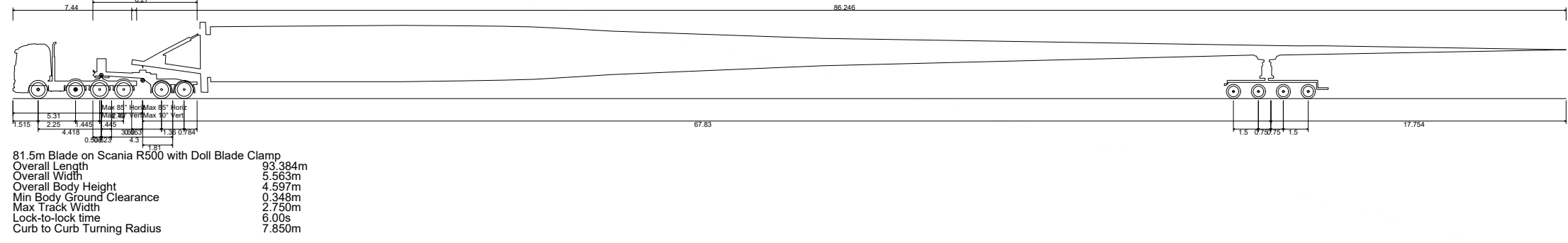
PROJECT: BRITTAS WIND FARM

TITLE: HAUL ROUTE WIDENING WORKS - LEFT HAND BEND



DRAWN: O.R.	CHECKED: P.C.	APPROVED: B.S.
PROJECT NUMBER: 23318	DATE: 08/08/23	SCALE @ A1: 1:500
STATUS DESCRIPTION: FOR INFORMATION		STATUS: S2

DRAWING NUMBER: 23318 - MWP -HR- 02- DR-C- 0112	REV: P01
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DO NOT SCALE FROM THIS DRAWING.
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VERIFY DIMENSIONS ON SITE AND REPORT ANY DISCREPANCIES TO THE DESIGNERS IMMEDIATELY.
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WIND FARM SWEEP PATH ANALYSIS (SPA) LEGEND

- EXTENT OF BODY OUTLINE
- EXTENT OF WHEELBASE FOOTPRINT
- EXTENT OF LOAD OUTLINE
- AREA REQUIRED FOR LOAD OVERSAIL
- AREA WIDENED & SURFACED WITH CLAUSE 804
- VEGETATION
- FENCE
- DITCH
- WALL

REFERENCE DRAWINGS:

DRAWING No.	DRAWING TITLE
23318-MWP-HR-02-DR-C-1102	HAUL ROUTE WIDENING WORKS MASTER SHEET - FROM BORRISOLEIGH TO TIPPERARY ROUNDABOUT

REV	DATE	DESCRIPTION	OR	BS
P01	08/08/23	ISSUED FOR INFORMATION	OR	BS

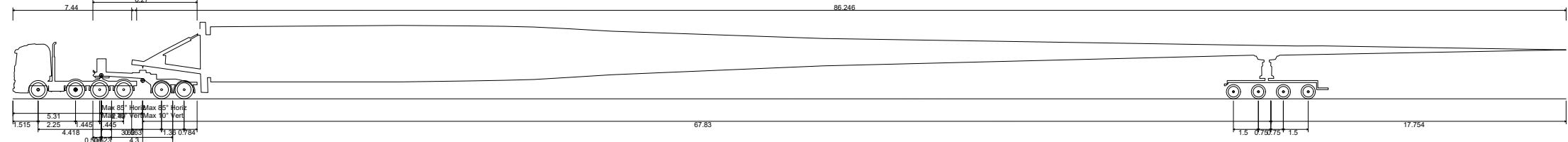
PROJECT: BRITTAS WIND FARM

TITLE: HAUL ROUTE WIDENING WORKS - RIGHT HAND BEND



DRAWN: O.R.	CHECKED: P.C.	APPROVED: B.S.
PROJECT NUMBER: 23318	DATE: 08/08/23	SCALE @ A1: 1:500
STATUS DESCRIPTION: FOR INFORMATION		STATUS: S2

DRAWING NUMBER: 23318 - MWP -HR- 02-DR-C- 0113	REV: P01
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81.5m Blade on Scania R500 with Doll Blade Clamp
Overall Length 81.500m
Overall Width 6.563m
Overall Body Height 11.500m
Nacelle Height 4.597m
Min Body Ground Clearance 0.340m
Max Track Width 27.000m
Lock-to-Lock Time 6.000s
Curb to Curb Turning Radius 7.850m

DO NOT SCALE FROM THIS DRAWING.
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6. ALL DIMENSIONS ARE IN METRES, UNLESS NOTED OTHERWISE.

WIND FARM SWEEP PATH ANALYSIS (SPA) LEGEND

- EXTENT OF BODY OUTLINE
- EXTENT OF WHEELBASE FOOTPRINT
- EXTENT OF LOAD OUTLINE
- AREA REQUIRED FOR LOAD OVERSAIL
- AREA WIDENED & SURFACED WITH CLAUSE 804
- VEGETATION
- FENCE
- DITCH
- WALL

REFERENCE DRAWINGS:

DRAWING No.	DRAWING TITLE
23318-MWP-HR-02-DR-C-1102	HAUL ROUTE WIDENING WORKS MASTER SHEET - FROM BORRISOLEIGH TO TIPPERARY ROUNDABOUT

REV	DATE	ISSUED FOR INFORMATION	OR	BS
		DESCRIPTION	BY	APP

PROJECT: BRITTAS WIND FARM

TITLE: HAUL ROUTE WIDENING WORKS -
LEFT HAND BEND AFTER
R498/L4141 JUNCTION

CLIENT:



DRAWN: O.R.	CHECKED: P.C.	APPROVED: B.S.
PROJECT NUMBER: 23318	DATE: 08/08/23	SCALE @ A1: 1:500
STATUS DESCRIPTION: FOR INFORMATION		STATUS: S2

DRAWING NUMBER: 23318 - MWP -HR- 02- DR- C- 0114	REV: P01
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WIND FARM SWEEP PATH ANALYSIS (SPA) LEGEND	
<div></div>	EXTENT OF BODY OUTLINE
<div></div>	EXTENT OF WHEELBASE FOOTPRINT
<div></div>	EXTENT OF LOAD OUTLINE
<div></div>	AREA REQUIRED FOR LOAD OVERSAIL
<div></div>	AREA WIDENED & SURFACED WITH CLAUSE 804
<div></div>	PROPOSED SITE ENTRANCE

REFERENCE DRAWINGS:	
DRAWING No.	DRAWING TITLE

P01	08/08/23	ISSUED FOR INFORMATION		OR	BS
REV	DATE	DESCRIPTION		BY	APP

PROJECT: BRITTAS WIND FARM

TITLE: HAUL ROUTE WIDENING WORKS - MASTER SHEET - FROM BORRISOLEIGH TO TIPPERARY ROUNDABOUT

CLIENT: 



ENGINEERING AND ENVIRONMENTAL CONSULTANTS
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DRAWN: O.R.	CHECKED: P.C.	APPROVED: B.S.
PROJECT NUMBER: 23318	DATE: 08/08/23	SCALE @ A1: 1:10000
STATUS DESCRIPTION: FOR INFORMATION		STATUS: S2

DRAWING NUMBER: 23318 - MWP -HR- 02- DR- C- 1102	REV: P01
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WIND FARM SWEEPED PATH ANALYSIS (SPA) LEGEND

- EXTENT OF BODY OUTLINE
- EXTENT OF WHEELBASE FOOTPRINT
- EXTENT OF LOAD OUTLINE
- AREA REQUIRED FOR LOAD OVERSAIL
- AREA WIDENED & SURFACED WITH CLAUSE 804
- VEGETATION
- FENCE
- DITCH
- WALL

REFERENCE DRAWINGS:	
DRAWING No.	DRAWING TITLE
23318-MWP-HR-03-DR-C-1103	HAUL ROUTE WIDENING WORKS MASTER SHEET - FROM M7/R498 ROUNDBOUT TO BORRISOLEIGH

P01	09/08/23	ISSUED FOR INFORMATION	OR	BS
REV	DATE	DESCRIPTION	BY	APP

PROJECT: BRITTAS WIND FARM

TITLE: HAUL ROUTE WIDENING WORKS - R498 "S" BENDS. SHEET 1

CLIENT:

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DRAWN: O.R.	CHECKED: P.C.	APPROVED: B.S.
PROJECT NUMBER: 23318	DATE: 09/08/23	SCALE @ A1: 1:500

STATUS DESCRIPTION: FOR INFORMATION	STATUS: S2
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DRAWING NUMBER: 23318 - MWP -HR- 03-DR-C-0115	REV: P01
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VEGETATION TO BE TRIMMED

SIGNIFICANT VEGETATION AND TREE REMOVAL REQUIRED

BANK MAY NEED TO BE LOWERED

VEGETATION TO BE TRIMMED

ROAD EDGE

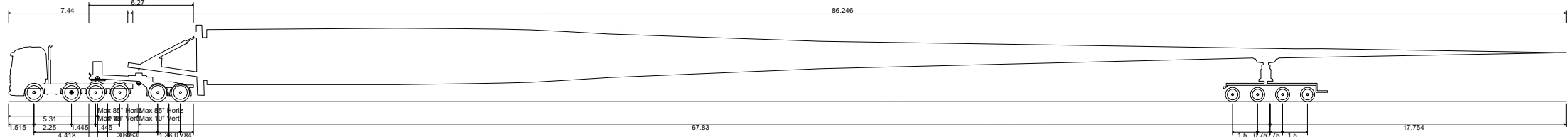
SIGNIFICANT VEGETATION AND TREE REMOVAL REQUIRED

BANK MAY NEED TO BE LOWERED

SIGNIFICANT VEGETATION AND TREE REMOVAL REQUIRED

TRAFFIC SIGN TO BE REMOVED

SIGNIFICANT VEGETATION REMOVAL REQUIRED



81.5m Blade on Scania R500 with Doll Blade Clamp
Overall Length 81.5m
Overall Width 2.563m
Overall Body Height 4.597m
Min Body Ground Clearance 0.348m
Max Track Width 2.75m
Lock-to-lock time 6.00s
Curb to Curb Turning Radius 7.850m

DO NOT SCALE FROM THIS DRAWING.
USE FIGURED DIMENSIONS IN ALL CASES.
VERIFY DIMENSIONS ON SITE AND REPORT ANY DISCREPANCIES TO THE DESIGNERS IMMEDIATELY.
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6. ALL DIMENSIONS ARE IN **METRES**, UNLESS NOTED OTHERWISE.

WIND FARM SWEEP PATH ANALYSIS (SPA) LEGEND

- EXTENT OF BODY OUTLINE
- EXTENT OF WHEELBASE FOOTPRINT
- EXTENT OF LOAD OUTLINE
- AREA REQUIRED FOR LOAD OVERSAIL
- AREA WIDENED & SURFACED WITH CLAUSE 804
- VEGETATION
- FENCE
- DITCH
- WALL

REFERENCE DRAWINGS:

DRAWING No.	DRAWING TITLE
23318-MWP-HR-03-DR-C-1103	HAUL ROUTE WIDENING WORKS MASTER SHEET - FROM M7/R498 ROUNDBOUT TO BORRISOLEIGH

P01	09/08/23	ISSUED FOR INFORMATION	OR	BS
REV	DATE	DESCRIPTION	BY	APP

PROJECT: BRITTAS WIND FARM

TITLE: HAUL ROUTE WIDENING WORKS - R498 "S" BENDS. SHEET 2

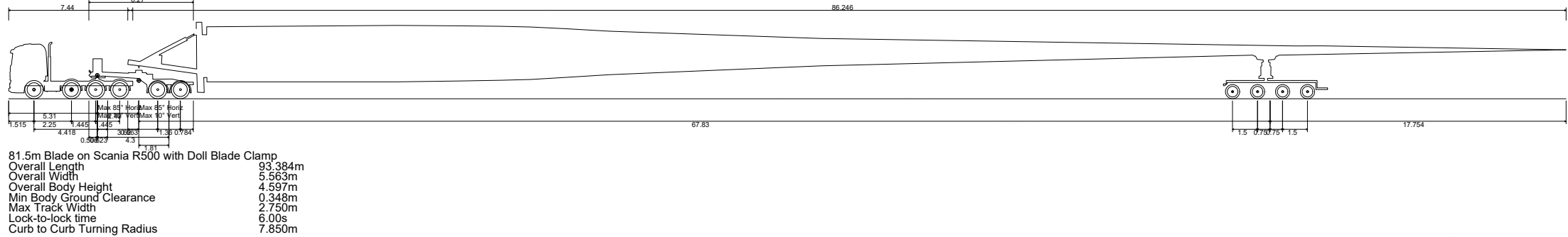


DRAWN: O.R.	CHECKED: P.C.	APPROVED: B.S.
PROJECT NUMBER: 23318	DATE: 09/08/23	SCALE @ A1: 1:500
STATUS DESCRIPTION: FOR INFORMATION	STATUS: S2	

DRAWING NUMBER: 23318 - MWP -HR- 03-DR-C-0116	REV: P01
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VEGETATION TO BE TRIMMED



SIGNIFICANT VEGETATION AND TREE REMOVAL REQUIRED

VEGETATION TO BE TRIMMED

VEGETATION TO BE TRIMMED

SIGNIFICANT VEGETATION AND TREE REMOVAL REQUIRED

DO NOT SCALE FROM THIS DRAWING.
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WIND FARM SWEPT PATH ANALYSIS (SPA) LEGEND

- EXTENT OF BODY OUTLINE
- EXTENT OF WHEELBASE FOOTPRINT
- EXTENT OF LOAD OUTLINE
- AREA REQUIRED FOR LOAD OVERSAIL
- AREA WIDENED & SURFACED WITH CLAUSE 804
- VEGETATION
- FENCE
- DITCH
- WALL

REFERENCE DRAWINGS:	
DRAWING No.	DRAWING TITLE
23318-MWP-HR-03-DR-C-1103	HAUL ROUTE WIDENING WORKS MASTER SHEET - FROM M7/R498 ROUNDBOUT TO BORRISOLEIGH

P01 09/08/23		ISSUED FOR INFORMATION		OR	BS
REV	DATE	DESCRIPTION		BY	APP

PROJECT: BRITTAS WIND FARM

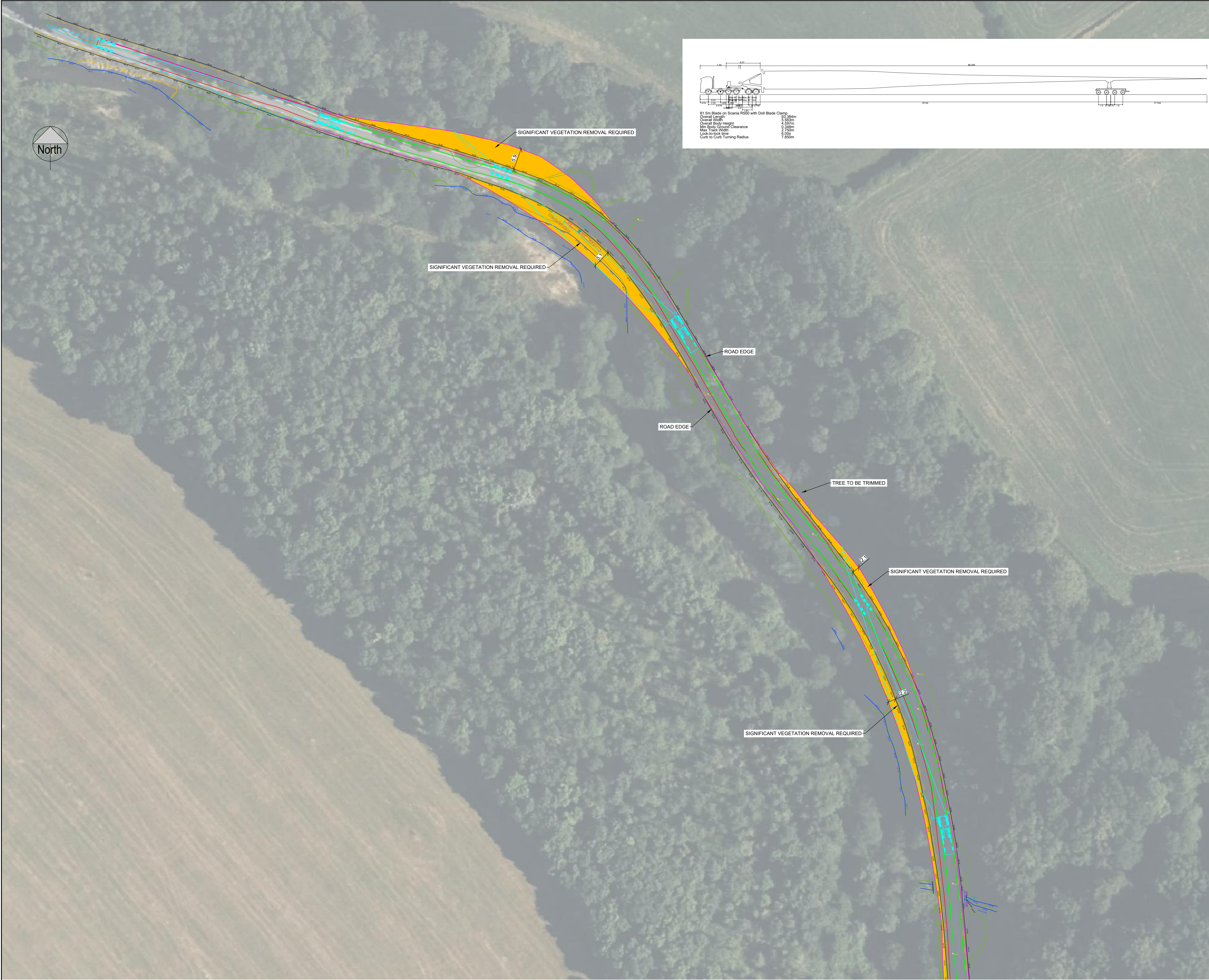
TITLE: HAUL ROUTE WIDENING WORKS - R498 "S" BENDS. SHEET 3

CLIENT:

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DRAWN: O.R.	CHECKED: P.C.	APPROVED: B.S.
PROJECT NUMBER: 23318	DATE: 09/08/23	SCALE @ A1: 1:500
STATUS DESCRIPTION: FOR INFORMATION		STATUS: S2

DRAWING NUMBER: 23318 - MWP -HR- 03-DR-C-0117	REV: P01
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 6. ALL DIMENSIONS ARE IN **METRES**, UNLESS NOTED OTHERWISE.

WIND FARM SWEPT PATH ANALYSIS (SPA) LEGEND	
—	EXTENT OF BODY OUTLINE
—	EXTENT OF WHEELBASE FOOTPRINT
—	EXTENT OF LOAD OUTLINE
	AREA REQUIRED FOR LOAD OVERSAIL
	AREA WIDENED & SURFACED WITH CLAUSE 804
—	VEGETATION
—	FENCE
—	DITCH
—	WALL

REFERENCE DRAWINGS:	
DRAWING No.	DRAWING TITLE
23318-MWP-HR-03-DR-C-1103	HAUL ROUTE WIDENING WORKS MASTER SHEET - FROM M7/R498 ROUNDBOUT TO BORRISOLEIGH

P01	09/08/23	ISSUED FOR INFORMATION	OR	BS
REV	DATE	DESCRIPTION	BY	APP

PROJECT:
BRITTAS WIND FARM

TITLE:
**HAUL ROUTE WIDENING WORKS -
R498 "S" BENDS. SHEET 4**

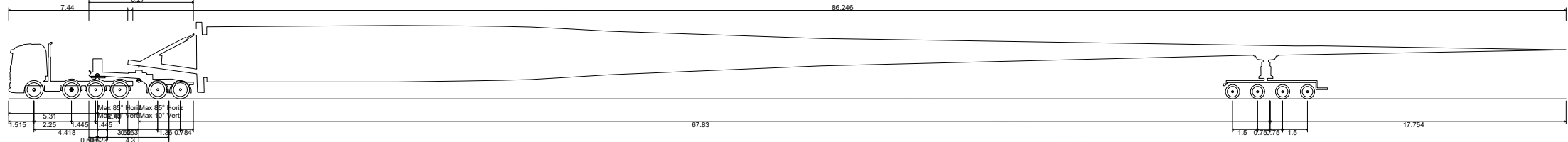
CLIENT:



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DRAWN: O.R.	CHECKED: P.C.	APPROVED: B.S.
PROJECT NUMBER: 23318	DATE: 09/08/23	SCALE @ A1: 1:500
STATUS DESCRIPTION FOR INFORMATION		STATUS: S2

DRAWING NUMBER: 23318 - MWP -HR- 03-DR-C-0118	REV: P01
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81.5m Blade on Scania R500 with Doll Blade Clamp
Overall Length 12.00m
Overall Width 2.50m
Overall Body Height 4.50m
Min Body Ground Clearance 0.340m
Max Track Width 2.750m
Lock-to-lock time 6.00s
Curb to Curb Turning Radius 7.250m

TRAFFIC SIGN TO BE REMOVED

TREE TO BE REMOVED

SIGNIFICANT TREE/VEGETATION TO BE TRIMMED

VEGETATION TO BE TRIMMED

DO NOT SCALE FROM THIS DRAWING.
USE FIGURED DIMENSIONS IN ALL CASES.
VERIFY DIMENSIONS ON SITE AND REPORT ANY DISCREPANCIES TO THE DESIGNERS IMMEDIATELY.
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WIND FARM SWEEP PATH ANALYSIS (SPA) LEGEND

- EXTENT OF BODY OUTLINE
- EXTENT OF WHEELBASE FOOTPRINT
- EXTENT OF LOAD OUTLINE
- AREA REQUIRED FOR LOAD OVERSAIL
- AREA WIDENED & SURFACED WITH CLAUSE 804
- VEGETATION
- FENCE
- DITCH
- WALL

REFERENCE DRAWINGS:

DRAWING No.	DRAWING TITLE
23318-MWP-HR-03-DR-C-1103	HAUL ROUTE WIDENING WORKS MASTER SHEET - FROM M7/R498 ROUNDBOUT TO BORRISOLEIGH

P01	09/08/23	ISSUED FOR INFORMATION	OR	BS
REV	DATE	DESCRIPTION	BY	APP

PROJECT:

BRITTAS WIND FARM

TITLE:

HAUL ROUTE WIDENING WORKS -
R498 "S" BENDS. SHEET 5

CLIENT:

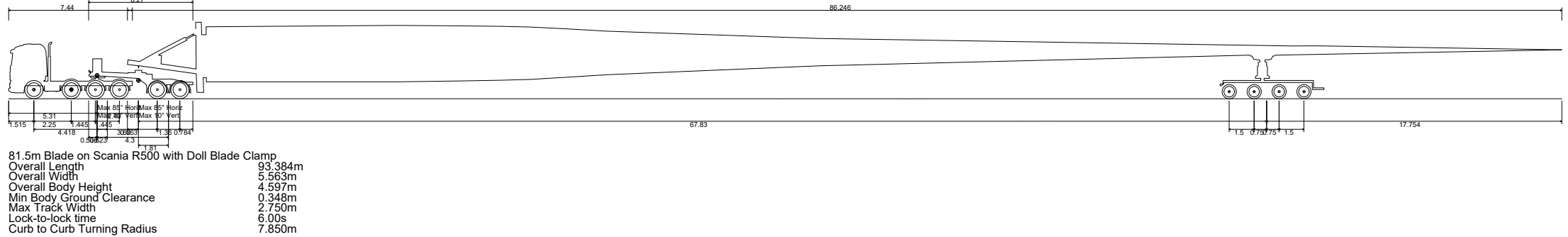
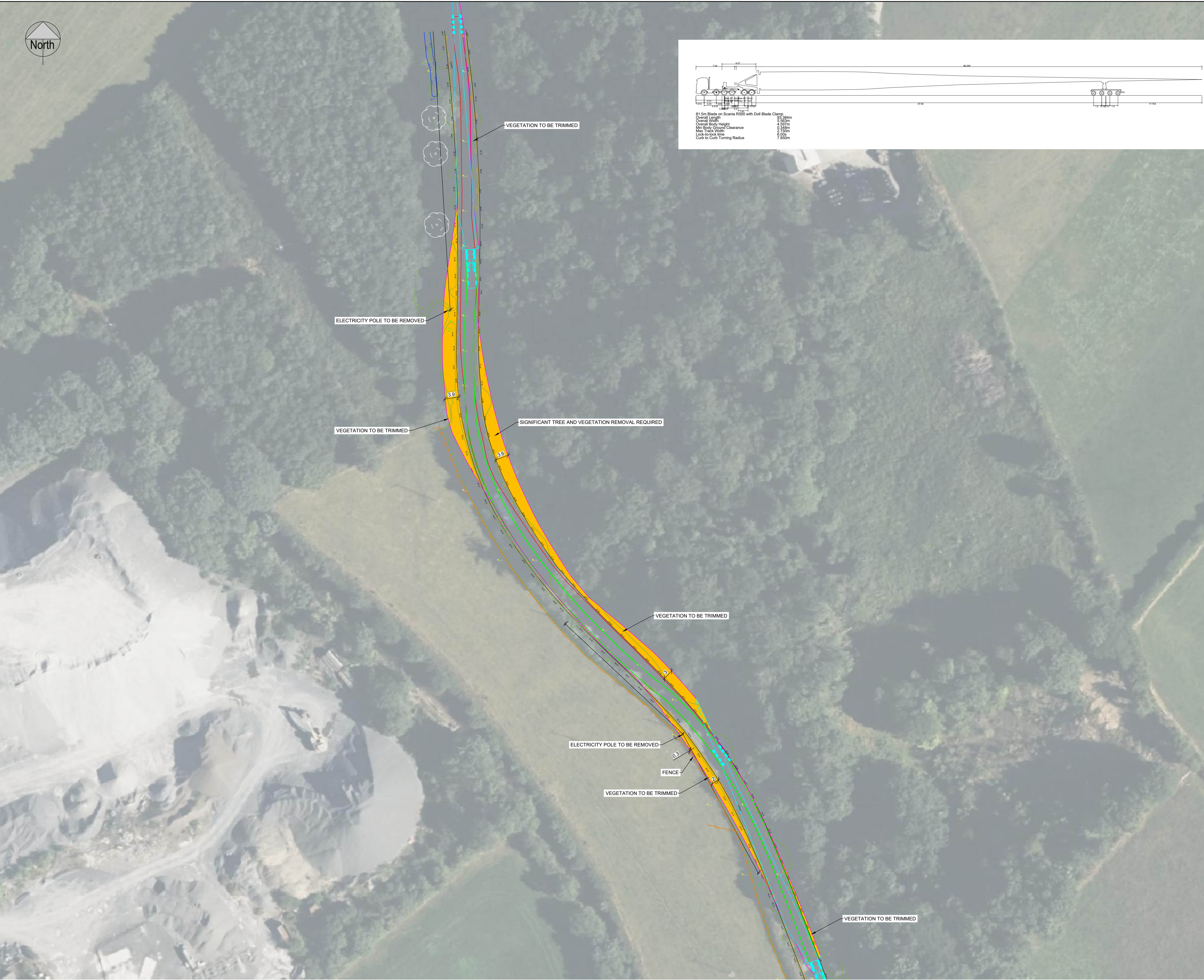
Orsted

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DRAWN:	O.R.	CHECKED:	P.C.	APPROVED:	B.S.
PROJECT NUMBER:	23318	DATE:	09/08/23	SCALE @ A1:	1:500
STATUS DESCRIPTION	FOR INFORMATION				STATUS: S2

DRAWING NUMBER:	23318 - MWP -HR- 03-DR-C-0119	REV:	P01
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 2. ALL LEVELS ARE IN **METRES** RELATED TO ORDNANCE DATUM MALIN HEAD OSGM15.
 3. ALL CO-ORDINATES ARE TO IRISH TRANSVERSE MERCATOR (ITM) AND IN METERS.
 4. ANY DISCREPANCIES BETWEEN THESE DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
 5. DRAWINGS ARE NOT TO BE SCALED.
 6. ALL DIMENSIONS ARE IN **METRES**, UNLESS NOTED OTHERWISE.

WIND FARM SWEPT PATH ANALYSIS (SPA) LEGEND

- EXTENT OF BODY OUTLINE
- EXTENT OF WHEELBASE FOOTPRINT
- EXTENT OF LOAD OUTLINE
- AREA REQUIRED FOR LOAD OVERSAIL
- AREA WIDENED & SURFACED WITH CLAUSE 804
- VEGETATION
- FENCE
- DITCH
- WALL

REFERENCE DRAWINGS:	
DRAWING No.	DRAWING TITLE
23318-MWP-HR-03-DR-C-1103	HAUL ROUTE WIDENING WORKS MASTER SHEET - FROM M7/R498 ROUNDBOUT TO BORRISOLEIGH

P01	09/08/23	ISSUED FOR INFORMATION		OR	BS
REV	DATE	DESCRIPTION		BY	APP

PROJECT: BRITTAS WIND FARM

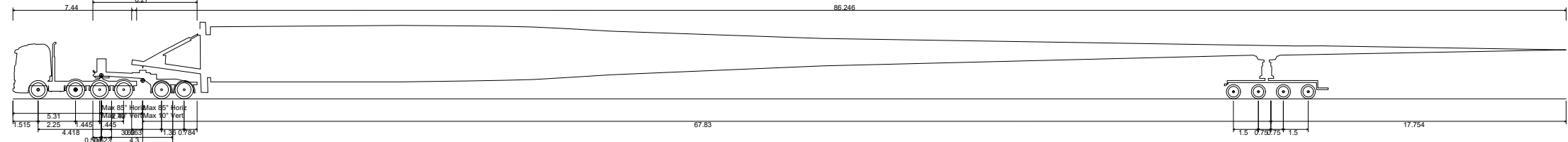
TITLE: HAUL ROUTE WIDENING WORKS - R498 "S" BENDS. SHEET 6

CLIENT:

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PROJECT NUMBER: 23318	DATE: 09/08/23	SCALE @ A1: 1:500
STATUS DESCRIPTION: FOR INFORMATION		STATUS: S2

DRAWING NUMBER: 23318 - MWP -HR- 03-DR-C-0120	REV: P01
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81.5m Blade on Scania R500 with Doll Blade Clamp
Overall Length 12.00m
Overall Width 2.50m
Overall Body Height 4.00m
Min Body Ground Clearance 0.340m
Max Track Width 2.750m
Lock-to-lock time 6.00s
Curb to curb Turning Radius 7.850m

ROAD EDGE

ROAD EDGE

VEGETATION TO BE TRIMMED

VEGETATION TO BE TRIMMED

VEGETATION TO BE TRIMMED

DO NOT SCALE FROM THIS DRAWING.
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WIND FARM SWEPT PATH ANALYSIS (SPA) LEGEND

- EXTENT OF BODY OUTLINE
- EXTENT OF WHEELBASE FOOTPRINT
- EXTENT OF LOAD OUTLINE
- AREA REQUIRED FOR LOAD OVERSAIL
- AREA WIDENED & SURFACED WITH CLAUSE 804
- VEGETATION
- FENCE
- DITCH
- WALL

REFERENCE DRAWINGS:

DRAWING No.	DRAWING TITLE
23318-MWP-HR-03-DR-C-1103	HAUL ROUTE WIDENING WORKS MASTER SHEET - FROM M7/R498 ROUNDBOUT TO BORRISOLEIGH

REV	DATE	DESCRIPTION	BY	APP
P01	09/08/23	ISSUED FOR INFORMATION	OR	BS

PROJECT: BRITTAS WIND FARM

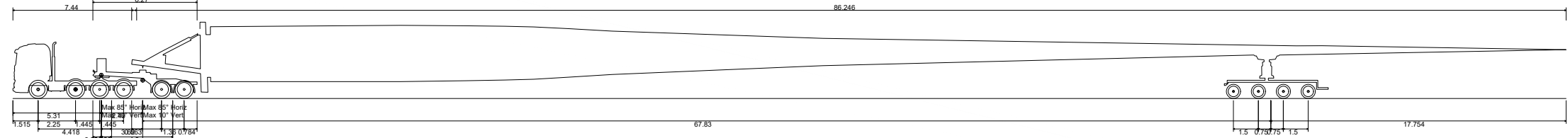
TITLE: HAUL ROUTE WIDENING WORKS - R498 "S" BENDS. SHEET 7

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PROJECT NUMBER: 23318	DATE: 09/08/23	SCALE @ A1: 1:500
STATUS DESCRIPTION: FOR INFORMATION		STATUS: S2

DRAWING NUMBER: 23318 - MWP -HR- 03-DR-C-0121	REV: P01
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81.5m Blade on Scania R500 with Doll Blade Clamp
Overall Length 12.00m
Overall Width 2.50m
Overall Height 4.50m
Min Body Ground Clearance 0.340m
Max Track Width 2.750m
Lock-to-lock time 6.00s
Curb to Curb Turning Radius 7.850m



DO NOT SCALE FROM THIS DRAWING.
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WIND FARM SWEEP PATH ANALYSIS (SPA) LEGEND

- EXTENT OF BODY OUTLINE
- EXTENT OF WHEELBASE FOOTPRINT
- EXTENT OF LOAD OUTLINE
- AREA REQUIRED FOR LOAD OVSAIL
- AREA WIDENED & SURFACED WITH CLAUSE 804
- VEGETATION
- FENCE
- DITCH
- WALL

REFERENCE DRAWINGS:

DRAWING No.	DRAWING TITLE
23318-MWP-HR-03-DR-C-1103	HAUL ROUTE WIDENING WORKS MASTER SHEET - FROM M7/R498 ROUNDBOUT TO BORRISOLEIGH

P01	09/08/23	ISSUED FOR INFORMATION	OR	BS
REV	DATE	DESCRIPTION	BY	APP

PROJECT:

BRITTAS WIND FARM

TITLE:

HAUL ROUTE WIDENING WORKS -
R498 "S" BENDS. SHEET 8

CLIENT:

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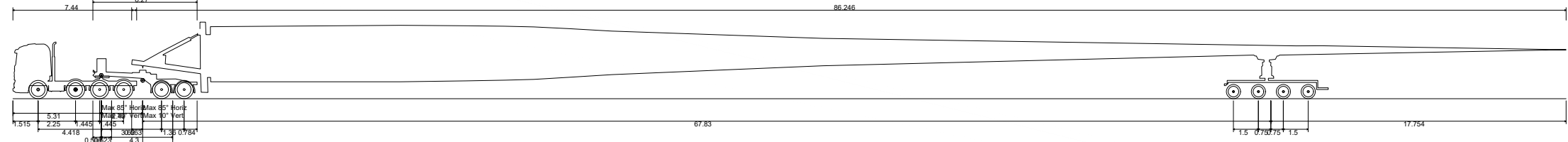
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PROJECT NUMBER:	DATE:	SCALE @ A1:
23318	09/08/23	1:500

STATUS DESCRIPTION	STATUS:
FOR INFORMATION	S2

DRAWING NUMBER:	REV:
23318 - MWP -HR- 03-DR-C-0122	P01



81.5m Blade on Scania R500 with Doll Blade Clamp	
Overall Length	80.584m
Overall Width	2.563m
Overall Body Height	4.597m
Min Body Ground Clearance	0.340m
Max Track Width	2.725m
Lock-to-lock time	6.00s
Curb to curb Turning Radius	7.850m

DO NOT SCALE FROM THIS DRAWING.
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WIND FARM SWEEPED PATH ANALYSIS (SPA) LEGEND

- EXTENT OF BODY OUTLINE
- EXTENT OF WHEELBASE FOOTPRINT
- EXTENT OF LOAD OUTLINE
- AREA REQUIRED FOR LOAD OVERSAIL
- AREA WIDENED & SURFACED WITH CLAUSE 804
- VEGETATION
- FENCE
- DITCH
- WALL

REFERENCE DRAWINGS:

DRAWING No.	DRAWING TITLE
23318-MWP-HR-03-DR-C-1103	HAUL ROUTE WIDENING WORKS MASTER SHEET - FROM M7/R498 ROUNDBOUT TO BORRISOLEIGH

P01	09/08/23	ISSUED FOR INFORMATION	OR	BS
REV	DATE	DESCRIPTION	BY	APP

PROJECT: BRITTAS WIND FARM

TITLE: HAUL ROUTE WIDENING WORKS - M7/R498 ROUNDBOUT



DRAWN: O.R.	CHECKED: P.C.	APPROVED: B.S.
PROJECT NUMBER: 23318	DATE: 09/08/23	SCALE @ A1: 1:500
STATUS DESCRIPTION: FOR INFORMATION		STATUS: S2

DRAWING NUMBER: 23318 - MWP -HR- 03-DR-C-0123	REV: P01
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WIND FARM SWEEPED PATH ANALYSIS (SPA) LEGEND

EXTENT OF BODY OUTLINE

EXTENT OF WHEELBASE FOOTPRINT

EXTENT OF LOAD OUTLINE

AREA REQUIRED FOR LOAD OVERSAIL

AREA WIDENED & SURFACED WITH CLAUSE 804

REFERENCE DRAWINGS:

DRAWING No.	DRAWING TITLE

P01	09/08/23	ISSUED FOR INFORMATION		OR	BS
REV	DATE	DESCRIPTION		BY	APP

PROJECT:
BRITTAS WIND FARM

TITLE:
HAUL ROUTE WIDENING WORKS -
MASTER SHEET - FROM M7/R498
ROUNDBABOUT TO BORRISOLEIGH

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PROJECT NUMBER:	23318	DATE:	09/08/23	SCALE @ A1:	1:12500
STATUS DESCRIPTION				STATUS:	
FOR INFORMATION				S2	

DRAWING NUMBER:	23318 - MWP -HR- 03- DR- C- 1103	REV:	P01
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