

Owenreagh/Craignapple Wind Farm.



**Technical Appendix A13.1: Abnormal Load
Route Assessment (ALRA) .**

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Owenreagh/Craignapple Wind Farm.

Technical Appendix A13.1: Abnormal Load Route Assessment (ALRA)



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Acronyms and Abbreviations

Name	Description
ALRA	Abnormal Load Route Assessment
ERM	Environmental Resources Management
m	Metre
OSNI	Ordnance Survey Northern Ireland
PCs	Points of Constraint

1. INTRODUCTION

Owenreagh Wind Farm is an existing wind farm located south of Glenmornan in County Tyrone, Northern Ireland. This Abnormal Load Route Assessment (ALRA), prepared by Environmental Resources Management Inc. (ERM), provides an assessment of land-based haul routes to the wind farm site for the delivery of wind turbine components to enable repowering of the wind farm.

Turbine components would be delivered to Foyle Port, Derry/Londonderry. The route to site would then follow the route used during construction of the Owenreagh I Wind Farm which is as follows:

- Leave Foyle Port onto Port Road;
- Continue onto Haw Road;
- Turn right onto Maydown Road;
- Turn right onto A2;
- Turn left onto A514;
- Turn right onto Dungiven Road;
- Continue onto Glendermott Road;
- Continue onto King Street;
- Turn left onto Victoria Road;
- Continue to Ballymagory and turn left onto Woodend Road;
- Turn left onto Berryhill Road, B49;
- Turn right onto Pine Road;
- Turn left onto Sentry Road;
- Continue onto Moirlough Road;
- Turn right onto Glenmornan Road; and,
- Continue to Site Entrance.

2. METHODOLOGY

This ALRA is a desk-based study which uses a mixture of publicly available Ordnance Survey Northern Ireland (OSNI) vector mapping, and a topographical survey to conduct swept path analysis of pinch points on the proposed delivery route. Swept path analysis is conducted in AutoCAD using the Vehicle Tracking software and a bespoke delivery vehicle developed for this ALRA.

OSNI mapping was used for the assessment between Foyle Port (PC1) and the Berryhill Road/Pine Road Junction (PC14). Beyond PC14 the OSNI mapping had insufficient detail for assessment, therefore a topographical survey was undertaken in 2022 and the subsequent survey data captured by this survey was used for assessment up to the Site Entrance.

The assessment only considers the horizontal geometry of pinch points on the route. Further consideration of vertical constraints may be required during the detailed design stage for improvement works at identified points of constraint (PCs).

2.1 Delivery Vehicle Specifications

2.1.1 Blade Delivery Vehicle

A vehicle data sheet is included in Appendix B. The candidate turbine used during the assessment was a Vestas 136 which has a 66.66 metre (m) blade, which is carried on a Nootboom Superwing type trailer. Dimensions of the blade and corresponding delivery vehicle specifications are provided in the following tables.

Table A13.1.1. Turbine Blade Data

	Data Used in Assessment
Blade	Length 66.66 m

Table A13.1.2. Assumed delivery vehicles for Turbine Blade

	Data	Source
Blade Trailer	Vehicle length – 62.62 m Blade overhang – 8.72 m	Volvo Cab / Superwing Trailer

2.1.2 Tower Section Delivery Vehicle

A vehicle data sheet is included in Appendix B. The candidate turbine used during the assessment was a Vestas 136 which requires 30 metre (m) individual tower sections, which are carried on a 16-axle generic 30 m x 4.38 m tower trailer. Dimensions of the tower sections and corresponding delivery vehicle specifications are provided in the following tables.

Table A13.1.3. Turbine Tower Section Data

	Data Used in Assessment
Tower Section	Length 30 m

Table A13.1.4. Assumed delivery vehicles for Turbine Blade

	Data	Source
Tower Section Trailer	Vehicle length – 58.02 m	30 m x 4.38 m Tower Trailer

2.2 Assumptions

To keep the results of assessment as concise as possible, the following assumptions have been made at each PC:

- During transit, delivery vehicles will be accompanied by an escort vehicle and a police escort if required;
- At all locations where the delivery vehicle occupies the full road width, or is required to contraflow a junction, appropriate traffic management procedures will be implemented by the escort. This will usually involve temporary closure of the road or junction whilst the vehicle passes; and,
- A detailed traffic management plan will be prepared prior to delivery to inform all relevant stakeholders of road closures and other procedures to be implemented during delivery.

2.3 Categorisation of Risk

The following criteria were used to categorise risk at each PC:

- High Risk PCs are those which require construction works within identified third party land areas;
- Medium Risk PCs are those which will require works, including vegetation clearance or street furniture removal within public land areas; and,
- Low Risk PCs are those which do not require any works.

3. RESULTS OF ASSESSMENT

3.1 Turbine Blade Delivery

Based on swept path analysis of all PCs identified on the proposed delivery route, outcomes and mitigation requirements have been defined and are summarised in Table A13.1.5. These results should be read in conjunction with the drawings which are included in Appendix C.

Table A13.1.5. Assessment of Constraints – Blade Delivery

Ref	Location	Assessment Outcome	Mitigation	Risk
PC/01	Port Road – Bend over Railway Bridge	Load and trailer will require to clear above bridge parapet on the inside of the bend. Blade tip will require to clear above parapet on the outside of bend.	Clearance heights should be checked.	Low
PC/02	Haw Road/ Maydown Road Junction	Load and trailer will oversail inside of bend above fence into third party land area. Blade tip will oversail the outside of the bend into third party land area and conflict with signpost.	Clearance height above fence on inside of bend to be confirmed, if required fence should be removed. Third party oversail permissions to be sought. Signpost to be mounted on demountable supports and lowered during delivery.	High
PC/03	Maydown Roundabout	Load and trailer will oversail inside of initial approach bend and will conflict with various lighting columns. Subsequently load and trailer will oversail roundabout island, no conflict identified. Blade tip will pass above pedestrian guardrail on east arm.	Lighting columns to be removed/relocated from inside bend of north arm. Clearance height of blade tip above pedestrian guardrail on east arm to be checked, likely to be sufficient.	Medium
PC/04	Gransha Roundabout	Vehicle and load will oversail roundabout and approach arms at various locations. Conflict identified with lighting column on approach arm.	Lighting column to be relocated or replaced.	Medium
PC/05	Caw Roundabout	Load to oversail in various locations as shown on drawing 4172_ALRA_005. Possible conflict with lighting columns identified.	Location of lighting columns should be established to ensure sufficient clearance from blade tip.	Medium
PC/06	Crescent Link Roundabout	Load to oversail in various locations as shown on drawing 4172_ALRA_006. Possible conflict with pedestrian guardrail and sign post identified.	Clearance height of blade tip above pedestrian guardrail to be confirmed, likely to be sufficient. Sign in island to be mounted on demountable supports and removed during delivery.	Medium
PC/07	Kilfennan Roundabout	Load to oversail roundabout central island, island is raised and therefore load may ground out if clearance height is insufficient. Vehicle to mount footway and will conflict with pedestrian guardrail. Blade tip likely to conflict with signpost on approach arm.	Clearance height of load and trailer above central island to be checked if insufficient modification to the island or an alternative vehicle track should be explored. Pedestrian guardrail to be removed from footway. Signpost to be mounted on demountable supports and removed during delivery.	Medium

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Ref	Location	Assessment Outcome	Mitigation	Risk
PC/08	Altnagelvin Roundabout	Load and trailer to oversail roundabout island, low clearance to Walled City sculpture. Conflict with signpost in central island. Possible conflict with vegetation on west approach arm.	Precise location of sculpture to be established, tracking to be revised if required to avoid. Signpost on island to be mounted on demountable supports and lowered during delivery. Vegetation to be cut back from western approach arm if required.	Medium
PC/09	Waterside Roundabout	Vehicle required to overrun area of raised central island and south arm central reservation. Blade tip will conflict with various street furniture on east arm as shown on drawing 4172_ALRA_0009. Blade tip to oversail grass area, ownership believed to be within public land however not known.	Central island to be levelled in overrun area. Kerb ramps to be installed on south arm central reservation as necessary. Lighting columns to be removed/relocated as required from east arm. Ownership of grass verge in blade tip oversail area to be confirmed.	Medium
PC/10	Duke Street Roundabout	Load and trailer to oversail island and approach arms in various locations and conflict with street furniture as shown on drawing 4172_ALRA_0010. Possible issue with clearance height to island.	Signs to be mounted on demountable supports. Clearance height of load and trailer to central island to be confirmed. Modifications to island required if insufficient.	Medium
PC/11	A5 / Woodend Road Junction, Ballymagory	Load and trailer to oversail inside of bend and conflict with lighting column.	Lighting column to be relocated or removed.	Medium
PC/11 (Option 2)	A5 / Woodend Road Junction, Ballymagory	Alternative option created to avoid need to oversail to the west of junction. Load and trailer to oversail inside of bend and will conflict with fence, trees and lighting columns located in the verge.	Trees to be felled. Lighting column to be relocated. Fence to be temporarily removed or relocated as required.	Medium
PC/12	Woodend Road, Ballymagory	Vehicle required to drive through parking bays on the east side of the road. Load and trailer will oversail the inside of the bend at raised embankment with risk of grounding out. On subsequent bend low clearance to third party land boundary identified, however vehicle can mount footway if required to avoid.	Parking to be suspended during delivery. Clearance height to raised embankment to be clarified. Alternative track to be investigated if clearance height is insufficient.	Medium
PC/13	Woodend Road/ Berryhill Road Junction, Ballymagory	This alternative option was developed to minimise the overrun into the embankment to the south of the junction.	Overrun area to be constructed on the inside of bend, this will require the removal of trees, wall, signposts, and lighting column.	High

Ref	Location	Assessment Outcome	Mitigation	Risk
		<p>Vehicle to overrun and oversail the inside of the bend over residential driveway and garden conflicting with trees, wall, signposts, and lighting column.</p> <p>Blade tip to oversail the outside of the bend (west of junction) into residential gardens and will conflict with telegraph posts, lighting columns and signposts.</p> <p>Vehicle will overrun the verge onto the footpath near residential driveways to the west.</p> <p>Vehicle will overrun verge at foot of embankment and will conflict with signpost.</p>	<p>Oversail area to west of junction to be cleared of above ground obstructions to blade tip.</p> <p>Overrun area to be constructed on south side of junction at the foot of embankment.</p> <p>Overrun area to be constructed on west side of grass verge.</p>	
PC/14	Berryhill Road / Off Site Access Track / Sentry Road	<p>Vehicle will oversail the grass verge to the north while making the turn into the off-Site access track.</p> <p>Upon Exiting the proposed access track onto Sentry Road, the blade tip will oversail into the nearby residential garden to the north.</p>	<p>Third party permissions to be acquired to allow construction of off-Site access track and oversail into residential garden.</p>	High
PC/15	Bend at Farmacyard, Sentry Road	<p>To avoid conflict with farm building vehicle to overrun into field to the south of the bend.</p> <p>Various conflicts with street furniture and stone wall as shown on drawing 4172_ALRA_0015.</p>	<p>Overrun area to be constructed within field as indicated on drawing 4172_ALRA_0015.</p> <p>Existing stone wall to be demolished.</p> <p>Telegraph posts to be relocated as required.</p> <p>Third party oversail permissions to be sought for all identified areas.</p>	High
PC/16 (A)	Bend at 10 Sentry Road	<p>This option was developed to avoid conflict with the north side existing hedge adjacent to 10 Sentry Road.</p> <p>Vehicle required to overrun the field to the south in various locations as shown on drawing 4172_ALRA_0016 B.</p> <p>Vehicle to conflict with multiple telegraph posts and existing vegetation while navigating the bend.</p> <p>Vehicle will breach the third-party land barrier while performing overrun maneuverer.</p>	<p>Overrun area to be constructed within field as indicated on drawing 4172_ALRA_0016 B.</p> <p>Telegraph posts to be relocated as required.</p> <p>Conflicting vegetation to be removed as required.</p> <p>Third party oversail permissions to be sought for overrun areas.</p>	High
PC/16 (B)	Bend at 10 Sentry Road	<p>This option was developed as a second alternative to PC/16.</p>	<p>Overrun area to be constructed within field as indicated on drawing 4172_ALRA_0016 C.</p> <p>Telegraph posts to be relocated as required.</p>	High

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Ref	Location	Assessment Outcome	Mitigation	Risk
		<p>Vehicle required to overrun the field to the south in various locations as shown on drawing 4172_ALRA_0016 C.</p> <p>Vehicle required to oversail the field to the north while navigating the bend, conflicting with the existing hedge.</p> <p>Vehicle to conflict with multiple telegraph posts and existing vegetation while navigating the bend.</p> <p>Vehicle will breach the third-party land barrier while navigating the bend.</p>	<p>Conflicting vegetation to be removed as required.</p> <p>Third party oversail permissions to be sought for overrun areas.</p>	
PC/17	Bend beyond 3 Sentry Road	Vehicle will overrun inside of bend and will conflict with wall and fence. Vehicle will oversail into various third-party land areas as indicated on drawing 4172_ALRA_0017.	Overrun area to be constructed, wall and fence to be relocated behind overrun area. Third party oversail permissions to be sought for areas identified.	High
PC/18	Bends beyond Art Road, Sentry Road	<p>This alternative option has been developed to avoid the need to fell the mature tree within the garden of the property at 30 Sentry Road.</p> <p>Vehicle required to overrun into field to the west of sentry road and would conflict with fence.</p> <p>Subsequently vehicle and load will oversail inside of junction and will conflict with telegraph post and trees.</p>	<p>Overrun area to be constructed within field to the west of Sentry Road. Fence to be relocated behind overrun area.</p> <p>Telegraph post to be relocated and trees to be felled on land to the south of junction.</p>	High
PC/18 B	Art Road/ Sentry Road – Junction	<p>Vehicle will oversail in various locations with the load and trailer conflicting with hedges, fences, trees, and telegraph posts where it oversails the road boundary.</p> <p>The trailer will overrun on the inside bend of the junction and will conflict with a fence.</p>	Third party oversail permissions to be sought where required. Trees to be removed from oversail areas where they conflict with the load. Telegraph post to be relocated from oversail area.	High
PC/19	Bends at 33 Moorlough Road	To avoid oversailing residential garden on the inside of the bend vehicle will overrun into field on the west side of the bend. Trees, telegraph posts and fences will conflict with movement.	Overrun area to be constructed within field. Fence and hedge to be removed from edge of road. Telegraph posts to be relocated. Third party land to be acquired.	High
PC/20	Bends at 45 Moorlough Road	This alternative option has been developed to increase the clearance to the house at 35 Moorlough Road.	Overrun area to be constructed to the north of 35 Moorlough Road. Trees to be felled, telegraph post relocated, and sign mounted on demountable supports.	High

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Ref	Location	Assessment Outcome	Mitigation	Risk
		Rear of vehicle will be required to overrun into field to the north of 35 Moirlough Road and will conflict with trees, telegraph post and sign. Subsequently vehicle will continue to oversail into residential garden and will conflict with telegraph posts and trees.	On subsequent bend third party oversail permissions to be sought, trees to be removed as required and telegraph posts to be relocated.	
PC/21	Bends on Moirlough road before Glenmornan Road	Vehicle to overrun into the adjacent field to the south in various locations as shown on drawing 4172_ALRA_0021. Existing trees are located within the confines of these oversail areas. While navigating the bend on Moirlough Road before the junction with Keenaghan Road, the vehicle will oversail on either side, conflicting with existing trees and the nearby telegraph post.	Overrun areas to be constructed as shown on drawing 4172_ALRA_0021. Conflicting vegetation to be removed from vehicle overrun and oversail areas. Conflicting Telegraph post to be relocated out with vehicle oversail area. Third party oversail permissions to be sought to allow for vehicle overrun and oversail.	High
PC/22	Moirlough Road/ Glenmornan Road Junction	This alternative option has been developed to avoid oversail on the west side of the road prior to Strahullagh Bridge. Vehicle required to overrun the grass verge to the north before reaching the bend to the east. Due to the restricted width of the road the road would need to be widened on its east side to avoid oversailing the western verge. Vehicle will conflict with hedge.	Road to be widened with temporary overrun area. Hedge to be relocated behind overrun area. Overrun area to be laid on the verge to the north on the straight section of road before the bend to the east.	High
PC/23	Bends on Glenmornan Road	Vehicle to oversail into third party land in various areas as shown on drawing 4172_ALRA_0023. Trees, fences, and hedges will come into conflict with vehicle. Vehicle will overrun the inside of bends in various locations.	Third party oversail permissions to be sought. Trees, fences, and hedges to be removed. Overrun area to be constructed on the inside of bends.	High
PC/24	Glenmornan Road/ Hollyhill Road Crossroad	Vehicle to oversail into third party land in various areas as shown on drawing 4172_ALRA_0024. Trees, fences, and hedges will come into conflict with vehicle. Vehicle will overrun in various locations.	Third party oversail permissions to be sought. Trees, fences, and hedges to be removed. Overrun area to be constructed on the inside of bends.	High
PC/24 (Option 2)	Glenmornan Road/ Hollyhill Road Crossroad	This alternative option was developed to avoid the need for oversail on the left (north-east) side of the road.	Temporary overrun areas to be constructed on the south-west boundary of the road. Hedges to be removed. Telegraph posts to be relocated.	High

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Ref	Location	Assessment Outcome	Mitigation	Risk
		Due to the restricted width of the road to avoid the oversail to the north-east it will be necessary to widen the road on all stretches where oversail to the north-east is not desired. Vehicle will conflict with hedges and telegraph posts.		
PC/25	Glenmornan Road – Bend before Site Entrance	Vehicle and load to overrun and oversail inside of bend into third party land and conflict with telegraph posts and fence.	Telegraph posts to be removed from field boundary and overrun area to be constructed on inside of bend. Fence to be relocated to back of overrun area.	High
PC/26	Bends Before Junction to Napple Road	Vehicle and load to both oversail and overrun the verge at various locations as shown on drawing 4172_ALRA_0056. The existing fence line will come into conflict with the vehicle.	Existing fence to be relocated to behind the oversail areas. Temporary overrun areas to be constructed as shown on drawing 4172_ALRA_0056.	Medium
PC/27 (A)	Glenmornan Road/Napple Road Junction	Vehicle and load to both oversail and overrun the verge at various locations as shown on drawing 4172_ALRA_0060. Creating conflicts with existing fencing and bridge parapets.	Temporary load bearing surface to be constructed to allow for the delivery vehicle to pass through the adjacent field. Conflicting fence lines to be relocated to behind the oversail areas. Vehicle overrun falls within 0.5 m factor of safety to the existing bridge parapets. Third party oversail permissions to be sought to allow for vehicle oversail.	High
PC/27 (B)	Glenmornan Road/Napple Road Junction	Vehicle and load to both oversail and overrun the verge at various locations as shown on drawing 4172_ALRA_0058. The vehicle will conflict with the existing fence line and sign posts located within the vicinity of the junction.	Conflicting fence lines to be relocated to behind the oversail areas. Conflicting signposts to be placed on temporary supports, to be removed on vehicles arrival. Temporary overrun areas to be constructed as shown on drawing 4172_ALRA_0058.	Medium
PC/28	Napple Road – Access Junction into Turbine 13	Vehicle and load to both oversail and overrun the verge at various locations as shown on drawing 4172_ALRA_0059. The existing fence lines conflict with the vehicle on either side of the carriageway. Vehicle oversail on the east breaches the third party land barrier at multiple locations.	Existing fence to be relocated to behind the oversail areas. Temporary overrun areas to be constructed as shown on drawing 4172_ALRA_0059. Third party oversail permissions to be sought to allow for vehicle oversail.	High

3.2 Tower Section Delivery

Based on swept path analysis of all PCs identified on the proposed delivery route, outcomes and mitigation requirements have been defined and are summarised in Table A13.1.6. These results should be read in conjunction with the drawings which are included in Appendix D.

Table A13.1.6. Assessment of Constraints – Tower Delivery

Ref	Location	Assessment Outcome	Mitigation	Comparison with Blade	Risk
PC/01	Port Road – Bend over Railway Bridge	Load fully within road, no conflict identified.	N/A	Blade will oversail bridge parapets but is likely to clear above them. No additional works required for tower.	Low
PC/02	Haw Road /Maydown Rad Junction	Vehicle load to conflict with existing fence to the south. Load oversails into third party land area.	Fence to be moved behind oversail area.	Blade vehicle will overrun and oversail on the inside bend of the junction and will conflict with fence and signposts. No additional works required for tower.	High
PC/03	Maydown Roundabout	Vehicle oversail to conflict with existing lighting columns on the inside bend when entering the roundabout. Vehicle will oversail the roundabout island, conflicting with existing signpost.	Conflicting lighting columns and signpost to be removed/relocated from oversail areas.	Load and trailer will oversail at various locations requiring street furniture removal. No additional works are required for tower.	Low
PC/04	Gransha Roundabout	Vehicle to oversail the grass verge and footpath to the east. Vehicle will oversail roundabout island.	Clearance height of roundabout island in oversail area to be determined, island may need to be modified. Alternative option could be developed to overrun verges on entry/exit arms in place of island modification.	Blade will oversail roundabout and approach arms at various locations. Conflict identified with lighting column on approach arm. Tower section may require additional work to the central island depending on the safe clearance height.	Medium
PC/05	Caw Roundabout	Vehicle oversails the grass verge to the east while exiting the roundabout.	N/A	Blade will oversail in various locations. Possible conflict with lighting columns identified. No additional works required for tower.	Low
PC/06	Crescent Link Roundabout	Load will oversail less than 0.5m from pedestrian guardrail to the east of entry arm of roundabout. Unlikely to conflict with guardrail as the furthest outboard section of the tower will be above the guardrail.	Sign in roundabout island to be mounted on demountable supports and removed during delivery.	Blade tip will oversail pedestrian guardrail but is likely to clear above it. Blade and trailer will oversail central island of roundabout and	Medium

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		Load and trailer will oversail the centre of the roundabout, creating a conflict with the existing road sign in the centre of the roundabout. Central island is low and unlikely to conflict with load or trailer.		will conflict with signpost, similarly to the blade. No additional works are required for the tower.	
PC/07	Kilfennan Roundabout	Vehicle will overrun the footpath on the east, creating a conflict with existing guardrail and signpost. This overrun is required to avoid conflict with the raised roundabout central island. While navigating the roundabout, the vehicle will oversail the central island. Upon exiting the roundabout, the vehicle will overrun the grass verge onto the footpath and create a conflict with the existing guardrail.	Temporary load bearing surface to be placed in areas of vehicle overrun. Land ownership of grass verge to be clarified. Existing guardrails to be relocated to behind the predicted vehicle overrun area. Clearance height of roundabout central island to be checked with regards to vehicle load.	Blade will oversail roundabout central island, clearance to be determined. Vehicle to mount footway and will conflict with pedestrian guardrail. Blade tip likely to conflict with signpost on approach arm. Additional overrun area required for tower delivery so as to avoid works to raised central island of roundabout.	Medium
PC/08	Altnagelvin Roundabout	Vehicle will oversail the central island of the roundabout, creating a conflict with the existing road sign.	Existing road sign to be temporarily fitted on demountable supports, to be removed upon vehicle arrival.	Vehicle to oversail roundabout island, low clearance to Walled City sculpture. Conflict with signpost in central island. Possible conflict with vegetation on west approach arm. No additional works required for tower delivery.	Low
PC/09	Waterside Roundabout	Vehicle to overrun traffic island on lead-up to roundabout, creating a conflict with the existing bollard and lighting column. Vehicle will overrun the roundabout central island, creating a conflict with existing road signs.	Conflicting street furniture to be fitted on demountable supports to be removed on vehicles arrival. Earthworks will be required to create an overrun area on the central island.	Vehicle required to overrun area of raised central island and south arm central reservation. Blade tip will conflict with various street furniture on east arm. Blade tip to oversail grass area, ownership believed to be within public land however not known. No additional works required for tower delivery.	Medium
PC/10	Duke Street Roundabout	Vehicle will overrun the grass verge to the east at the entrance to the roundabout, creating a conflict with the existing road sign. This overrun area is required to avoid conflict with raised central island of roundabout.	Conflicting road sign to be temporarily fitted on demountable supports to be removed on vehicles arrival. Temporary load bearing surface to be laid and kerb mounts to be fitted to	Load and trailer to oversail island and approach arms in various locations and conflict with street furniture.	Medium

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		Vehicle will overrun the footpath to the east while navigating the roundabout. Vehicle will oversail the kerb at the central island of the roundabout but will not conflict with the raised wall.	allow for vehicle overrun where it overruns the exiting footway.	Possible issue with clearance height to island. Additional area of overrun required to east of entry arm to roundabout.	
PC/11	A5 / Woodend Road Junction	Vehicle will overrun the grass verge to the east while making the turn.	Overrun area to be constructed within grass verge	Option (A) - Load and trailer to oversail inside of bend and conflict with lighting column. Option (B) - Load and trailer to oversail inside of bend and will conflict with fence, trees and lighting columns located in the verge. No substantial change required for tower section, minor increase in overrun within grass verge.	Medium
PC/12	Woodend Road, Ballymagory	Vehicle will overrun the footway to the east while navigating the bend. The vehicle will also have to pass through the exiting lay-by. The vehicle will oversail the footway to the west while navigating the bend but will not conflict with the embankment.	Kerb mounts to be put in place to allow for the vehicle to manoeuvre onto the footway. Existing lay-by to be closed during delivery to prevent parking.	Blade vehicle will partially oversail embankment, clearance to be determined. No additional works are required for tower.	Medium
PC/13	Woodend Road/Berryhill Road Junction	Vehicle will overrun and oversail the grass verge while exiting the junction onto Berryhill Road in multiple locations as shown on 4172-ALR-0042. This will create conflicts with the existing lighting column and signposts.	Temporary load bearing surface to be constructed in areas of vehicle overrun. Lighting column to be removed or relocated before delivery. Existing signposts will be mounted on demountable supports to be replaced on vehicles arrival. Extents of land ownership onto grass verge at 87 Woodend Road to be clarified.	Overrun area to be constructed on the inside of bend, this will require the removal of trees, wall, signposts, and lighting column. Oversail area to west of junction to be cleared of above ground obstructions to blade tip. Overrun area to be constructed on south side of junction at the foot of embankment. Overrun area to be constructed on west side of grass verge. Signposts to be mounted on demountable supports. Lighting columns to be removed/relocated as required. Clearance to telephone cabinets	Medium

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				for blade tip to be checked, likely to be sufficient. Larger overrun areas required (249 m2 for tower section vs 240 m2 for blade tip) for tower section delivery.	
PC/14	Berryhill Road / Off Site Access Track / Sentry Road	Vehicle will oversail the grass verge to the north while making the turn into the off-Site access track. Upon exiting the proposed access track onto Sentry Road, the vehicle trailer will oversail the grass verge on either side, conflicting with existing hedge row.	Existing hedgerows located within oversail areas to be trimmed back as required. Third party permissions to be acquired to allow construction of off-site access track.	Vehicle will oversail the grass verge to the north while making the turn into the off-Site access track. Upon Exiting the proposed access track onto Sentry Road, the blade tip will oversail into the nearby residential garden to the north. No Additional works required for tower delivery.	High
PC/15	Bend at Farmyard, Sentry Road	Vehicle will overrun field to the west while navigating the bend, creating a conflict with the existing stone wall and hedgerow. Vehicle will oversail the grass verges on both sides at various locations, as shown on 4172-ALR-0044, creating a conflict with existing hedgerows. Vehicle overrun and oversail will breach the third-party land barrier.	Temporary load bearing surface to be constructed in areas of vehicle overrun. Existing stone wall to be demolished to allow for vehicle overrun. Telegraph post to be relocated to behind oversail and overrun area. Conflicting hedgerow to be removed from overrun and oversail areas. Third party permission to be sought to allow for both vehicle overrun and oversail.	Overrun area to be constructed within field. Existing stone wall to be demolished. Telegraph posts to be relocated as required. Third party oversail permissions to be sought for all identified areas. No additional works required for tower delivery.	High
PC/16	Bend at 10 Sentry Road	Vehicle will overrun the verge In various locations as shown on 4172-ALR-0045. Creating conflicts with existing telegraph poles. Vehicle will oversail the verge In various locations as shown on 4172-ALR-0045. Creating conflicts with existing hedgerow and fence. Vehicle will reach the third-party land barrier in various locations.	Temporary load bearing surface to be constructed in areas of vehicle overrun. Telegraph post and existing fence to be relocated to behind oversail and overrun area. Conflicting hedgerow to be removed from overrun and oversail areas. Third party permission to be sought to allow for both vehicle overrun and oversail	Third party oversail permissions to be sought. Telegraph posts to be relocated, hedges and trees removed. Additional overrun areas required to allow for tower delivery.	High

Technical Appendix A13.1: Abnormal Load Route Assessment (ALRA)

PC/16 (B)	Bend at 10 Sentry Road	This option was developed to avoid conflict with the north side existing hedge adjacent to 10 Sentry Road. Vehicle required to overrun the field to the south in various locations as shown on drawing 4172_ALRA_0045 B. Vehicle to conflict with multiple telegraph posts and existing vegetation while navigating the bend. Vehicle will breach the third-party land barrier while performing overrun maneuverer.	Overrun area to be constructed within field as indicated on drawing 4172_ALRA_0045 B. Telegraph posts to be relocated as required. Conflicting vegetation to be removed as required. Third party oversail permissions to be sought for overrun areas.	Overrun area to be constructed within field as indicated on drawing 4172_ALRA_0016 B. Telegraph posts to be relocated as required. Conflicting vegetation to be removed as required. Third party oversail permissions to be sought for overrun areas.	High
PC/17	Bend beyond 3 Sentry Road	Vehicle will overrun & oversail the verge in various locations as shown on 4172-ALR-0046. Creating conflicts with existing fence and hedgerows. Vehicle oversail will breach the third-party land barrier.	Temporary load bearing surface to be constructed in areas of vehicle overrun. Conflicting hedgerow and fence to be removed from overrun and oversail areas. Third party permission to be sought to allow for vehicle oversail.	Overrun area to be constructed, wall and fence to be relocated behind overrun area. Third party oversail permissions to be sought for areas identified. Larger area of overrun required for tower section delivery.	High
PC/18	Bends Beyond Art Road, Sentry Road	Vehicle will oversail the verge in various locations as shown on 4172-ALR-0047. Creating conflicts with existing fence, telegraph post and hedgerows. Vehicle oversail will breach the third-party land barrier.	Conflicting hedgerow and fence to be removed from overrun and oversail areas. Conflicting telegraph post to be relocated beyond vehicle oversail area. Third party permission to be sought to allow for vehicle oversail.	Third party oversail permissions to be sought for all areas identified. Telegraph posts to be relocated. Trees and hedges to be trimmed/removed as necessary. Additional Hedgerow removal before and after the junction necessary for tower delivery.	High
PC/18 (Option 2)	Art Road, Sentry Road Junction	Vehicle will overrun & oversail the verge into adjacent fields in various locations as shown on 4172-ALR-0048. Creating conflicts with existing fence telegraph post and hedgerows. Vehicle oversail will breach the third-party land barrier.	Temporary load bearing surface to be constructed in areas of vehicle overrun. Conflicting hedgerow and fence to be removed from overrun and oversail areas. Conflicting telegraph post to be relocated beyond vehicle oversail area. Third party permission to be sought to allow for vehicle oversail.	Temporary load bearing surface to be constructed in areas of vehicle overrun. Third party oversail permissions to be sought where required. Trees to be removed from oversail areas where they conflict with the load. Telegraph post to be relocated from oversail area. Larger vehicle overrun area required for tower section delivery.	High

Technical Appendix A13.1: Abnormal Load Route Assessment (ALRA)

PC/19	Bends at 33 Moorlough Road	Vehicle will overrun the field adjacent to 26 Moorlough Road conflicting with existing trees. Vehicle will oversail the verge into adjacent fields in various locations as shown on 4172-ALR-0049. Creating conflicts with existing fence telegraph posts and hedgerows. Vehicle will breach the third-party land barrier in various locations.	Temporary load bearing surface to be constructed in areas of vehicle overrun. Conflicting vegetation and fence to be removed from overrun and oversail areas. Conflicting telegraph post to be relocated beyond vehicle oversail area. Third party permission to be sought to allow for vehicle oversail.	Overrun area to be constructed within field. Fence and hedge to be removed from edge of road. Telegraph posts to be relocated. Third party land to be acquired. Additional hedgerow removal required for tower delivery.	High
PC/20	Bends at 45 Moorlough Road	Rear of vehicle will be required to overrun into field to the north of 35 Moorlough Road and will conflict with trees, telegraph post and sign. Vehicle will oversail the garden wall at 41 Moorlough Road while navigating the bend. And may not clear above it. Subsequently vehicle will continue to oversail into fields and will conflict fence, telegraph posts, trees, and hedges	Overrun area to be constructed to the north of 35 Moorlough Road. Trees to be felled, telegraph post relocated, and sign mounted on demountable supports. Garden wall at 41 Moorlough Road may have to be partially relocated beyond the oversail area. Fence, hedge, trees and telegraph posts to be relocated or removed as required to facilitate oversail	Blade vehicle will oversail in similar locations, however, is likely to clear above the wall at 41 Moorlough Road due to its height. Additional works likely to be required for tower as tower may not clear above wall at 41 Moorlough Road due to reduced height.	High
PC/21	Bends on Moorlough Road before Glenmornan Road	No conflict identified with garden wall at 39 Moorlough Road. Vehicle will overrun the grass verge into third party land the south. This area is fully contained within proposed blade vehicle overrun area. Vehicle to oversail into third party land in various areas as shown on drawing 4172_ALRA_0051. Trees and telegraph posts will come into conflict with vehicle.	Third party overrun permission to be sought. Once approved a temporary load bearing surface to be constructed in overrun area. Third party oversail permissions to be sought. Telegraph posts to be relocated, trees to be removed.	Blade vehicle will overrun in several locations, requiring the construction of overrun areas and the removal of trees, hedges, fences, and telegraph posts. No additional works are required for tower.	High
PC/22	Moorlough Road, Glenmornan Road Junction	Vehicle will both overrun and oversail the verge in various locations as shown on 4172-ALR-0052. Creating conflicts with existing telegraph posts and hedgerows. Vehicle will breach the third-party land in the field to the west.	Temporary load bearing surface to be constructed in areas of vehicle overrun. Conflicting hedge to be trimmed back from overrun and oversail areas. Conflicting telegraph posts to be relocated beyond vehicle oversail area. Third party permission to be sought to allow for vehicle oversail.	Option 1: Third party oversail permissions to be sought. Telegraph posts to be relocated, trees to be removed. Overrun area to be constructed on the inside of bends. Option 2: Road to be widened with temporary overrun area. Hedge to be relocated behind overrun area.	High

Technical Appendix A13.1: Abnormal Load Route Assessment (ALRA)

				Overrun area to be laid on the verge to the north on the straight section of road before the bend to the east. Additional vegetation removal required for tower delivery.	
PC/23	Bends on Glenmornan Road	Vehicle will overrun and oversail the verge in various locations as shown on 4172-ALR-0053. Creating conflicts with existing trees, fencing and hedgerows. Vehicle will breach the third-party land barrier in various locations.	Temporary load bearing surface to be constructed in areas of vehicle overrun. Conflicting vegetation to be trimmed back from overrun and oversail areas. Fence to be relocated. Third party permission to be sought to allow for vehicle oversail.	Third party oversail permissions to be sought. Trees, fences, and hedges to be removed. Overrun area to be constructed on the inside of bends. Additional vegetation removal required for tower delivery.	High
PC/24	Glenmornan Road/Hollyhill Road Crossroad	Tower vehicle to overrun inside of initial bend on approach to crossroad and will conflict with hedge. On bend after crossroad vehicle to overrun inside of bend and also to conflict with hedge.	Temporary load bearing surfaces to be constructed in overrun areas on inside of bends before and after crossroads. Hedges to be removed from overrun and oversail areas where they conflict with vehicle and load.	Blade required several oversail areas on the inside of bends. Tower section will require additional works in the form of overrun areas and additional areas of hedge to be removed.	High
PC/25	Glenmornan Road, Before Wind Farm	Vehicle will oversail into the field while navigating the bend and also oversail the grass verge in various locations as shown on 4172ALR-0055. Vehicle will breach the third-party land barrier.	Third party permission to be sought to allow for vehicle oversail.	Telegraph posts to be removed from field boundary and overrun area to be constructed on inside of bend. Fence to be relocated to back of overrun area. No additional works required for tower delivery.	High
PC/26	Bends Before Junction to Napple Road	Vehicle and load to both oversail and overrun the verge at various locations as shown on drawing 4172_ALRA_0060. The existing fence line will come into conflict with the vehicle.	Existing fence to be relocated to behind the oversail areas. Temporary overrun areas to be constructed as shown on drawing 4172_ALRA_0060.	Blade vehicle required similar oversail and overrun areas, however the tower vehicle will require a larger portion of fence line to be relocated.	Medium
PC/27 (A)	Glenmornan Road/Napple Road Junction	Vehicle and load to both oversail and overrun the verge at various locations as shown on drawing 4172_ALRA_0061. Creating conflicts with existing fencing and bridge parapets.	Temporary load bearing surface to be constructed to allow for the delivery vehicle to pass through the adjacent field. Conflicting fence lines to be relocated to behind the oversail areas. Conflicting bridge parapets to be demolished to allow for vehicle to pass	Bridge parapets will require removal to accommodate the tower section delivery.	High

Technical Appendix A13.1: Abnormal Load Route Assessment (ALRA)

			over the bridge, with a temporary surface to be created to allow vehicles to pass.		
PC/27 (B)	Glenmornan Road/Napple Road Junction	Vehicle and load to both oversail and overrun the verge at various locations as shown on drawing 4172_ALRA_0062. The vehicle will conflict with the existing fence line and sign posts located within the vicinity of the junction.	Conflicting fence lines to be relocated to behind the oversail areas. Conflicting signposts to be placed on temporary supports, to be removed on vehicles arrival. Temporary overrun areas to be constructed as shown on drawing 4172_ALRA_0062.	Blade vehicle required similar oversail and overrun areas, however the tower vehicle will require a larger portion of fence line to be relocated and larger overrun area at the junction.	Medium
PC/28	Napple Road – Access Junction into Turbine 13	Vehicle and load to both oversail and overrun the verge at various locations as shown on drawing 4172_ALRA_0063. The existing fence lines conflict with the vehicle on either side of the carriageway. Vehicle oversail on the east breaches the third party land barrier at multiple locations.	Existing fence to be relocated to behind the oversail areas. Temporary overrun areas to be constructed as shown on drawing 4172_ALRA_0063. Third party oversail permissions to be sought to allow for vehicle oversail.	Blade vehicle required similar oversail and overrun areas, however the blade vehicle will encroach further behind the third party land barrier.	High

4. CONCLUSION

4.1 Summary

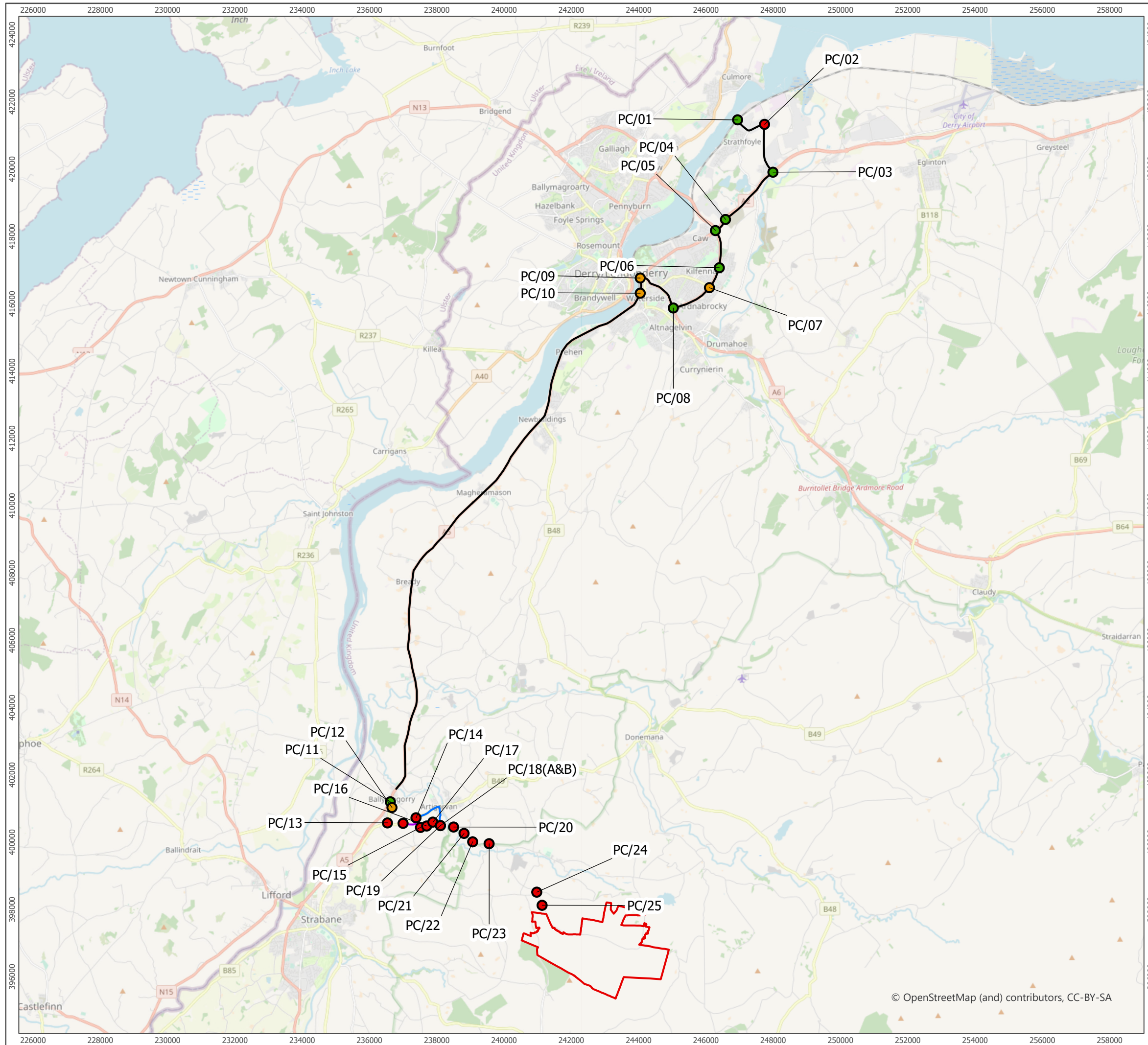
The delivery route was assessed for the candidate wind turbine blade and turbine tower section vehicles. A combined 64 points of constraint were identified regarding the delivery of both the turbine blade and tower sections. Five 'low risk' PCs were identified where no works will be required, 23 'medium risk' PCs were identified where works will be required within the public road boundary, and 36 'high risk' PCs were identified where works are required within third party land areas. Swept path analysis was conducted at each pinch point and details of required improvement works are presented in the drawings.

A further assessment was undertaken for the tower section. This assessment considered all PCs which were identified for the blade and assessed if any additional works would be required to facilitate delivery of the tower. There were a number of locations where additional works are required to facilitate delivery of the tower, these are principally due to the lower oversail height of the tower conflicting with above ground infrastructure (e.g., roundabout islands).

4.2 Recommendations for Further Work

Structural surveys may need to be undertaken along the route in order to establish weight limits. An abnormal indivisible loads application should be submitted to the relevant authority which will initiate consultations with all relevant parties and identify areas where further review is required. Further investigation work is required at 'medium risk' PCs to establish land boundaries and/or construction works required. Land boundaries at 'high risk' pinch points should also be established.

APPENDIX A ROUTE TO SITE



- Site Boundary
- Route to Site
- Route to Site Option B via Art/Sentry Road
- Route to Site Option C via Off Site Access Track
- Low Risk Pinch Point
- Medium Risk Pinch Point
- High Risk Pinch Point
- Site Boundary

1:110,000 Scale @ A3

Produced By: CR	Ref: 4172-REP-007
Checked By: KL	Date: 8/28/2023

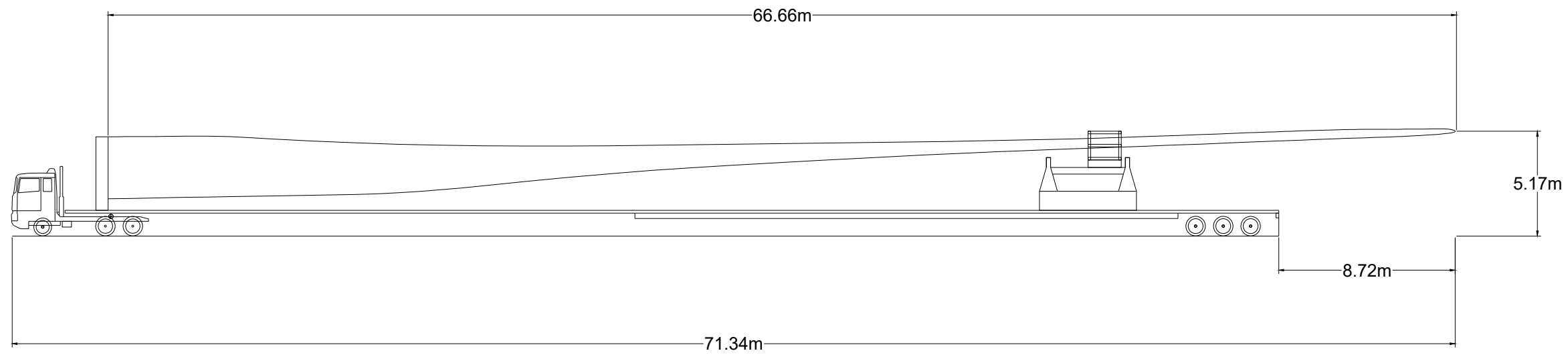
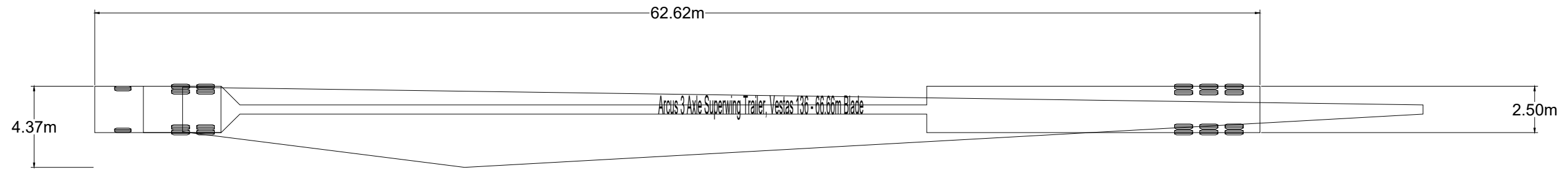
Route to Site
Figure A13.1.1

**Owenreagh / Craignagapple
Wind Farm
Abnormal Load Route Assessment**

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APPENDIX B VEHICLE DATA SHEETS

Plot Date : 17 July 2023 10:38:07
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Arcus 3 Axle Superwing Trailer, Vestas 136 - 66.66m Blade
 Overall Length 71.34m
 Overall Width 4.37m
 Overall Body Height 5.17m
 Min Body Ground Clearance 0.360m
 Max Track Width 2.740m
 Lock to lock time 6.00s
 Kerb to Kerb Turning Radius 6.600m

Project Title
**OWENREAGH / CRAIGNAGAPPLE WF
 ABNORMAL LOAD
 ROUTE ASSESSMENT**



Drawing Title
VEHICLE DATA SHEET

Purpose of issue FOR INFORMATION			
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ERM Internal Project No. 4172		Date 17/07/23	
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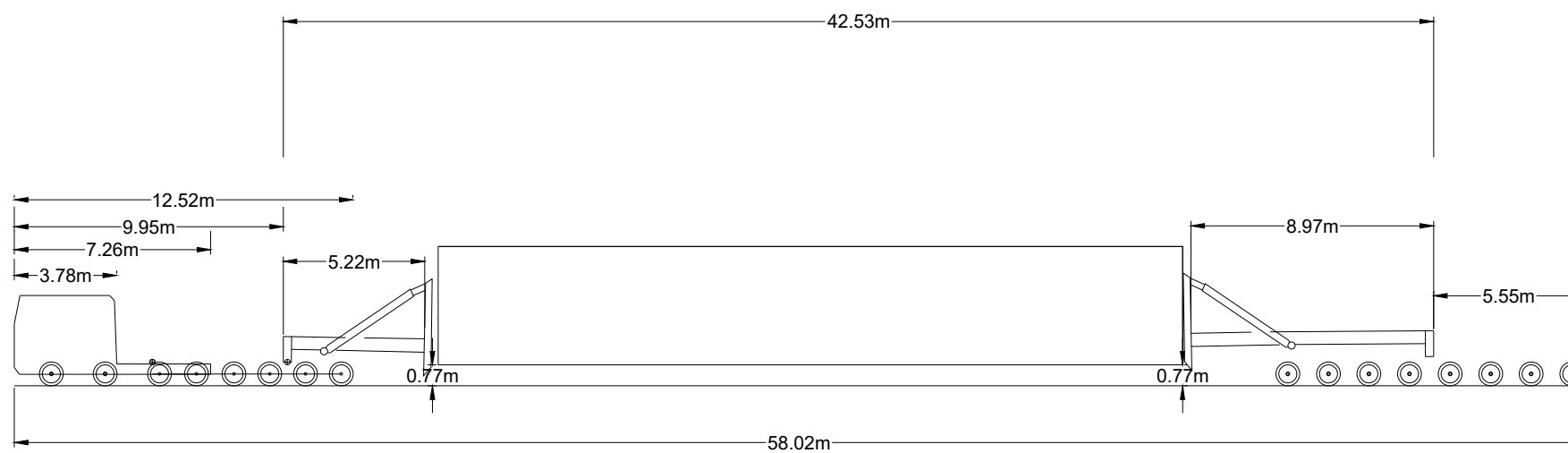
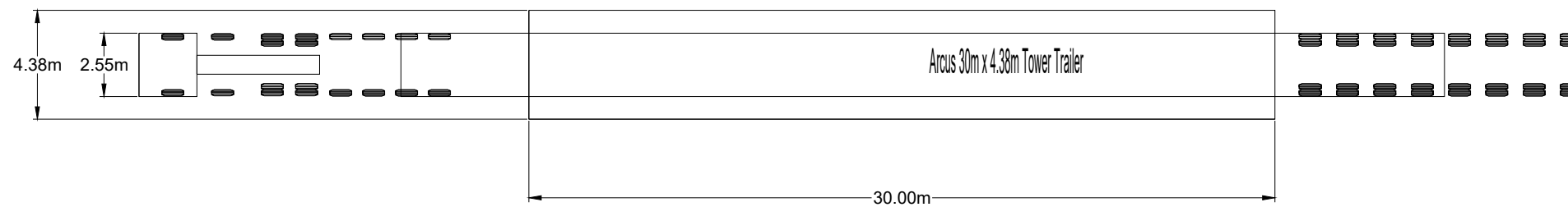
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Plot Date : 17 July 2023 11:53:03
File Name : Y:\PROJECTS\4172 OWENREAGH WIND FARM\CAD_DATA\01-WORKING\4172_ALR_0001 P4 - TOWER SECTION



Arcus 30m x 4.38m Tower Trailer	
Overall Length	58.02m
Overall Width	4.38m
Overall Body Height	5.15m
Min Body Ground Clearance	0.77m
Max Track Width	2.520m
Lock to lock time	6.00s
Wall to Wall Turning Radius	9.800m

Project Title	OWENREAGH / CRAIGNAGAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT
Client	

Drawing Title	VEHICLE DATA SHEET TOWER SECTION DELIVERY
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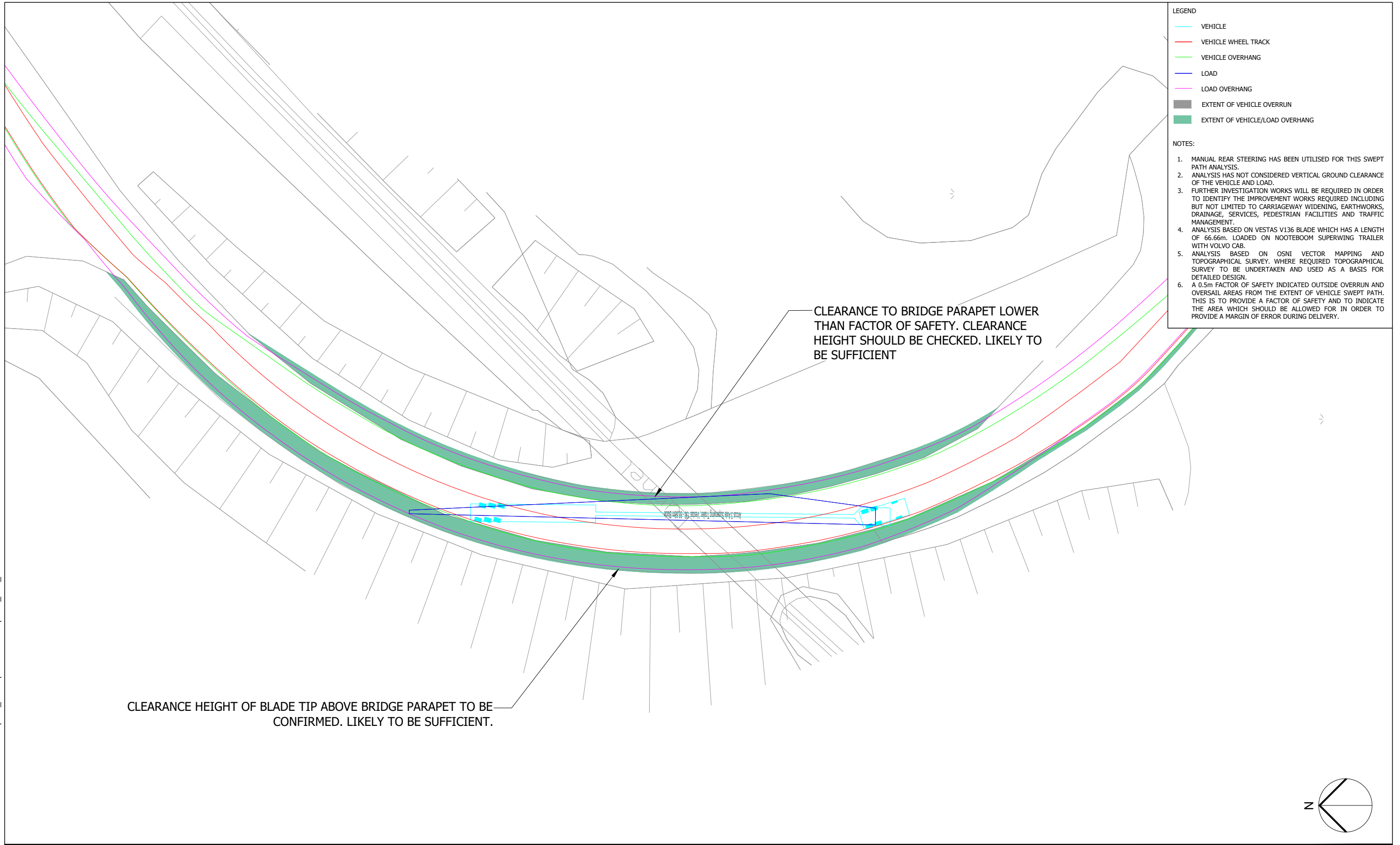
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APPENDIX C SWEPT PATH ANALYSIS DRAWINGS: BLADE DELIVERY

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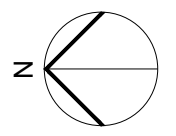


LEGEND

- VEHICLE
- VEHICLE WHEEL TRACK
- VEHICLE OVERHANG
- LOAD
- LOAD OVERHANG
- EXTENT OF VEHICLE OVERRUN
- EXTENT OF VEHICLE/LOAD OVERHANG

NOTES:

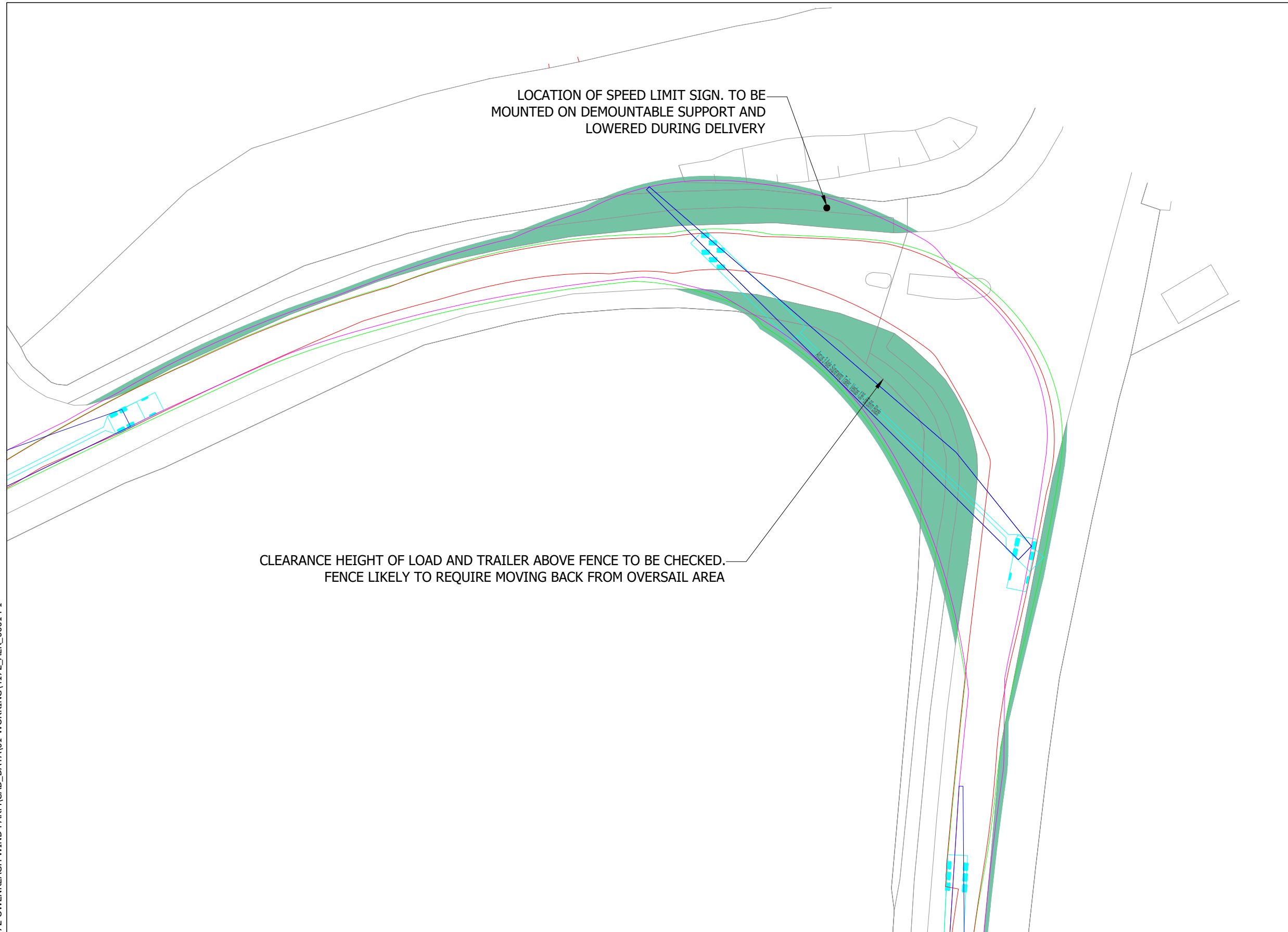
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2. ANALYSIS HAS NOT CONSIDERED VERTICAL GROUND CLEARANCE OF THE VEHICLE AND LOAD.
3. FURTHER INVESTIGATION WORKS WILL BE REQUIRED IN ORDER TO IDENTIFY THE IMPROVEMENT WORKS REQUIRED INCLUDING BUT NOT LIMITED TO CARRIAGEWAY WIDENING, EARTHWORKS, DRAINAGE, SERVICES, PEDESTRIAN FACILITIES AND TRAFFIC MANAGEMENT.
4. ANALYSIS BASED ON VESTAS V136 BLADE WHICH HAS A LENGTH OF 66.66m. LOADED ON NOOTEBOOM SUPERWING TRAILER WITH VOLVO CAB.
5. ANALYSIS BASED ON OSNI VECTOR MAPPING AND TOPOGRAPHICAL SURVEY. WHERE REQUIRED TOPOGRAPHICAL SURVEY TO BE UNDERTAKEN AND USED AS A BASIS FOR DETAILED DESIGN.
6. A 0.5m FACTOR OF SAFETY INDICATED OUTSIDE OVERRUN AND OVSAIL AREAS FROM THE EXTENT OF VEHICLE SWEEPED PATH. THIS IS TO PROVIDE A FACTOR OF SAFETY AND TO INDICATE THE AREA WHICH SHOULD BE ALLOWED FOR IN ORDER TO PROVIDE A MARGIN OF ERROR DURING DELIVERY.



Project Title OWENREAGH / CRAIGNAGAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title <p style="text-align: center;">PC 1</p> <p style="text-align: center;">PORT ROAD BEND OVER RAILWAY BRIDGE</p>	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com
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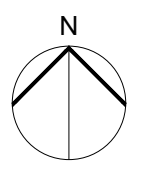




LEGEND

- VEHICLE
- VEHICLE WHEEL TRACK
- VEHICLE OVERHANG
- LOAD
- LOAD OVERHANG
- EXTENT OF VEHICLE OVERRUN
- EXTENT OF VEHICLE/LOAD OVERHANG

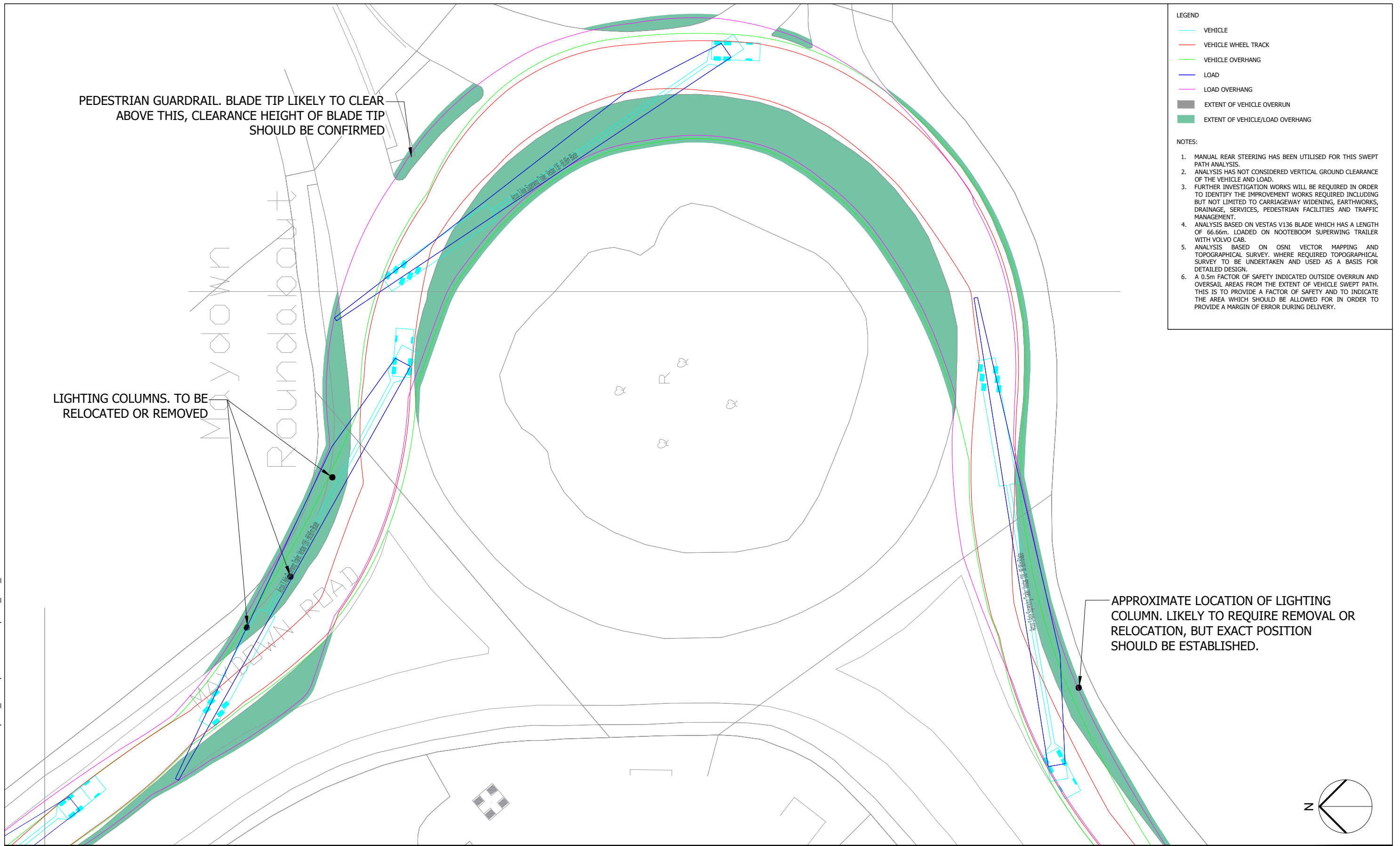
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4. ANALYSIS BASED ON VESTAS V136 BLADE WHICH HAS A LENGTH OF 66.66m. LOADED ON NOOTEBOOM SUPERWING TRAILER WITH VOLVO CAB.
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6. A 0.5m FACTOR OF SAFETY INDICATED OUTSIDE OVERRUN AND OVERSAIL AREAS FROM THE EXTENT OF VEHICLE SWEEP PATH. THIS IS TO PROVIDE A FACTOR OF SAFETY AND TO INDICATE THE AREA WHICH SHOULD BE ALLOWED FOR IN ORDER TO PROVIDE A MARGIN OF ERROR DURING DELIVERY.



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LEGEND

- VEHICLE
- VEHICLE WHEEL TRACK
- VEHICLE OVERHANG
- LOAD
- LOAD OVERHANG
- EXTENT OF VEHICLE OVERRUN
- EXTENT OF VEHICLE/LOAD OVERHANG

NOTES:

1. MANUAL REAR STEERING HAS BEEN UTILISED FOR THIS SWEEP PATH ANALYSIS.
2. ANALYSIS HAS NOT CONSIDERED VERTICAL GROUND CLEARANCE OF THE VEHICLE AND LOAD.
3. FURTHER INVESTIGATION WORKS WILL BE REQUIRED IN ORDER TO IDENTIFY THE IMPROVEMENT WORKS REQUIRED INCLUDING BUT NOT LIMITED TO CARRIAGEWAY WIDENING, EARTHWORKS, DRAINAGE, SERVICES, PEDESTRIAN FACILITIES AND TRAFFIC MANAGEMENT.
4. ANALYSIS BASED ON VESTAS V136 BLADE WHICH HAS A LENGTH OF 66.66m. LOADED ON NOOTEBOOM SUPERWING TRAILER WITH VOLVO CAB.
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6. A 0.5m FACTOR OF SAFETY INDICATED OUTSIDE OVERRUN AND OVERSAIL AREAS FROM THE EXTENT OF VEHICLE SWEEP PATH. THIS IS TO PROVIDE A FACTOR OF SAFETY AND TO INDICATE THE AREA WHICH SHOULD BE ALLOWED FOR IN ORDER TO PROVIDE A MARGIN OF ERROR DURING DELIVERY.

Project Title
**OWENREAGH / CRAIGNAGNAPPLE WF
ABNORMAL LOAD
ROUTE ASSESSMENT**

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Drawing Title
**PC 3
MAYDOWN ROUNDABOUT**

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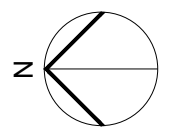
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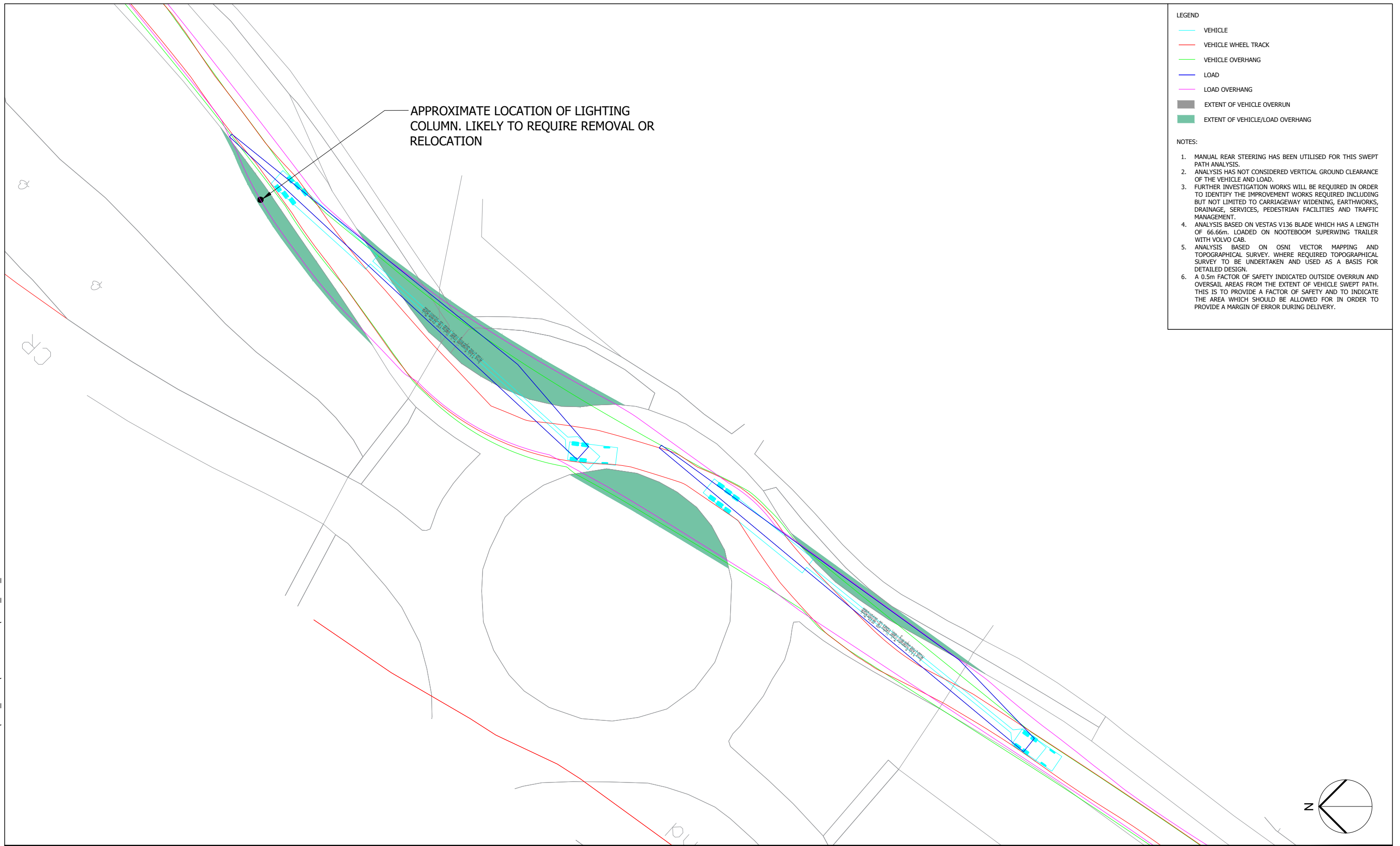
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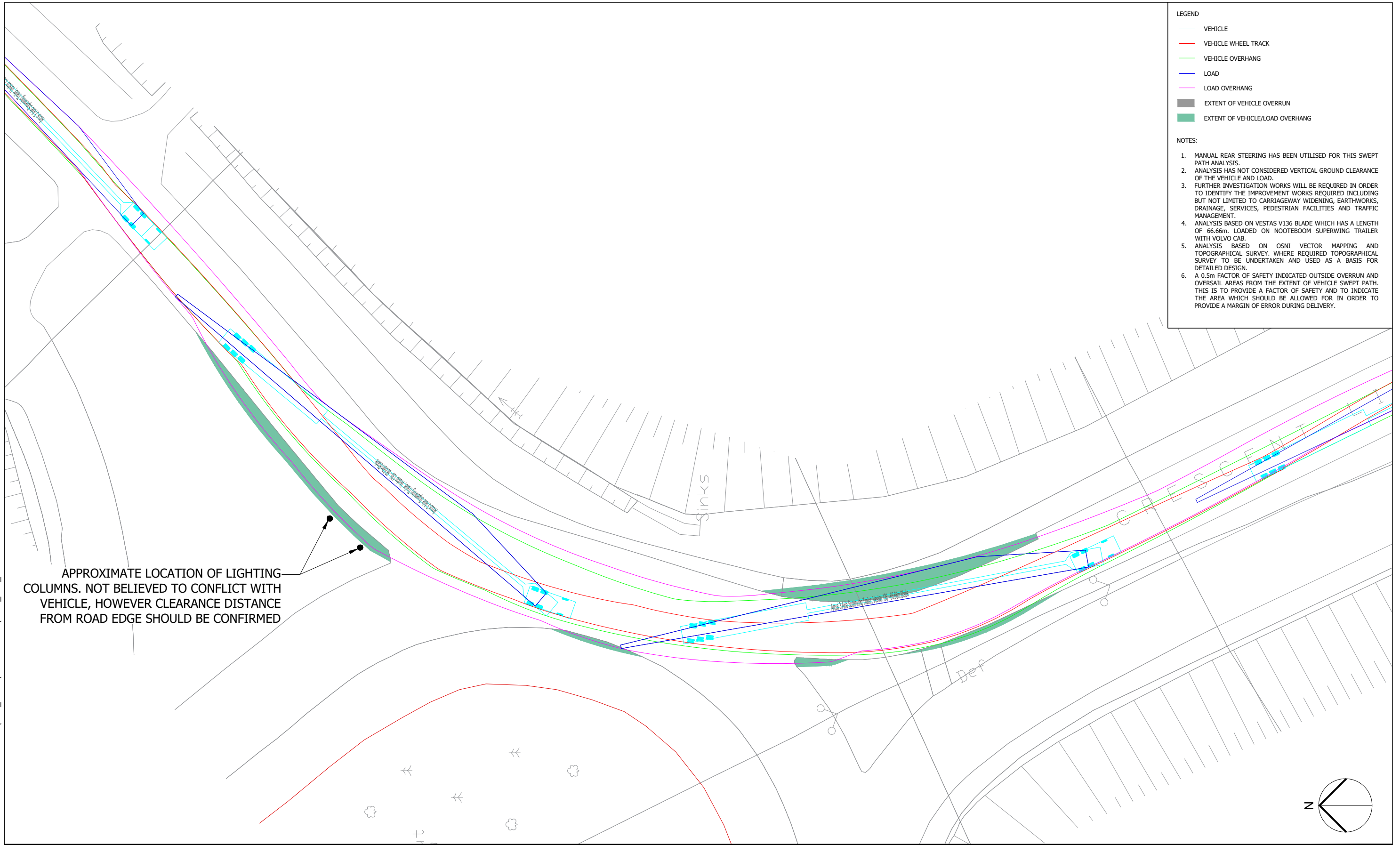


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Project Title OWENREAGH / CRAIGNAGNAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT		Drawing Title PC 04 GRANSHA ROUNDABOUT		Purpose of issue FOR INFORMATION		THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED		Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com	
Client 		ERM Internal Project No. 4172 Scale @ A3 1:500		Designed KL Drawn KL Checked TAT Approved TAT		Date 17/07/23		Drawing Number 4172_ALR_0004	
						Rev -			

Plot Date: 17 July 2023 09:56:22
File Name: Y:\PROJECTS\4172 OWENREAGH WIND FARM\CAD_DATA\01-WORKING\4172_ALR_0001.P1



APPROXIMATE LOCATION OF LIGHTING COLUMNS. NOT BELIEVED TO CONFLICT WITH VEHICLE, HOWEVER CLEARANCE DISTANCE FROM ROAD EDGE SHOULD BE CONFIRMED

Project Title OWENREAGH / CRAIGNAGAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title PC 05 CAW ROUNDABOUT	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com	
		Designed KL	Drawn KL	Checked TAT	Approved TAT			
Client 		ERM Internal Project No. 4172	Date 17/07/23					
		Scale @ A3 1:500						

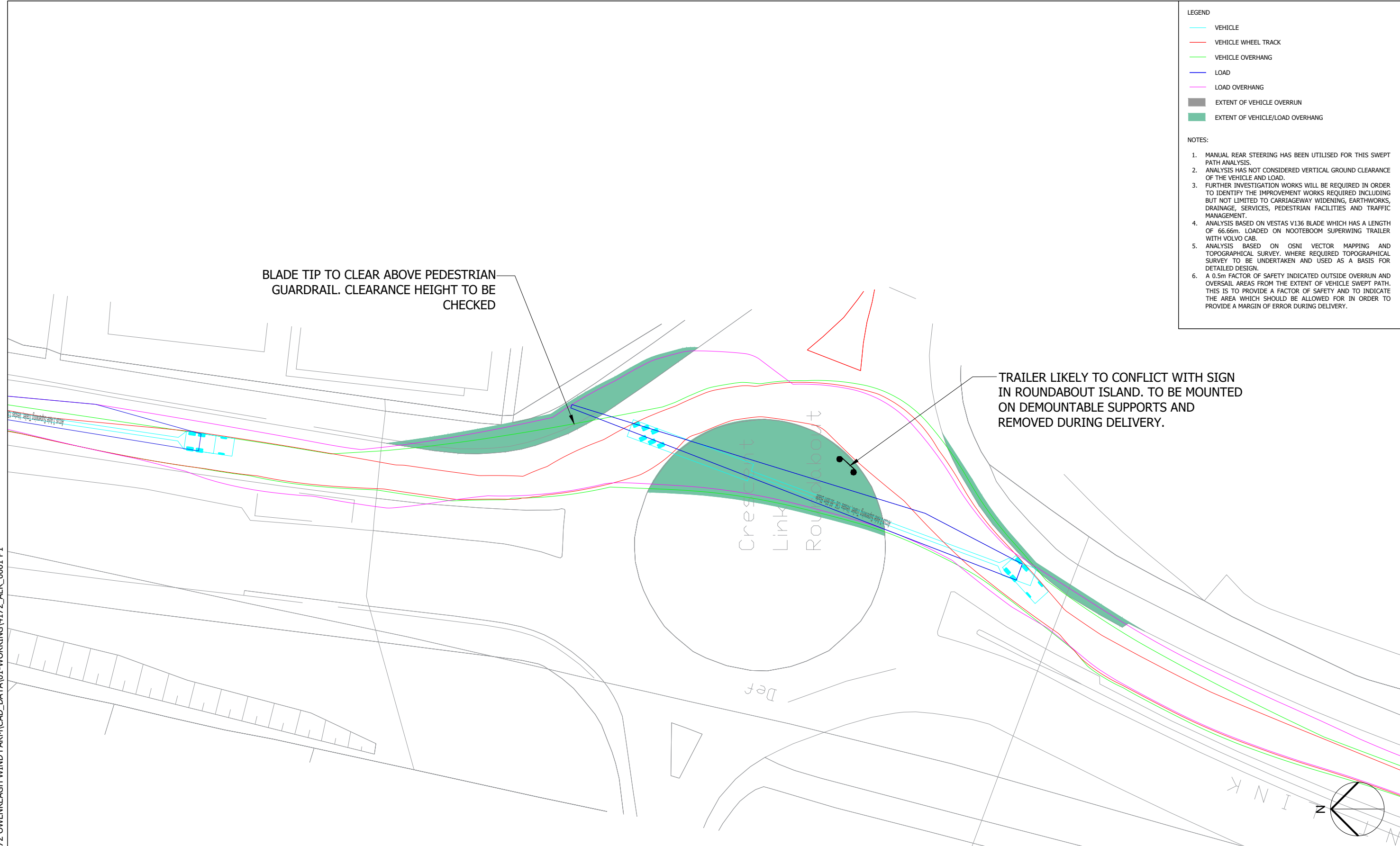
LEGEND

	VEHICLE
	VEHICLE WHEEL TRACK
	VEHICLE OVERHANG
	LOAD
	LOAD OVERHANG
	EXTENT OF VEHICLE OVERRUN
	EXTENT OF VEHICLE/LOAD OVERHANG

- NOTES:
1. MANUAL REAR STEERING HAS BEEN UTILISED FOR THIS SWEEP PATH ANALYSIS.
 2. ANALYSIS HAS NOT CONSIDERED VERTICAL GROUND CLEARANCE OF THE VEHICLE AND LOAD.
 3. FURTHER INVESTIGATION WORKS WILL BE REQUIRED IN ORDER TO IDENTIFY THE IMPROVEMENT WORKS REQUIRED INCLUDING BUT NOT LIMITED TO CARRIAGEWAY WIDENING, EARTHWORKS, DRAINAGE, SERVICES, PEDESTRIAN FACILITIES AND TRAFFIC MANAGEMENT.
 4. ANALYSIS BASED ON VESTAS V136 BLADE WHICH HAS A LENGTH OF 66.66m. LOADED ON NOOTEBOOM SUPERWING TRAILER WITH VOLVO CAB.
 5. ANALYSIS BASED ON OSNI VECTOR MAPPING AND TOPOGRAPHICAL SURVEY. WHERE REQUIRED TOPOGRAPHICAL SURVEY TO BE UNDERTAKEN AND USED AS A BASIS FOR DETAILED DESIGN.
 6. A 0.5m FACTOR OF SAFETY INDICATED OUTSIDE OVERRUN AND OVERSAIL AREAS FROM THE EXTENT OF VEHICLE SWEEP PATH. THIS IS TO PROVIDE A FACTOR OF SAFETY AND TO INDICATE THE AREA WHICH SHOULD BE ALLOWED FOR IN ORDER TO PROVIDE A MARGIN OF ERROR DURING DELIVERY.

BLADE TIP TO CLEAR ABOVE PEDESTRIAN GUARDRAIL. CLEARANCE HEIGHT TO BE CHECKED

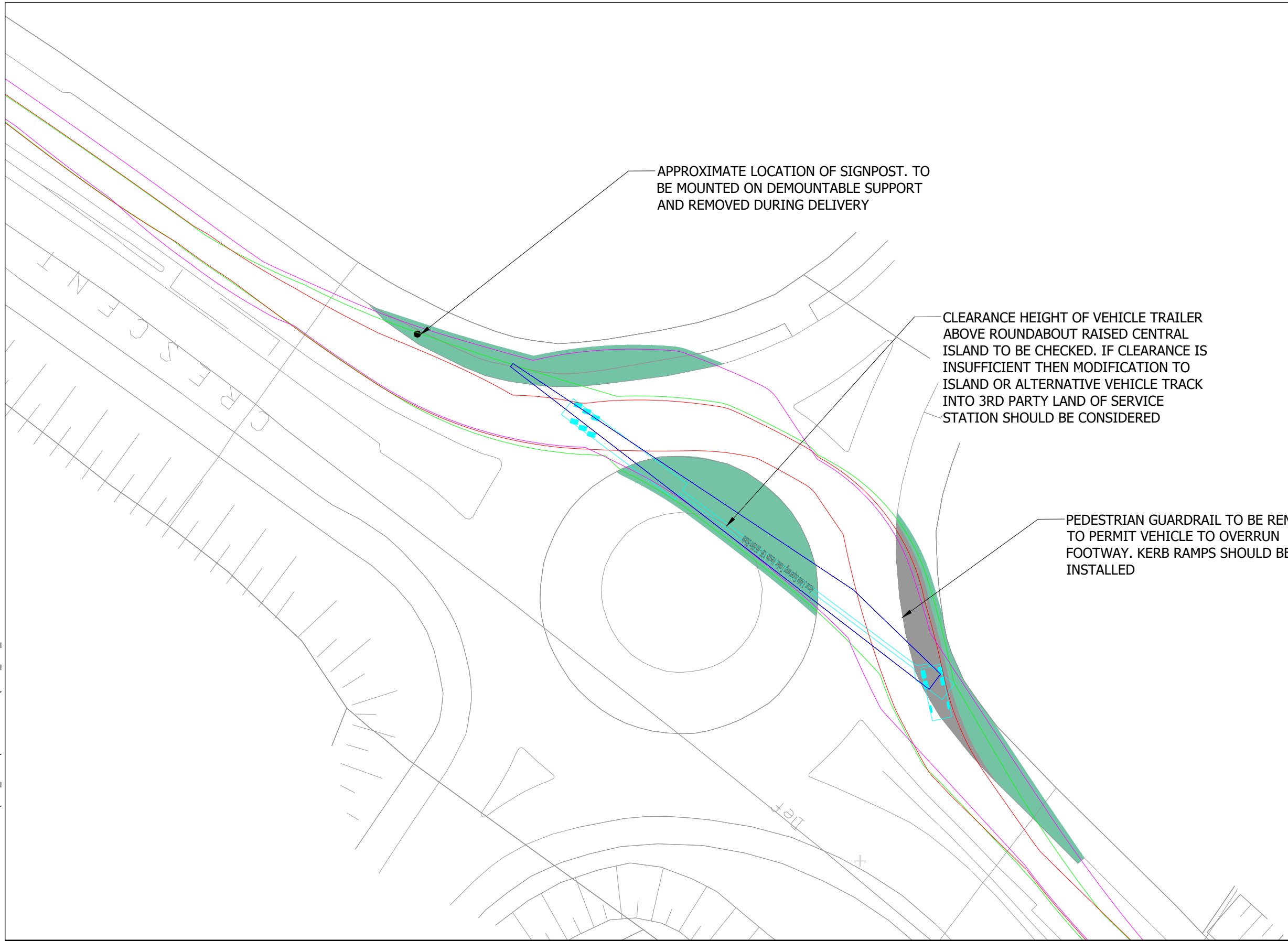
TRAILER LIKELY TO CONFLICT WITH SIGN IN ROUNDABOUT ISLAND. TO BE MOUNTED ON DEMOUNTABLE SUPPORTS AND REMOVED DURING DELIVERY.



Plot Date: 17 July 2023 09:56:32
File Name: Y:\PROJECTS\4172 OWENREAGH WIND FARM\CAD_DATA\01-WORKING\4172_ALR_0001.P1

Project Title OWENREAGH / CRAIGNAGNAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title PC 06 CRESCENT LINK ROUNDABOUT	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com	
		Designed KL	Drawn KL	Checked TAT	Approved TAT			
Client 		ERM Internal Project No. 4172	Date 17/07/23					
		Scale @ A3 1:500						

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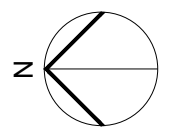


LEGEND

- VEHICLE
- VEHICLE WHEEL TRACK
- VEHICLE OVERHANG
- LOAD
- LOAD OVERHANG
- EXTENT OF VEHICLE OVERRUN
- EXTENT OF VEHICLE/LOAD OVERHANG

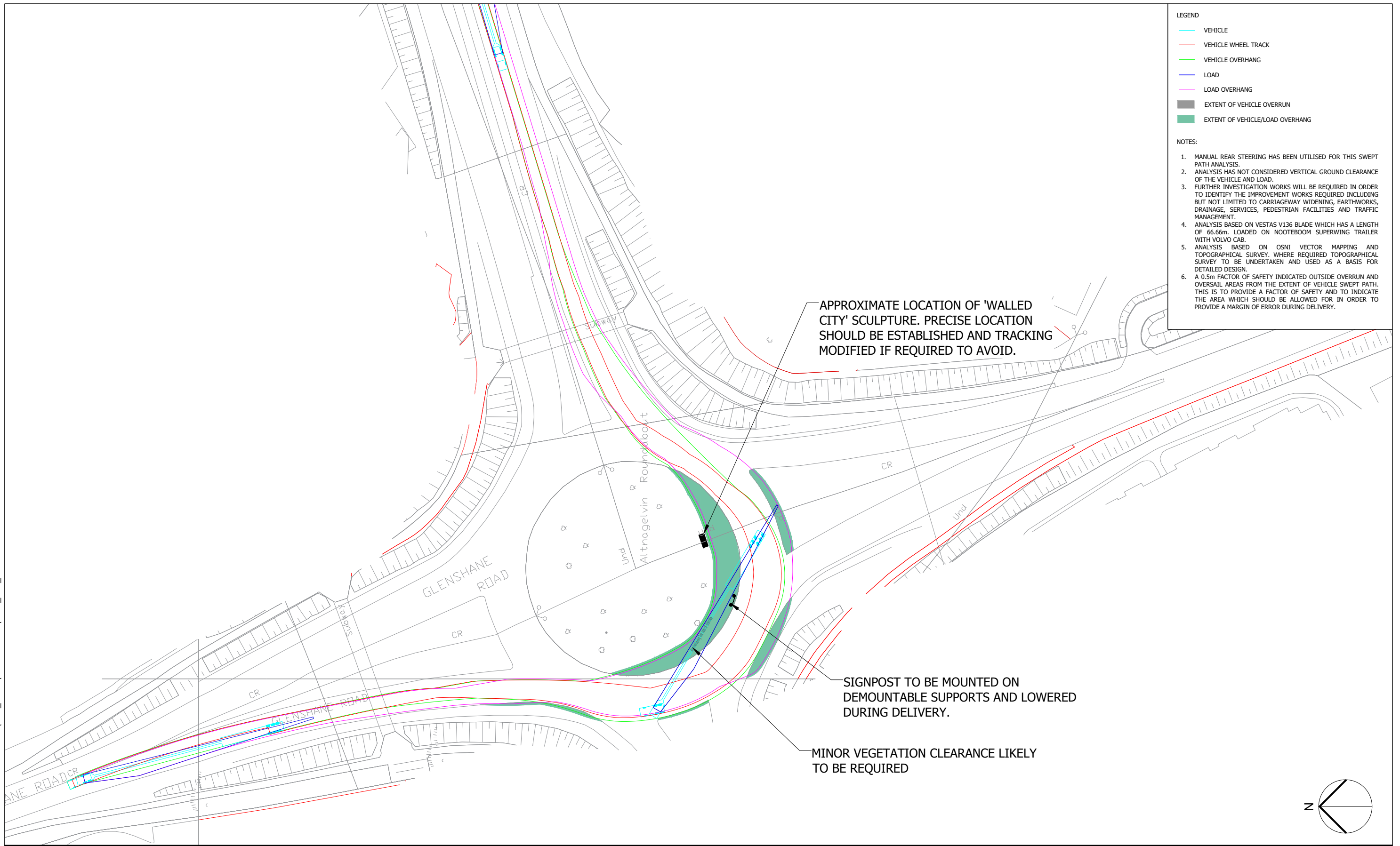
NOTES:

1. MANUAL REAR STEERING HAS BEEN UTILISED FOR THIS SWEEP PATH ANALYSIS.
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Project Title OWENREAGH / CRAIGNAGAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT		Drawing Title PC 07 KILFENNAN ROUNDABOUT		Purpose of issue FOR INFORMATION		THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED		Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com															
Client 				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Designed KL</td> <td style="width: 25%;">Drawn KL</td> <td style="width: 25%;">Checked TAT</td> <td style="width: 25%;">Approved TAT</td> </tr> <tr> <td colspan="2">ERM Internal Project No. 4172</td> <td colspan="2">Date 17/07/23</td> </tr> <tr> <td colspan="2">Scale @ A3 1:500</td> <td colspan="2"></td> </tr> </table>		Designed KL	Drawn KL	Checked TAT	Approved TAT	ERM Internal Project No. 4172		Date 17/07/23		Scale @ A3 1:500				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">Drawing Number 4172_ALR_0007</td> <td style="width: 30%;">Rev -</td> </tr> </table>		Drawing Number 4172_ALR_0007	Rev -		
Designed KL	Drawn KL	Checked TAT	Approved TAT																				
ERM Internal Project No. 4172		Date 17/07/23																					
Scale @ A3 1:500																							
Drawing Number 4172_ALR_0007	Rev -																						

Plot Date: 17 July 2023 09:56:51
File Name: Y:\PROJECTS\4172 OWENREAGH WIND FARM\CAD_DATA\01-WORKING\4172_ALR_0001.P1



LEGEND

- VEHICLE
- VEHICLE WHEEL TRACK
- VEHICLE OVERHANG
- LOAD
- LOAD OVERHANG
- EXTENT OF VEHICLE OVERRUN
- EXTENT OF VEHICLE/LOAD OVERHANG

NOTES:

1. MANUAL REAR STEERING HAS BEEN UTILISED FOR THIS SWEEPED PATH ANALYSIS.
2. ANALYSIS HAS NOT CONSIDERED VERTICAL GROUND CLEARANCE OF THE VEHICLE AND LOAD.
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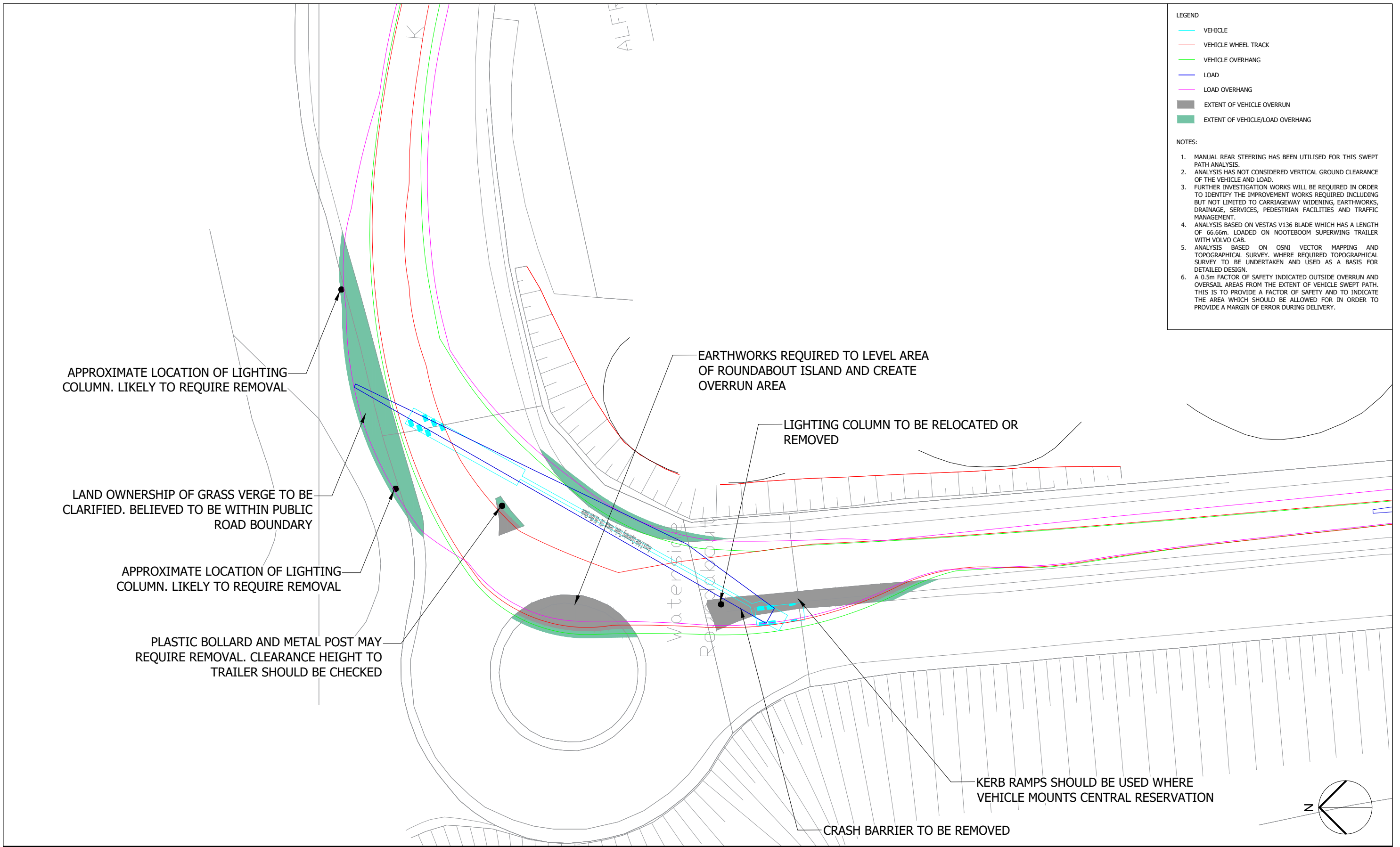
APPROXIMATE LOCATION OF 'WALLED CITY' SCULPTURE. PRECISE LOCATION SHOULD BE ESTABLISHED AND TRACKING MODIFIED IF REQUIRED TO AVOID.

SIGNPOST TO BE MOUNTED ON DEMOUNTABLE SUPPORTS AND LOWERED DURING DELIVERY.

MINOR VEGETATION CLEARANCE LIKELY TO BE REQUIRED

Project Title OWENREAGH / CRAIGNAGNAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT		Drawing Title PC 08 ALTNAGELVIN ROUNDABOUT		Purpose of issue FOR INFORMATION		THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED		Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com															
Client 				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Designed KL</td> <td style="width: 25%;">Drawn KL</td> <td style="width: 25%;">Checked TAT</td> <td style="width: 25%;">Approved TAT</td> </tr> <tr> <td colspan="2">ERM Internal Project No. 4172</td> <td colspan="2">Date 17/07/23</td> </tr> <tr> <td colspan="4">Scale @ A3 1:1000</td> </tr> </table>		Designed KL	Drawn KL	Checked TAT	Approved TAT	ERM Internal Project No. 4172		Date 17/07/23		Scale @ A3 1:1000				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">Drawing Number 4172_ALR_0008</td> <td style="width: 30%;">Rev -</td> </tr> </table>		Drawing Number 4172_ALR_0008	Rev -		
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Drawing Number 4172_ALR_0008	Rev -																						

Plot Date: 17 July 2023 09:57:02
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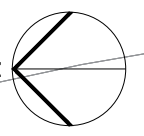
LEGEND

- VEHICLE
- VEHICLE WHEEL TRACK
- VEHICLE OVERHANG
- LOAD
- LOAD OVERHANG
- EXTENT OF VEHICLE OVERRUN
- EXTENT OF VEHICLE/LOAD OVERHANG

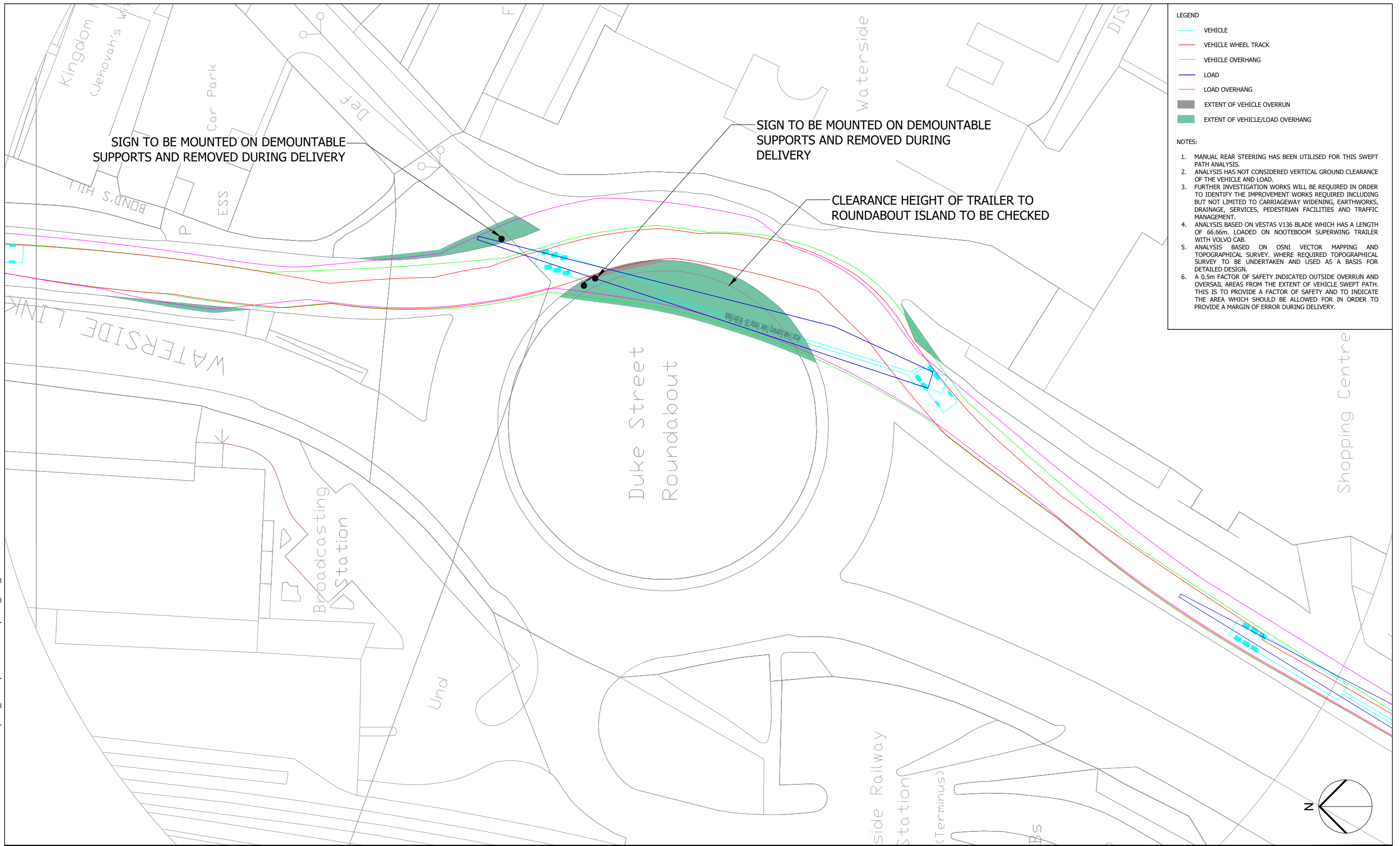
NOTES:

1. MANUAL REAR STEERING HAS BEEN UTILISED FOR THIS SWEEP PATH ANALYSIS.
2. ANALYSIS HAS NOT CONSIDERED VERTICAL GROUND CLEARANCE OF THE VEHICLE AND LOAD.
3. FURTHER INVESTIGATION WORKS WILL BE REQUIRED IN ORDER TO IDENTIFY THE IMPROVEMENT WORKS REQUIRED INCLUDING BUT NOT LIMITED TO CARRIAGEWAY WIDENING, EARTHWORKS, DRAINAGE, SERVICES, PEDESTRIAN FACILITIES AND TRAFFIC MANAGEMENT.
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Project Title OWENREAGH / CRAIGNAGNAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title PC 09 WATERSIDE ROUNDABOUT	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM)	
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Client 		ERM Internal Project No. 4172		Date 17/07/23				
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LEGEND

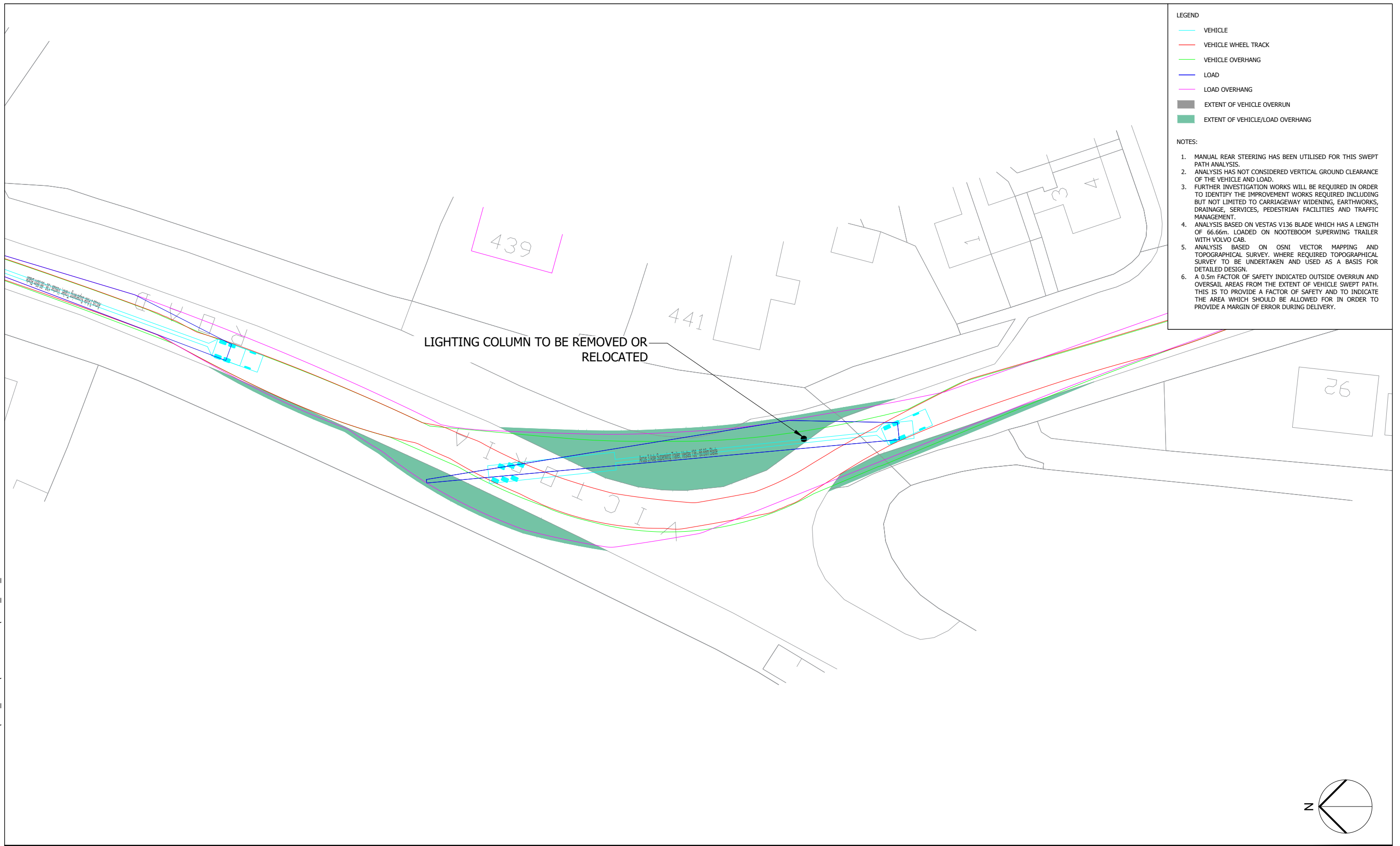
- VEHICLE
- VEHICLE WHEEL TRACK
- VEHICLE OVERHANG
- LOAD
- LOAD OVERHANG
- EXTENT OF VEHICLE OVERRUN
- EXTENT OF VEHICLE/LOAD OVERHANG

NOTES:

1. MANUAL REAR STEERING HAS BEEN UTILISED FOR THIS SWEEPED PATH ANALYSIS.
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Project Title OWENREAGH / CRAIGNAGAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title PC 10 DUKE STREET ROUNDABOUT	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM)	
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Client 		ERM Internal Project No. 4172		Date 17/07/23		Drawing Number 4172_ALR_0010	Rev -	

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LEGEND

- VEHICLE
- VEHICLE WHEEL TRACK
- VEHICLE OVERHANG
- LOAD
- LOAD OVERHANG
- EXTENT OF VEHICLE OVERRUN
- EXTENT OF VEHICLE/LOAD OVERHANG

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LIGHTING COLUMN TO BE REMOVED OR RELOCATED

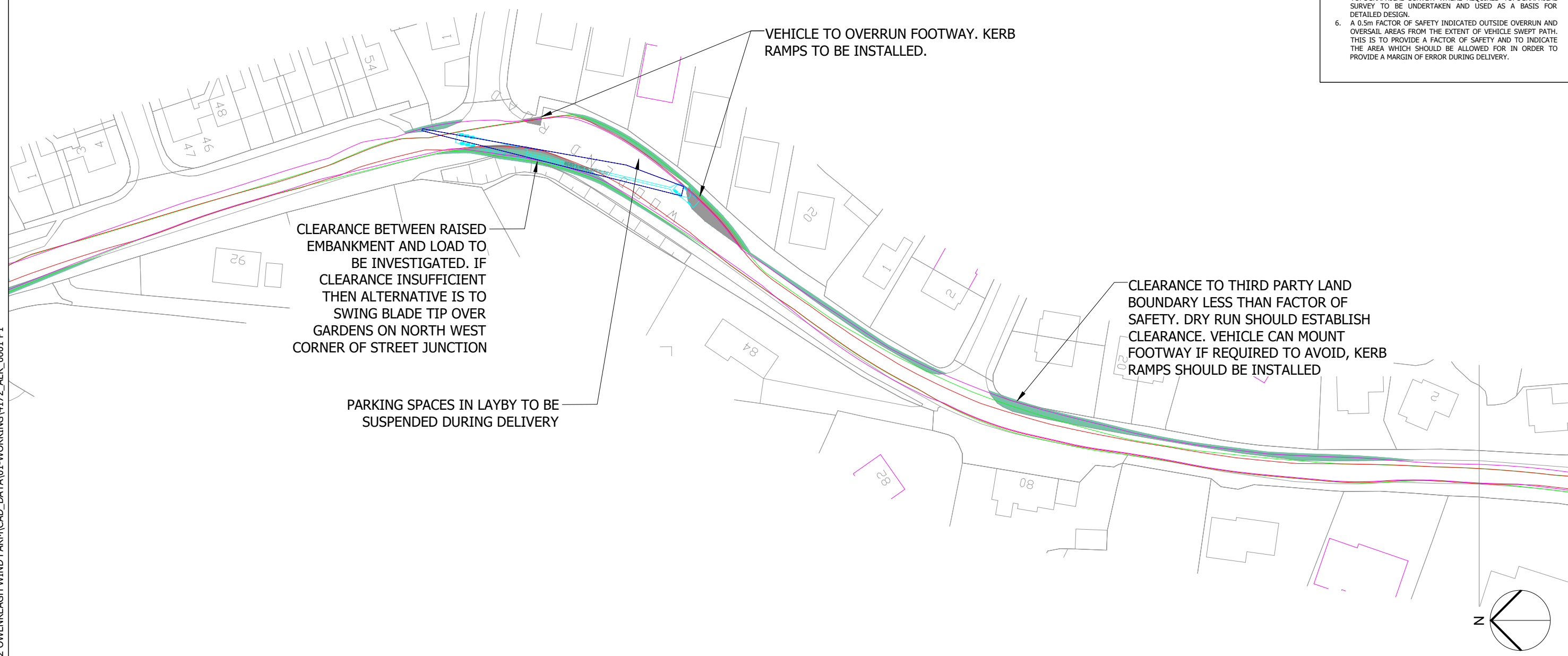
Project Title OWENREAGH / CRAIGNAGAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title <p style="text-align: center;">PC 11 A5 / WOODEND ROAD JUNCTION BALLYMAGORY</p>	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 7th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com
		Designed KL	Drawn KL	Checked TAT	Approved TAT		
Client 							

LEGEND

- VEHICLE
- VEHICLE WHEEL TRACK
- VEHICLE OVERHANG
- LOAD
- LOAD OVERHANG
- EXTENT OF VEHICLE OVERRUN
- EXTENT OF VEHICLE/LOAD OVERHANG

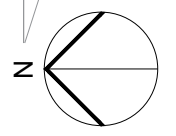
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Plot Date: 17 July 2023 09:57:32
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Project Title OWENREAGH / CRAIGNAGNAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title <p style="text-align: center;">PC 12 WOODEND ROAD BALLYMAGORY</p>	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com
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Client 		ERM Internal Project No. 4172	Date 17/07/23				
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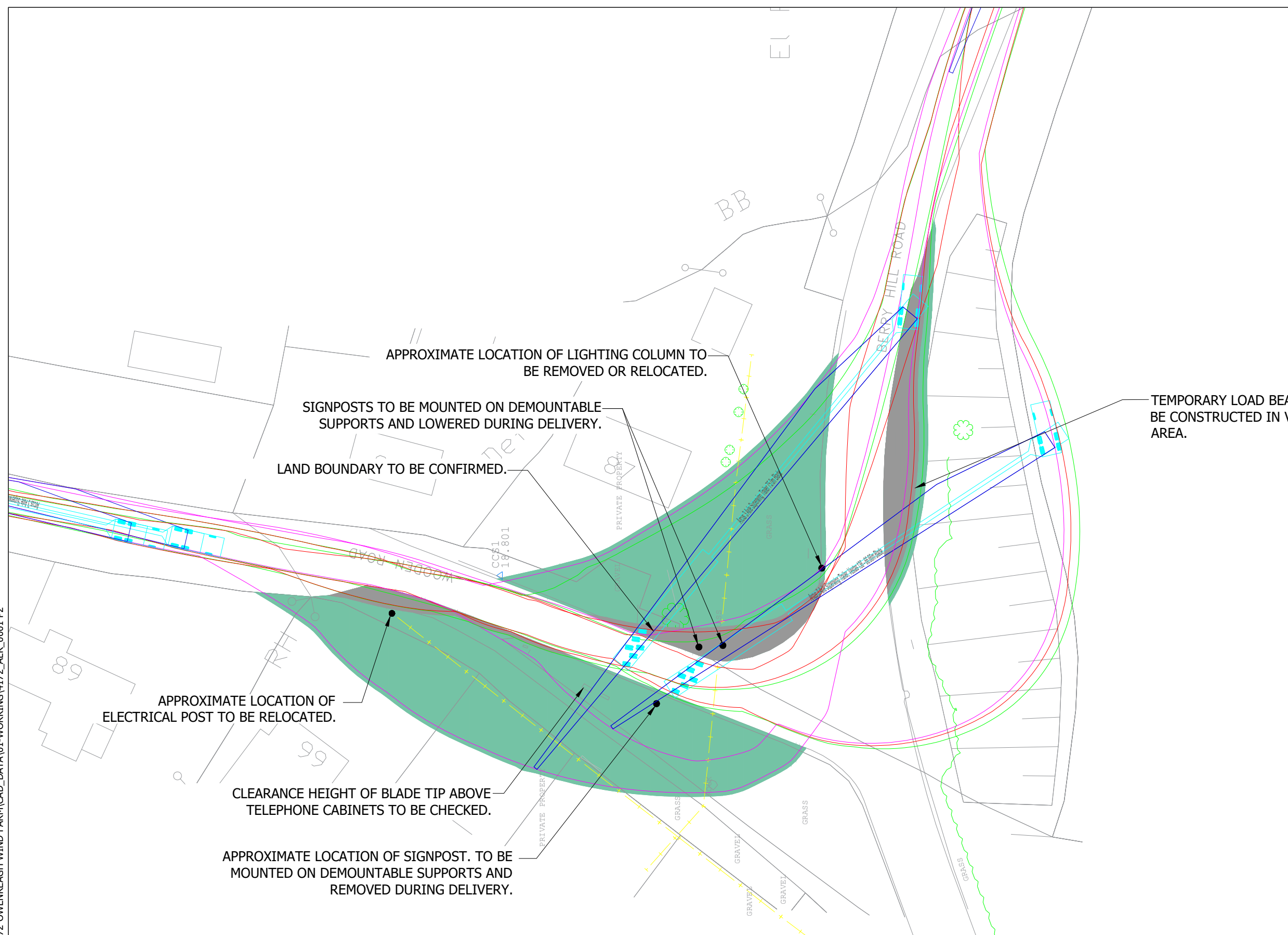


LEGEND

- VEHICLE
- VEHICLE WHEEL TRACK
- VEHICLE OVERHANG
- LOAD
- LOAD OVERHANG
- EXTENT OF VEHICLE OVERRUN
- EXTENT OF VEHICLE/LOAD OVERHANG

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APPROXIMATE LOCATION OF LIGHTING COLUMN TO BE REMOVED OR RELOCATED.

SIGNPOSTS TO BE MOUNTED ON DEMOUNTABLE SUPPORTS AND LOWERED DURING DELIVERY.

LAND BOUNDARY TO BE CONFIRMED.

TEMPORARY LOAD BEARING SURFACE TO BE CONSTRUCTED IN VEHICLE OVERRUN AREA.

APPROXIMATE LOCATION OF ELECTRICAL POST TO BE RELOCATED.

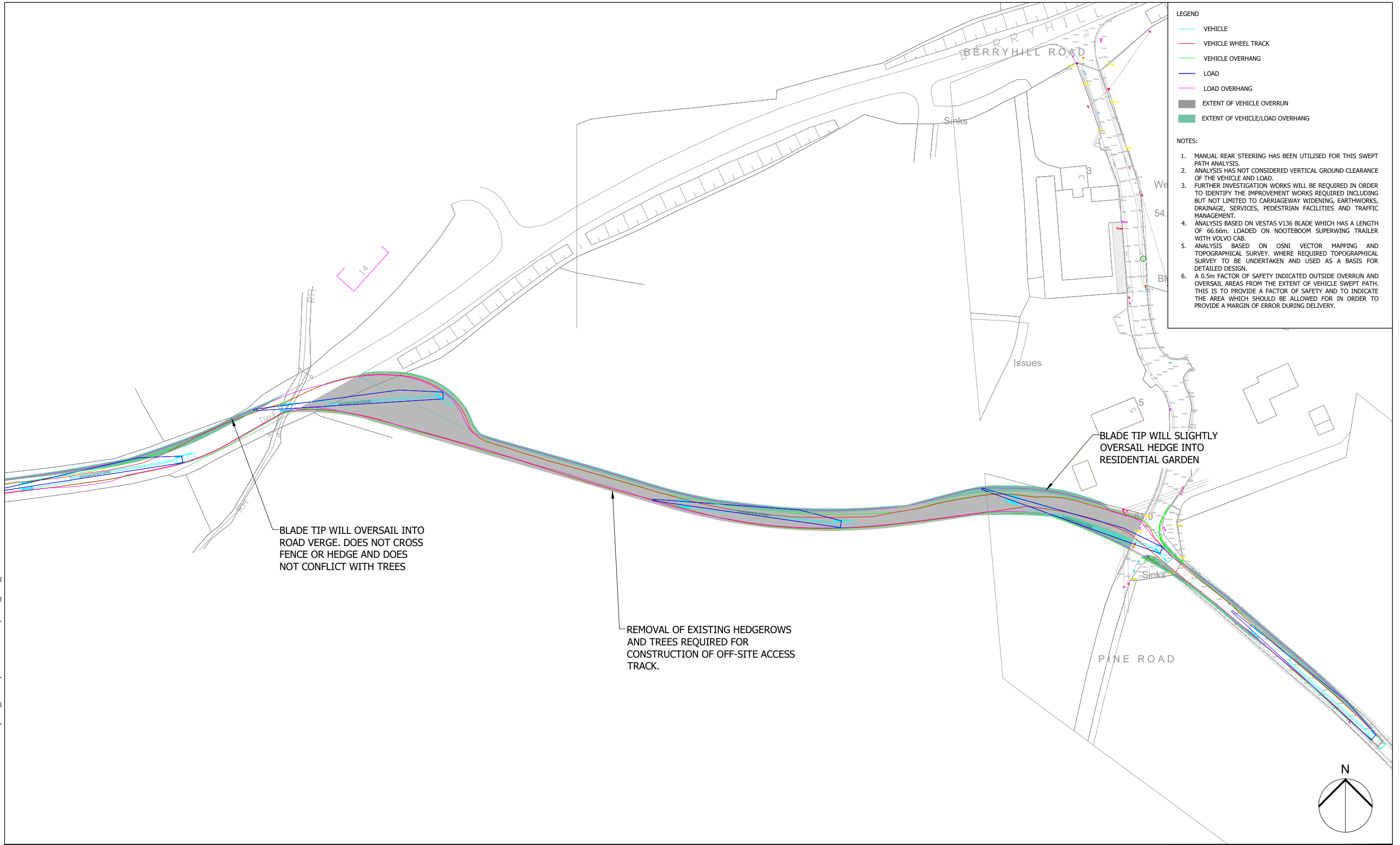
CLEARANCE HEIGHT OF BLADE TIP ABOVE TELEPHONE CABINETS TO BE CHECKED.

APPROXIMATE LOCATION OF SIGNPOST. TO BE MOUNTED ON DEMOUNTABLE SUPPORTS AND REMOVED DURING DELIVERY.

Plot Date : 17 July 2023 10:02:40
File Name : Y:\PROJECTS\4172 OWENREAGH WIND FARM\CAD_DATA\01-WORKING\4172_ALR_0001.P2

Project Title OWENREAGH / CRAIGNAGAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title PC 13 / OPTION 2 WOODEND ROAD/ BERRYHILL ROAD JUNCTION, BALLYMAGORY	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com
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Client 		ERM Internal Project No. 4172		Date 17/07/23		Rev -	

Plot Date : 17 July 2023 10:03:12
 File Name : Y:\PROJECTS\4172 OWENREAGH WIND FARM\CAD_DATA\01-WORKING\4172_ALR_0001_P2



LEGEND

- VEHICLE
- VEHICLE WHEEL TRACK
- VEHICLE OVERHANG
- LOAD
- LOAD OVERHANG
- EXTENT OF VEHICLE OVERRUN
- EXTENT OF VEHICLE/LOAD OVERHANG



NOTES:

1. MANUAL REAR STEERING HAS BEEN UTILISED FOR THIS SWEEPED PATH ANALYSIS.
2. ANALYSIS HAS NOT CONSIDERED VERTICAL GROUND CLEARANCE OF THE VEHICLE AND LOAD.
3. FURTHER INVESTIGATION WORKS WILL BE REQUIRED IN ORDER TO IDENTIFY THE IMPROVEMENT WORKS REQUIRED INCLUDING BUT NOT LIMITED TO CARRIAGEWAY WIDENING, EARTHWORKS, DRAINAGE, SERVICES, PEDESTRIAN FACILITIES AND TRAFFIC MANAGEMENT.
4. ANALYSIS BASED ON VESTAS V136 BLADE WHICH HAS A LENGTH OF 66.66m. LOADED ON NOOTEBOOM SUPERWING TRAILER WITH VOLVO CAB.
5. ANALYSIS BASED ON OSNI VECTOR MAPPING AND TOPOGRAPHICAL SURVEY. WHERE REQUIRED TOPOGRAPHICAL SURVEY TO BE UNDERTAKEN AND USED AS A BASIS FOR DETAILED DESIGN.
6. A 0.5m FACTOR OF SAFETY INDICATED OUTSIDE OVERRUN AND OVERRUN AREAS FROM THE EXTENT OF VEHICLE SWEEPED PATH. THIS IS TO PROVIDE A FACTOR OF SAFETY AND TO INDICATE THE AREA WHICH SHOULD BE ALLOWED FOR IN ORDER TO PROVIDE A MARGIN OF ERROR DURING DELIVERY.

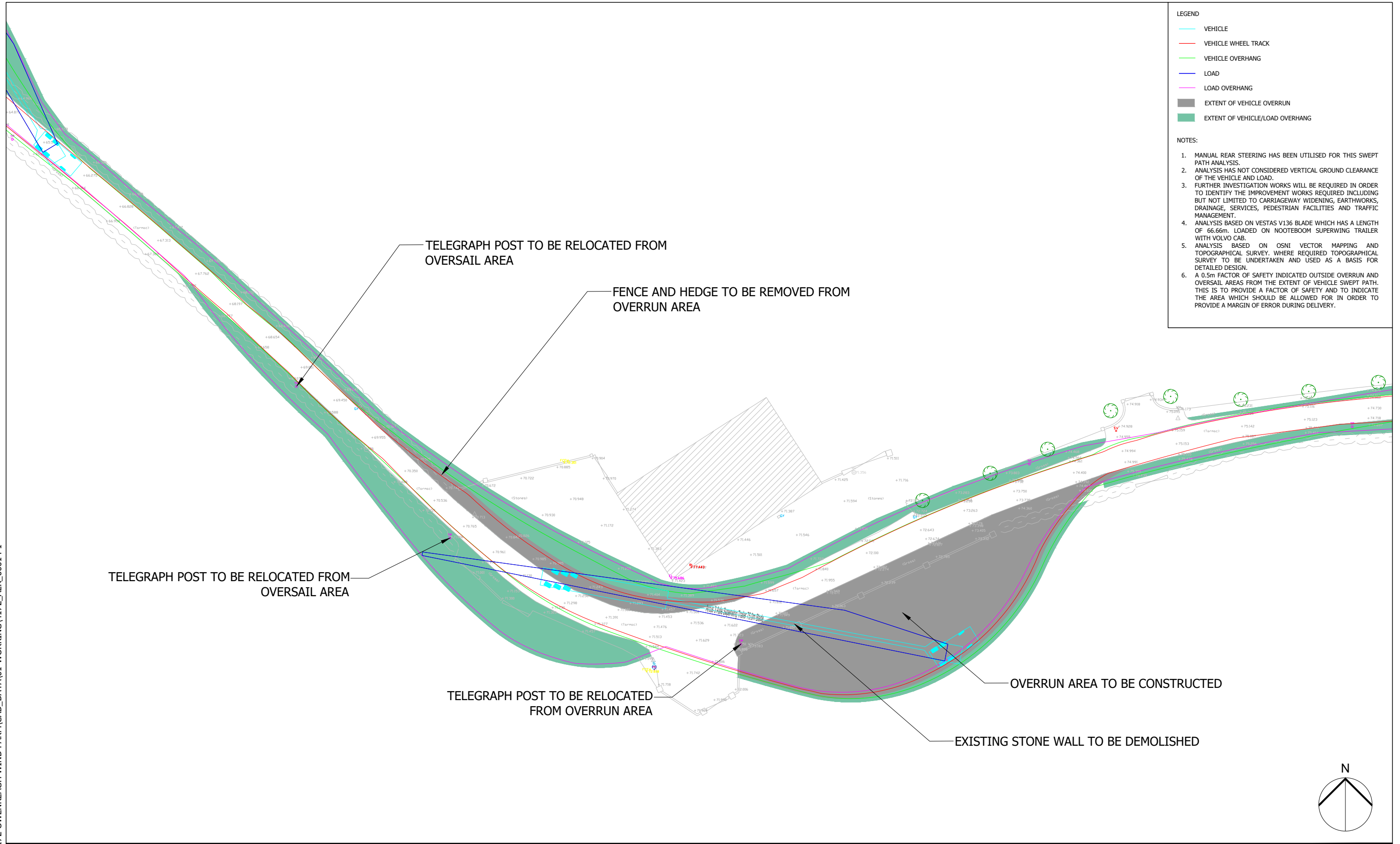
BLADE TIP WILL OVSAIL INTO ROAD VERGE. DOES NOT CROSS FENCE OR HEDGE AND DOES NOT CONFLICT WITH TREES

REMOVAL OF EXISTING HEDGEROWS AND TREES REQUIRED FOR CONSTRUCTION OF OFF-SITE ACCESS TRACK.

BLADE TIP WILL SLIGHTLY OVSAIL HEDGE INTO RESIDENTIAL GARDEN

Project Title OWENREAGH / CRAIGNAGAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title PC 14 C BERRYHILL ROAD / OFF SITE ACCESS TRACK / SENTRY ROAD	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com	
		Designed CR	Drawn CR	Checked KL	Approved TAT			
Client 		Scale @ A3 1:1250						

Plot Date: 17 July 2023 09:57:42
File Name: Y:\PROJECTS\4172 OWENREAGH WIND FARM\CAD_DATA\01-WORKING\4172_ALR_0001.P1



LEGEND

- VEHICLE
- VEHICLE WHEEL TRACK
- VEHICLE OVERHANG
- LOAD
- LOAD OVERHANG
- EXTENT OF VEHICLE OVERRUN
- EXTENT OF VEHICLE/LOAD OVERHANG

NOTES:

1. MANUAL REAR STEERING HAS BEEN UTILISED FOR THIS SWEEPED PATH ANALYSIS.
2. ANALYSIS HAS NOT CONSIDERED VERTICAL GROUND CLEARANCE OF THE VEHICLE AND LOAD.
3. FURTHER INVESTIGATION WORKS WILL BE REQUIRED IN ORDER TO IDENTIFY THE IMPROVEMENT WORKS REQUIRED INCLUDING BUT NOT LIMITED TO CARRIAGEWAY WIDENING, EARTHWORKS, DRAINAGE, SERVICES, PEDESTRIAN FACILITIES AND TRAFFIC MANAGEMENT.
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TELEGRAPH POST TO BE RELOCATED FROM OVERRUN AREA

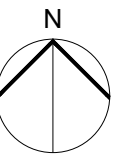
FENCE AND HEDGE TO BE REMOVED FROM OVERRUN AREA

TELEGRAPH POST TO BE RELOCATED FROM OVERRUN AREA

TELEGRAPH POST TO BE RELOCATED FROM OVERRUN AREA

OVERRUN AREA TO BE CONSTRUCTED

EXISTING STONE WALL TO BE DEMOLISHED

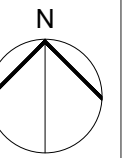
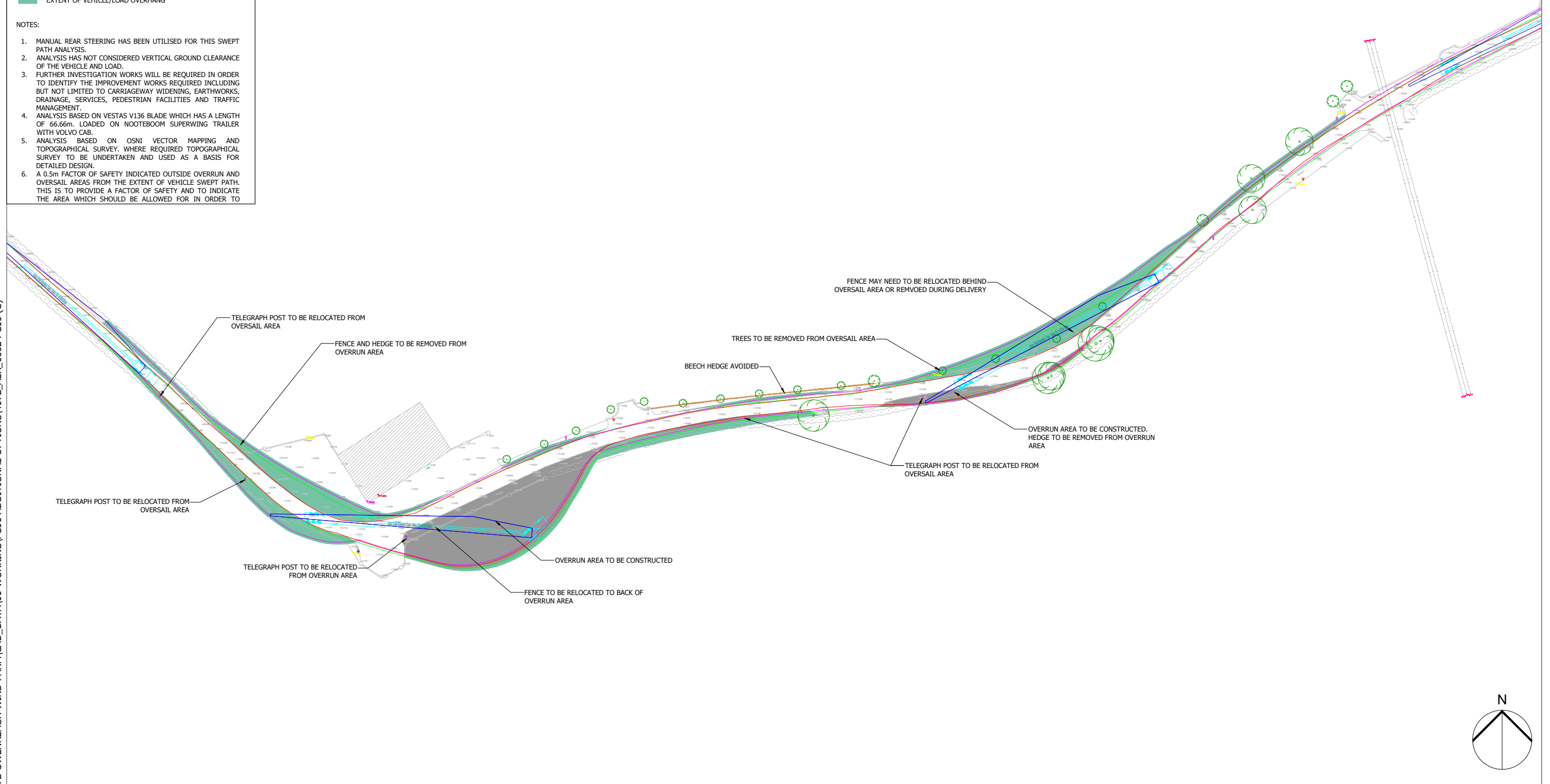


Project Title OWENREAGH / CRAIGNAGNAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title <p style="text-align: center;">PC 15 BEND AT FARMYARD SENTRY ROAD</p>	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com
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Client 		ERM Internal Project No. 4172		Date 17/07/23			
		Scale @ A3 1:500					



- LEGEND**
- VEHICLE
 - VEHICLE WHEEL TRACK
 - VEHICLE OVERHANG
 - LOAD
 - LOAD OVERHANG
 - THIRD PARTY LAND
 - EXTENT OF VEHICLE OVERRUN
 - EXTENT OF VEHICLE/LOAD OVERHANG

- NOTES:**
1. MANUAL REAR STEERING HAS BEEN UTILISED FOR THIS SWEEP PATH ANALYSIS.
 2. ANALYSIS HAS NOT CONSIDERED VERTICAL GROUND CLEARANCE OF THE VEHICLE AND LOAD.
 3. FURTHER INVESTIGATION WORKS WILL BE REQUIRED IN ORDER TO IDENTIFY THE IMPROVEMENT WORKS REQUIRED INCLUDING BUT NOT LIMITED TO CARRIAGEWAY WIDENING, EARTHWORKS, DRAINAGE, SERVICES, PEDESTRIAN FACILITIES AND TRAFFIC MANAGEMENT.
 4. ANALYSIS BASED ON VESTAS V136 BLADE WHICH HAS A LENGTH OF 66.66m. LOADED ON NOOTEBOOM SUPERWING TRAILER WITH VOLVO CAB.
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 6. A 0.5m FACTOR OF SAFETY INDICATED OUTSIDE OVERRUN AND OVERSAIL AREAS FROM THE EXTENT OF VEHICLE SWEEP PATH. THIS IS TO PROVIDE A FACTOR OF SAFETY AND TO INDICATE THE AREA WHICH SHOULD BE ALLOWED FOR IN ORDER TO



Plot Date : 17 July 2023 10:35:54
File Name : Y:\PROJECTS\4172 OWENREAGH WIND FARM\CAD_DATA\01-WORKING\PC16 ADDITIONAL OPTIONS\4172_ALR_0002_PC16 (C)

Project Title OWENREAGH / CRAIGAGNAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title PC16 OPTION C BEND AT 10 SENTRY ROAD AVOIDING BEECH HEDGE	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com
		Designed KL	Drawn KL	Checked TAT	Approved TAT		
Client 		ERM Internal Project No. 4172		Date 17/07/23			
		Scale @ A3 1:1000					

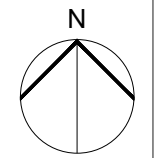
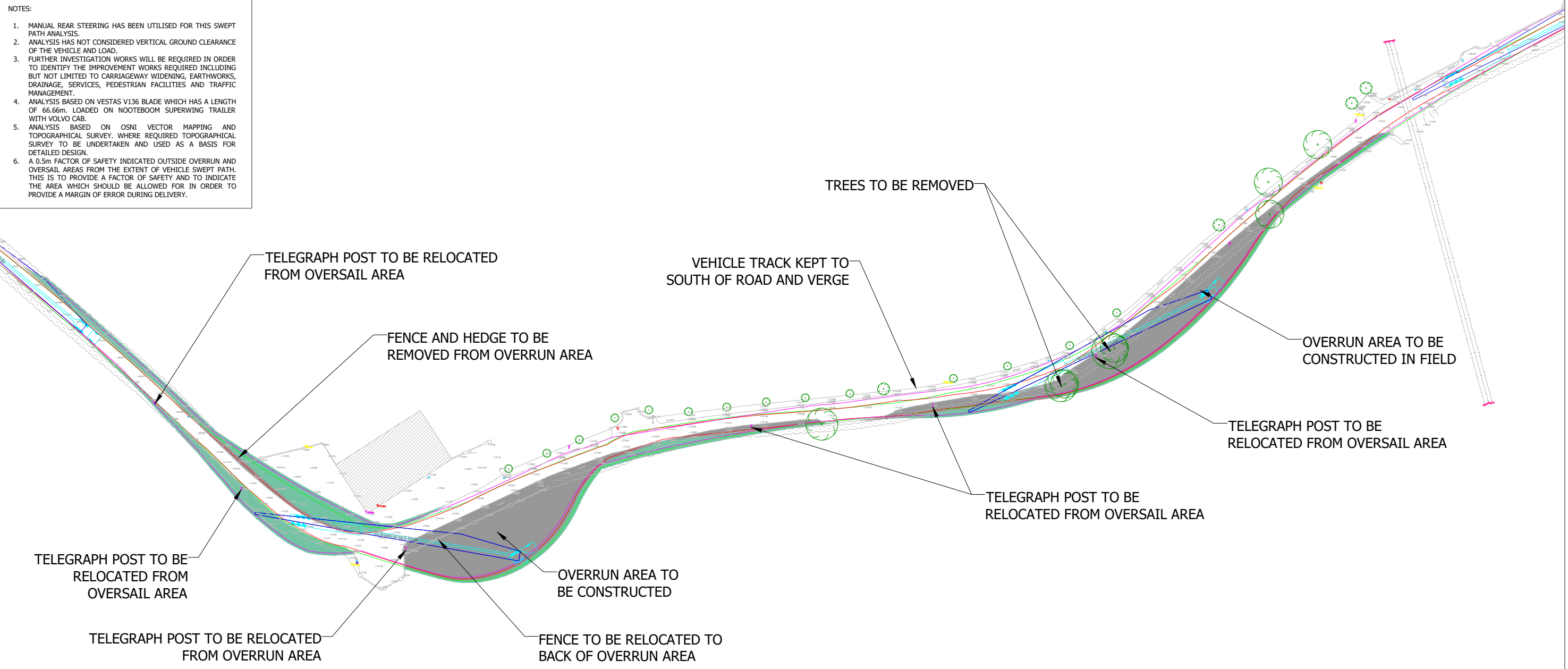


LEGEND

- VEHICLE
- VEHICLE WHEEL TRACK
- VEHICLE OVERHANG
- LOAD
- LOAD OVERHANG
- EXTENT OF VEHICLE OVERRUN
- EXTENT OF VEHICLE/LOAD OVERHANG

NOTES:

1. MANUAL REAR STEERING HAS BEEN UTILISED FOR THIS SWEEP PATH ANALYSIS.
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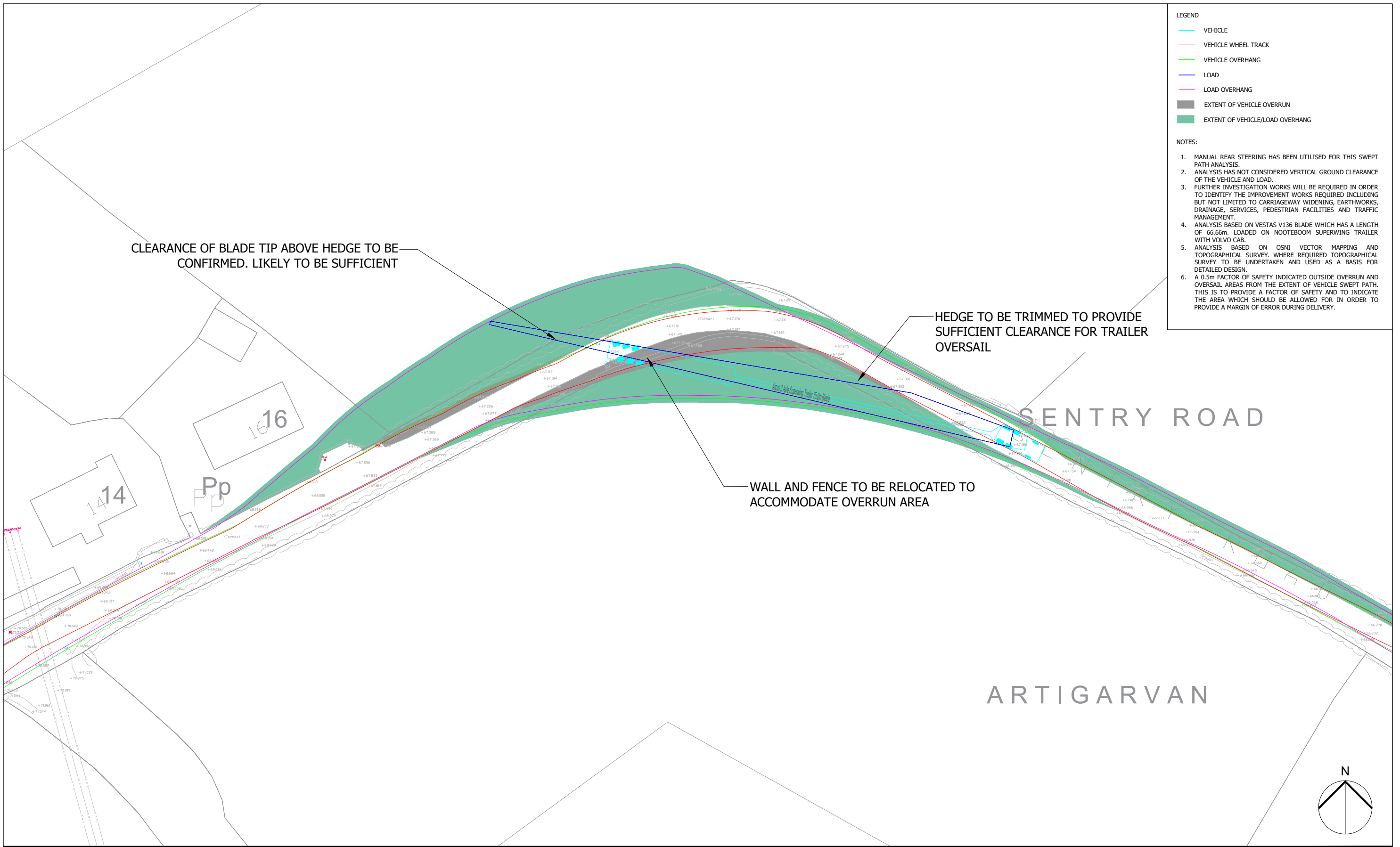


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Project Title OWENREAGH / CRAIGAGNAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title PC16 OPTION B BEND AT 10 SENTRY ROAD SPA SOUTH OF FIELD AND VERGE	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 Fax: www.erm.com
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Client 		ERM Internal Project No. 4172	Date 17/07/23				
		Scale @ A3 1:1000					



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LEGEND

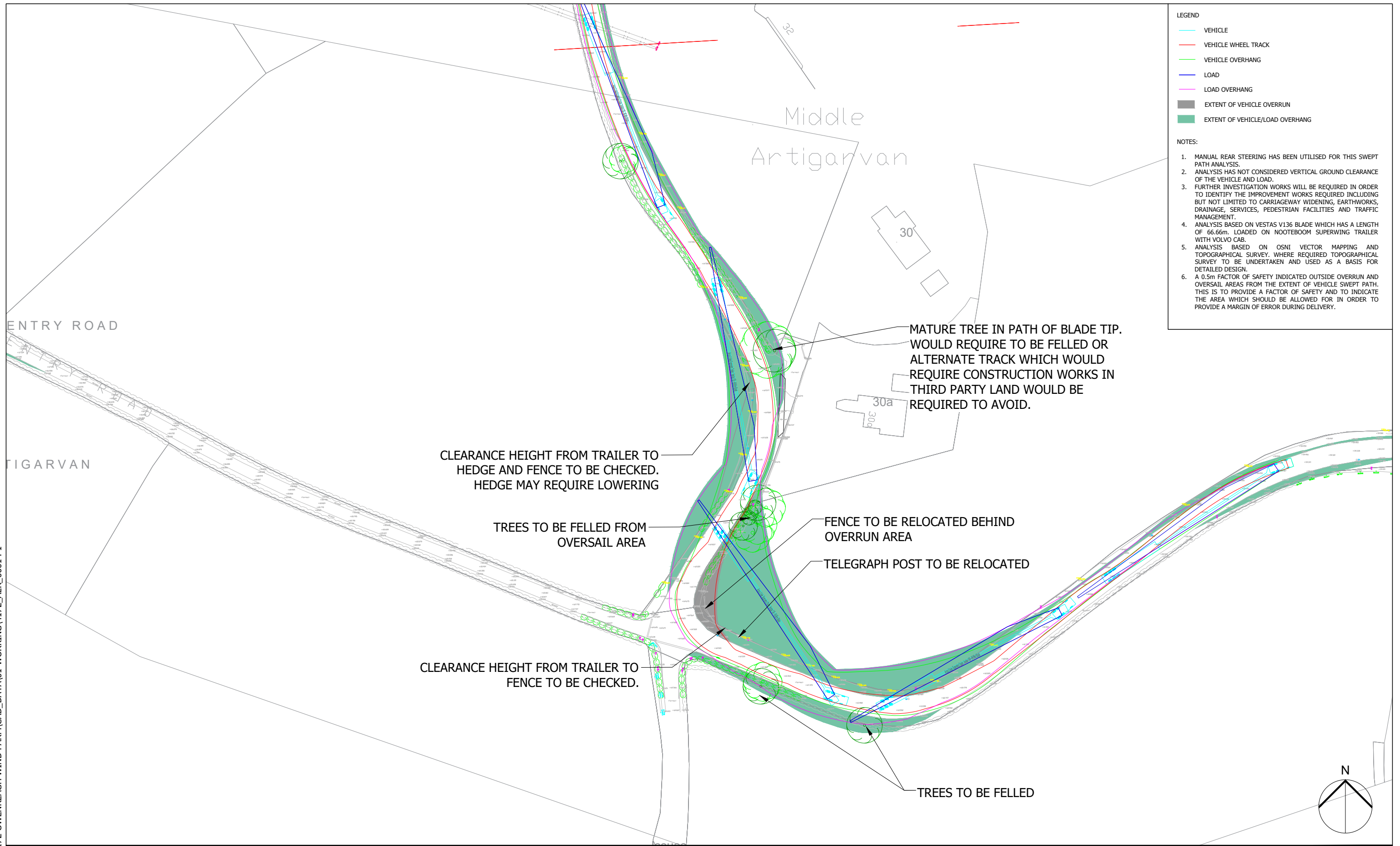
- VEHICLE
- VEHICLE WHEEL TRACK
- VEHICLE OVERHANG
- LOAD
- LOAD OVERHANG
- EXTENT OF VEHICLE OVERRUN
- EXTENT OF VEHICLE/LOAD OVERHANG

NOTES:

1. MANUAL REAR STEERING HAS BEEN UTILISED FOR THIS SWEEPED PATH ANALYSIS.
2. ANALYSIS HAS NOT CONSIDERED VERTICAL GROUND CLEARANCE OF THE VEHICLE AND LOAD.
3. FURTHER INVESTIGATION WORKS WILL BE REQUIRED IN ORDER TO IDENTIFY THE IMPROVEMENT WORKS REQUIRED INCLUDING BUT NOT LIMITED TO CARRIAGEWAY WIDENING, EARTHWORKS, DRAINAGE, SERVICES, PEDESTRIAN FACILITIES AND TRAFFIC MANAGEMENT.
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Project Title OWENREAGH / CRAIGNAGNAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title PC 17 BEND BEYOND 3 SENTRY ROAD	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com	
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		ERM Internal Project No. 4172	Date 17/07/23					
		Scale @ A3 1:500						

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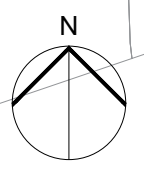


LEGEND

- VEHICLE
- VEHICLE WHEEL TRACK
- VEHICLE OVERHANG
- LOAD
- LOAD OVERHANG
- EXTENT OF VEHICLE OVERRUN
- EXTENT OF VEHICLE/LOAD OVERHANG

NOTES:

1. MANUAL REAR STEERING HAS BEEN UTILISED FOR THIS SWEEPED PATH ANALYSIS.
2. ANALYSIS HAS NOT CONSIDERED VERTICAL GROUND CLEARANCE OF THE VEHICLE AND LOAD.
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Project Title OWENREAGH / CRAIGNAGAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title PC 18 / OPTION 2 ART ROAD/ SENTRY ROAD - JUNCTION	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com
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Client 		ERM Internal Project No. 4172		Date 17/07/23		Rev -	
		Scale @ A3 1:1000					

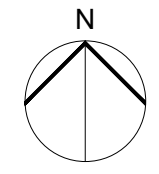


Plot Date: 17 July 2023 09:58:24
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Project Title OWENREAGH / CRAIGNAGNAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title PC 19 BENDS AT 33 MOORLOUGH ROAD	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com	
		Client 	Designed KL ERM Internal Project No. 4172 Scale @ A3 1:1000	Drawn KL	Checked TAT			

LOUGH ROAD

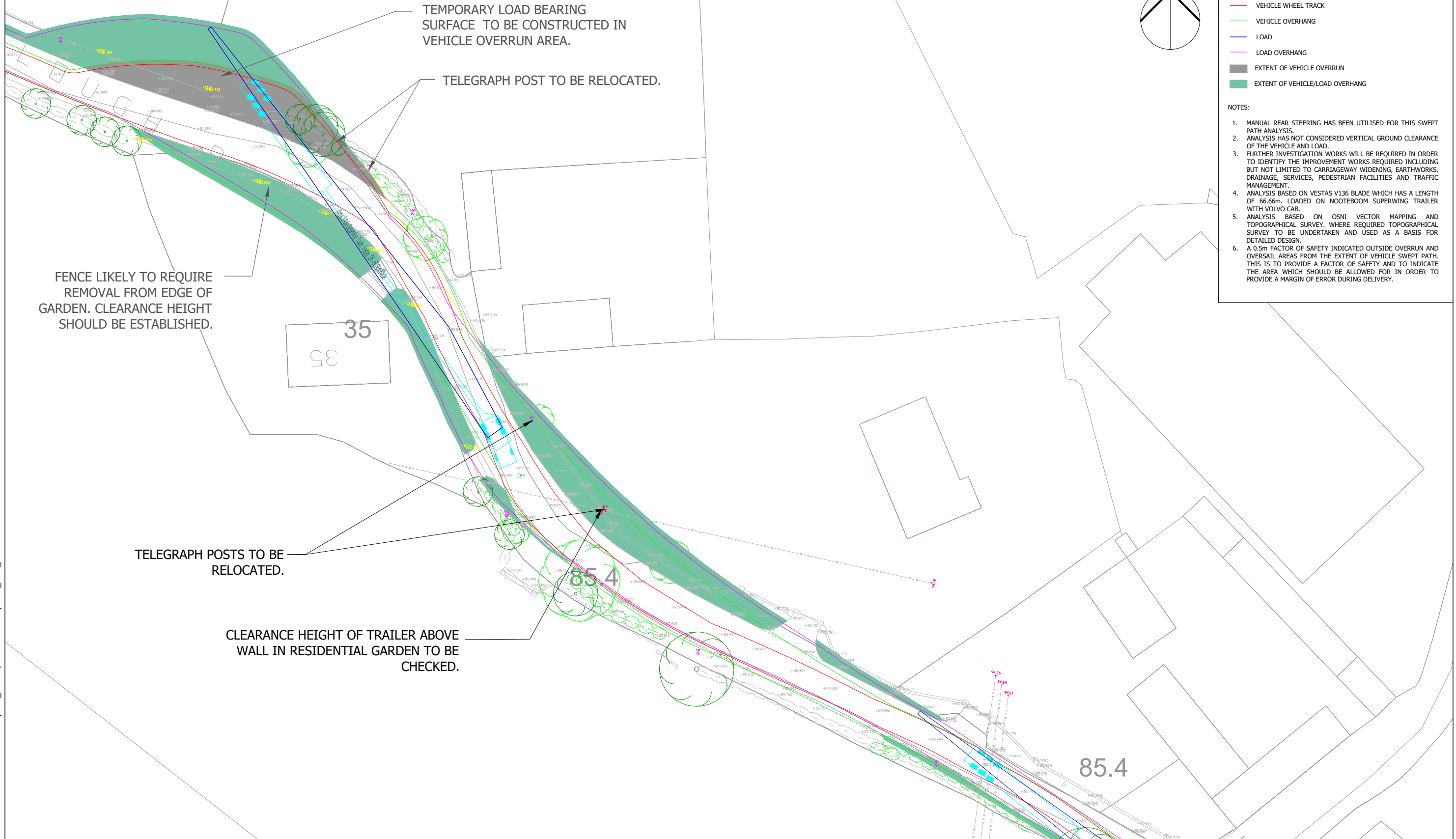


LEGEND

- VEHICLE
- VEHICLE WHEEL TRACK
- VEHICLE OVERHANG
- LOAD
- LOAD OVERHANG
- EXTENT OF VEHICLE OVERRUN
- EXTENT OF VEHICLE/LOAD OVERHANG

NOTES:

1. MANUAL REAR STEERING HAS BEEN UTILISED FOR THIS SWEEPED PATH ANALYSIS.
2. ANALYSIS HAS NOT CONSIDERED VERTICAL GROUND CLEARANCE OF THE VEHICLE AND LOAD.
3. FURTHER INVESTIGATION WORKS WILL BE REQUIRED IN ORDER TO IDENTIFY THE IMPROVEMENT WORKS REQUIRED INCLUDING BUT NOT LIMITED TO CARRIAGEWAY WIDENING, EARTHWORKS, DRAINAGE, SERVICES, PEDESTRIAN FACILITIES AND TRAFFIC MANAGEMENT.
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TEMPORARY LOAD BEARING SURFACE TO BE CONSTRUCTED IN VEHICLE OVERRUN AREA.

TELEGRAPH POST TO BE RELOCATED.

FENCE LIKELY TO REQUIRE REMOVAL FROM EDGE OF GARDEN. CLEARANCE HEIGHT SHOULD BE ESTABLISHED.

35
35

TELEGRAPH POSTS TO BE RELOCATED.

CLEARANCE HEIGHT OF TRAILER ABOVE WALL IN RESIDENTIAL GARDEN TO BE CHECKED.

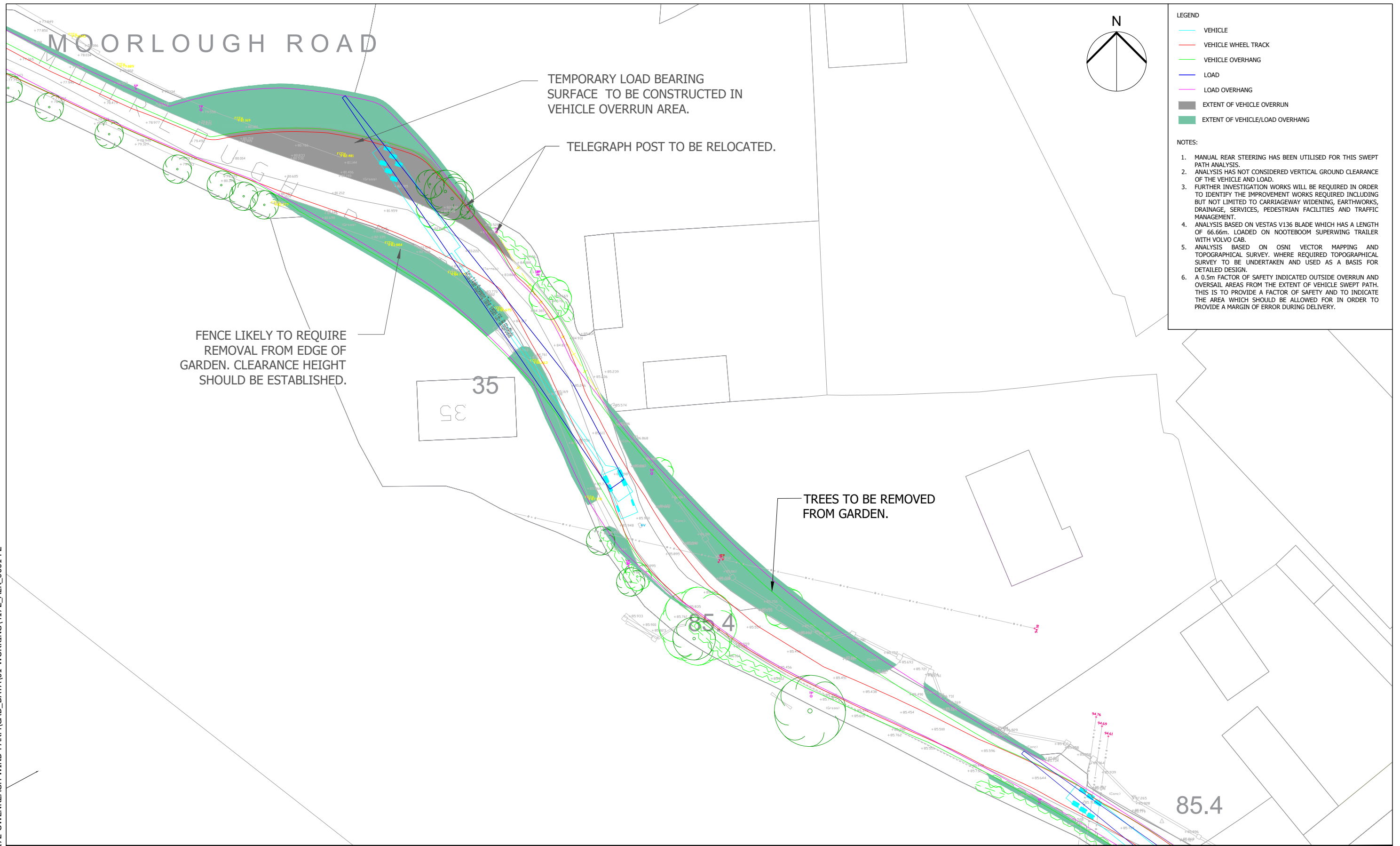
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Project Title OWENREAGH / CRAIGNAGAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title PC 20 / OPTION 2 DRAWING 1 OF 2 BENDS AT 45 MOORLOUGH ROAD	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com	
		Designed KL	Drawn KL	Checked TAT	Approved TAT			
Client 		ERM Internal Project No. 4172		Date 17/07/23				
		Scale @ A3 1:500						

Plot Date : 17 July 2023 10:06:17
File Name : Y:\PROJECTS\4172 OWENREAGH WIND FARM\CAD_DATA\01-WORKING\4172_ALR_0001.P2



Project Title
**OWENREAGH / CRAIGNAGNAPPLE WF
ABNORMAL LOAD
ROUTE ASSESSMENT**

Client
Orsted

Drawing Title
**PC20 / OPTION 2
DRAWING 2 OF 2
BENDS AT 45 MOORLOUGH
ROAD**


Purpose of issue FOR INFORMATION			
Designed KL	Drawn KL	Checked TAT	Approved TAT
ERM Internal Project No. 4172		Date 10/01/23	
Scale @ A3 1:500			

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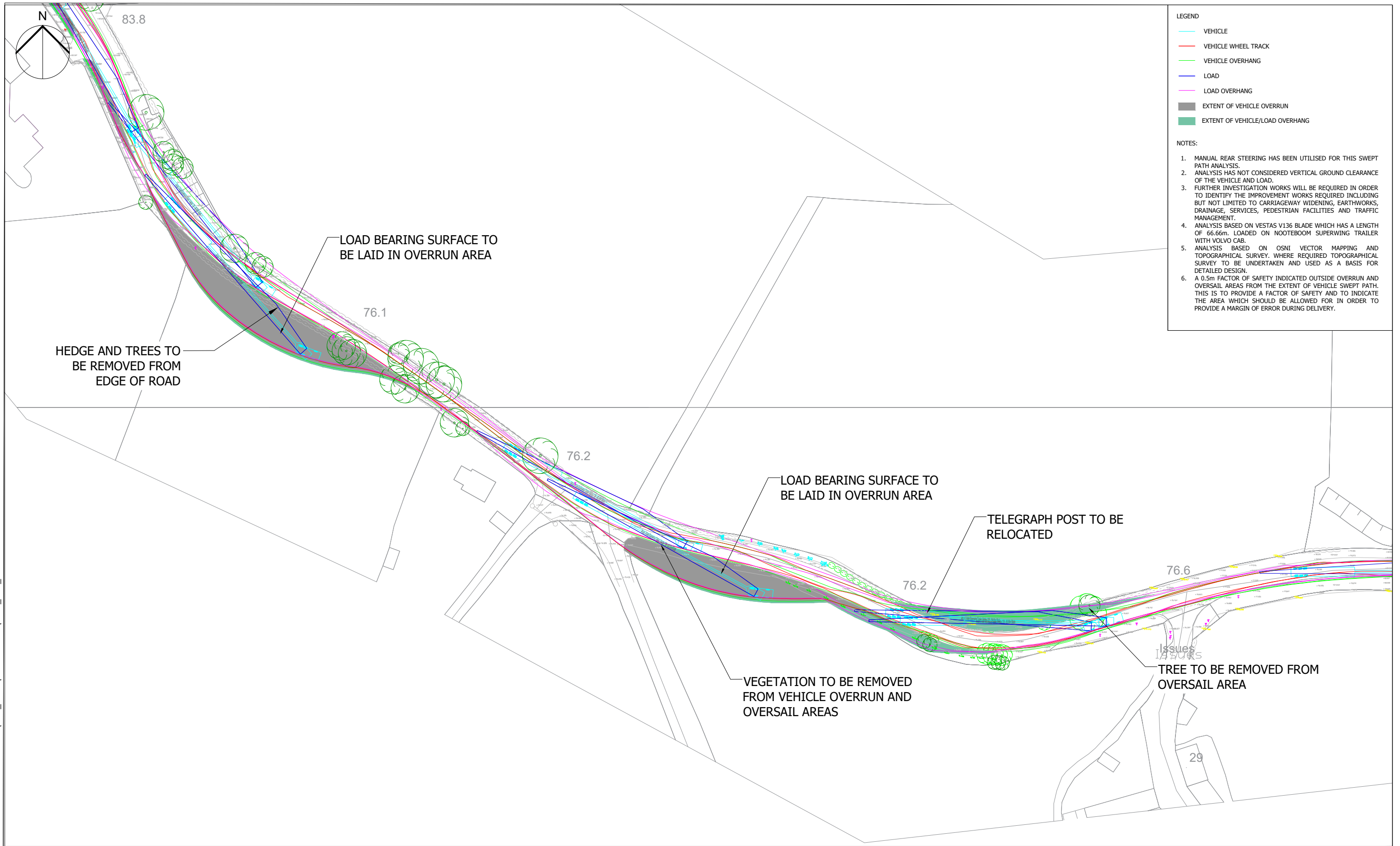
Drawing Number 4172_ALR_0020	Rev -
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102 West Port
Edinburgh, EH3 9DN
Tel: +44 131 221 6750
www.erm.com

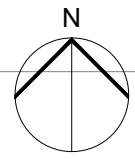


Plot Date : 17 July 2023 10:08:01
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Project Title OWENREAGH / CRAIGNAGAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT		Drawing Title PC 21 BENDS ON MOORLOUGH ROAD, BEFORE GLENMORNAN ROAD		Purpose of issue FOR INFORMATION		THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED		Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com	
Client 				Designed KL	Drawn KL	Checked TAT	Approved TAT	Drawing Number 4172_ALR_0021	
				ERM Internal Project No. 4172		Date 17/07/23		Rev -	
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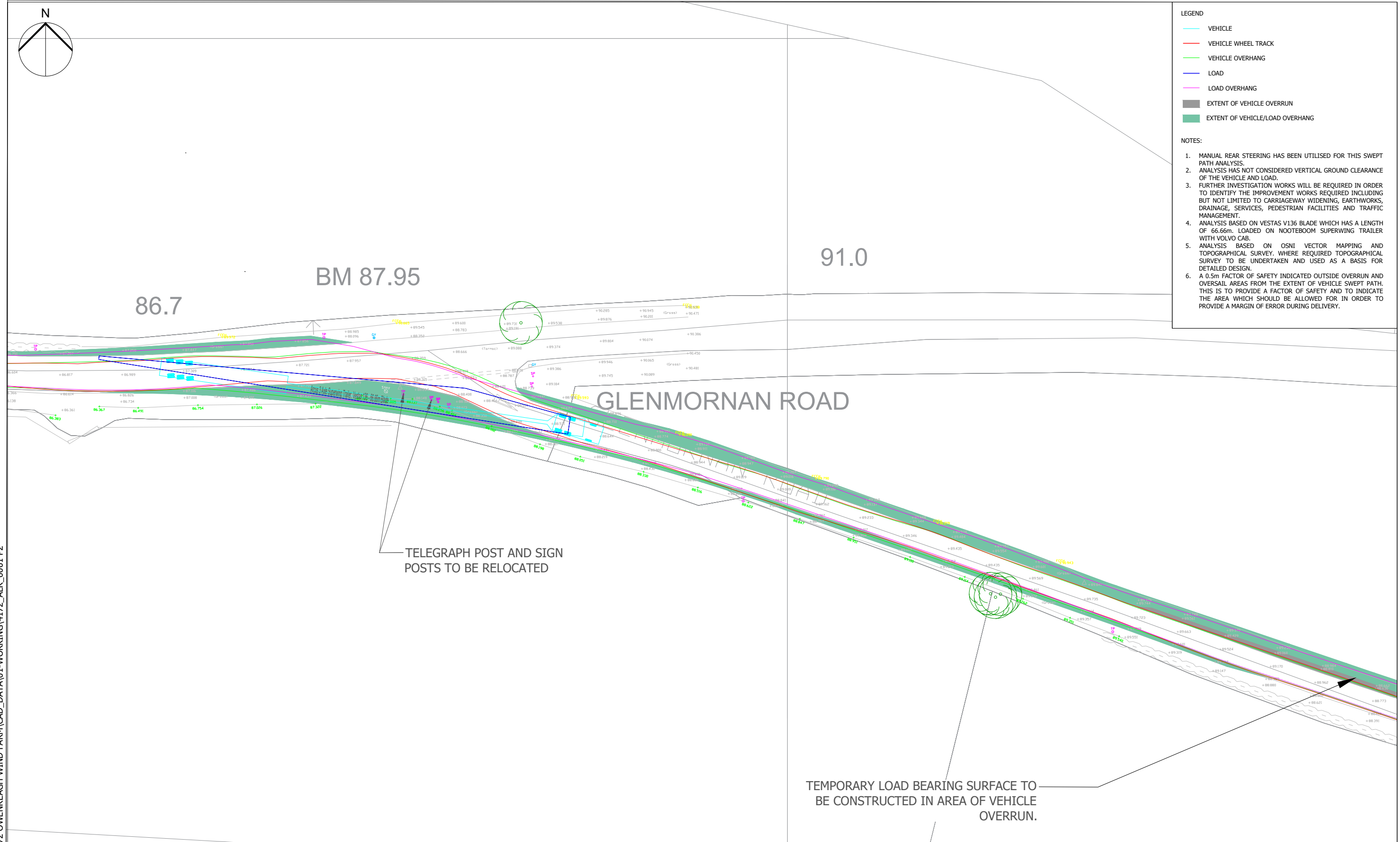


LEGEND

- VEHICLE
- VEHICLE WHEEL TRACK
- VEHICLE OVERHANG
- LOAD
- LOAD OVERHANG
- EXTENT OF VEHICLE OVERRUN
- EXTENT OF VEHICLE/LOAD OVERRUN

NOTES:

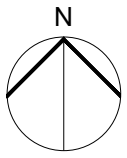
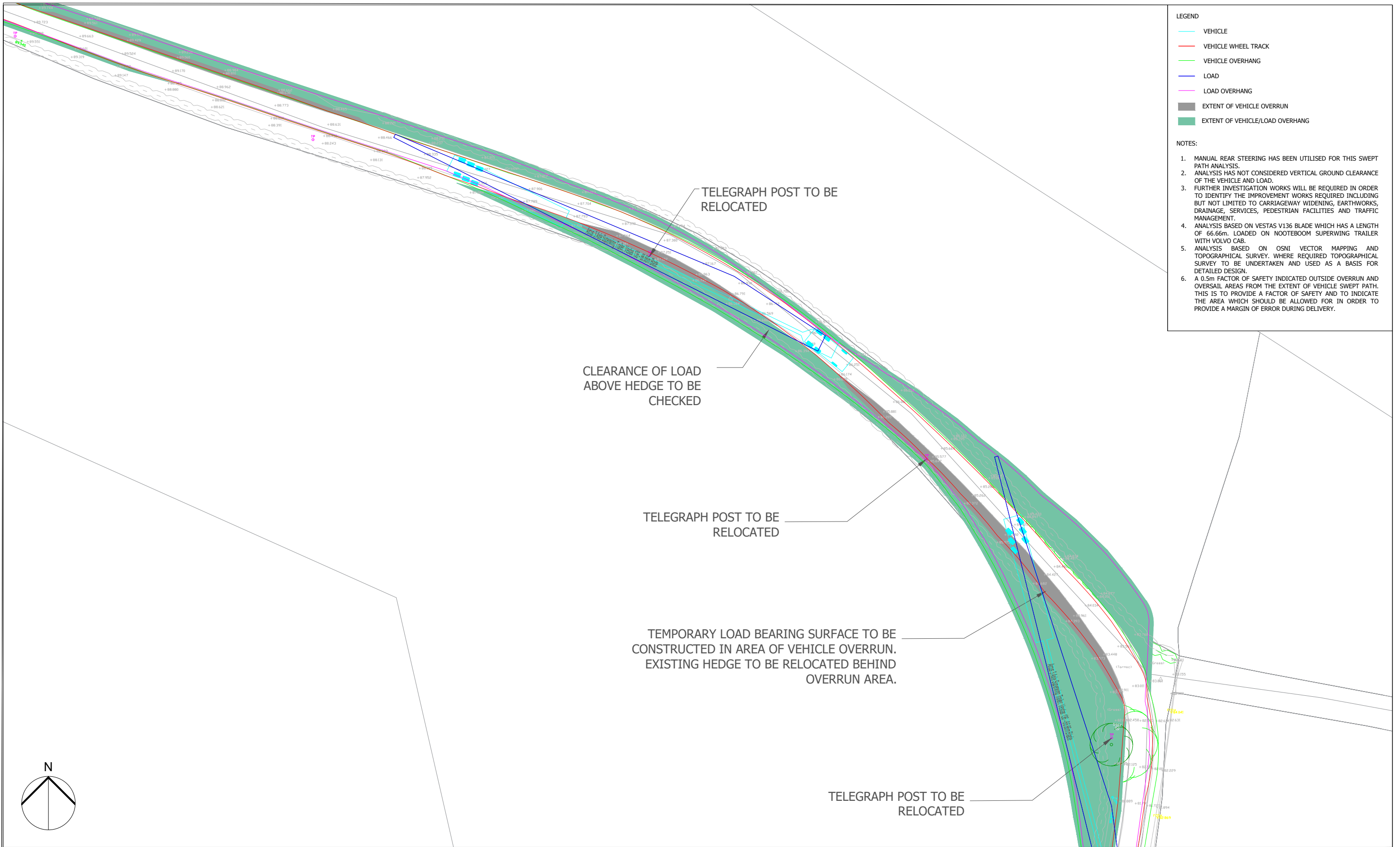
1. MANUAL REAR STEERING HAS BEEN UTILISED FOR THIS SWEEPED PATH ANALYSIS.
2. ANALYSIS HAS NOT CONSIDERED VERTICAL GROUND CLEARANCE OF THE VEHICLE AND LOAD.
3. FURTHER INVESTIGATION WORKS WILL BE REQUIRED IN ORDER TO IDENTIFY THE IMPROVEMENT WORKS REQUIRED INCLUDING BUT NOT LIMITED TO CARRIAGEWAY WIDENING, EARTHWORKS, DRAINAGE, SERVICES, PEDESTRIAN FACILITIES AND TRAFFIC MANAGEMENT.
4. ANALYSIS BASED ON VESTAS V136 BLADE WHICH HAS A LENGTH OF 66.66m. LOADED ON NOOTEBOOM SUPERWING TRAILER WITH VOLVO CAB.
5. ANALYSIS BASED ON OSNI VECTOR MAPPING AND TOPOGRAPHICAL SURVEY. WHERE REQUIRED TOPOGRAPHICAL SURVEY TO BE UNDERTAKEN AND USED AS A BASIS FOR DETAILED DESIGN.
6. A 0.5m FACTOR OF SAFETY INDICATED OUTSIDE OVERRUN AND OVSAIL AREAS FROM THE EXTENT OF VEHICLE SWEEPED PATH. THIS IS TO PROVIDE A FACTOR OF SAFETY AND TO INDICATE THE AREA WHICH SHOULD BE ALLOWED FOR IN ORDER TO PROVIDE A MARGIN OF ERROR DURING DELIVERY.





Plot Date : 17 July 2023 10:09:34
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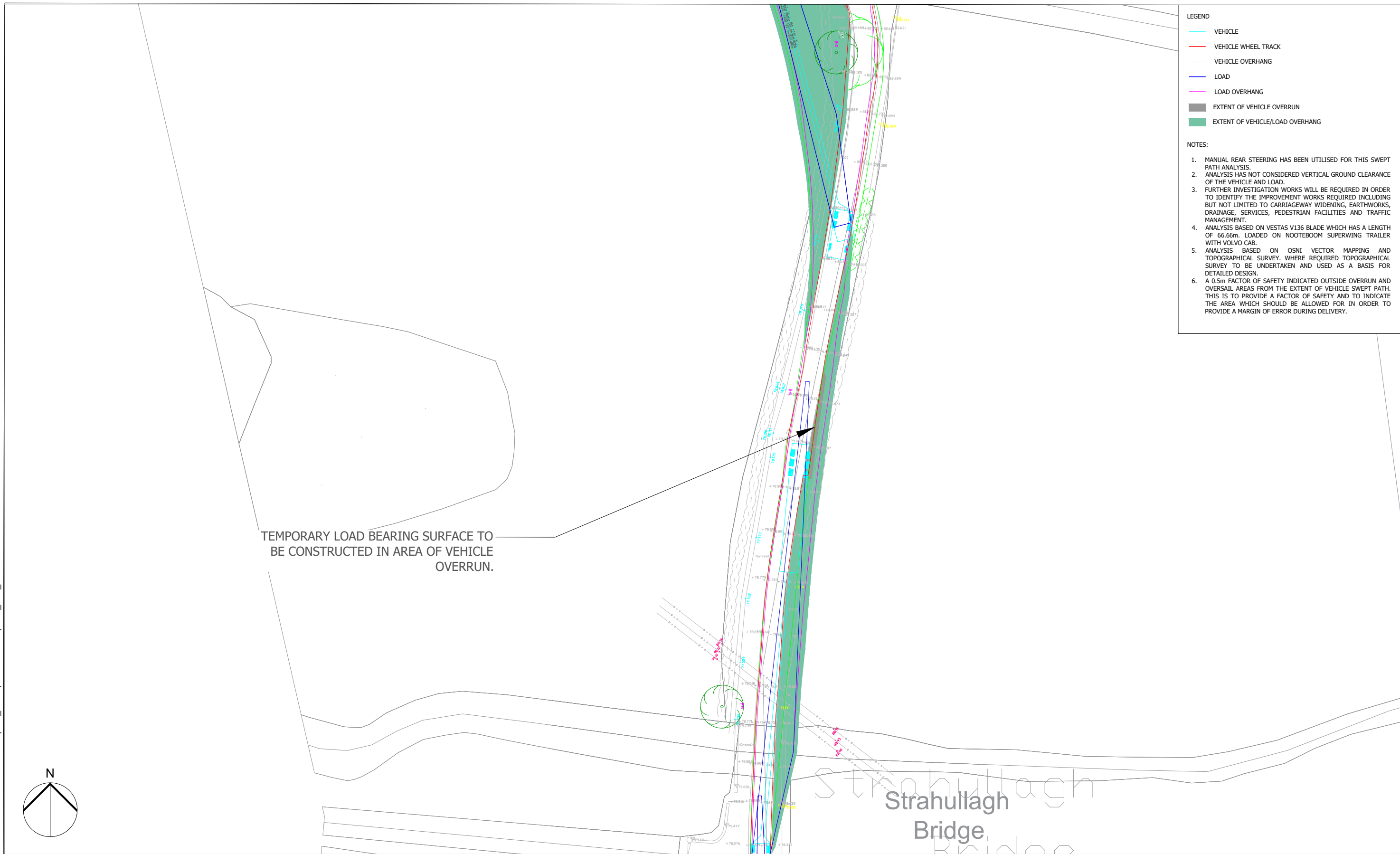
Project Title OWENREAGH / CRAIGNAGNAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title PC 22 / OPTION 2 DRAWING 1 OF 3 MOORLOUGH ROAD/ GLENMORNAN ROAD JUNCTION	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com	
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Client 		ERM Internal Project No. 4172	Date 17/07/23					
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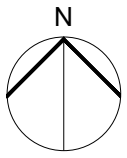


Project Title OWENREAGH / CRAIGNAGNAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title PC 22 / OPTION 2 DRAWING 2 OF 3 MOORLOUGH ROAD/ GLENMORNAN ROAD JUNCTION	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com	
		Designed KL	Drawn KL	Checked TAT	Approved TAT			
Client 		ERM Internal Project No. 4172	Date 17/07/23					
		Scale @ A3 1:500						



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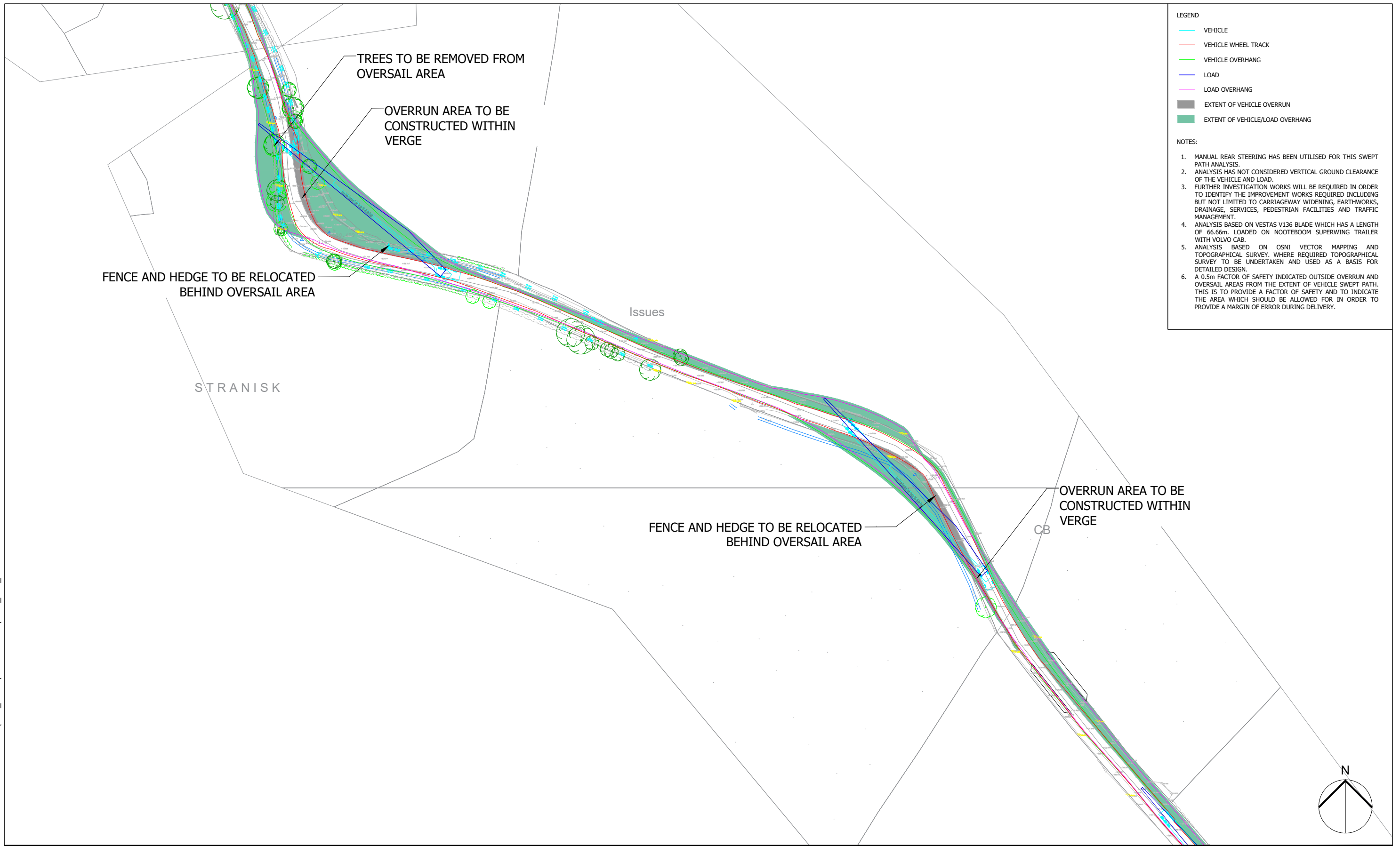
TEMPORARY LOAD BEARING SURFACE TO BE CONSTRUCTED IN AREA OF VEHICLE OVERRUN.



Strahullagh
 Bridge

Project Title OWENREAGH / CRAIGNAGNAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title PC 22 / OPTION 2 DRAWING 3 OF 3 MOORLOUGH ROAD/ GLENMORNAN ROAD JUNCTION	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com	
		Designed KL	Drawn KL	Checked TAT	Approved TAT			
Client 		ERM Internal Project No. 4172	Date 17/07/23					
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Plot Date: 17 July 2023 09:58:34
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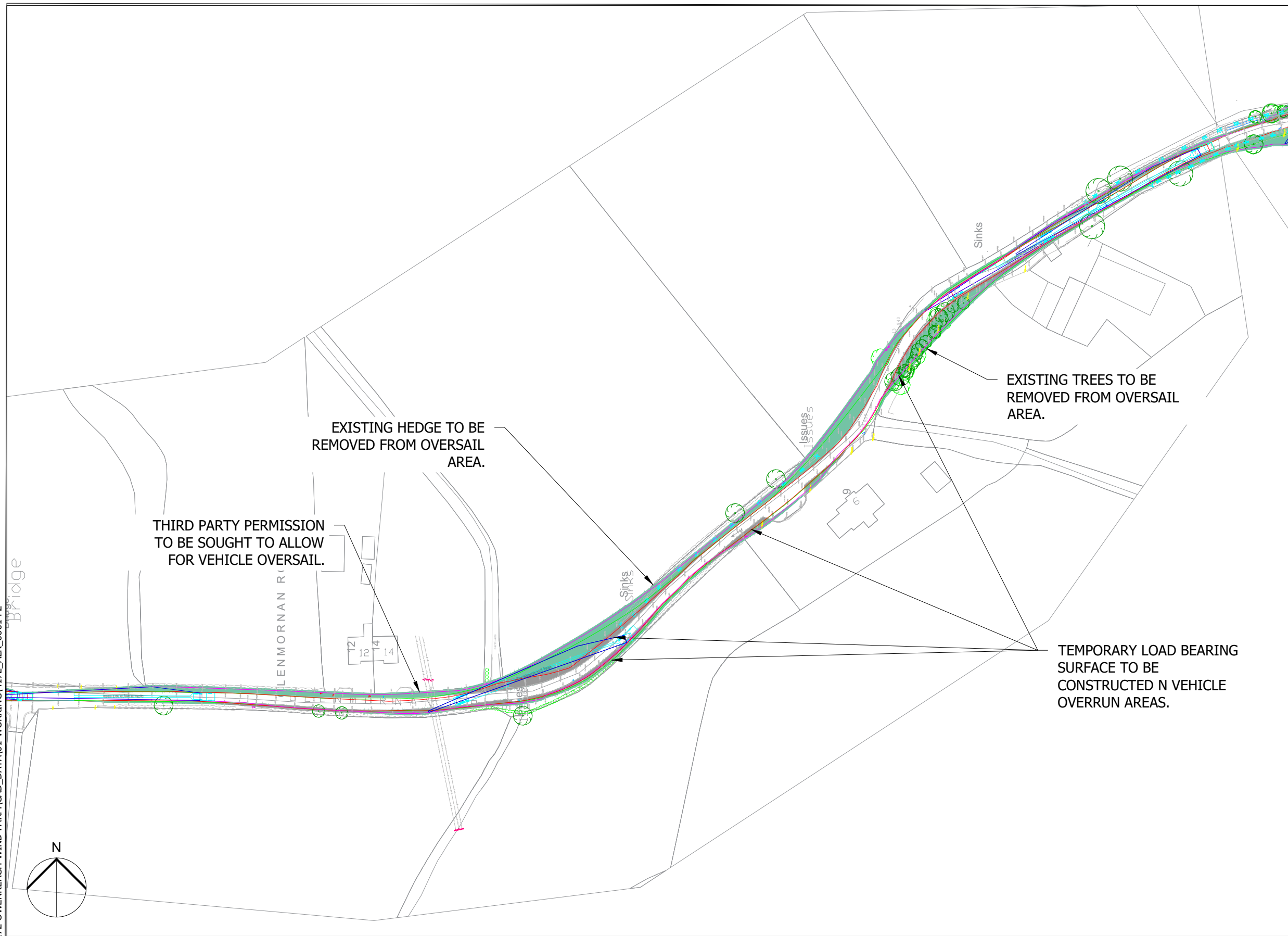
- VEHICLE
- VEHICLE WHEEL TRACK
- VEHICLE OVERHANG
- LOAD
- LOAD OVERHANG
- EXTENT OF VEHICLE OVERRUN
- EXTENT OF VEHICLE/LOAD OVERHANG

NOTES:

1. MANUAL REAR STEERING HAS BEEN UTILISED FOR THIS SWEEP PATH ANALYSIS.
2. ANALYSIS HAS NOT CONSIDERED VERTICAL GROUND CLEARANCE OF THE VEHICLE AND LOAD.
3. FURTHER INVESTIGATION WORKS WILL BE REQUIRED IN ORDER TO IDENTIFY THE IMPROVEMENT WORKS REQUIRED INCLUDING BUT NOT LIMITED TO CARRIAGEWAY WIDENING, EARTHWORKS, DRAINAGE, SERVICES, PEDESTRIAN FACILITIES AND TRAFFIC MANAGEMENT.
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Project Title OWENREAGH / CRAIGNAGNAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title PC 23 BENDS ON GLENMORNAN ROAD	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com	
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Client 		Scale @ A3 1:1000						

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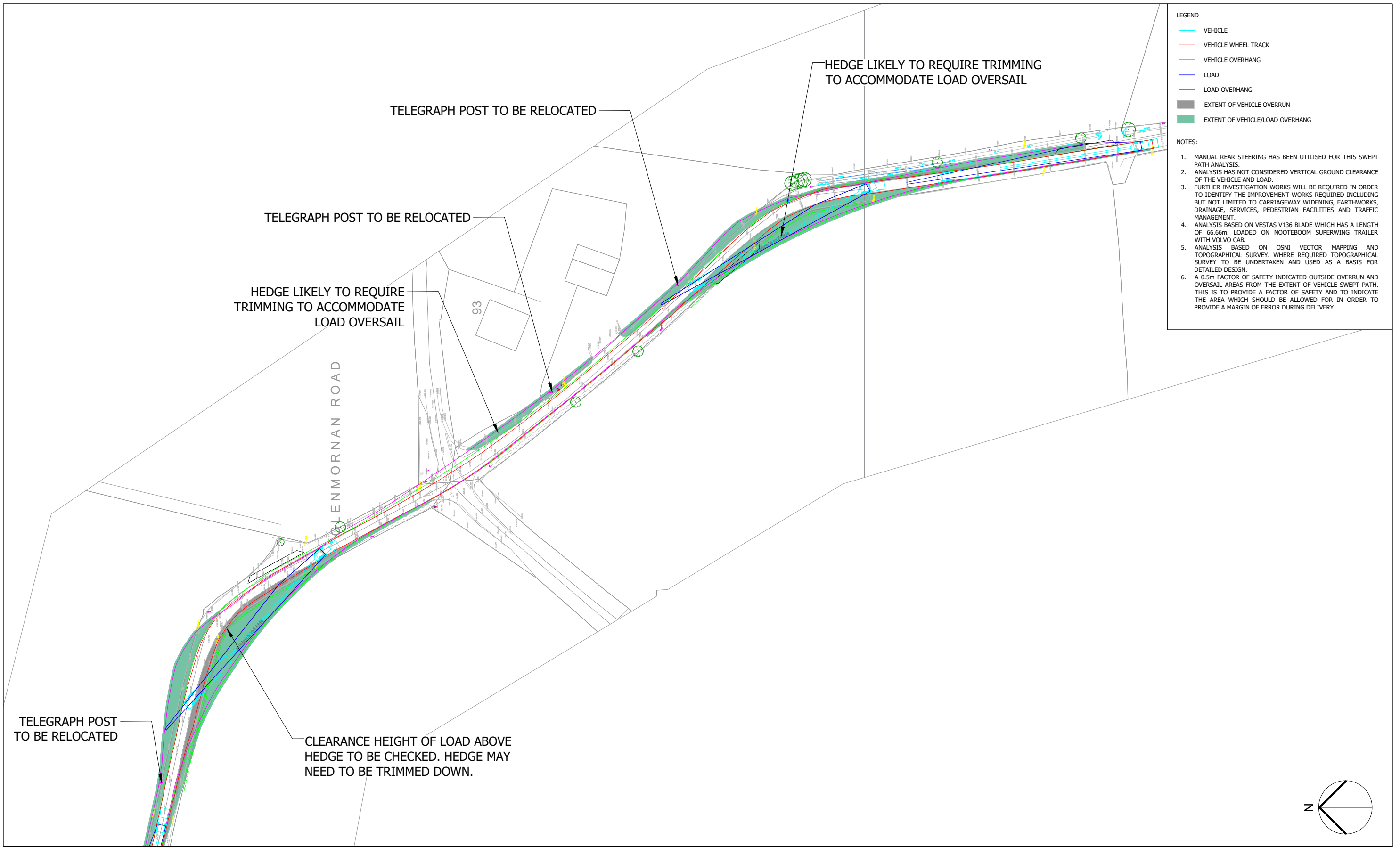
- VEHICLE
- VEHICLE WHEEL TRACK
- VEHICLE OVERHANG
- LOAD
- LOAD OVERHANG
- EXTENT OF VEHICLE OVERRUN
- EXTENT OF VEHICLE/LOAD OVERHANG

NOTES:

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Project Title OWENREAGH / CRAIGNAGNAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title PC 23/ OPTION 2 MOORLOUGH ROAD/ GLENMORNAN ROAD JUNCTION	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com	
		Designed CR	Drawn CR	Checked KL	Approved TAT			
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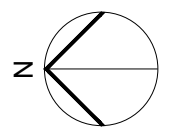




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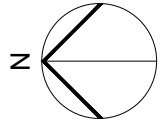
- VEHICLE
- VEHICLE WHEEL TRACK
- VEHICLE OVERHANG
- LOAD
- LOAD OVERHANG
- EXTENT OF VEHICLE OVERRUN
- EXTENT OF VEHICLE/LOAD OVERHANG

NOTES:

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Project Title OWENREAGH / CRAIGNAGNAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title PC 24 GLENMORNAN ROAD/ HOLLYHILL ROAD - CROSSROAD	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 (0)141 221 9997 +44 (0)141 221 5610 www.erm.com	
		Designed KL	Drawn KL	Checked TAT	Approved TAT			
Client 	ERM Internal Project No. 4172	Date 17/07/23						
		Scale @ A3 1:1000						



- LEGEND**
- VEHICLE
 - VEHICLE WHEEL TRACK
 - VEHICLE OVERHANG
 - LOAD
 - LOAD OVERHANG
 - EXTENT OF VEHICLE OVERRUN
 - EXTENT OF VEHICLE/LOAD OVERHANG

- NOTES:**
1. MANUAL REAR STEERING HAS BEEN UTILISED FOR THIS SWEEP PATH ANALYSIS.
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TEMPORARY LOAD BEARING SURFACE TO BE CONSTRUCTED IN AREA OF VEHICLE OVERRUN. EXISTING HEDGEROW TO BE REMOVED.

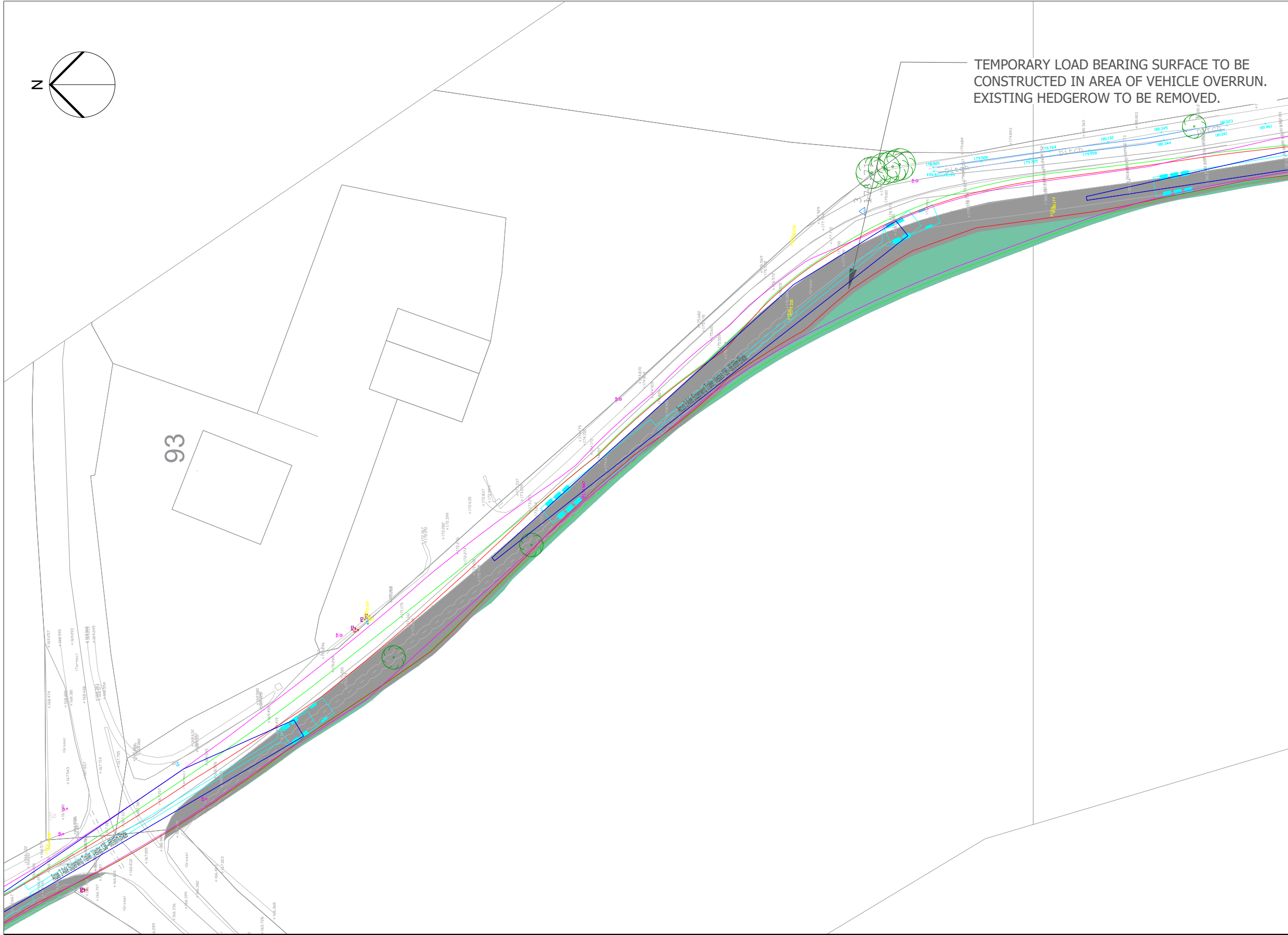
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Project Title OWENREAGH / CRAIGNAGAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title PC 24 / OPTION 2 DRAWING 1 OF 3 GLENMORNAN ROAD/ HOLLYHILL ROAD - CROSSROAD	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com
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Client 		ERM Internal Project No. 4172		Date 17/07/23			
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Plot Date : 17 July 2023 10:19:17
 File Name : Y:\PROJECTS\4172 OWENREAGH WIND FARM\CAD_DATA\01-WORKING\4172_ALR_0001_P2



LEGEND

- VEHICLE
- VEHICLE WHEEL TRACK
- VEHICLE OVERRUN
- LOAD
- LOAD OVERRUN
- EXTENT OF VEHICLE OVERRUN
- EXTENT OF VEHICLE/LOAD OVERRUN

NOTES:

1. MANUAL REAR STEERING HAS BEEN UTILISED FOR THIS SWEEPED PATH ANALYSIS.
2. ANALYSIS HAS NOT CONSIDERED VERTICAL GROUND CLEARANCE OF THE VEHICLE AND LOAD.
3. FURTHER INVESTIGATION WORKS WILL BE REQUIRED IN ORDER TO IDENTIFY THE IMPROVEMENT WORKS REQUIRED INCLUDING BUT NOT LIMITED TO CARRIAGEWAY WIDENING, EARTHWORKS, DRAINAGE, SERVICES, PEDESTRIAN FACILITIES AND TRAFFIC MANAGEMENT.
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Project Title
 OWENREAGH / CRAIGNAGAPPLE WF
 ABNORMAL LOAD
 ROUTE ASSESSMENT

Client

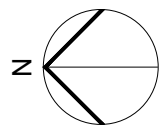
Drawing Title
 PC 24 / OPTION 2
 DRAWING 2 OF 3
 GLENMORNAN ROAD/
 HOLLYHILL ROAD - CROSSROAD

Purpose of issue			
FOR INFORMATION			
Designed KL	Drawn KL	Checked TAT	Approved TAT
ERM Internal Project No. 4172		Date 17/07/23	
Scale @ A3 1:500			

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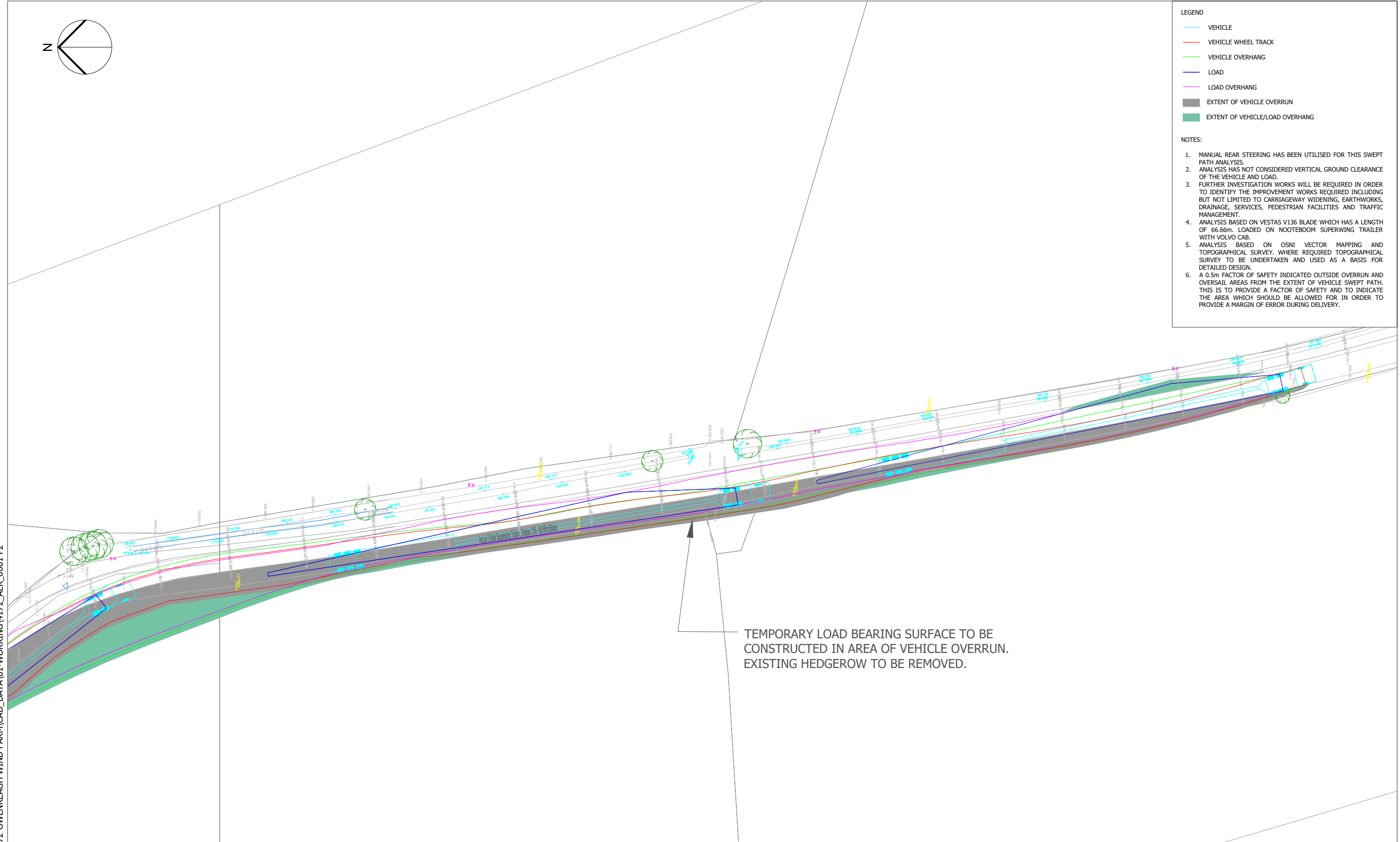


LEGEND

- VEHICLE
- VEHICLE WHEEL TRACK
- VEHICLE OVERHANG
- LOAD
- LOAD OVERHANG
- EXTENT OF VEHICLE OVERRUN
- EXTENT OF VEHICLE/LOAD OVERHANG

NOTES:

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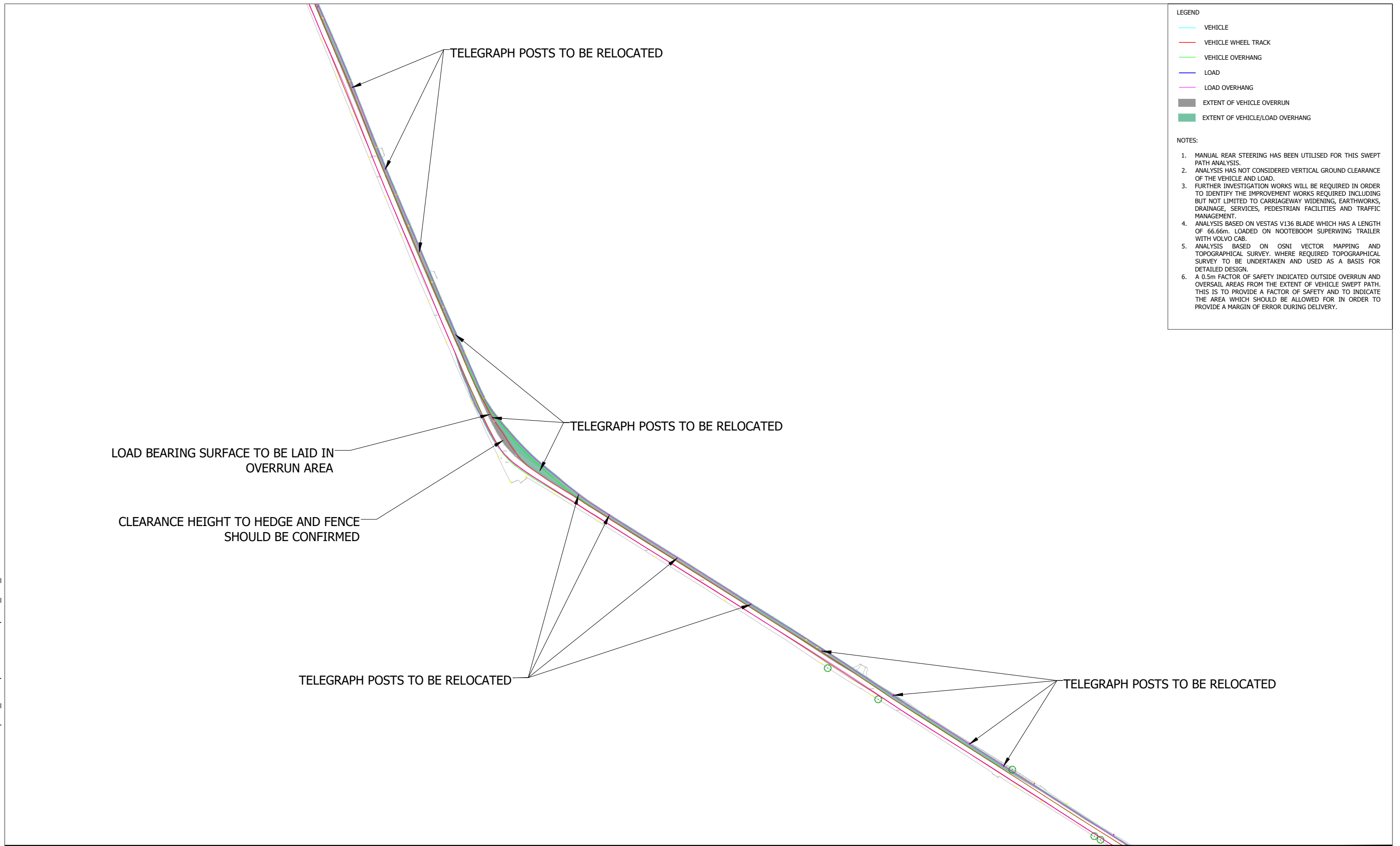


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Project Title OWENREAGH / CRAIGNAGNAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title PC 24 / OPTION 2 DRAWING 3 OF 3 GLENMORNAN ROAD/ HOLLYHILL ROAD - CROSSROAD	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Arcus Consultancy Services 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com
		Designed KL	Drawn KL	Checked TAT	Approved TAT		
Client 		ERM Internal Project No. 4172		Date 17/07/23			
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LEGEND

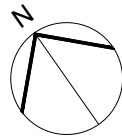
- VEHICLE
- VEHICLE WHEEL TRACK
- VEHICLE OVERHANG
- LOAD
- LOAD OVERHANG
- EXTENT OF VEHICLE OVERRUN
- EXTENT OF VEHICLE/LOAD OVERHANG

NOTES:

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Project Title OWENREAGH / CRAIGNAGAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title <p style="text-align: center;">PC 25 GLENMORNAN ROAD BEND BEFORE SITE ENTRANCE</p>	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com
		Designed KL	Drawn KL	Checked TAT	Approved TAT		
Client 		ERM Internal Project No. 4172		Date 17/07/23		Rev -	





EXISTING FENCE TO BE RELOCATED BEHIND VEHICLE OVERSAIL AREAS.

TEMPORARY LOAD BEARING SURFACE TO BE LAID IN AREAS OF VEHICLE OVERRUN.

TEMPORARY LOAD BEARING SURFACE TO BE LAID IN AREAS OF VEHICLE OVERRUN.

EXISTING FENCE TO BE RELOCATED BEHIND VEHICLE OVERSAIL AREAS.

- LEGEND**
- VEHICLE
 - VEHICLE WHEEL TRACK
 - VEHICLE OVERHANG
 - LOAD
 - LOAD OVERHANG
 - EXTENT OF VEHICLE OVERRUN
 - EXTENT OF VEHICLE/LOAD OVERHANG

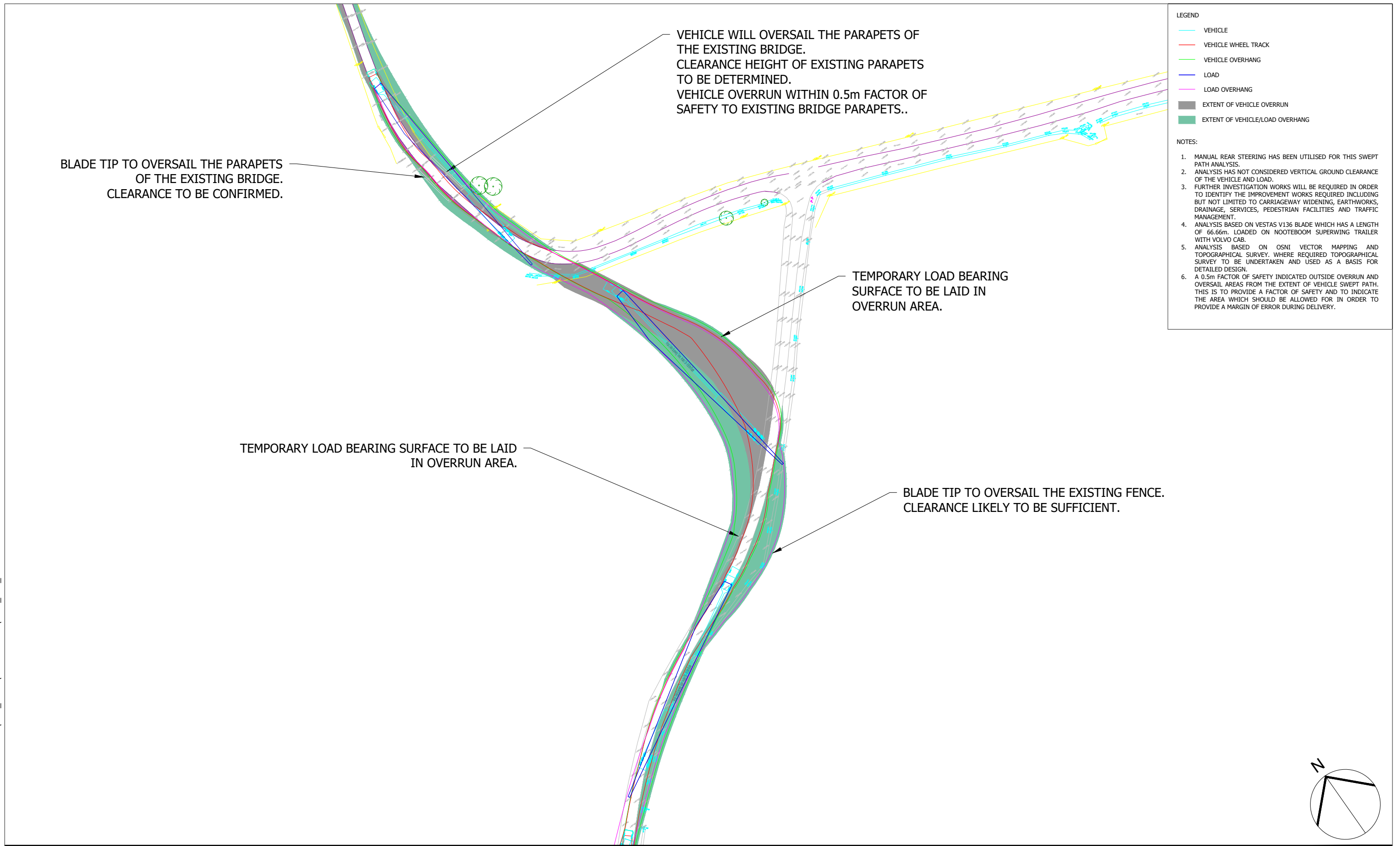
- NOTES:**
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Plot Date: 17 July 2023 10:29:13
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Project Title OWENREAGH / CRAIGNAGNAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title PC 26 BENDS BEFORE JUNCTION TO NAPPLE ROAD HOLLYHILL ROAD - CROSSROAD	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com
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Client 		ERM Internal Project No. 4172	Date 17/07/23				
		Scale @ A3 1:1250					



Plot Date : 17 July 2023 10:29:24
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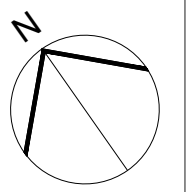


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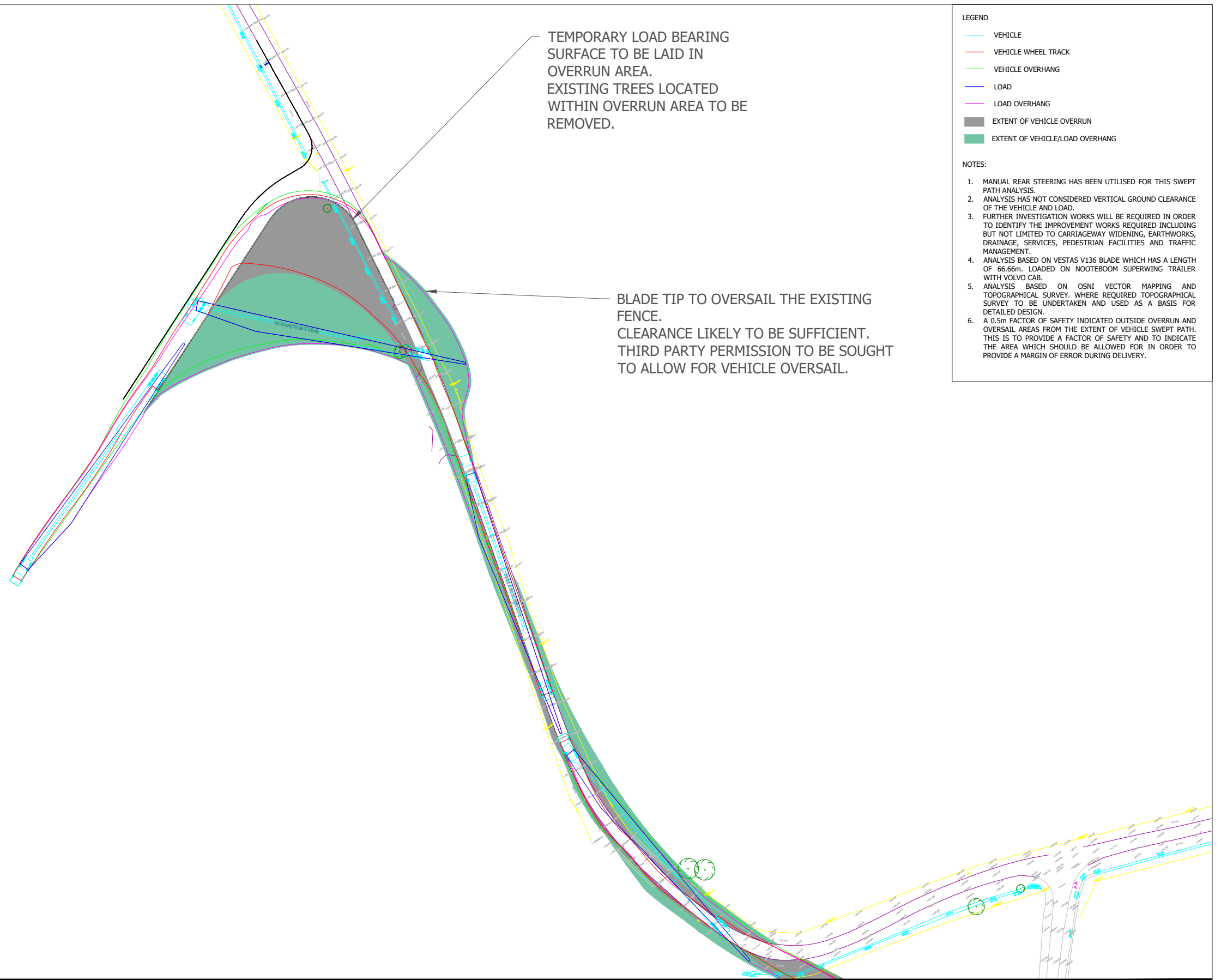
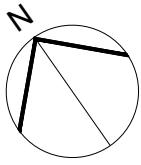
- VEHICLE
- VEHICLE WHEEL TRACK
- VEHICLE OVERHANG
- LOAD
- LOAD OVERHANG
- EXTENT OF VEHICLE OVERRUN
- EXTENT OF VEHICLE/LOAD OVERHANG

NOTES:

1. MANUAL REAR STEERING HAS BEEN UTILISED FOR THIS SWEEPED PATH ANALYSIS.
2. ANALYSIS HAS NOT CONSIDERED VERTICAL GROUND CLEARANCE OF THE VEHICLE AND LOAD.
3. FURTHER INVESTIGATION WORKS WILL BE REQUIRED IN ORDER TO IDENTIFY THE IMPROVEMENT WORKS REQUIRED INCLUDING BUT NOT LIMITED TO CARRIAGEWAY WIDENING, EARTHWORKS, DRAINAGE, SERVICES, PEDESTRIAN FACILITIES AND TRAFFIC MANAGEMENT.
4. ANALYSIS BASED ON VESTAS V136 BLADE WHICH HAS A LENGTH OF 66.66m. LOADED ON NOOTEBOOM SUPERWING TRAILER WITH VOLVO CAB.
5. ANALYSIS BASED ON OSNI VECTOR MAPPING AND TOPOGRAPHICAL SURVEY. WHERE REQUIRED TOPOGRAPHICAL SURVEY TO BE UNDERTAKEN AND USED AS A BASIS FOR DETAILED DESIGN.
6. A 0.5m FACTOR OF SAFETY INDICATED OUTSIDE OVERRUN AND OVERSAIL AREAS FROM THE EXTENT OF VEHICLE SWEEPED PATH. THIS IS TO PROVIDE A FACTOR OF SAFETY AND TO INDICATE THE AREA WHICH SHOULD BE ALLOWED FOR IN ORDER TO PROVIDE A MARGIN OF ERROR DURING DELIVERY.



Project Title OWENREAGH / CRAIGNAGNAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title PC 27 (A) GLENMORNAN ROAD/NAPPLE ROAD JUNCTION	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com	
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Client 		ERM Internal Project No. 4172	Date 17/07/23					
		Scale @ A3 1:1000						



LEGEND

- VEHICLE
- VEHICLE WHEEL TRACK
- VEHICLE OVERHANG
- LOAD
- LOAD OVERHANG
- EXTENT OF VEHICLE OVERRUN
- EXTENT OF VEHICLE/LOAD OVERHANG

NOTES:

1. MANUAL REAR STEERING HAS BEEN UTILISED FOR THIS SWEEP PATH ANALYSIS.
2. ANALYSIS HAS NOT CONSIDERED VERTICAL GROUND CLEARANCE OF THE VEHICLE AND LOAD.
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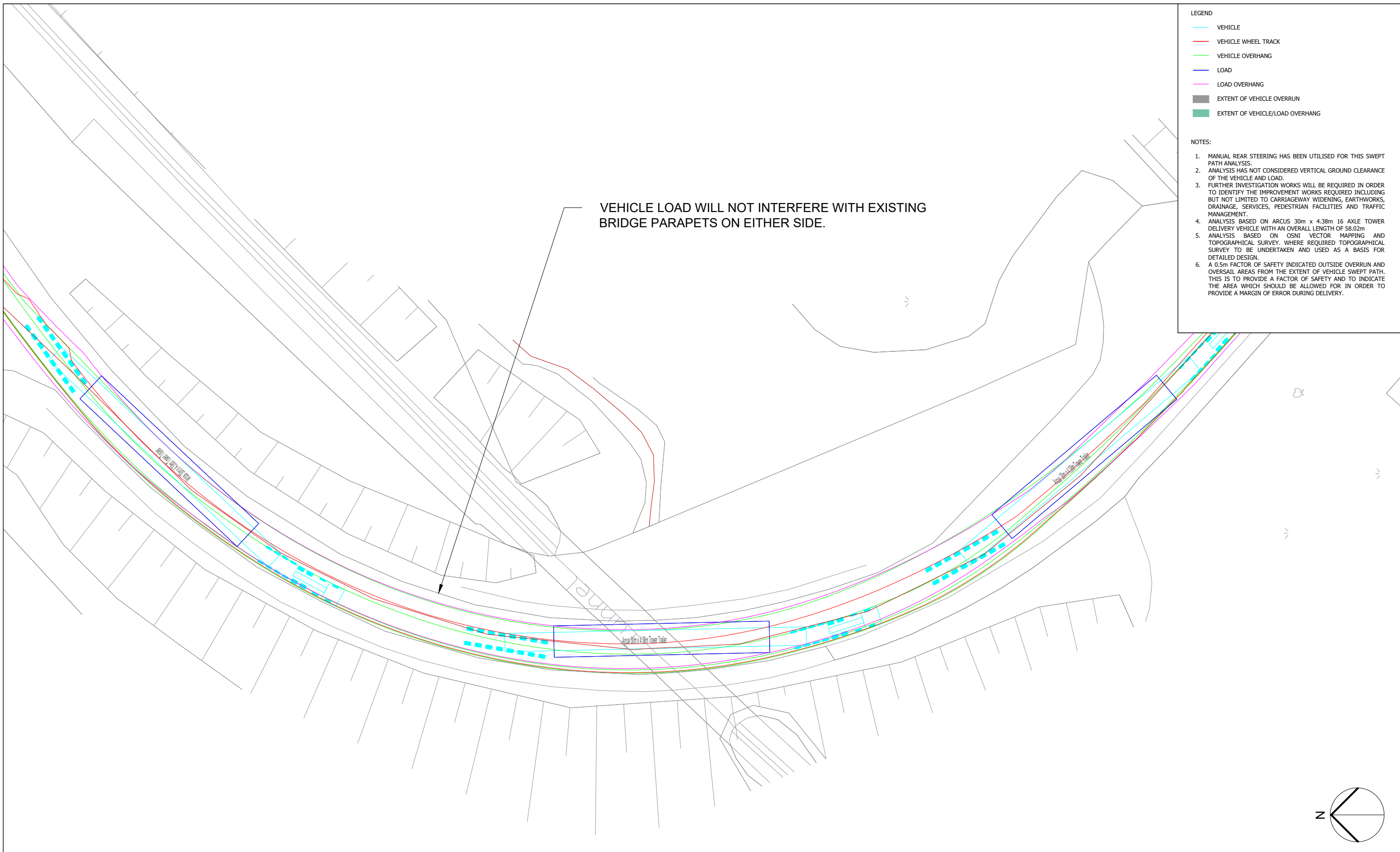
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Project Title OWENREAGH / CRAIGNAGNAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title PC 28 NAPPLE ROAD ACCESS JUNCTION INTO TURBINE 13	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com
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Client 	ERM Internal Project No. 4172 Scale @ A3 1:1000	Date 17/07/23					



APPENDIX D SWEPT PATH ANALYSIS DRAWINGS: TOWER DELIVERY

Plot Date: 17 July 2023 11:55:30
 File Name: Y:\PROJECTS\4172 OWENREAGH WIND FARM\CAD_DATA\01-WORKING\4172_ALR_0001_P4 - TOWER SECTION



LEGEND

- VEHICLE
- VEHICLE WHEEL TRACK
- VEHICLE OVERHANG
- LOAD
- LOAD OVERHANG
- EXTENT OF VEHICLE OVERRUN
- EXTENT OF VEHICLE/LOAD OVERHANG

NOTES:

1. MANUAL REAR STEERING HAS BEEN UTILISED FOR THIS SWEEPED PATH ANALYSIS.
2. ANALYSIS HAS NOT CONSIDERED VERTICAL GROUND CLEARANCE OF THE VEHICLE AND LOAD.
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4. ANALYSIS BASED ON ARCUS 30m x 4.38m 16 AXLE TOWER DELIVERY VEHICLE WITH AN OVERALL LENGTH OF 58.02m
5. ANALYSIS BASED ON OSNI VECTOR MAPPING AND TOPOGRAPHICAL SURVEY. WHERE REQUIRED TOPOGRAPHICAL SURVEY TO BE UNDERTAKEN AND USED AS A BASIS FOR DETAILED DESIGN.
6. A 0.5m FACTOR OF SAFETY INDICATED OUTSIDE OVERRUN AND OVSAIL AREAS FROM THE EXTENT OF VEHICLE SWEEPED PATH. THIS IS TO PROVIDE A FACTOR OF SAFETY AND TO INDICATE THE AREA WHICH SHOULD BE ALLOWED FOR IN ORDER TO PROVIDE A MARGIN OF ERROR DURING DELIVERY.

Project Title
 OWENREAGH / CRAIGNAGAPPLE WF
 ABNORMAL LOAD
 ROUTE ASSESSMENT

Client

Drawing Title
 PC 01
 PORT ROAD
 BEND OVER RAILWAY BRIDGE
 TOWER SECTION DELIVERY

Purpose of issue			
FOR INFORMATION			
Designed CR	Drawn CR	Checked KL	Approved TAT
ERM Internal Project No. 4172		Date 17/07/23	
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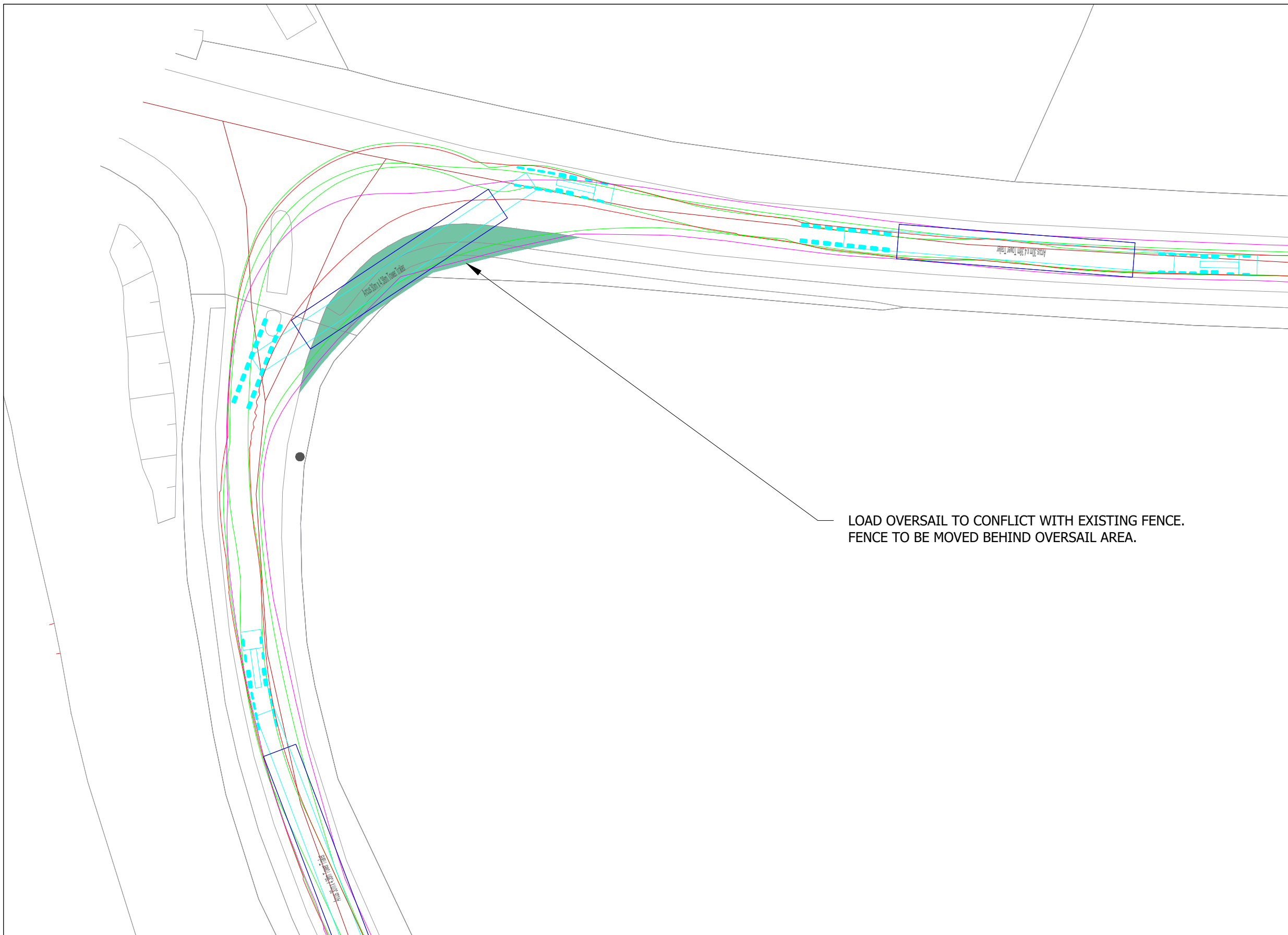
Drawing Number
4172_ALR_0030

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-

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Plot Date : 17 July 2023 11:55:41
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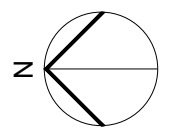
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- VEHICLE
- VEHICLE WHEEL TRACK
- VEHICLE OVERHANG
- LOAD
- LOAD OVERHANG
- EXTENT OF VEHICLE OVERRUN
- EXTENT OF VEHICLE/LOAD OVERHANG

NOTES:

1. MANUAL REAR STEERING HAS BEEN UTILISED FOR THIS SWEEPED PATH ANALYSIS.
2. ANALYSIS HAS NOT CONSIDERED VERTICAL GROUND CLEARANCE OF THE VEHICLE AND LOAD.
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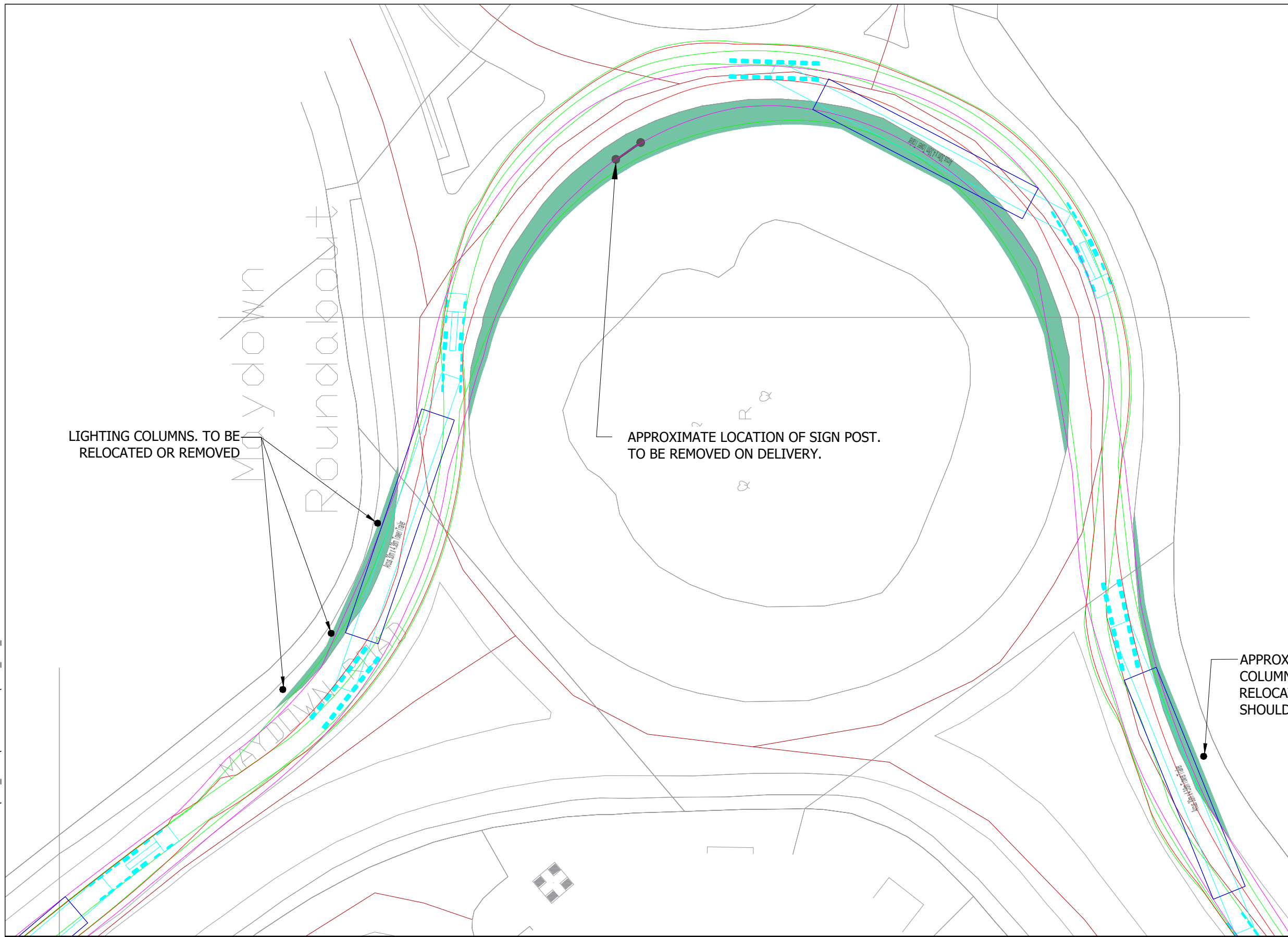
LOAD OVERSAIL TO CONFLICT WITH EXISTING FENCE.
 FENCE TO BE MOVED BEHIND OVERSAIL AREA.



Project Title OWENREAGH / CRAIGNAGAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title PC 02 HAW ROAD / MAYDOWN ROAD JUNCTION TOWER SECTION DELIVERY	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com
		Designed CR	Drawn CR	Checked KL	Approved TAT		
Client 	ERM Internal Project No. 4172 Scale @ A3 1:500	Date 17/07/23					



Plot Date: 17 July 2023 11:55:50
 File Name: Y:\PROJECTS\4172 OWENREAGH WIND FARM\CAD_DATA\01-WORKING\4172_ALR_0001_P4 - TOWER SECTION



LEGEND

- VEHICLE
- VEHICLE WHEEL TRACK
- VEHICLE OVERHANG
- LOAD
- LOAD OVERHANG
- EXTENT OF VEHICLE OVERRUN
- EXTENT OF VEHICLE/LOAD OVERHANG

NOTES:

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Project Title
 OWENREAGH / CRAIGNAGAPPLE WF
 ABNORMAL LOAD
 ROUTE ASSESSMENT

Client

Drawing Title
 PC 03
 MAYDOWN ROUNDABOUT
 TOWER SECTION DELIVERY

Purpose of issue
 FOR INFORMATION

Designed CR	Drawn CR	Checked KL	Approved TAT
ERM Internal Project No. 4172		Date 17/07/23	
Scale @ A3 1:500			

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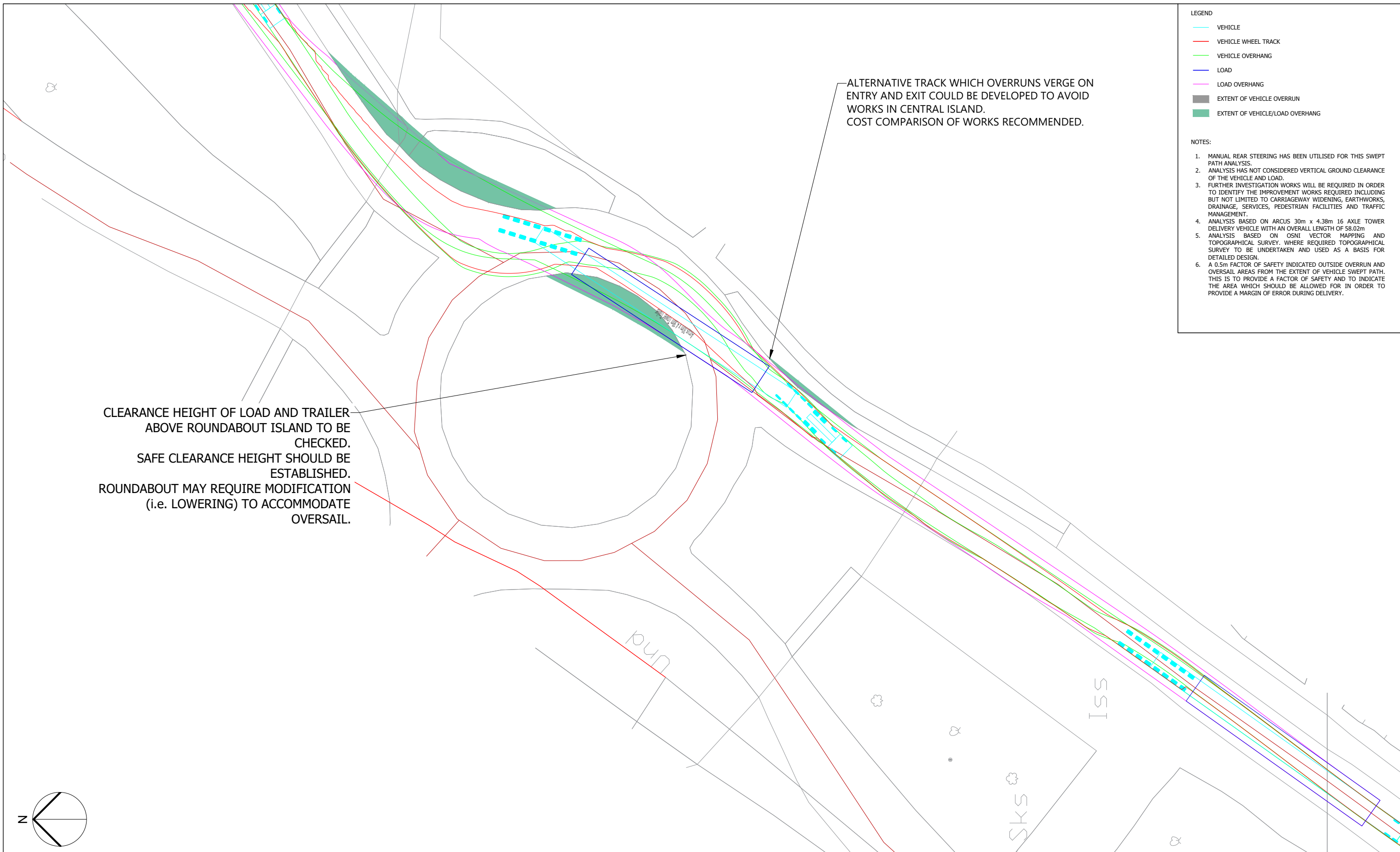
Drawing Number
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-

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Plot Date: 17 July 2023 11:56:00
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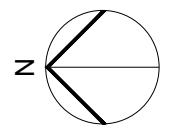


LEGEND

- VEHICLE
- VEHICLE WHEEL TRACK
- VEHICLE OVERHANG
- LOAD
- LOAD OVERHANG
- EXTENT OF VEHICLE OVERRUN
- EXTENT OF VEHICLE/LOAD OVERHANG

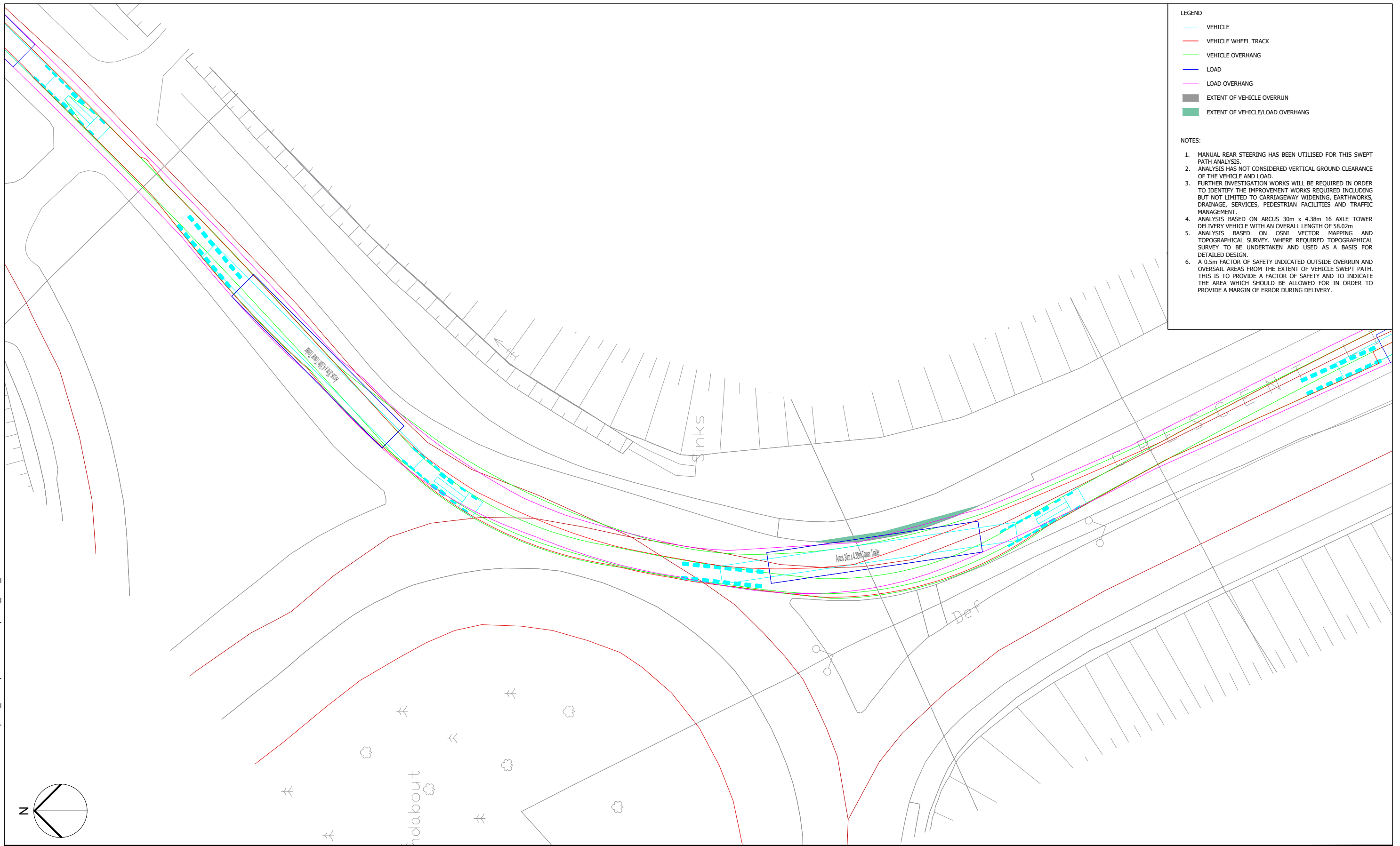
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1. MANUAL REAR STEERING HAS BEEN UTILISED FOR THIS SWEEPED PATH ANALYSIS.
2. ANALYSIS HAS NOT CONSIDERED VERTICAL GROUND CLEARANCE OF THE VEHICLE AND LOAD.
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Project Title OWENREAGH / CRAIGNAGAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title PC 04	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com									
		Client 	GRANSHA ROUNDABOUT TOWER SECTION DELIVERY	<table border="1"> <tr> <td>Designed CR</td> <td>Drawn CR</td> <td>Checked KL</td> <td>Approved TAT</td> </tr> <tr> <td colspan="2">ERM Internal Project No. 4172</td> <td colspan="2">Date 17/07/23</td> </tr> <tr> <td colspan="4">Scale @ A3 1:500</td> </tr> </table>	Designed CR				Drawn CR	Checked KL	Approved TAT	ERM Internal Project No. 4172		Date 17/07/23		Scale @ A3 1:500
Designed CR	Drawn CR	Checked KL	Approved TAT													
ERM Internal Project No. 4172		Date 17/07/23														
Scale @ A3 1:500																

Plot Date : 17 July 2023 11:56:11
 File Name : Y:\PROJECTS\4172 OWENREAGH WIND FARM\CAD_DATA\01-WORKING\4172_ALR_0001_P4 - TOWER SECTION

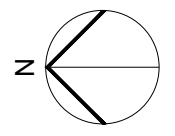


LEGEND

- VEHICLE
- VEHICLE WHEEL TRACK
- VEHICLE OVERHANG
- LOAD
- LOAD OVERHANG
- EXTENT OF VEHICLE OVERRUN
- EXTENT OF VEHICLE/LOAD OVERHANG

NOTES:

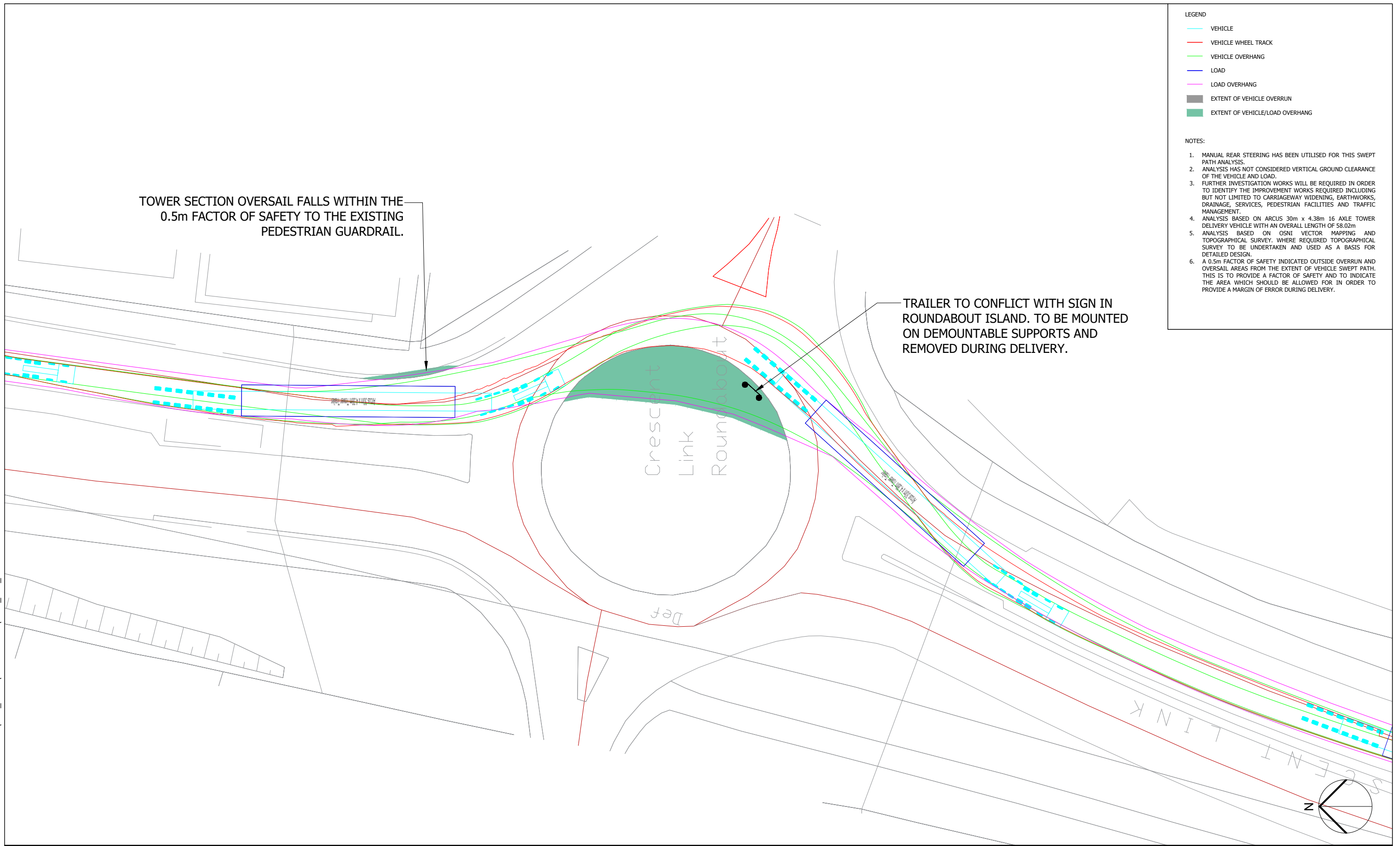
1. MANUAL REAR STEERING HAS BEEN UTILISED FOR THIS SWEEPED PATH ANALYSIS.
2. ANALYSIS HAS NOT CONSIDERED VERTICAL GROUND CLEARANCE OF THE VEHICLE AND LOAD.
3. FURTHER INVESTIGATION WORKS WILL BE REQUIRED IN ORDER TO IDENTIFY THE IMPROVEMENT WORKS REQUIRED INCLUDING BUT NOT LIMITED TO CARRIAGEWAY WIDENING, EARTHWORKS, DRAINAGE, SERVICES, PEDESTRIAN FACILITIES AND TRAFFIC MANAGEMENT.
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Project Title OWENREAGH / CRAIGNAGAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title PC 05 CAW ROUNDABOUT TOWER SECTION DELIVERY	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com
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Client 		ERM Internal Project No. 4172	Date 17/07/23		Rev -		
		Scale @ A3 1:500					



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LEGEND

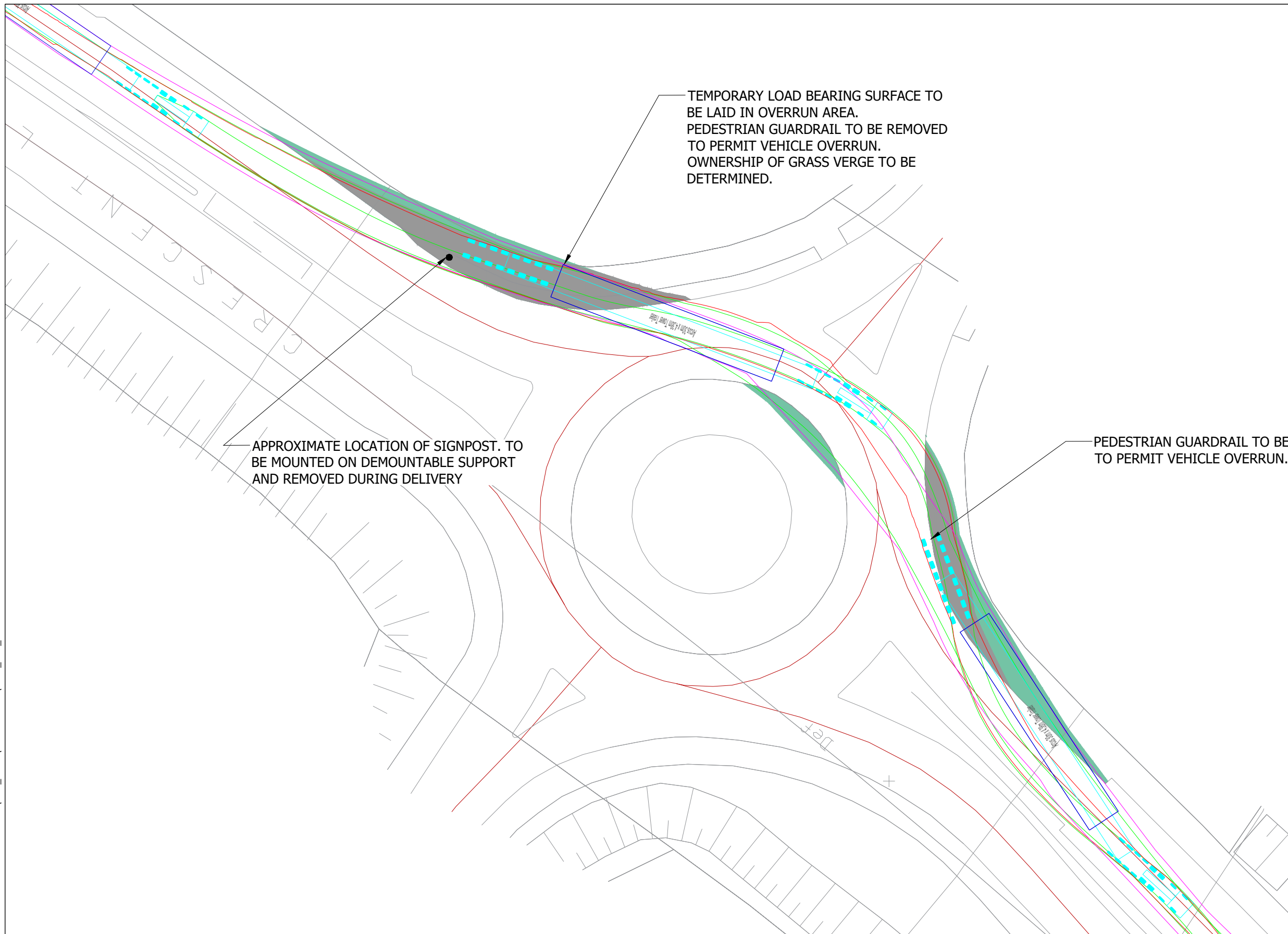
- VEHICLE
- VEHICLE WHEEL TRACK
- VEHICLE OVERHANG
- LOAD
- LOAD OVERHANG
- EXTENT OF VEHICLE OVERRUN
- EXTENT OF VEHICLE/LOAD OVERHANG

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Project Title OWENREAGH / CRAIGNAGAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title PC 06 CRESCENT LINK ROUNDABOUT TOWER SECTION DELIVERY	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com
		Designed CR	Drawn CR	Checked KL	Approved TAT		
Client 		ERM Internal Project No. 4172		Date 17/07/23			

Plot Date: 17 July 2023 11:56:32
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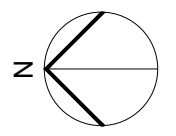


LEGEND

- VEHICLE
- VEHICLE WHEEL TRACK
- VEHICLE OVERHANG
- LOAD
- LOAD OVERHANG
- EXTENT OF VEHICLE OVERRUN
- EXTENT OF VEHICLE/LOAD OVERRUN

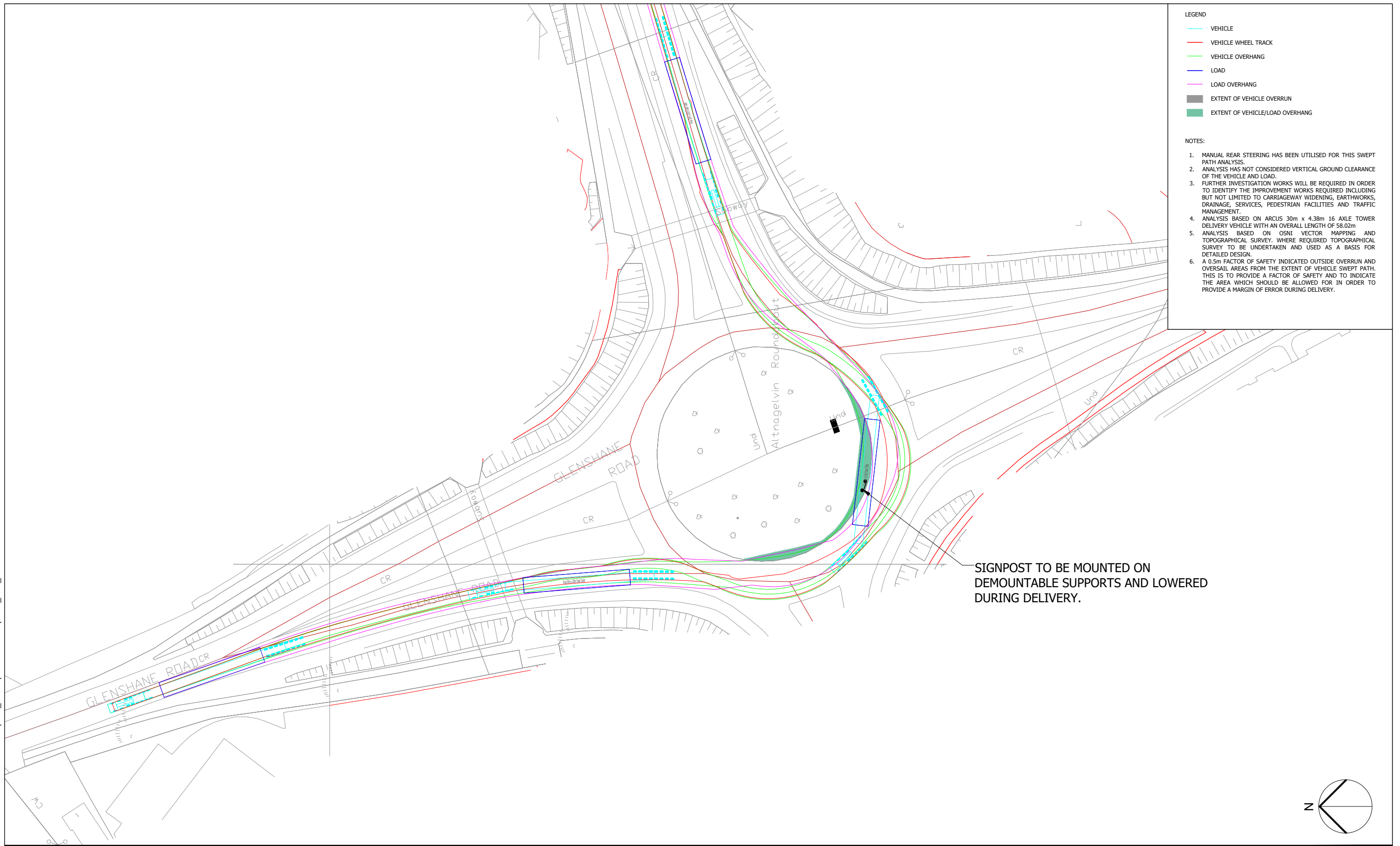
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Project Title OWENREAGH / CRAIGNAGAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title <p style="text-align: center;">PC 07 KILFENNAN ROUNDABOUT TOWER SECTION DELIVERY</p>	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com
		Designed CR	Drawn CR	Checked KL	Approved TAT		
Client 							

Plot Date: 17 July 2023 11:56:42
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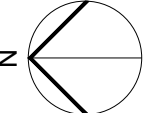


LEGEND

- VEHICLE
- VEHICLE WHEEL TRACK
- VEHICLE OVERHANG
- LOAD
- LOAD OVERHANG
- EXTENT OF VEHICLE OVERRUN
- EXTENT OF VEHICLE/LOAD OVERHANG

NOTES:

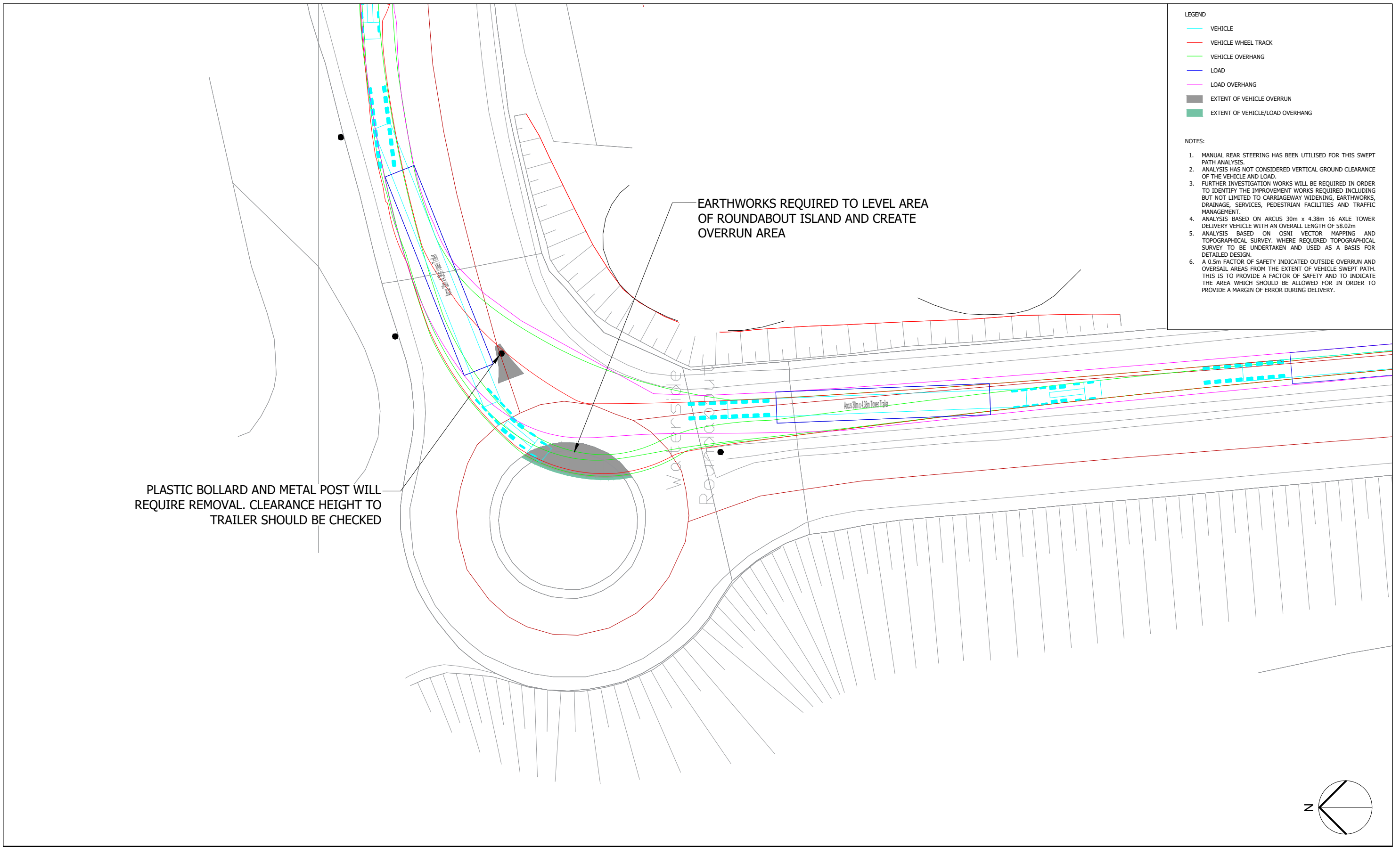
1. MANUAL REAR STEERING HAS BEEN UTILISED FOR THIS SWEEP PATH ANALYSIS.
2. ANALYSIS HAS NOT CONSIDERED VERTICAL GROUND CLEARANCE OF THE VEHICLE AND LOAD.
3. FURTHER INVESTIGATION WORKS WILL BE REQUIRED IN ORDER TO IDENTIFY THE IMPROVEMENT WORKS REQUIRED INCLUDING BUT NOT LIMITED TO CARRIAGEWAY WIDENING, EARTHWORKS, DRAINAGE, SERVICES, PEDESTRIAN FACILITIES AND TRAFFIC MANAGEMENT.
4. ANALYSIS BASED ON ARCUS 30m x 4.38m 16 AXLE TOWER DELIVERY VEHICLE WITH AN OVERALL LENGTH OF 58.02m
5. ANALYSIS BASED ON OSNI VECTOR MAPPING AND TOPOGRAPHICAL SURVEY. WHERE REQUIRED TOPOGRAPHICAL SURVEY TO BE UNDERTAKEN AND USED AS A BASIS FOR DETAILED DESIGN.
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Project Title OWENREAGH / CRAIGNAGAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title PC 08 ALTNAGELVIN ROUNDABOUT TOWER SECTION DELIVERY	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com
		Designed CR	Drawn CR	Checked KL	Approved TAT		
Client		ERM Internal Project No. 4172	Date 17/07/23				
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Plot Date: 17 July 2023 11:56:51
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LEGEND

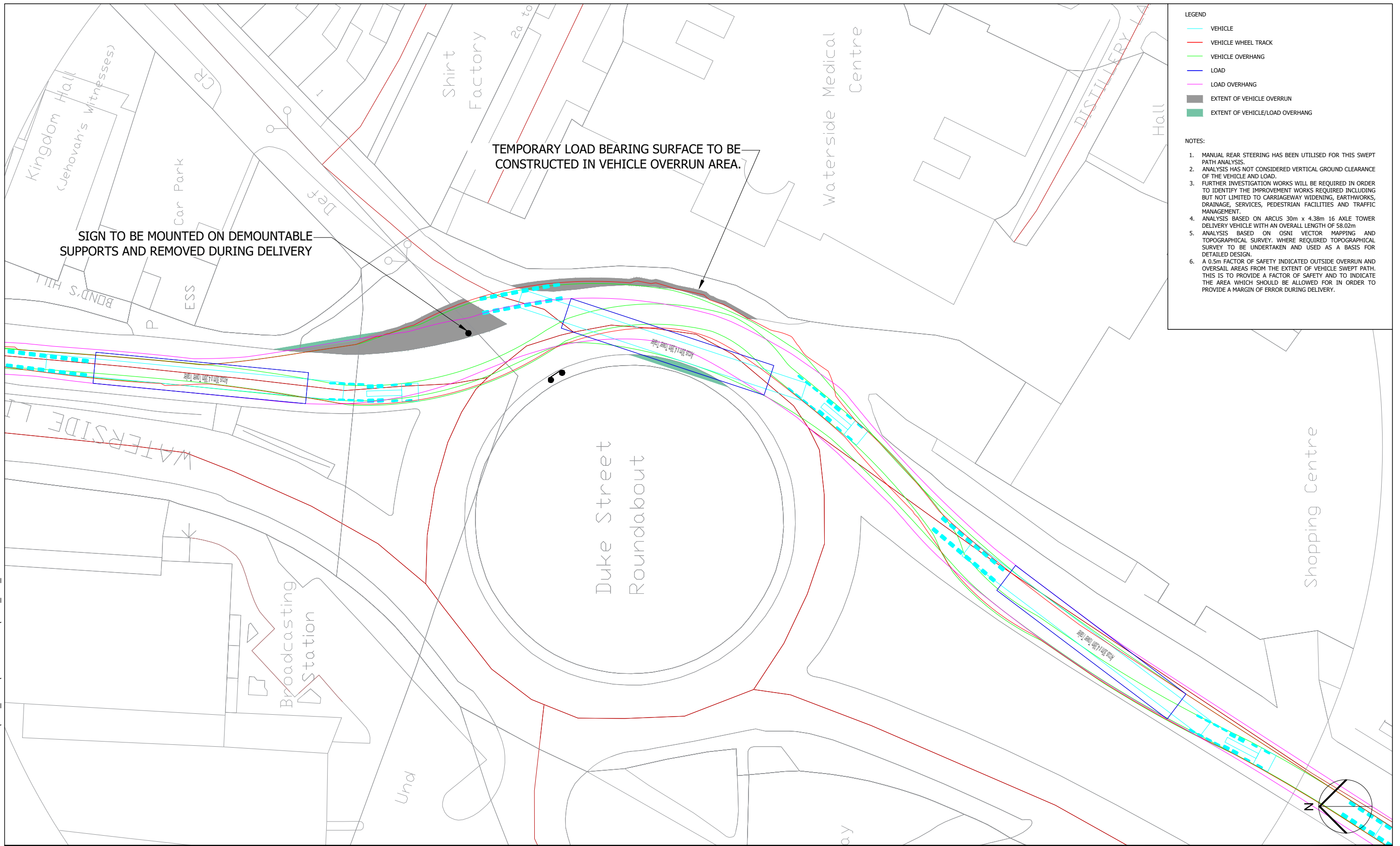
- VEHICLE
- VEHICLE WHEEL TRACK
- VEHICLE OVERHANG
- LOAD
- LOAD OVERHANG
- EXTENT OF VEHICLE OVERRUN
- EXTENT OF VEHICLE/LOAD OVERHANG

NOTES:

1. MANUAL REAR STEERING HAS BEEN UTILISED FOR THIS SWEEP PATH ANALYSIS.
2. ANALYSIS HAS NOT CONSIDERED VERTICAL GROUND CLEARANCE OF THE VEHICLE AND LOAD.
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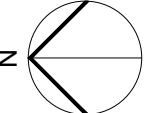
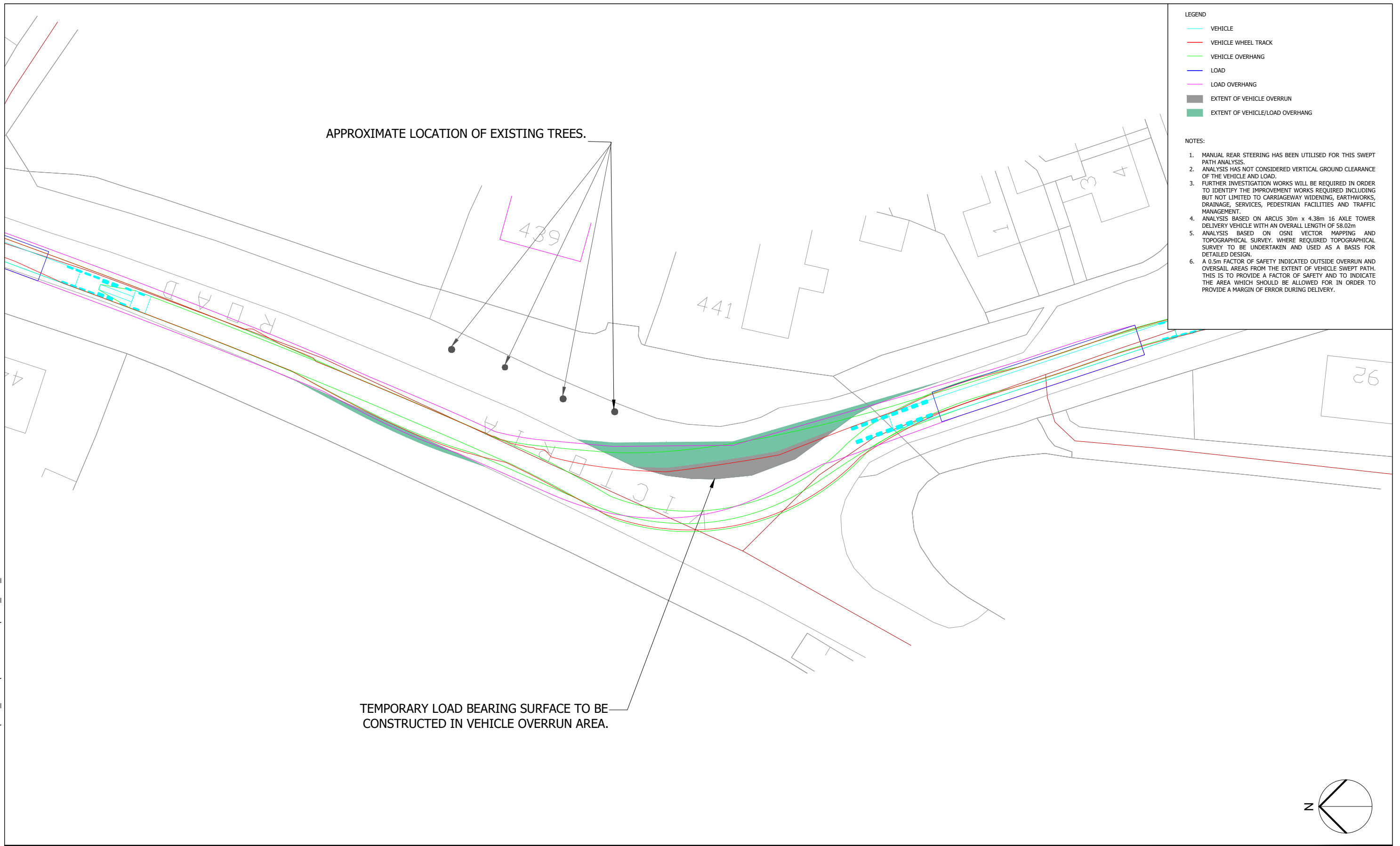
<p>Project Title OWENREAGH / CRAIGNAGAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT</p>	<p>Drawing Title PC 09 WATERSIDE ROUNDABOUT TOWER SECTION DELIVERY</p>	<p>Purpose of issue FOR INFORMATION</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Designed CR</td> <td style="width: 25%;">Drawn CR</td> <td style="width: 25%;">Checked KL</td> <td style="width: 25%;">Approved TAT</td> </tr> <tr> <td colspan="2">ERM Internal Project No. 4172</td> <td colspan="2">Date 17/07/23</td> </tr> <tr> <td colspan="4">Scale @ A3 1:500</td> </tr> </table>	Designed CR	Drawn CR	Checked KL	Approved TAT	ERM Internal Project No. 4172		Date 17/07/23		Scale @ A3 1:500				<p>THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">Drawing Number 4172_ALR_0038</td> <td style="width: 30%;">Rev -</td> </tr> </table>	Drawing Number 4172_ALR_0038	Rev -	<p>Environmental Resources Management (ERM)</p> <p>6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750</p> <p>www.erm.com</p>
Designed CR	Drawn CR	Checked KL	Approved TAT															
ERM Internal Project No. 4172		Date 17/07/23																
Scale @ A3 1:500																		
Drawing Number 4172_ALR_0038	Rev -																	
<p>Client </p>																		



Plot Date: 17 July 2023 11:57:00
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Project Title OWENREAGH / CRAIGNAGAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title PC 10 DUKE STREET ROUNDABOUT TOWER SECTION DELIVERY	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com	
		Designed CR	Drawn CR	Checked KL	Approved TAT			
Client 		ERM Internal Project No. 4172	Date 17/07/23					
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Plot Date: 17 July 2023 11:57:11
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Project Title OWENREAGH / CRAIGNAGAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title PC 11 A5 / WOODEND ROAD JUNCTION TOWER SECTION DELIVERY	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com	
		Designed CR	Drawn CR	Checked KL	Approved TAT			
Client 		Scale @ A3 1:500						

Plot Date : 17 July 2023 11:57:21
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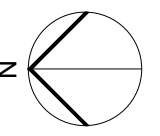
LEGEND

- VEHICLE
- VEHICLE WHEEL TRACK
- VEHICLE OVERHANG
- LOAD
- LOAD OVERHANG
- EXTENT OF VEHICLE OVERRUN
- EXTENT OF VEHICLE/LOAD OVERHANG

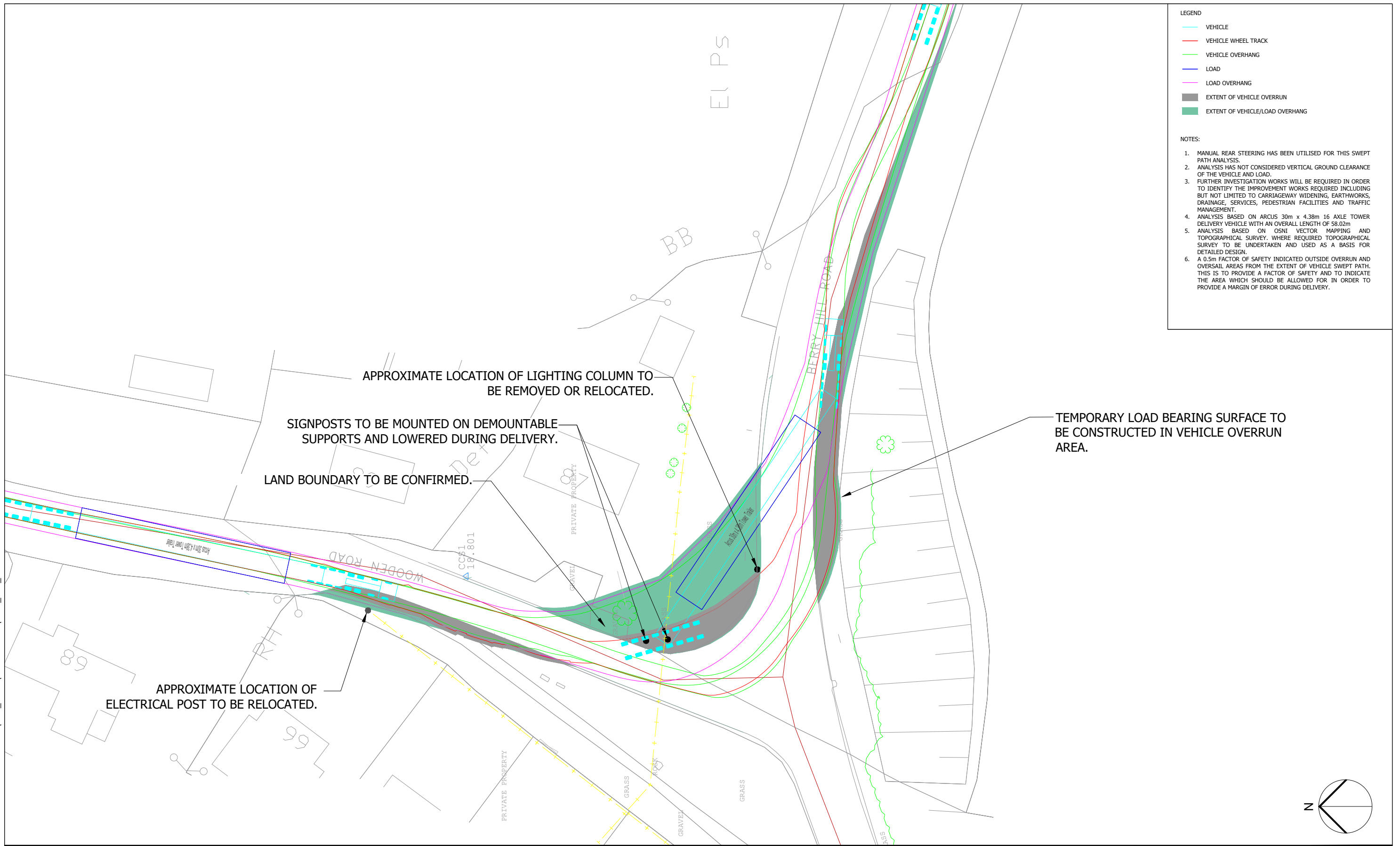
NOTES:

1. MANUAL REAR STEERING HAS BEEN UTILISED FOR THIS SWEEPED PATH ANALYSIS.
2. ANALYSIS HAS NOT CONSIDERED VERTICAL GROUND CLEARANCE OF THE VEHICLE AND LOAD.
3. FURTHER INVESTIGATION WORKS WILL BE REQUIRED IN ORDER TO IDENTIFY THE IMPROVEMENT WORKS REQUIRED INCLUDING BUT NOT LIMITED TO CARRIAGEWAY WIDENING, EARTHWORKS, DRAINAGE, SERVICES, PEDESTRIAN FACILITIES AND TRAFFIC MANAGEMENT.
4. ANALYSIS BASED ON ARCUS 30m x 4.38m 16 AXLE TOWER DELIVERY VEHICLE WITH AN OVERALL LENGTH OF 58.02m
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Project Title OWENREAGH / CRAIGNAGAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title PC 12 WOODEND ROAD BALLYMAGORRY TOWER SECTION DELIVERY	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com
		Designed CR	Drawn CR	Checked KL	Approved TAT		
Client 		ERM Internal Project No. 4172		Date 17/07/23		Rev -	



Plot Date: 17 July 2023 11:57:31
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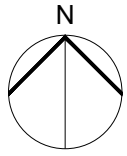
LEGEND

- VEHICLE
- VEHICLE WHEEL TRACK
- VEHICLE OVERHANG
- LOAD
- LOAD OVERHANG
- EXTENT OF VEHICLE OVERRUN
- EXTENT OF VEHICLE/LOAD OVERHANG

NOTES:

1. MANUAL REAR STEERING HAS BEEN UTILISED FOR THIS SWEEPED PATH ANALYSIS.
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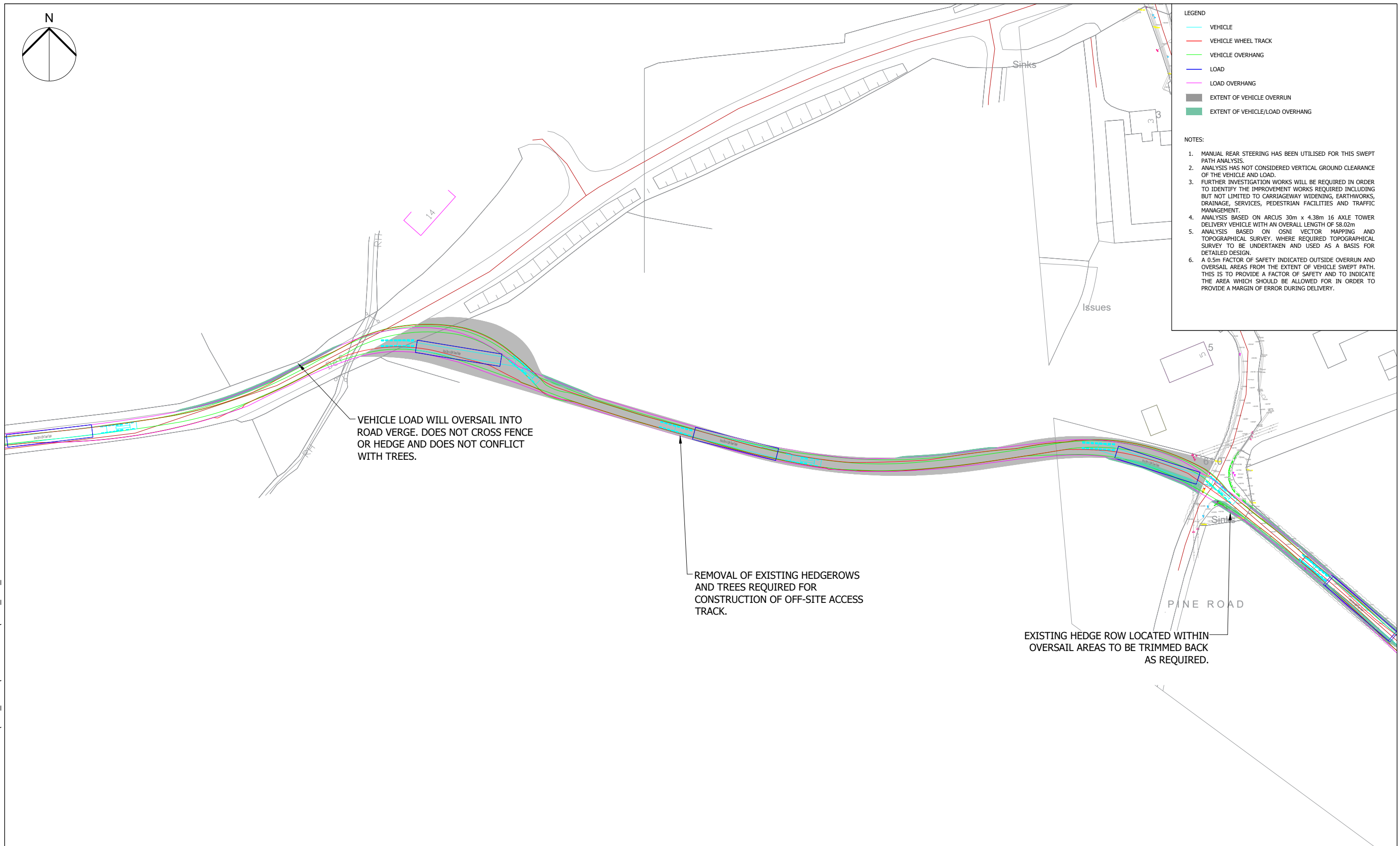
Project Title OWENREAGH / CRAIGNAGAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title PC 13 WOODEND ROAD / BERRYHILL ROAD JUNCTION TOWER SECTION DELIVERY	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com
		Designed CR	Drawn CR	Checked KL	Approved TAT		
Client 		ERM Internal Project No. 4172		Date 17/07/23		Rev -	



LEGEND

—	VEHICLE
—	VEHICLE WHEEL TRACK
—	VEHICLE OVERHANG
—	LOAD
—	LOAD OVERHANG
	EXTENT OF VEHICLE OVERRUN
	EXTENT OF VEHICLE/LOAD OVERHANG

- NOTES:**
1. MANUAL REAR STEERING HAS BEEN UTILISED FOR THIS SWEEP PATH ANALYSIS.
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VEHICLE LOAD WILL OVERSAIL INTO ROAD VERGE. DOES NOT CROSS FENCE OR HEDGE AND DOES NOT CONFLICT WITH TREES.

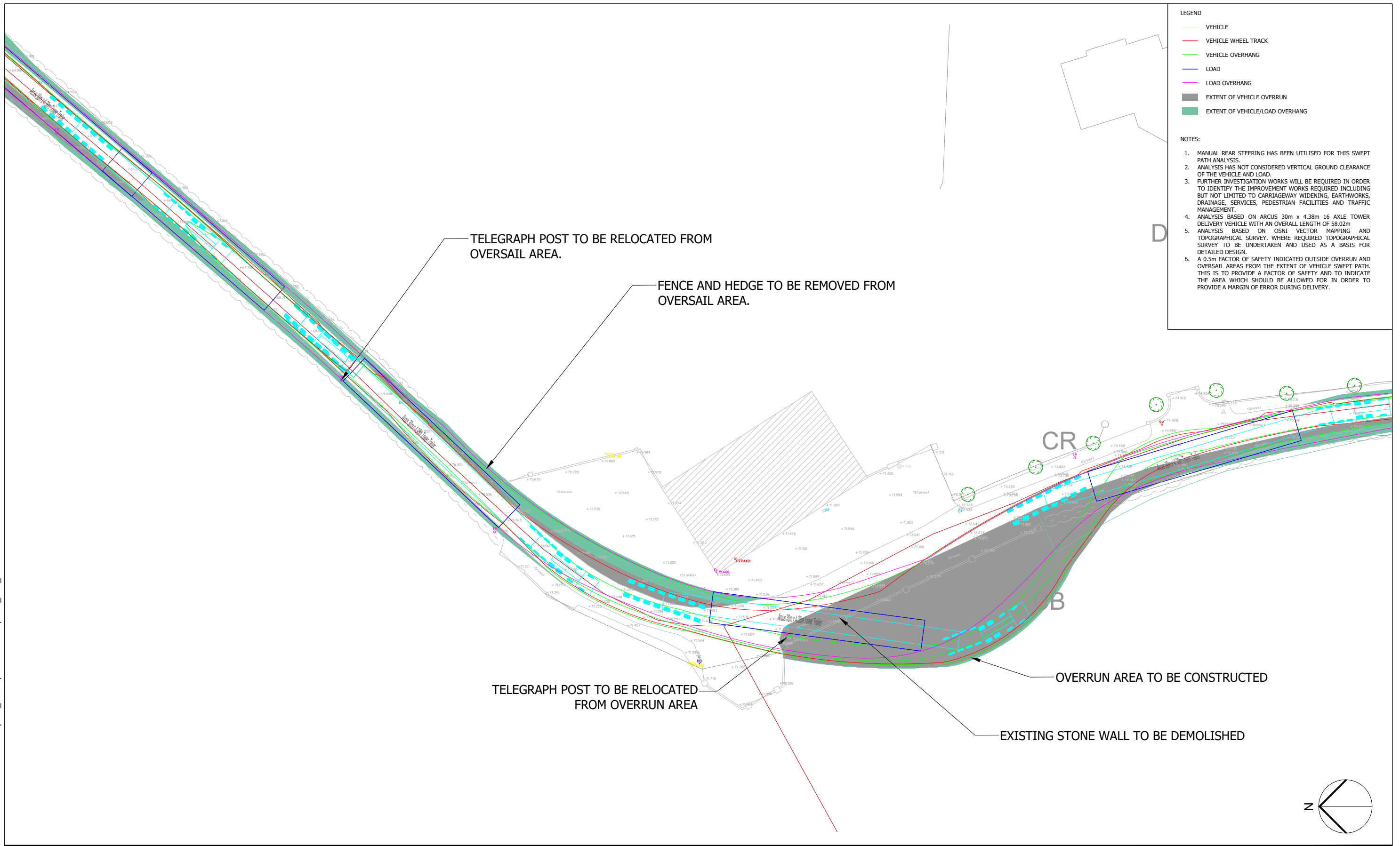
REMOVAL OF EXISTING HEDGEROWS AND TREES REQUIRED FOR CONSTRUCTION OF OFF-SITE ACCESS TRACK.

EXISTING HEDGE ROW LOCATED WITHIN OVERSAIL AREAS TO BE TRIMMED BACK AS REQUIRED.

Plot Date: 17 July 2023 11:57:43
File Name: Y:\PROJECTS\4172 OWENREAGH WIND FARM\CAD_DATA\01-WORKING\4172_ALR_0001_P4 - TOWER SECTION

Project Title OWENREAGH / CRAIGNAGAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title PC 14 C BERRYHILL ROAD / OFF SITE ACCESS TRACK / SENTRY ROAD TOWER SECTION DELIVERY	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com	
		Designed CR	Drawn CR	Checked KL	Approved TAT			
Client 		Scale @ A3 1:1250						

Plot Date: 17 July 2023 11:57:53
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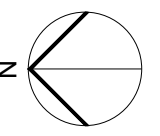
LEGEND

- VEHICLE
- VEHICLE WHEEL TRACK
- VEHICLE OVERHANG
- LOAD
- LOAD OVERHANG
- EXTENT OF VEHICLE OVERRUN
- EXTENT OF VEHICLE/LOAD OVERHANG

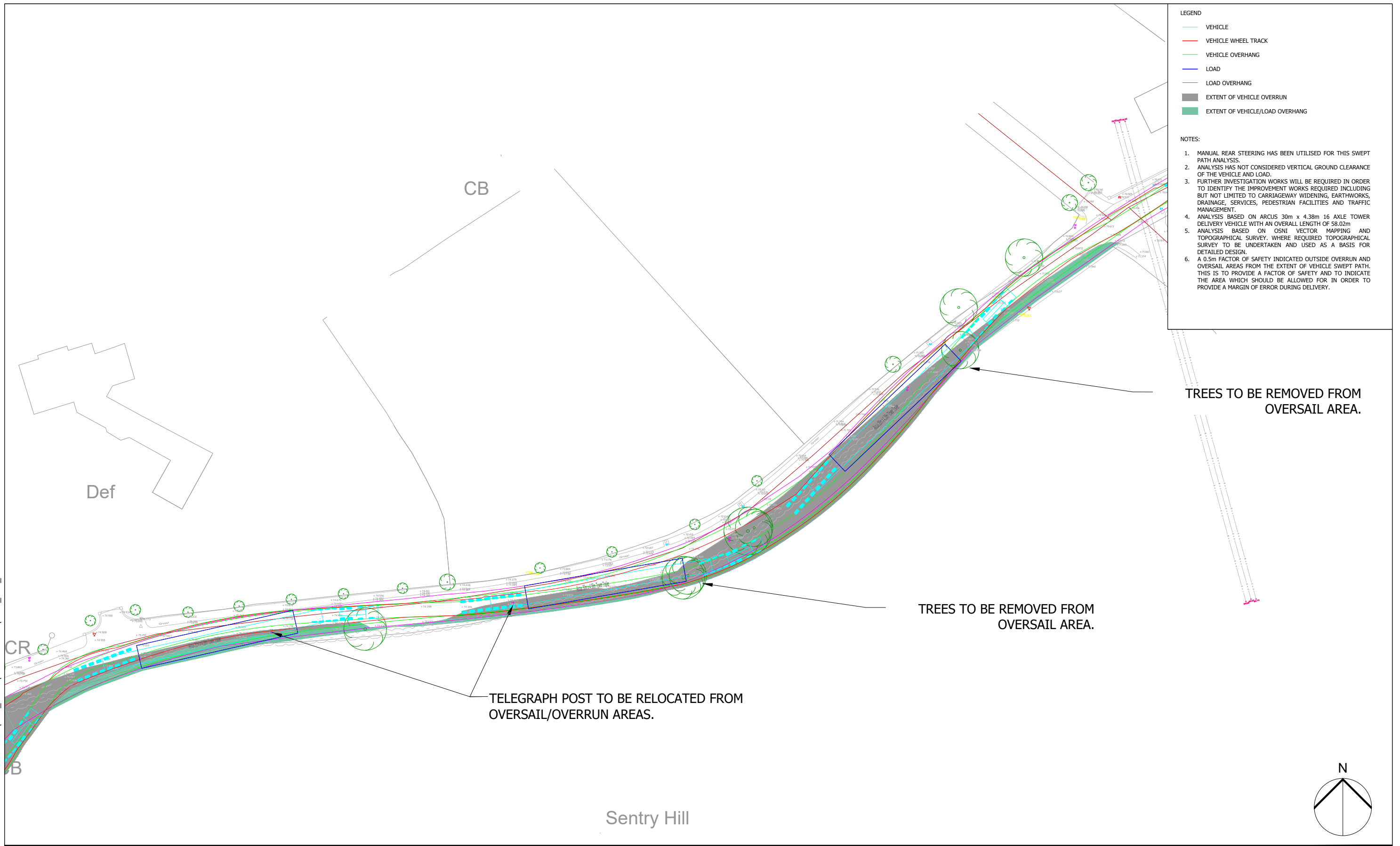
NOTES:

1. MANUAL REAR STEERING HAS BEEN UTILISED FOR THIS SWEEPED PATH ANALYSIS.
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Project Title OWENREAGH / CRAIGNAGAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title PC 15 BENDS AT FARMYARD, SENTRY ROAD TOWER SECTION DELIVERY	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com
		Designed CR	Drawn CR	Checked KL	Approved TAT		
Client 		ERM Internal Project No. 4172		Date 17/07/23		Rev -	



Plot Date: 17 July 2023 11:58:03
File Name: Y:\PROJECTS\4172 OWENREAGH WIND FARM\CAD_DATA\01-WORKING\4172_ALR_0001_P4 - TOWER SECTION



LEGEND

- VEHICLE
- VEHICLE WHEEL TRACK
- VEHICLE OVERHANG
- LOAD
- LOAD OVERHANG
- EXTENT OF VEHICLE OVERRUN
- EXTENT OF VEHICLE/LOAD OVERHANG

NOTES:

1. MANUAL REAR STEERING HAS BEEN UTILISED FOR THIS SWEEPED PATH ANALYSIS.
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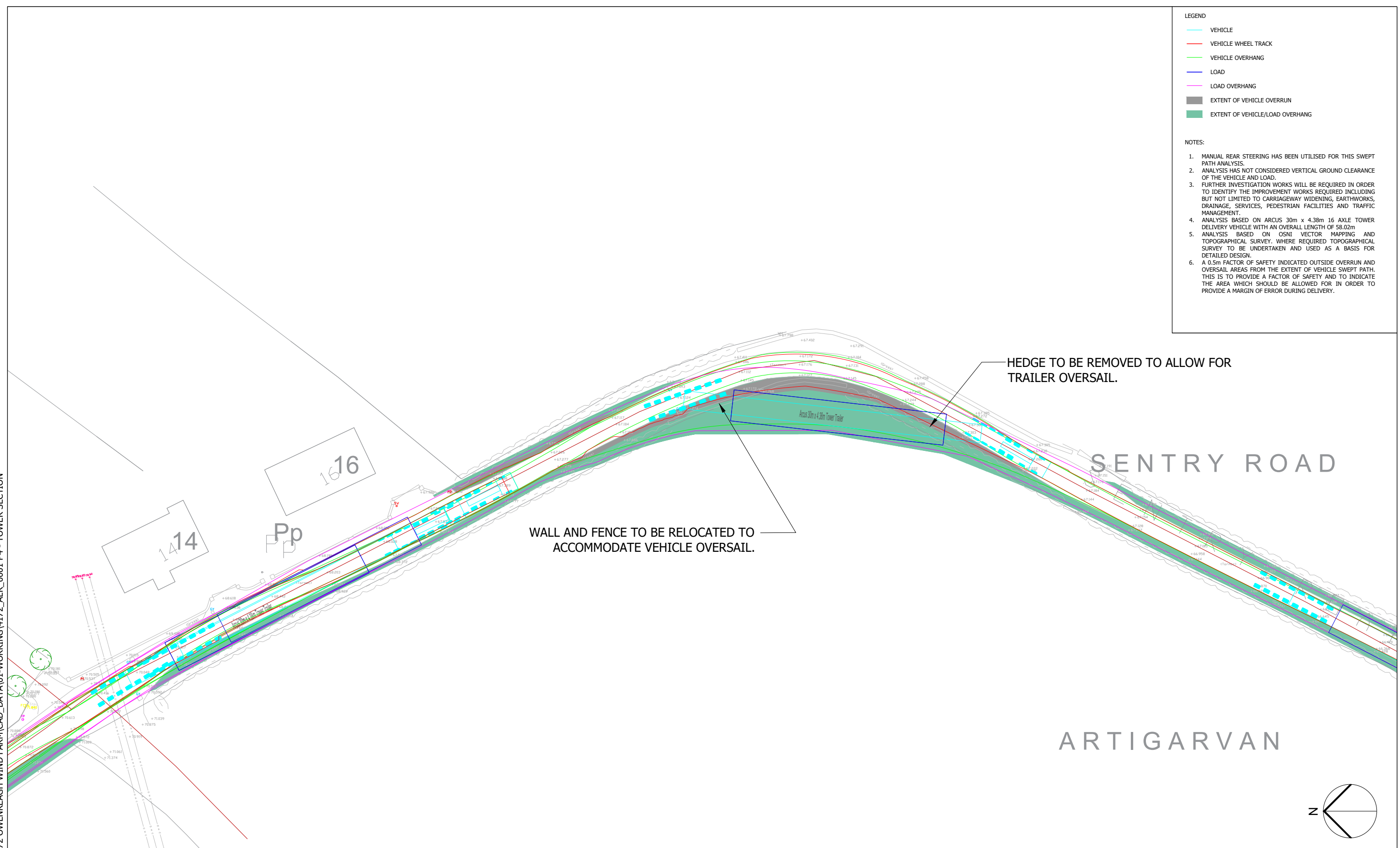
Project Title OWENREAGH / CRAIGNAGAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title PC 16 (B) BEND AT 10 SENTRY ROAD TOWER SECTION DELIVERY	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com
		Designed CR	Drawn CR	Checked KL	Approved TAT		
Client 							

LEGEND

- VEHICLE
- VEHICLE WHEEL TRACK
- VEHICLE OVERHANG
- LOAD
- LOAD OVERHANG
- EXTENT OF VEHICLE OVERRUN
- EXTENT OF VEHICLE/LOAD OVERHANG

NOTES:

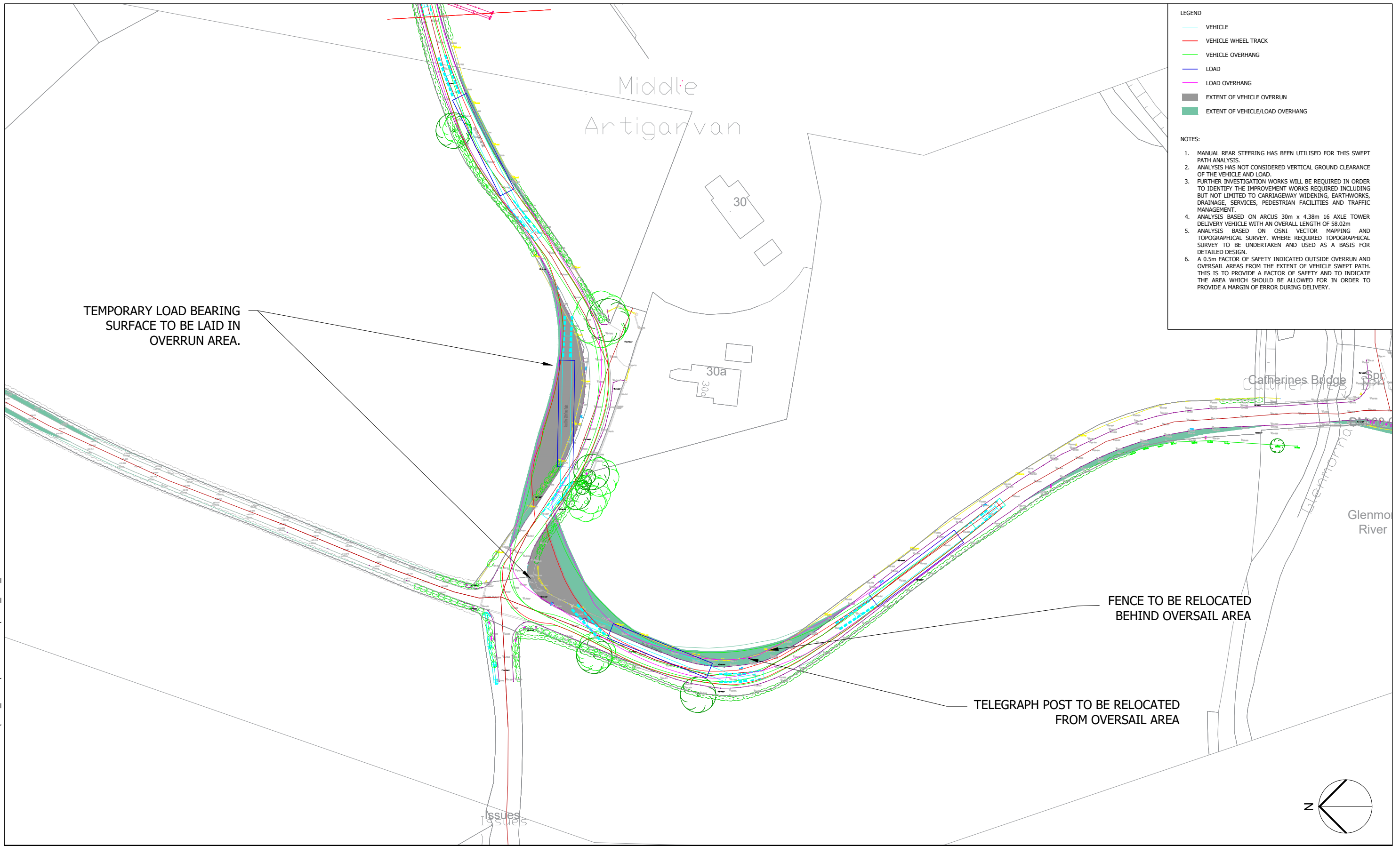
1. MANUAL REAR STEERING HAS BEEN UTILISED FOR THIS SWEEP PATH ANALYSIS.
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Plot Date: 17 July 2023 11:58:17
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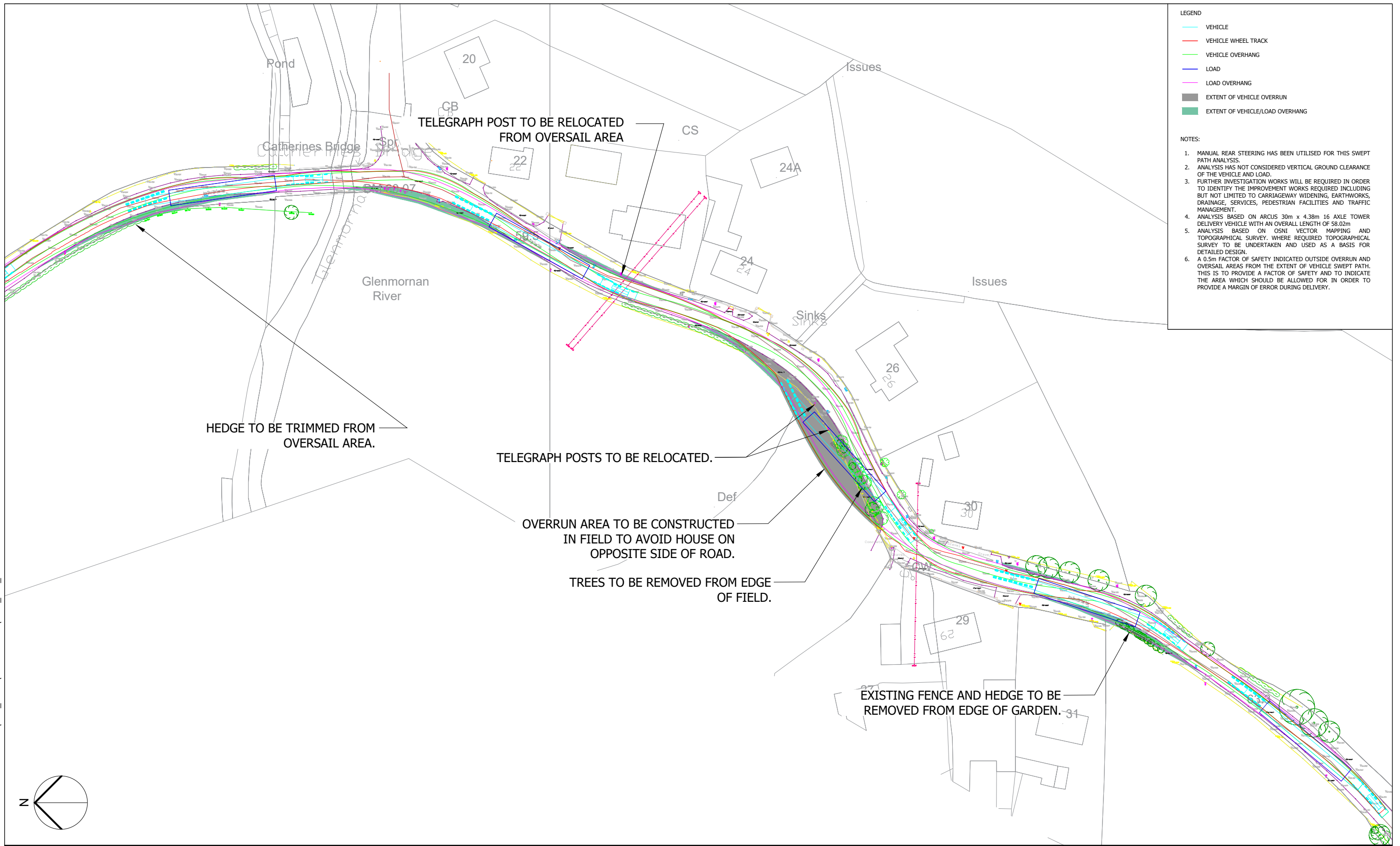
Project Title OWENREAGH / CRAIGNAGAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title PC 17 BEND BEYOND 3 SENTRY ROAD TOWER SECTION DELIVERY	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com
		Designed CR	Drawn CR	Checked KL	Approved TAT		
Client 		ERM Internal Project No. 4172		Date 17/07/23			
		Scale @ A3 1:500					

Plot Date: 17 July 2023 11:58:32
 File Name: Y:\PROJECTS\4172 OWENREAGH WIND FARM\CAD_DATA\01-WORKING\4172_ALR_0001_P4 - TOWER SECTION



Project Title OWENREAGH / CRAIGNAGAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title PC 18 OPTION 2 ART ROAD / SENTRY ROAD JUNCTION TOWER SECTION DELIVERY	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com	
		Designed CR	Drawn CR	Checked KL	Approved TAT			
Client 		Scale @ A3 1:1000						

Plot Date: 17 July 2023 11:58:48
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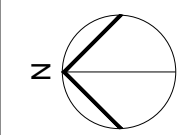


LEGEND

- VEHICLE
- VEHICLE WHEEL TRACK
- VEHICLE OVERHANG
- LOAD
- LOAD OVERHANG
- EXTENT OF VEHICLE OVERRUN
- EXTENT OF VEHICLE/LOAD OVERHANG

NOTES:

1. MANUAL REAR STEERING HAS BEEN UTILISED FOR THIS SWEEPED PATH ANALYSIS.
2. ANALYSIS HAS NOT CONSIDERED VERTICAL GROUND CLEARANCE OF THE VEHICLE AND LOAD.
3. FURTHER INVESTIGATION WORKS WILL BE REQUIRED IN ORDER TO IDENTIFY THE IMPROVEMENT WORKS REQUIRED INCLUDING BUT NOT LIMITED TO CARRIAGEWAY WIDENING, EARTHWORKS, DRAINAGE, SERVICES, PEDESTRIAN FACILITIES AND TRAFFIC MANAGEMENT.
4. ANALYSIS BASED ON ARCUS 30m x 4.38m 16 AXLE TOWER DELIVERY VEHICLE WITH AN OVERALL LENGTH OF 58.02m
5. ANALYSIS BASED ON OSNI VECTOR MAPPING AND TOPOGRAPHICAL SURVEY. WHERE REQUIRED TOPOGRAPHICAL SURVEY TO BE UNDERTAKEN AND USED AS A BASIS FOR DETAILED DESIGN.
6. A 0.5m FACTOR OF SAFETY INDICATED OUTSIDE OVERRUN AND OVERSAIL AREAS FROM THE EXTENT OF VEHICLE SWEEPED PATH. THIS IS TO PROVIDE A FACTOR OF SAFETY AND TO INDICATE THE AREA WHICH SHOULD BE ALLOWED FOR IN ORDER TO PROVIDE A MARGIN OF ERROR DURING DELIVERY.



Project Title OWENREAGH / CRAIGNAGAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title PC 19 BENDS AT 33 MOORLOUGH ROAD TOWER SECTION DELIVERY	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com	
		Client 	Designed CR	Drawn CR	Checked KL			

Plot Date: 17 July 2023 11:59:07
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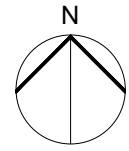


LEGEND

- VEHICLE
- VEHICLE WHEEL TRACK
- VEHICLE OVERHANG
- LOAD
- LOAD OVERHANG
- EXTENT OF VEHICLE OVERRUN
- EXTENT OF VEHICLE/LOAD OVERHANG

NOTES:

1. MANUAL REAR STEERING HAS BEEN UTILISED FOR THIS SWEEPED PATH ANALYSIS.
2. ANALYSIS HAS NOT CONSIDERED VERTICAL GROUND CLEARANCE OF THE VEHICLE AND LOAD.
3. FURTHER INVESTIGATION WORKS WILL BE REQUIRED IN ORDER TO IDENTIFY THE IMPROVEMENT WORKS REQUIRED INCLUDING BUT NOT LIMITED TO CARRIAGEWAY WIDENING, EARTHWORKS, DRAINAGE, SERVICES, PEDESTRIAN FACILITIES AND TRAFFIC MANAGEMENT.
4. ANALYSIS BASED ON ARCUS 30m x 4.38m 16 AXLE TOWER DELIVERY VEHICLE WITH AN OVERALL LENGTH OF 58.02m
5. ANALYSIS BASED ON OSNI VECTOR MAPPING AND TOPOGRAPHICAL SURVEY, WHERE REQUIRED TOPOGRAPHICAL SURVEY TO BE UNDERTAKEN AND USED AS A BASIS FOR DETAILED DESIGN.
6. A 0.5m FACTOR OF SAFETY INDICATED OUTSIDE OVERRUN AND OVERSAIL AREAS FROM THE EXTENT OF VEHICLE SWEEPED PATH. THIS IS TO PROVIDE A FACTOR OF SAFETY AND TO INDICATE THE AREA WHICH SHOULD BE ALLOWED FOR IN ORDER TO PROVIDE A MARGIN OF ERROR DURING DELIVERY.



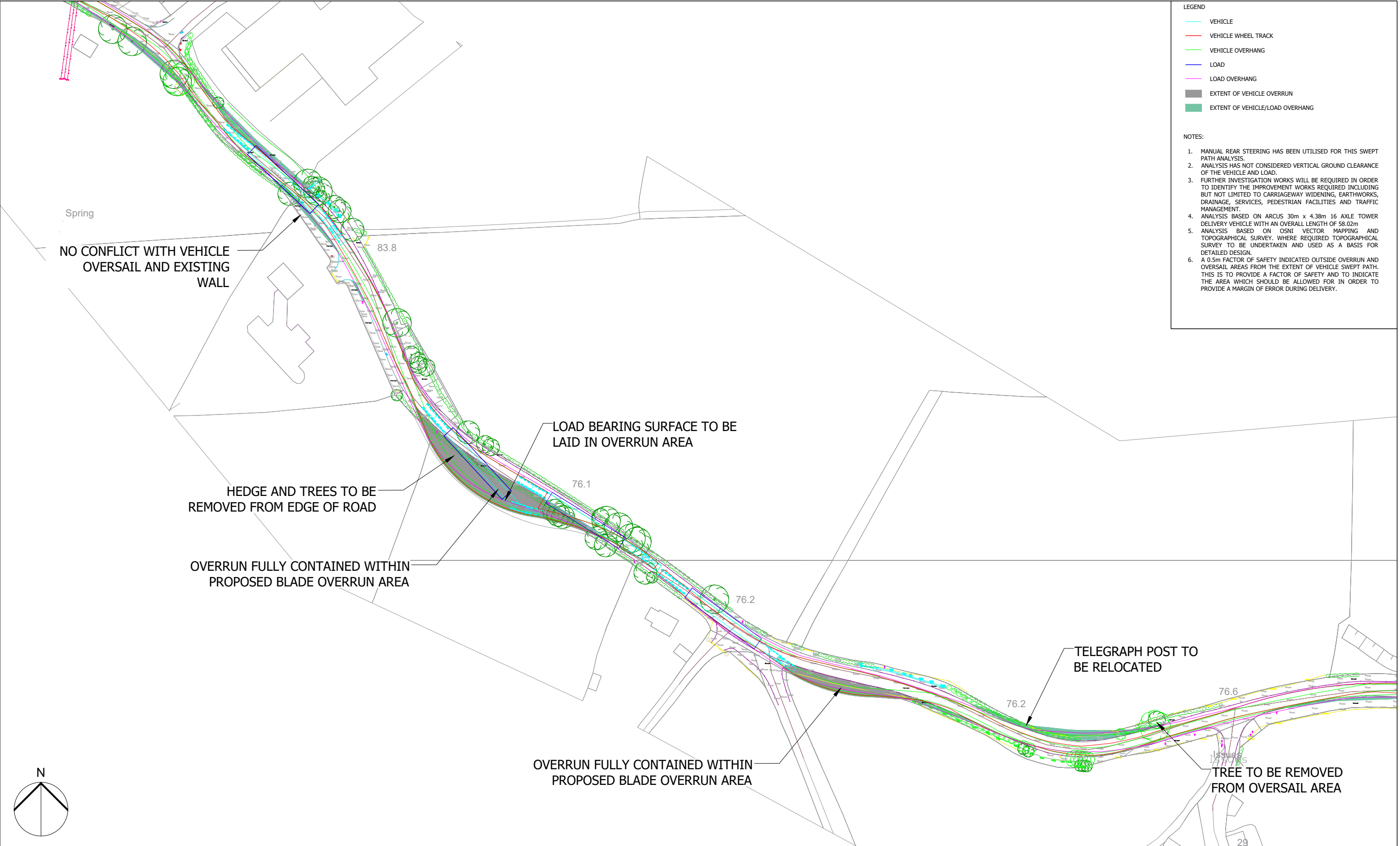
Project Title OWENREAGH / CRAIGNAGAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title PC 20 BENDS AT 45 MOORLOUGH ROAD TOWER SECTION DELIVERY	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com
		Designed CR	Drawn CR	Checked KL	Approved TAT		
Client 							

LEGEND

- VEHICLE
- VEHICLE WHEEL TRACK
- VEHICLE OVERHANG
- LOAD
- LOAD OVERHANG
- EXTENT OF VEHICLE OVERRUN
- EXTENT OF VEHICLE/LOAD OVERHANG

NOTES:

1. MANUAL REAR STEERING HAS BEEN UTILISED FOR THIS SWEEP PATH ANALYSIS.
2. ANALYSIS HAS NOT CONSIDERED VERTICAL GROUND CLEARANCE OF THE VEHICLE AND LOAD.
3. FURTHER INVESTIGATION WORKS WILL BE REQUIRED IN ORDER TO IDENTIFY THE IMPROVEMENT WORKS REQUIRED INCLUDING BUT NOT LIMITED TO CARRIAGEWAY WIDENING, EARTHWORKS, DRAINAGE, SERVICES, PEDESTRIAN FACILITIES AND TRAFFIC MANAGEMENT.
4. ANALYSIS BASED ON ARCUS 30m x 4.38m 16 AXLE TOWER DELIVERY VEHICLE WITH AN OVERALL LENGTH OF 58.02m
5. ANALYSIS BASED ON OSNI VECTOR MAPPING AND TOPOGRAPHICAL SURVEY, WHERE REQUIRED TOPOGRAPHICAL SURVEY TO BE UNDERTAKEN AND USED AS A BASIS FOR DETAILED DESIGN.
6. A 0.5m FACTOR OF SAFETY INDICATED OUTSIDE OVERRUN AND OVERSAIL AREAS FROM THE EXTENT OF VEHICLE SWEEP PATH. THIS IS TO PROVIDE A FACTOR OF SAFETY AND TO INDICATE THE AREA WHICH SHOULD BE ALLOWED FOR IN ORDER TO PROVIDE A MARGIN OF ERROR DURING DELIVERY.

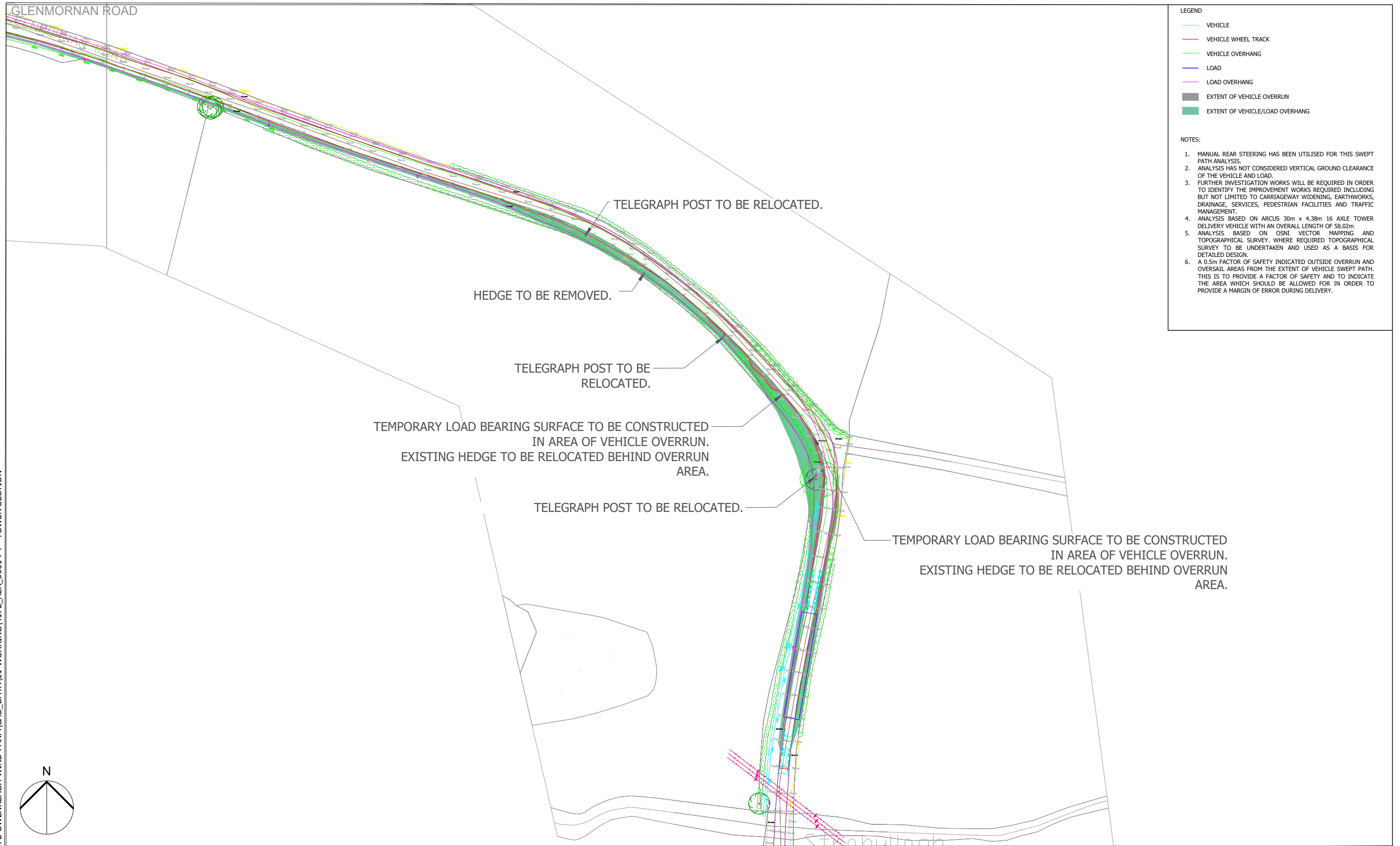




Plot Date: 17 July 2023 11:59:22
File Name: Y:\PROJECTS\4172 OWENREAGH WIND FARM\CAD_DATA\01-WORKING\4172_ALR_0001_P4 - TOWER SECTION

Project Title OWENREAGH / CRAIGNAGAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title PC 21 BENDS ON MOORLOUGH ROAD, BEFORE GLENMORNAN ROAD TOWER SECTION DELIVERY	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com
		Designed CR	Drawn CR	Checked KL	Approved TAT		
Client 		ERM Internal Project No. 4172		Date 17/07/23		Rev -	
		Scale @ A3 1:1000					

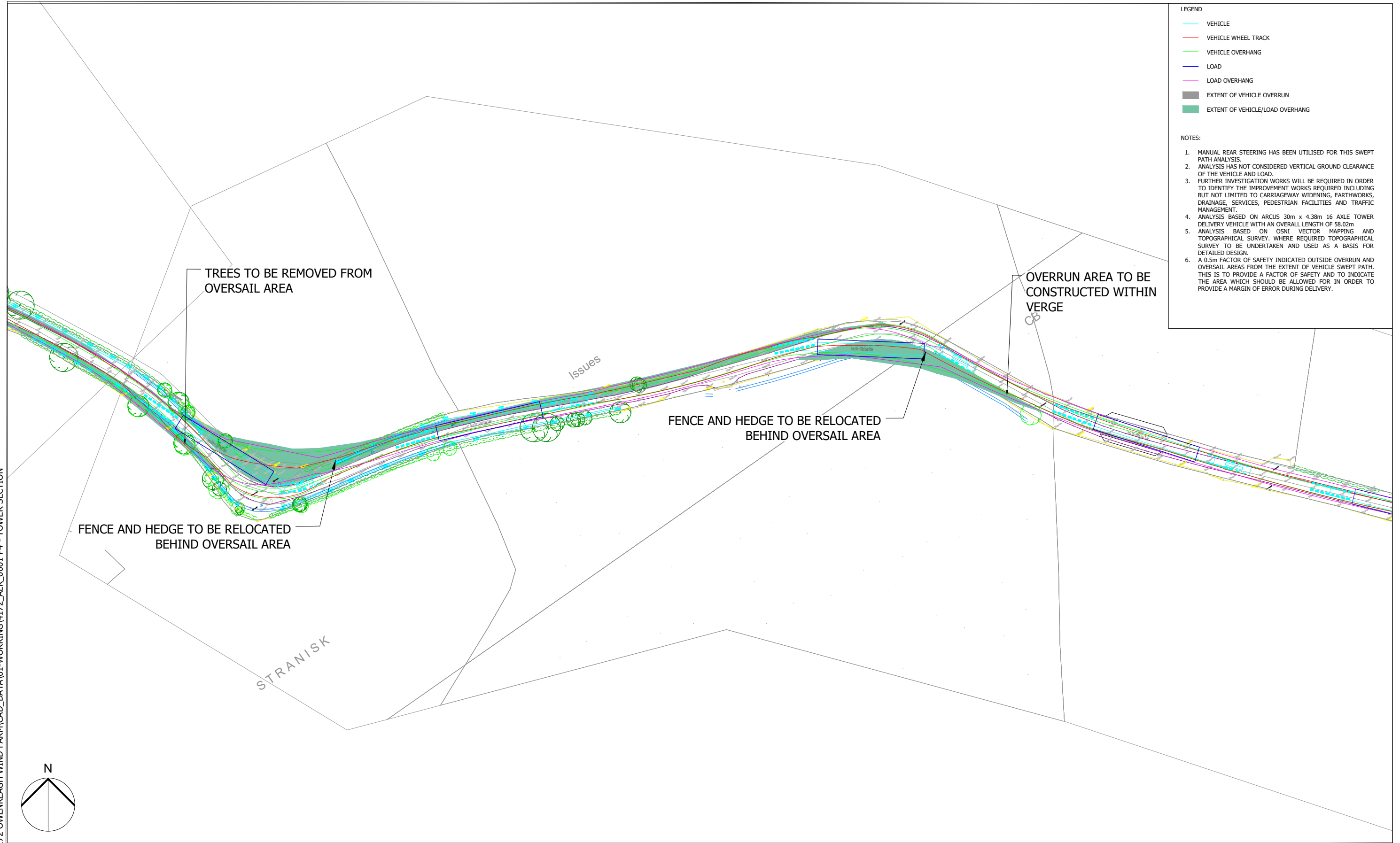


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File Name : Y:\PROJECTS\4172 OWENREAGH WIND FARM\CAD_DATA\01-WORKING\4172_ALR_0001 P4 - TOWER SECTION



Project Title OWENREAGH / CRAIGNAGAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title PC 22 MOORLOUGH ROAD / GLENMORNAN ROAD JUNCTION TOWER SECTION DELIVERY	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com	
		Designed CR	Drawn CR	Checked KL	Approved TAT			
Client 		ERM Internal Project No. 4172	Date 17/07/23					
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Plot Date : 17 July 2023 11:59:59
File Name : Y:\PROJECTS\4172 OWENREAGH WIND FARM\CAD_DATA\01-WORKING\4172_ALR_0001 P4 - TOWER SECTION



LEGEND

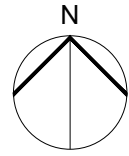
- VEHICLE
- VEHICLE WHEEL TRACK
- VEHICLE OVERHANG
- LOAD
- LOAD OVERHANG
- EXTENT OF VEHICLE OVERRUN
- EXTENT OF VEHICLE/LOAD OVERHANG

NOTES:

1. MANUAL REAR STEERING HAS BEEN UTILISED FOR THIS SWEEP PATH ANALYSIS.
2. ANALYSIS HAS NOT CONSIDERED VERTICAL GROUND CLEARANCE OF THE VEHICLE AND LOAD.
3. FURTHER INVESTIGATION WORKS WILL BE REQUIRED IN ORDER TO IDENTIFY THE IMPROVEMENT WORKS REQUIRED INCLUDING BUT NOT LIMITED TO CARRIAGEWAY WIDENING, EARTHWORKS, DRAINAGE, SERVICES, PEDESTRIAN FACILITIES AND TRAFFIC MANAGEMENT.
4. ANALYSIS BASED ON ARCUS 30m x 4.38m 16 AXLE TOWER DELIVERY VEHICLE WITH AN OVERALL LENGTH OF 58.02m
5. ANALYSIS BASED ON OSNI VECTOR MAPPING AND TOPOGRAPHICAL SURVEY. WHERE REQUIRED TOPOGRAPHICAL SURVEY TO BE UNDERTAKEN AND USED AS A BASIS FOR DETAILED DESIGN.
6. A 0.5m FACTOR OF SAFETY INDICATED OUTSIDE OVERRUN AND OVERSAIL AREAS FROM THE EXTENT OF VEHICLE SWEEP PATH. THIS IS TO PROVIDE A FACTOR OF SAFETY AND TO INDICATE THE AREA WHICH SHOULD BE ALLOWED FOR IN ORDER TO PROVIDE A MARGIN OF ERROR DURING DELIVERY.

Project Title OWENREAGH / CRAIGNAGAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title PC 23 BENDS ON GLENMORNAN ROAD TOWER SECTION DELIVERY	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com
		Designed CR	Drawn CR	Checked KL	Approved TAT		
Client 		ERM Internal Project No. 4172		Date 17/07/23		Rev -	
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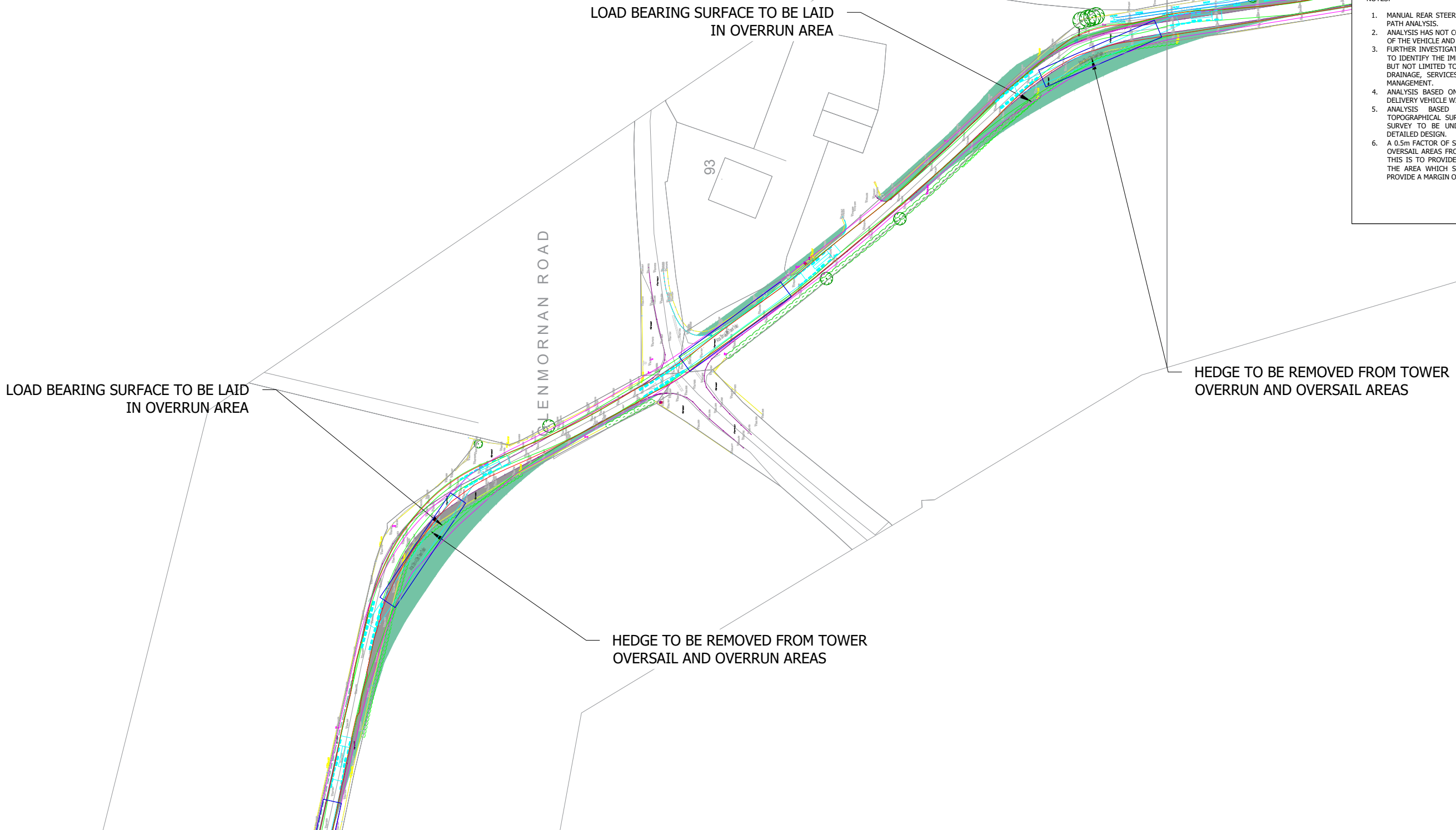


LEGEND

- VEHICLE
- VEHICLE WHEEL TRACK
- VEHICLE OVERHANG
- LOAD
- LOAD OVERHANG
- EXTENT OF VEHICLE OVERRUN
- EXTENT OF VEHICLE/LOAD OVERHANG

NOTES:

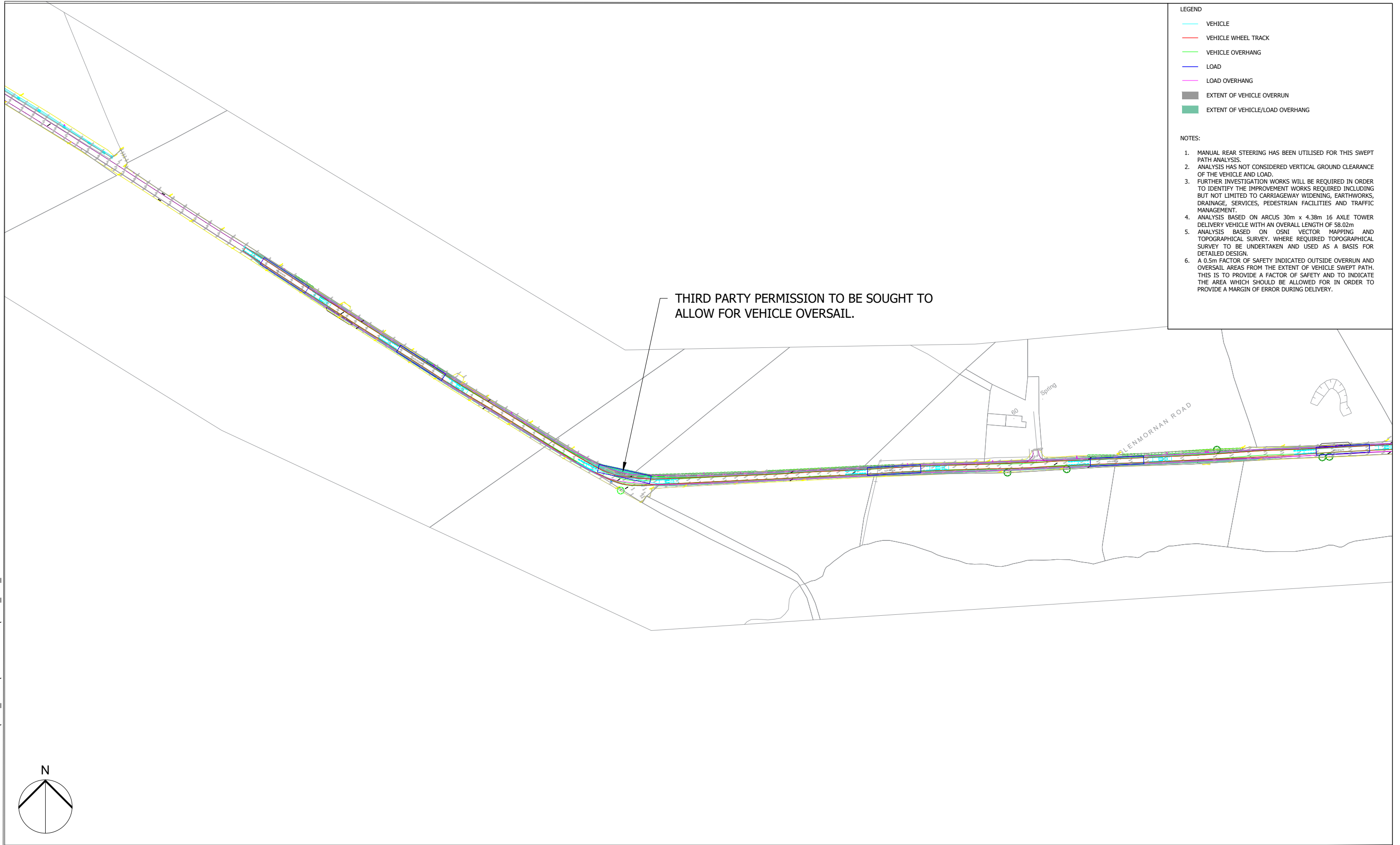
1. MANUAL REAR STEERING HAS BEEN UTILISED FOR THIS SWEEP PATH ANALYSIS.
2. ANALYSIS HAS NOT CONSIDERED VERTICAL GROUND CLEARANCE OF THE VEHICLE AND LOAD.
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4. ANALYSIS BASED ON ARCUS 30m x 4.38m 16 AXLE TOWER DELIVERY VEHICLE WITH AN OVERALL LENGTH OF 58.02m
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Plot Date: 17 July 2023 12:00:19
File Name: Y:\PROJECTS\4172 OWENREAGH WIND FARM\CAD_DATA\01-WORKING\4172_ALR_0001_P4 - TOWER SECTION

Project Title OWENREAGH / CRAIGNAGAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title PC 25 GLENMORNAN ROAD / HOLLYHILL ROAD CROSSROAD TOWER SECTION DELIVERY	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com		
		Designed CR	Drawn CR	Checked KL	Approved TAT				ERM Internal Project No. 4172
Client	Scale @ A3 1:1000								

Plot Date : 17 July 2023 12:00:38
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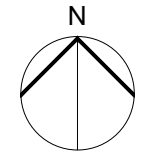


LEGEND

- VEHICLE
- VEHICLE WHEEL TRACK
- VEHICLE OVERHANG
- LOAD
- LOAD OVERHANG
- EXTENT OF VEHICLE OVERRUN
- EXTENT OF VEHICLE/LOAD OVERHANG

NOTES:

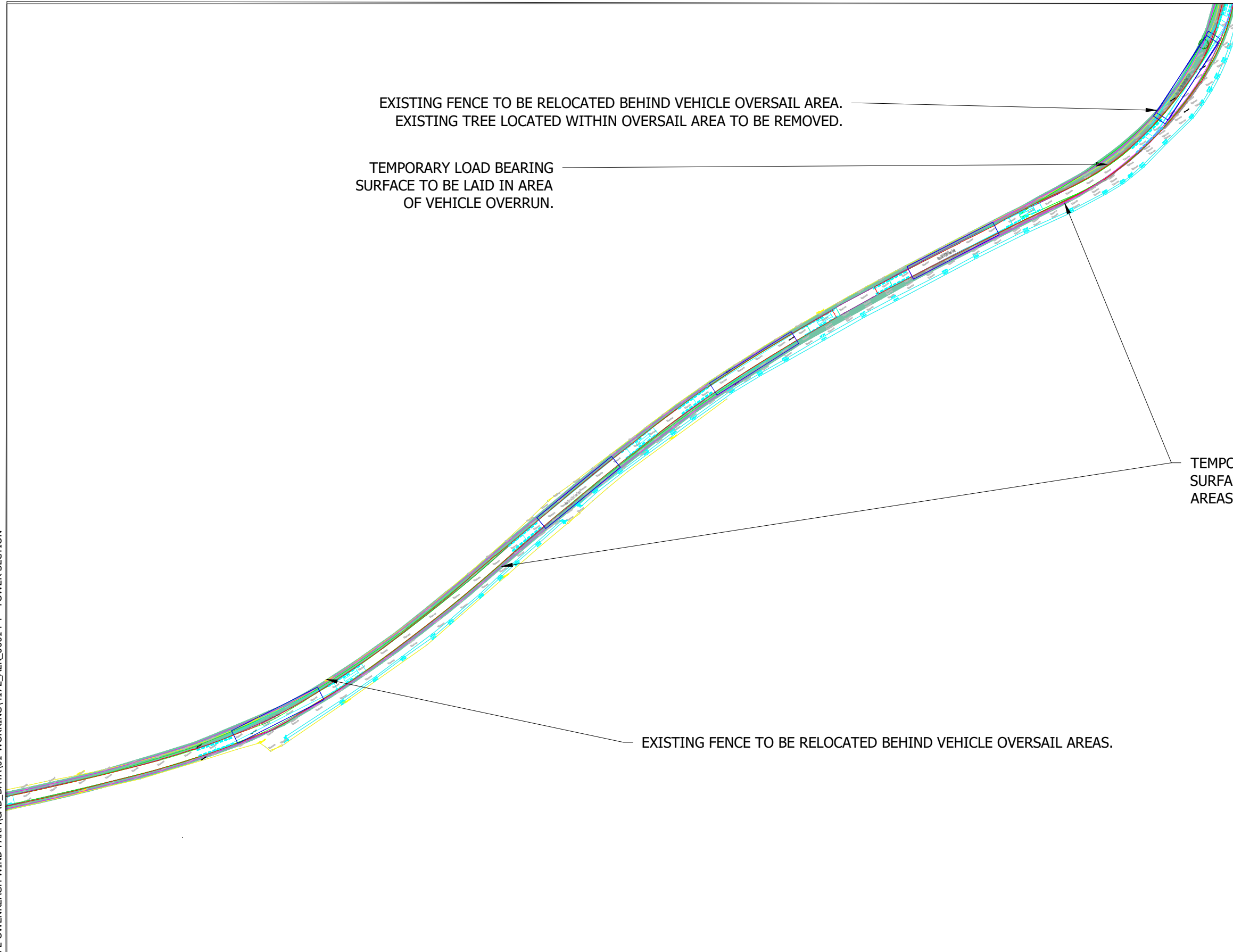
1. MANUAL REAR STEERING HAS BEEN UTILISED FOR THIS SWEEPED PATH ANALYSIS.
2. ANALYSIS HAS NOT CONSIDERED VERTICAL GROUND CLEARANCE OF THE VEHICLE AND LOAD.
3. FURTHER INVESTIGATION WORKS WILL BE REQUIRED IN ORDER TO IDENTIFY THE IMPROVEMENT WORKS REQUIRED INCLUDING BUT NOT LIMITED TO CARRIAGEWAY WIDENING, EARTHWORKS, DRAINAGE, SERVICES, PEDESTRIAN FACILITIES AND TRAFFIC MANAGEMENT.
4. ANALYSIS BASED ON ARCUS 30m x 4.38m 16 AXLE TOWER DELIVERY VEHICLE WITH AN OVERALL LENGTH OF 58.02m
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Project Title OWENREAGH / CRAIGNAGAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title PC 25 GLENMORNAN ROAD BEND BEFORE WIND FARM TOWER SECTION DELIVERY	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com
		Designed CR	Drawn CR	Checked KL	Approved TAT		
Client 		ERM Internal Project No. 4172	Date 17/07/23	Scale @ A3 1:2000	Rev -		



Plot Date : 17 July 2023 12:00:55
File Name : Y:\PROJECTS\4172 OWENREAGH WIND FARM\CAD_DATA\01-WORKING\4172_ALR_0001 P4 - TOWER SECTION



EXISTING FENCE TO BE RELOCATED BEHIND VEHICLE OVERSAIL AREA.
EXISTING TREE LOCATED WITHIN OVERSAIL AREA TO BE REMOVED.

TEMPORARY LOAD BEARING SURFACE TO BE LAID IN AREA OF VEHICLE OVERRUN.

TEMPORARY LOAD BEARING SURFACE TO BE LAID IN AREAS OF VEHICLE OVERRUN.

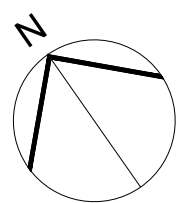
EXISTING FENCE TO BE RELOCATED BEHIND VEHICLE OVERSAIL AREAS.

LEGEND

- VEHICLE
- VEHICLE WHEEL TRACK
- VEHICLE OVERHANG
- LOAD
- LOAD OVERHANG
- EXTENT OF VEHICLE OVERRUN
- EXTENT OF VEHICLE/LOAD OVERHANG

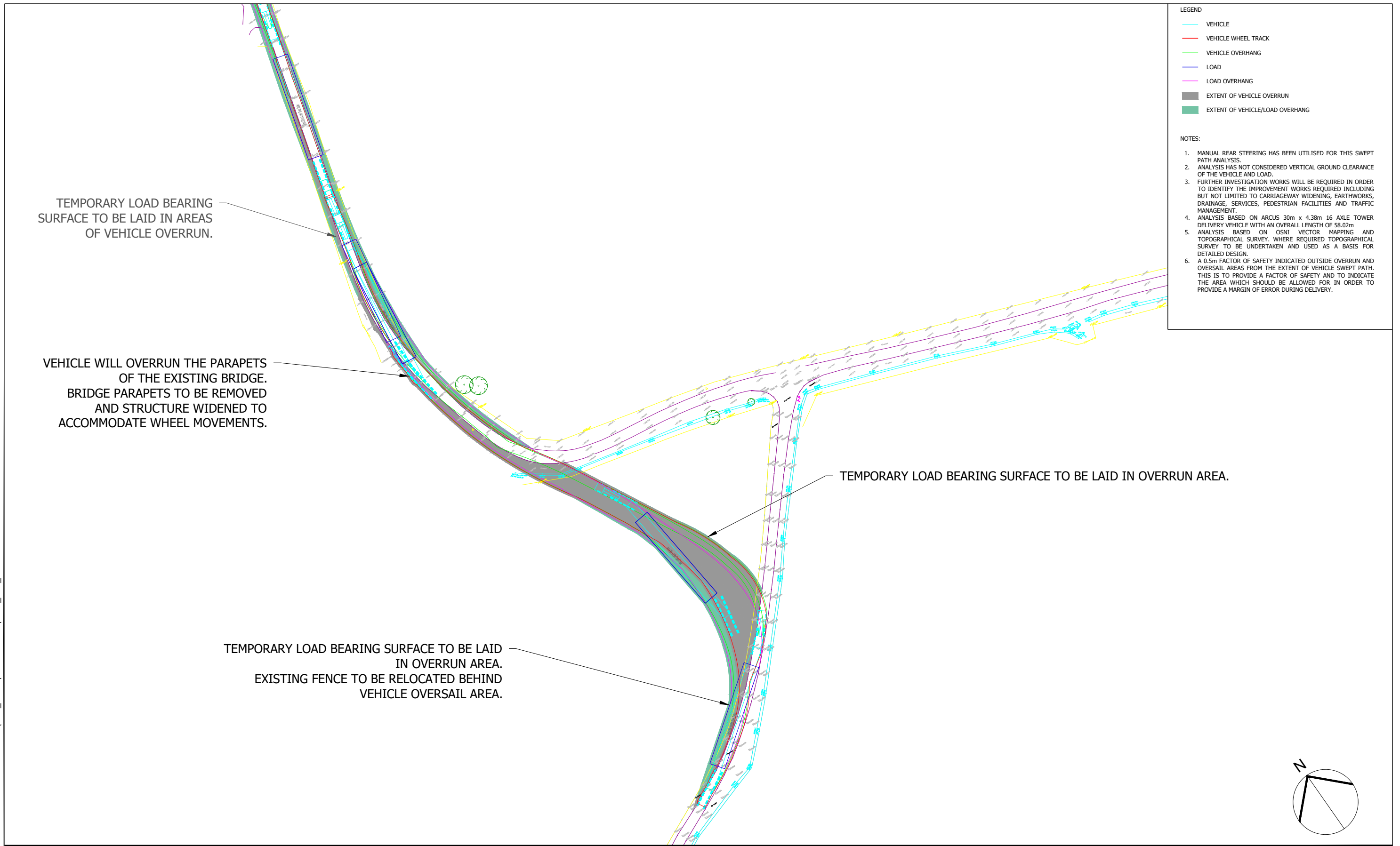
NOTES:

1. MANUAL REAR STEERING HAS BEEN UTILISED FOR THIS SWEEP PATH ANALYSIS.
2. ANALYSIS HAS NOT CONSIDERED VERTICAL GROUND CLEARANCE OF THE VEHICLE AND LOAD.
3. FURTHER INVESTIGATION WORKS WILL BE REQUIRED IN ORDER TO IDENTIFY THE IMPROVEMENT WORKS REQUIRED INCLUDING BUT NOT LIMITED TO CARRIAGEWAY WIDENING, EARTHWORKS, DRAINAGE, SERVICES, PEDESTRIAN FACILITIES AND TRAFFIC MANAGEMENT.
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6. A 0.5m FACTOR OF SAFETY INDICATED OUTSIDE OVERRUN AND OVERSAIL AREAS FROM THE EXTENT OF VEHICLE SWEEP PATH. THIS IS TO PROVIDE A FACTOR OF SAFETY AND TO INDICATE THE AREA WHICH SHOULD BE ALLOWED FOR IN ORDER TO PROVIDE A MARGIN OF ERROR DURING DELIVERY.



Project Title OWENREAGH / CRAIGNAGAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title PC 26 BENDS ON GLENMORNAN ROAD BEFORE JUNCTION TO NAPPLE ROAD TOWER SECTION DELIVERY	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com	
		Designed CR	Drawn CR	Checked TAT	Approved TAT			
Client 		ERM Internal Project No. 4172		Date 17/07/23				
		Scale @ A3 1:1250						

Plot Date: 17 July 2023 12:01:13
File Name: Y:\PROJECTS\4172 OWENREAGH WIND FARM\CAD_DATA\01-WORKING\4172_ALR_0001_P4 - TOWER SECTION

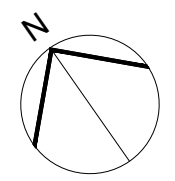


LEGEND

- VEHICLE
- VEHICLE WHEEL TRACK
- VEHICLE OVERHANG
- LOAD
- LOAD OVERHANG
- EXTENT OF VEHICLE OVERRUN
- EXTENT OF VEHICLE/LOAD OVERHANG

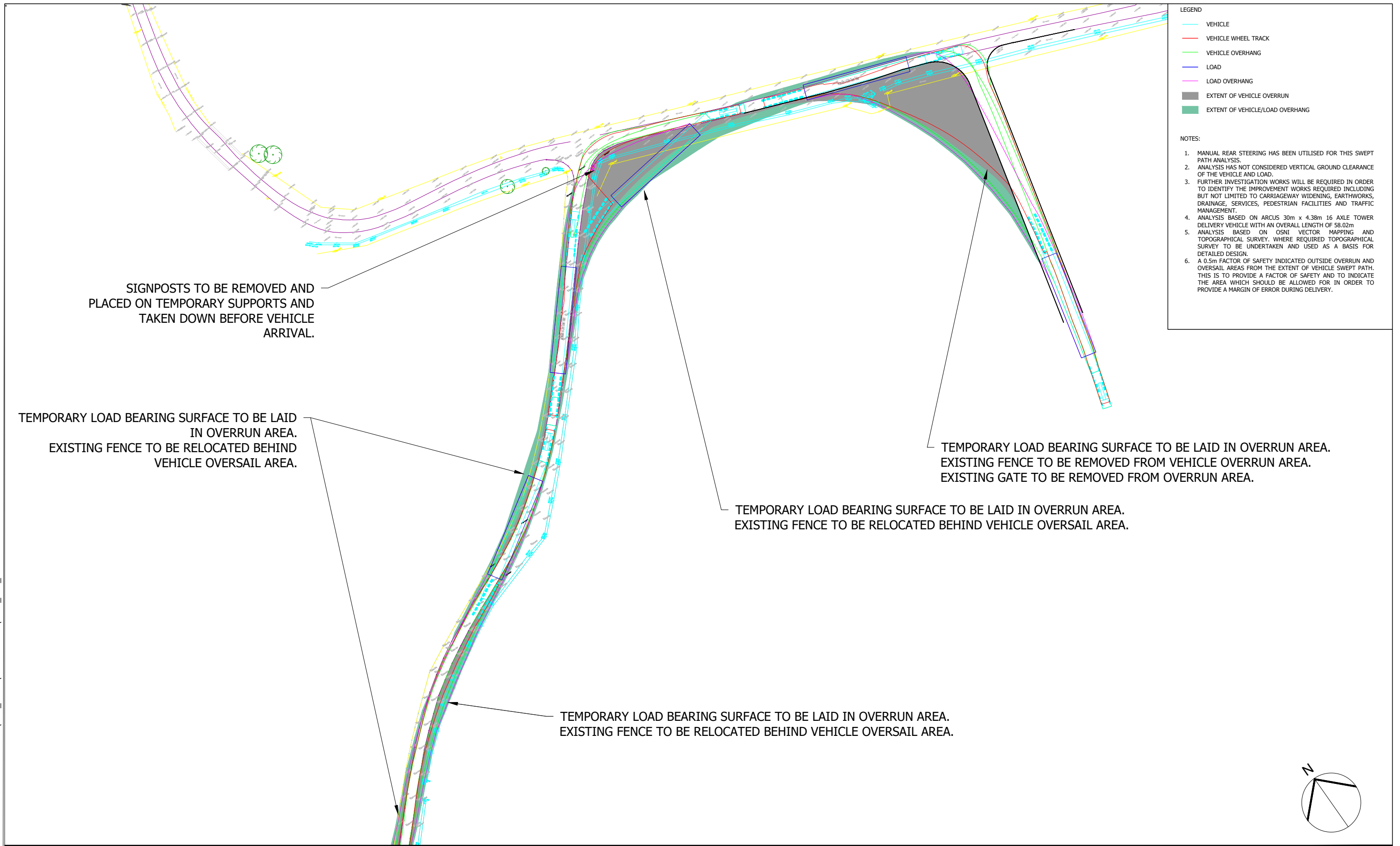
NOTES:

1. MANUAL REAR STEERING HAS BEEN UTILISED FOR THIS SWEEP PATH ANALYSIS.
2. ANALYSIS HAS NOT CONSIDERED VERTICAL GROUND CLEARANCE OF THE VEHICLE AND LOAD.
3. FURTHER INVESTIGATION WORKS WILL BE REQUIRED IN ORDER TO IDENTIFY THE IMPROVEMENT WORKS REQUIRED INCLUDING BUT NOT LIMITED TO CARRIAGEWAY WIDENING, EARTHWORKS, DRAINAGE, SERVICES, PEDESTRIAN FACILITIES AND TRAFFIC MANAGEMENT.
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Project Title OWENREAGH / CRAIGNAGAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title PC 27 (A) GLENMORNAN ROAD/NAPPLE ROAD JUNCTION TOWER SECTION DELIVERY	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com	
		Designed CR	Drawn CR	Checked TAT	Approved TAT			
Client 		Scale @ A3 1:1000						

Plot Date: 17 July 2023 12:01:31
 File Name: Y:\PROJECTS\4172 OWENREAGH WIND FARM\CAD_DATA\01-WORKING\4172_ALR_0001_P4 - TOWER SECTION



LEGEND

- VEHICLE
- VEHICLE WHEEL TRACK
- VEHICLE OVERHANG
- LOAD
- LOAD OVERHANG
- EXTENT OF VEHICLE OVERRUN
- EXTENT OF VEHICLE/LOAD OVERRUN

NOTES:

1. MANUAL REAR STEERING HAS BEEN UTILISED FOR THIS SWEEP PATH ANALYSIS.
2. ANALYSIS HAS NOT CONSIDERED VERTICAL GROUND CLEARANCE OF THE VEHICLE AND LOAD.
3. FURTHER INVESTIGATION WORKS WILL BE REQUIRED IN ORDER TO IDENTIFY THE IMPROVEMENT WORKS REQUIRED INCLUDING BUT NOT LIMITED TO CARRIAGEWAY WIDENING, EARTHWORKS, DRAINAGE, SERVICES, PEDESTRIAN FACILITIES AND TRAFFIC MANAGEMENT.
4. ANALYSIS BASED ON ARCUS 30m x 4.38m 16 AXLE TOWER DELIVERY VEHICLE WITH AN OVERALL LENGTH OF 58.02m
5. ANALYSIS BASED ON OSNI VECTOR MAPPING AND TOPOGRAPHICAL SURVEY. WHERE REQUIRED TOPOGRAPHICAL SURVEY TO BE UNDERTAKEN AND USED AS A BASIS FOR DETAILED DESIGN.
6. A 0.5m FACTOR OF SAFETY INDICATED OUTSIDE OVERRUN AND OVERRUN AREAS FROM THE EXTENT OF VEHICLE SWEEP PATH. THIS IS TO PROVIDE A FACTOR OF SAFETY AND TO INDICATE THE AREA WHICH SHOULD BE ALLOWED FOR IN ORDER TO PROVIDE A MARGIN OF ERROR DURING DELIVERY.

SIGNPOSTS TO BE REMOVED AND PLACED ON TEMPORARY SUPPORTS AND TAKEN DOWN BEFORE VEHICLE ARRIVAL.

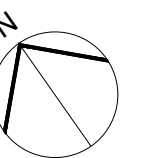
TEMPORARY LOAD BEARING SURFACE TO BE LAID IN OVERRUN AREA. EXISTING FENCE TO BE RELOCATED BEHIND VEHICLE OVERRUN AREA.

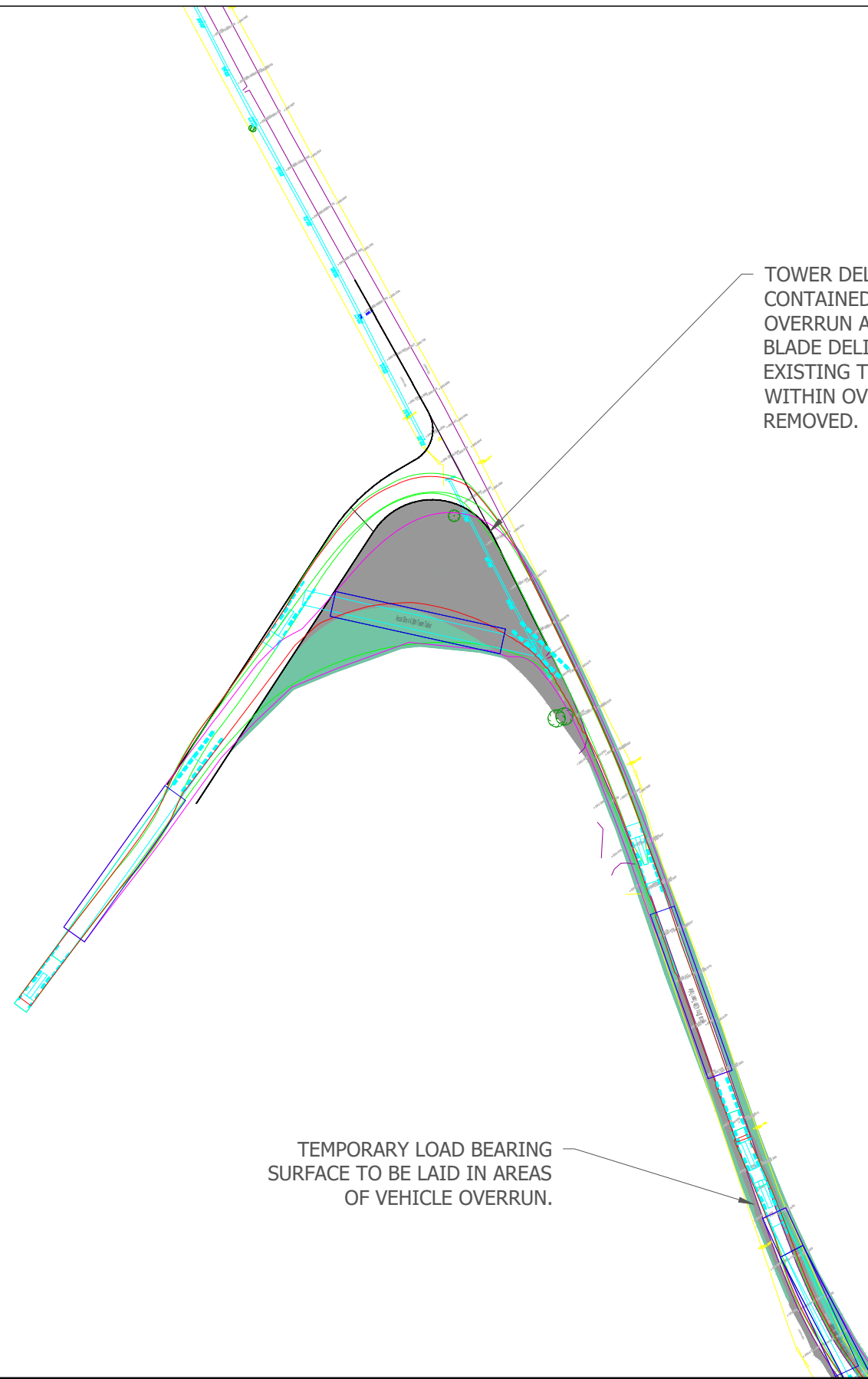
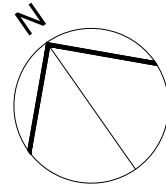
TEMPORARY LOAD BEARING SURFACE TO BE LAID IN OVERRUN AREA. EXISTING FENCE TO BE REMOVED FROM VEHICLE OVERRUN AREA. EXISTING GATE TO BE REMOVED FROM OVERRUN AREA.

TEMPORARY LOAD BEARING SURFACE TO BE LAID IN OVERRUN AREA. EXISTING FENCE TO BE RELOCATED BEHIND VEHICLE OVERRUN AREA.

TEMPORARY LOAD BEARING SURFACE TO BE LAID IN OVERRUN AREA. EXISTING FENCE TO BE RELOCATED BEHIND VEHICLE OVERRUN AREA.

Project Title OWENREAGH / CRAIGNAGAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title PC 27 (B) GLENMORNAN ROAD/NAPPLE ROAD JUNCTION TOWER SECTION DELIVERY	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com
		Designed CR	Drawn CR	Checked TAT	Approved TAT		
Client 	ERM Internal Project No. 4172 Scale @ A3 1:1000	Date 17/07/23		Rev -			





LEGEND

- VEHICLE
- VEHICLE WHEEL TRACK
- VEHICLE OVERHANG
- LOAD
- LOAD OVERHANG
- EXTENT OF VEHICLE OVERRUN
- EXTENT OF VEHICLE/LOAD OVERHANG

- NOTES:**
1. MANUAL REAR STEERING HAS BEEN UTILISED FOR THIS SWEEP PATH ANALYSIS.
 2. ANALYSIS HAS NOT CONSIDERED VERTICAL GROUND CLEARANCE OF THE VEHICLE AND LOAD.
 3. FURTHER INVESTIGATION WORKS WILL BE REQUIRED IN ORDER TO IDENTIFY THE IMPROVEMENT WORKS REQUIRED INCLUDING BUT NOT LIMITED TO CARRIAGEWAY WIDENING, EARTHWORKS, DRAINAGE, SERVICES, PEDESTRIAN FACILITIES AND TRAFFIC MANAGEMENT.
 4. ANALYSIS BASED ON ARCUS 30m x 4.38m 16 AXLE TOWER DELIVERY VEHICLE WITH AN OVERALL LENGTH OF 58.02m
 5. ANALYSIS BASED ON OSNI VECTOR MAPPING AND TOPOGRAPHICAL SURVEY, WHERE REQUIRED TOPOGRAPHICAL SURVEY TO BE UNDERTAKEN AND USED AS A BASIS FOR DETAILED DESIGN.
 6. A 0.5m FACTOR OF SAFETY INDICATED OUTSIDE OVERRUN AND OVERSAIL AREAS FROM THE EXTENT OF VEHICLE SWEEP PATH. THIS IS TO PROVIDE A FACTOR OF SAFETY AND TO INDICATE THE AREA WHICH SHOULD BE ALLOWED FOR IN ORDER TO PROVIDE A MARGIN OF ERROR DURING DELIVERY.

Plot Date: 17 July 2023 12:01:48
File Name: Y:\PROJECTS\4172 OWENREAGH WIND FARM\CAD_DATA\01-WORKING\4172_ALR_0001_P4 - TOWER SECTION

Project Title OWENREAGH / CRAIGNAGAPPLE WF ABNORMAL LOAD ROUTE ASSESSMENT	Drawing Title PC 28 NAPPLE ROAD ACCESS JUNCTION INTO TURBINE 13 TOWER SECTION DELIVERY	Purpose of issue FOR INFORMATION				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH4 9DN Tel: +44 131 221 6750 www.erm.com	
		Designed CR	Drawn CR	Checked FO	Approved TAT			
Client 	ERM Internal Project No. 4172 Scale @ A3 1:1000	Date 17/07/23						

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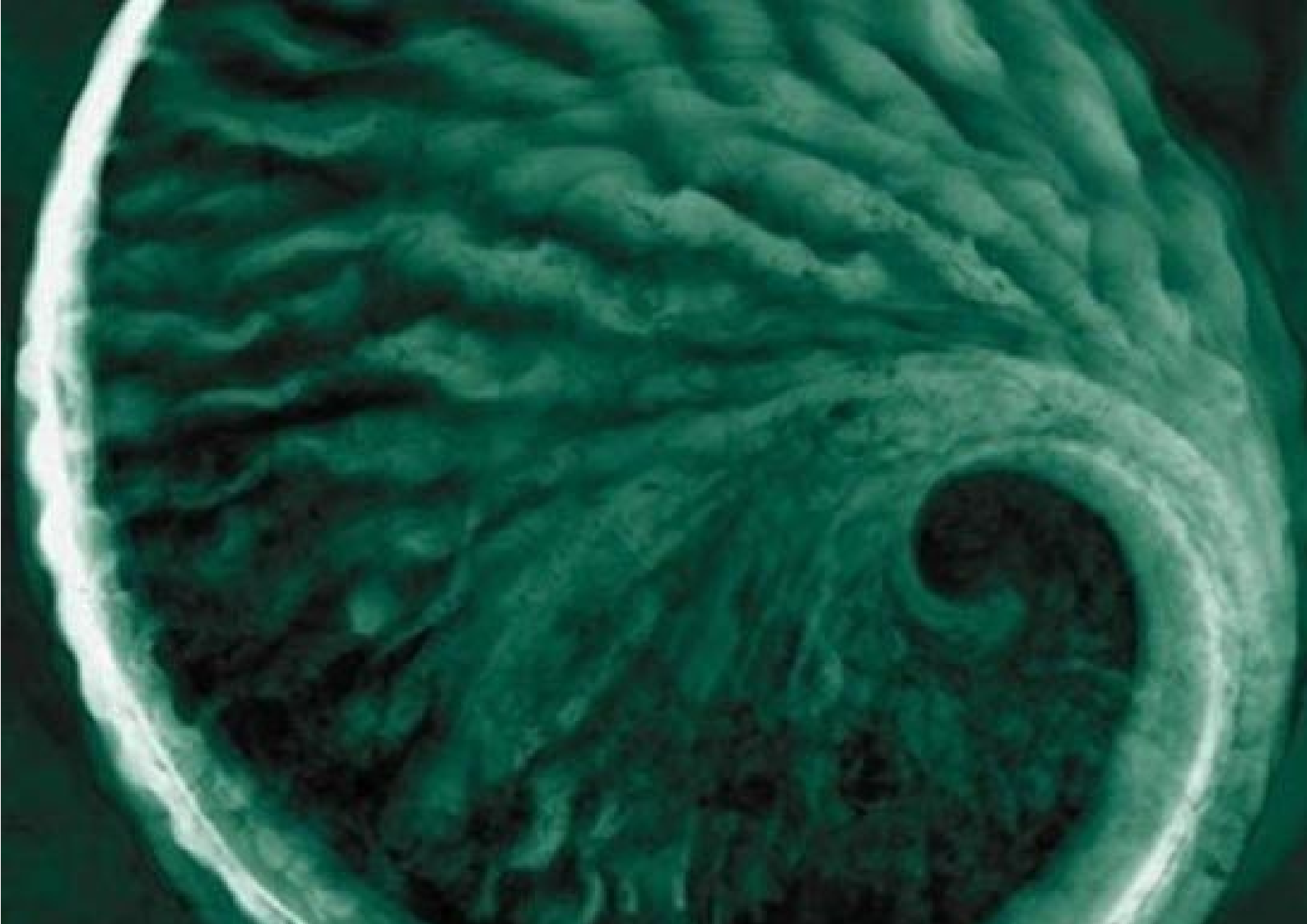
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Owenreagh/Craignagapple Wind Farm

Ørsted Onshore Ireland Midco Limited

Environmental Statement - Technical
Appendix A13.2 Traffic Count Data

06 September 2023

Project No.: 0696177

Signature Page

06 September 2023

Owenreagh/Craignagapple Wind Farm

Environmental Statement - Technical Appendix A13.2 Traffic Count Data



Frank Ocran
Principal Transport Planner



Tomos ApTomos
Operational Director



Peter Rodgers
Partner

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Strabane ATC 1, Napple Road

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Channel 1 - Northbound































	20/10/2022 Thursday	21/10/2022 Friday	22/10/2022 Saturday	23/10/2022 Sunday	24/10/2022 Monday	25/10/2022 Tuesday	26/10/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	25	28	20	26	24	23	22	24	24
Mean Speed	28.8	29.6	29.9	28.4	32.5	35.3	34.8	32.2	31.3
85%ile Speed	38.4	38.8	38.6	38.4	43.3	43.5	38.6	40.5	39.9
No. Vehicles > 60 MPH Limit	0	0	0	0	0	0	1	0	0
% Vehicles > 60 MPH Limit	0.0	0.0	0.0	0.0	0.0	0.0	4.5	0.9	0.6
No. Vehicles > 75 MPH	0	0	0	0	0	0	0	0	0
% Vehicles > 75 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Channel 2 - Southbound

	20/10/2022 Thursday	21/10/2022 Friday	22/10/2022 Saturday	23/10/2022 Sunday	24/10/2022 Monday	25/10/2022 Tuesday	26/10/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	29	23	26	33	29	29	20	26	27
Mean Speed	29.4	29.0	31.4	33.6	35.7	36.6	33.7	32.9	32.8
85%ile Speed	38.1	38.9	43.3	43.3	43.4	43.4	48.4	42.4	42.7
No. Vehicles > 60 MPH Limit	0	0	0	0	1	0	1	0	0
% Vehicles > 60 MPH Limit	0.0	0.0	0.0	0.0	3.4	0.0	5.0	1.7	1.2
No. Vehicles > 75 MPH	0	0	0	0	0	0	0	0	0
% Vehicles > 75 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Channels 1+2 - Northbound & Southbound

	20/10/2022 Thursday	21/10/2022 Friday	22/10/2022 Saturday	23/10/2022 Sunday	24/10/2022 Monday	25/10/2022 Tuesday	26/10/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	54	51	46	59	53	52	42	50	51
Mean Speed	29.1	29.3	30.7	31.0	34.1	36.0	34.3	32.5	32.1
85%ile Speed	38.3	38.9	40.9	40.9	43.4	43.5	43.5	41.5	41.3
No. Vehicles > 60 MPH Limit	0	0	0	0	1	0	2	1	0
% Vehicles > 60 MPH Limit	0.0	0.0	0.0	0.0	1.9	0.0	4.8	1.3	0.9
No. Vehicles > 75 MPH	0	0	0	0	0	0	0	0	0
% Vehicles > 75 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Class No	Vehicle Description	Class No	Vehicle Description
1	Car, Light Van Taxi  	5	Rigid 2 Axle HGV + 2 Axle (Close coupled) Trailer 
1	Light Goods Vehicle 	6	Rigid 3 Axle HGV + 2 Axle Drawbar Trailer 
1	Car or Light Goods Vehicle + 1 Axle Caravan or Trailer  	6	Rigid 3 Axle HGV + 3 Axle Drawbar Trailer 
1	Car or Light Goods Vehicle + 2 Axle Caravan or Trailer  	7	Artic, 2 Axle Tractor + 1 Axle Semi-Trailer 
2	Rigid 2 Axle Heavy Goods Vehicle 	8	Artic, 2 Axle Tractor + 2 Axle Semi-Trailer 
3	Rigid 3 Axle Heavy Goods Vehicle 	9	Artic, 2 Axle Tractor + 3 Axle Semi-Trailer 
3	Rigid 3 Axle Heavy Goods Vehicle 	10	Artic, 3 Axle Tractor + 1 Axle Semi-Trailer 
4	Rigid 4 Axle Heavy Goods Vehicle 	10	Artic, 3 Axle Tractor + 2 Axle Semi-Trailer 
4	Rigid 4 Axle Heavy Goods Vehicle 	11	Artic, 3 Axle Tractor + 3 Axle Semi-Trailer 
5	Rigid 2 Axle HGV + 2 Axle Drawbar Trailer  	12	Bus or Coach, 2 Axle 
5	Rigid 2 Axle HGV + 3 Axle Drawbar Trailer  	12	Bus or Coach, 3 Axle 
5	Rigid 2 Axle HGV + 1 Axle Caravan or Trailer  	13	Vehicle with 7 or more Axles 

Strabane ATC 1, Napple Road

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Channel 1 - Northbound

























	27/10/2022 Thursday	28/10/2022 Friday	29/10/2022 Saturday	30/10/2022 Sunday	31/10/2022 Monday	01/11/2022 Tuesday	02/11/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	20	25	16	33	35	26	23	26	25
Mean Speed	30.2	28.5	31.1	28.7	30.6	32.7	33.1	31.0	30.7
85%ile Speed	38.4	38.6	33.1	38.2	38.6	43.3	38.1	39.4	38.3
No. Vehicles > 60 MPH Limit	0	0	0	0	0	0	1	0	0
% Vehicles > 60 MPH Limit	0.0	0.0	0.0	0.0	0.0	0.0	4.3	0.9	0.6
No. Vehicles > 75 MPH	0	0	0	0	0	0	0	0	0
% Vehicles > 75 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Channel 2 - Southbound

	27/10/2022 Thursday	28/10/2022 Friday	29/10/2022 Saturday	30/10/2022 Sunday	31/10/2022 Monday	01/11/2022 Tuesday	02/11/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	29	25	14	40	46	38	26	33	31
Mean Speed	30.7	28.3	36.2	30.9	36.0	35.7	33.2	32.8	33.0
85%ile Speed	43.7	33.6	38.7	38.4	44.0	43.3	48.1	42.5	41.4
No. Vehicles > 60 MPH Limit	0	0	0	0	2	0	1	1	0
% Vehicles > 60 MPH Limit	0.0	0.0	0.0	0.0	4.3	0.0	3.8	1.6	1.2
No. Vehicles > 75 MPH	0	0	0	0	1	0	0	0	0
% Vehicles > 75 MPH	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.4	0.3

Channels 1+2 - Northbound & Southbound

	27/10/2022 Thursday	28/10/2022 Friday	29/10/2022 Saturday	30/10/2022 Sunday	31/10/2022 Monday	01/11/2022 Tuesday	02/11/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	49	50	30	73	81	64	49	59	57
Mean Speed	30.5	28.4	33.7	29.8	33.3	34.2	33.2	31.9	31.9
85%ile Speed	41.1	36.1	35.9	38.3	41.3	43.3	43.1	41.0	39.9
No. Vehicles > 60 MPH Limit	0	0	0	0	2	0	2	1	1
% Vehicles > 60 MPH Limit	0.0	0.0	0.0	0.0	2.5	0.0	4.1	1.3	0.9
No. Vehicles > 75 MPH	0	0	0	0	1	0	0	0	0
% Vehicles > 75 MPH	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.2	0.2

Class No	Vehicle Description	Class No	Vehicle Description
1	Car, Light Van Taxi 	5	Rigid 2 Axle HGV + 2 Axle (Close coupled) Trailer 
1	Light Goods Vehicle 	6	Rigid 3 Axle HGV + 2 Axle Drawbar Trailer 
1	Car or Light Goods Vehicle + 1 Axle Caravan or Trailer 	6	Rigid 3 Axle HGV + 3 Axle Drawbar Trailer 
1	Car or Light Goods Vehicle + 2 Axle Caravan or Trailer 	7	Artic. 2 Axle Tractor + 1 Axle Semi-Trailer 
2	Rigid 2 Axle Heavy Goods Vehicle 	8	Artic. 2 Axle Tractor + 2 Axle Semi-Trailer 
3	Rigid 3 Axle Heavy Goods Vehicle 	9	Artic. 2 Axle Tractor + 3 Axle Semi-Trailer 
3	Rigid 3 Axle Heavy Goods Vehicle 	10	Artic. 3 Axle Tractor + 1 Axle Semi-Trailer 
4	Rigid 4 Axle Heavy Goods Vehicle 	10	Artic. 3 Axle Tractor + 2 Axle Semi-Trailer 
4	Rigid 4 Axle Heavy Goods Vehicle 	11	Artic. 3 Axle Tractor + 3 Axle Semi-Trailer 
5	Rigid 2 Axle HGV + 2 Axle Drawbar Trailer 	12	Bus or Coach, 2 Axle 
5	Rigid 2 Axle HGV + 3 Axle Drawbar Trailer 	12	Bus or Coach, 3 Axle 
5	Rigid 2 Axle HGV + 1 Axle Caravan or Trailer 	13	Vehicle with 7 or more Axles 

Strabane ATC 2, Napple Road

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Channel 1 - Westbound

























	20/10/2022 Thursday	21/10/2022 Friday	22/10/2022 Saturday	23/10/2022 Sunday	24/10/2022 Monday	25/10/2022 Tuesday	26/10/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	32	36	29	32	38	39	35	36	34
Mean Speed	30.0	31.8	28.4	30.0	30.5	31.3	30.3	30.8	30.3
85%ile Speed	38.9	38.9	38.4	33.5	38.5	38.2	38.1	38.5	37.8
No. Vehicles > 60 MPH Limit	0	0	0	0	0	0	0	0	0
% Vehicles > 60 MPH Limit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
No. Vehicles > 75 MPH	0	0	0	0	0	0	0	0	0
% Vehicles > 75 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Channel 2 - Eastbound

	20/10/2022 Thursday	21/10/2022 Friday	22/10/2022 Saturday	23/10/2022 Sunday	24/10/2022 Monday	25/10/2022 Tuesday	26/10/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	45	29	33	35	42	39	27	36	36
Mean Speed	28.3	25.9	27.0	27.1	27.9	27.2	27.8	27.4	27.3
85%ile Speed	33.4	38.0	33.4	33.7	33.3	33.1	33.4	34.2	34.0
No. Vehicles > 60 MPH Limit	0	0	0	0	0	0	0	0	0
% Vehicles > 60 MPH Limit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
No. Vehicles > 75 MPH	0	0	0	0	0	0	0	0	0
% Vehicles > 75 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Channels 1+2 - Westbound & Eastbound

	20/10/2022 Thursday	21/10/2022 Friday	22/10/2022 Saturday	23/10/2022 Sunday	24/10/2022 Monday	25/10/2022 Tuesday	26/10/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	77	65	62	67	80	78	62	72	70
Mean Speed	29.2	28.9	27.7	28.6	29.2	29.3	29.1	29.1	28.8
85%ile Speed	36.2	38.5	35.9	33.6	35.9	35.6	35.8	36.4	35.9
No. Vehicles > 60 MPH Limit	0	0	0	0	0	0	0	0	0
% Vehicles > 60 MPH Limit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
No. Vehicles > 75 MPH	0	0	0	0	0	0	0	0	0
% Vehicles > 75 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Class No	Vehicle Description	Class No	Vehicle Description
1	Car, Light Van Taxi 	5	Rigid 2 Axle HGV + 2 Axle (Close coupled) Trailer 
1	Light Goods Vehicle 	6	Rigid 3 Axle HGV + 2 Axle Drawbar Trailer 
1	Car or Light Goods Vehicle + 1 Axle Caravan or Trailer 	6	Rigid 3 Axle HGV + 3 Axle Drawbar Trailer 
1	Car or Light Goods Vehicle + 2 Axle Caravan or Trailer 	7	Artic, 2 Axle Tractor + 1 Axle Semi-Trailer 
2	Rigid 2 Axle Heavy Goods Vehicle 	8	Artic, 2 Axle Tractor + 2 Axle Semi-Trailer 
3	Rigid 3 Axle Heavy Goods Vehicle 	9	Artic, 2 Axle Tractor + 3 Axle Semi-Trailer 
3	Rigid 3 Axle Heavy Goods Vehicle 	10	Artic, 3 Axle Tractor + 1 Axle Semi-Trailer 
4	Rigid 4 Axle Heavy Goods Vehicle 	10	Artic, 3 Axle Tractor + 2 Axle Semi-Trailer 
4	Rigid 4 Axle Heavy Goods Vehicle 	11	Artic, 3 Axle Tractor + 3 Axle Semi-Trailer 
5	Rigid 2 Axle HGV + 2 Axle Drawbar Trailer 	12	Bus or Coach, 2 Axle 
5	Rigid 2 Axle HGV + 3 Axle Drawbar Trailer 	12	Bus or Coach, 3 Axle 
5	Rigid 2 Axle HGV + 1 Axle Caravan or Trailer 	13	Vehicle with 7 or more Axles 

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Channel 1 - Westbound

























	27/10/2022 Thursday	28/10/2022 Friday	29/10/2022 Saturday	30/10/2022 Sunday	31/10/2022 Monday	01/11/2022 Tuesday	02/11/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	28	32	30	40	55	38	37	38	37
Mean Speed	28.9	31.0	26.3	29.8	29.5	30.9	28.0	29.7	29.2
85%ile Speed	38.9	33.8	33.0	33.1	38.5	38.3	38.0	37.5	36.2
No. Vehicles > 60 MPH Limit	0	0	0	0	0	0	0	0	0
% Vehicles > 60 MPH Limit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
No. Vehicles > 75 MPH	0	0	0	0	0	0	0	0	0
% Vehicles > 75 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Channel 2 - Eastbound

	27/10/2022 Thursday	28/10/2022 Friday	29/10/2022 Saturday	30/10/2022 Sunday	31/10/2022 Monday	01/11/2022 Tuesday	02/11/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	45	30	38	50	53	55	34	43	44
Mean Speed	26.2	27.5	26.8	28.4	27.5	27.2	28.1	27.3	27.4
85%ile Speed	33.1	38.2	33.9	33.7	33.5	33.6	33.4	34.4	34.2
No. Vehicles > 60 MPH Limit	0	0	0	0	0	0	0	0	0
% Vehicles > 60 MPH Limit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
No. Vehicles > 75 MPH	0	0	0	0	0	0	0	0	0
% Vehicles > 75 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Channels 1+2 - Westbound & Eastbound

	27/10/2022 Thursday	28/10/2022 Friday	29/10/2022 Saturday	30/10/2022 Sunday	31/10/2022 Monday	01/11/2022 Tuesday	02/11/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	73	62	68	90	108	93	71	81	81
Mean Speed	27.6	29.3	26.6	29.1	28.5	29.1	28.1	28.5	28.3
85%ile Speed	36.0	36.0	33.5	33.4	36.0	35.9	35.7	35.9	35.2
No. Vehicles > 60 MPH Limit	0	0	0	0	0	0	0	0	0
% Vehicles > 60 MPH Limit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
No. Vehicles > 75 MPH	0	0	0	0	0	0	0	0	0
% Vehicles > 75 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Class No	Vehicle Description	Class No	Vehicle Description
1	Car, Light Van Taxi 	5	Rigid 2 Axle HGV + 2 Axle (Close coupled) Trailer 
1	Light Goods Vehicle 	6	Rigid 3 Axle HGV + 2 Axle Drawbar Trailer 
1	Car or Light Goods Vehicle + 1 Axle Caravan or Trailer 	6	Rigid 3 Axle HGV + 3 Axle Drawbar Trailer 
1	Car or Light Goods Vehicle + 2 Axle Caravan or Trailer 	7	Artic, 2 Axle Tractor + 1 Axle Semi-Trailer 
2	Rigid 2 Axle Heavy Goods Vehicle 	8	Artic, 2 Axle Tractor + 2 Axle Semi-Trailer 
3	Rigid 3 Axle Heavy Goods Vehicle 	9	Artic, 2 Axle Tractor + 3 Axle Semi-Trailer 
3	Rigid 3 Axle Heavy Goods Vehicle 	10	Artic, 3 Axle Tractor + 1 Axle Semi-Trailer 
4	Rigid 4 Axle Heavy Goods Vehicle 	10	Artic, 3 Axle Tractor + 2 Axle Semi-Trailer 
4	Rigid 4 Axle Heavy Goods Vehicle 	11	Artic, 3 Axle Tractor + 3 Axle Semi-Trailer 
5	Rigid 2 Axle HGV + 2 Axle Drawbar Trailer 	12	Bus or Coach, 2 Axle 
5	Rigid 2 Axle HGV + 3 Axle Drawbar Trailer 	12	Bus or Coach, 3 Axle 
5	Rigid 2 Axle HGV + 1 Axle Caravan or Trailer 	13	Vehicle with 7 or more Axles 

Strabane ATC 3, Glenmoran Road

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Channel 1 - Westbound

























	20/10/2022 Thursday	21/10/2022 Friday	22/10/2022 Saturday	23/10/2022 Sunday	24/10/2022 Monday	25/10/2022 Tuesday	26/10/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	10	11	12	17	18	24	16	16	15
Mean Speed	36.0	37.1	32.6	32.1	34.1	40.5	34.2	36.4	35.2
85%ile Speed	43.9	43.1	43.2	43.3	43.7	48.3	48.4	45.5	44.8
No. Vehicles > 60 MPH Limit	0	0	0	0	0	0	0	0	0
% Vehicles > 60 MPH Limit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
No. Vehicles > 75 MPH	0	0	0	0	0	0	0	0	0
% Vehicles > 75 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Channel 2 - Eastbound

	20/10/2022 Thursday	21/10/2022 Friday	22/10/2022 Saturday	23/10/2022 Sunday	24/10/2022 Monday	25/10/2022 Tuesday	26/10/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	18	9	10	12	21	18	10	15	14
Mean Speed	35.8	40.2	38.0	34.7	36.2	41.8	41.5	39.1	38.3
85%ile Speed	43.2	43.1	43.1	43.7	43.4	48.3	48.6	45.3	44.8
No. Vehicles > 60 MPH Limit	0	0	0	0	0	2	0	0	0
% Vehicles > 60 MPH Limit	0.0	0.0	0.0	0.0	0.0	11.1	0.0	2.2	1.6
No. Vehicles > 75 MPH	0	0	0	0	0	0	0	0	0
% Vehicles > 75 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Channels 1+2 - Westbound & Eastbound

	20/10/2022 Thursday	21/10/2022 Friday	22/10/2022 Saturday	23/10/2022 Sunday	24/10/2022 Monday	25/10/2022 Tuesday	26/10/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	28	20	22	29	39	42	26	31	29
Mean Speed	35.9	38.7	35.3	33.4	35.2	41.2	37.9	37.7	36.8
85%ile Speed	43.6	43.1	43.1	43.5	43.6	48.3	48.5	45.4	44.8
No. Vehicles > 60 MPH Limit	0	0	0	0	0	2	0	0	0
% Vehicles > 60 MPH Limit	0.0	0.0	0.0	0.0	0.0	4.8	0.0	1.0	0.7
No. Vehicles > 75 MPH	0	0	0	0	0	0	0	0	0
% Vehicles > 75 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Class No	Vehicle Description	Class No	Vehicle Description
1	Car, Light Van Taxi 	5	Rigid 2 Axle HGV + 2 Axle (Close coupled) Trailer 
1	Light Goods Vehicle 	6	Rigid 3 Axle HGV + 2 Axle Drawbar Trailer 
1	Car or Light Goods Vehicle + 1 Axle Caravan or Trailer 	6	Rigid 3 Axle HGV + 3 Axle Drawbar Trailer 
1	Car or Light Goods Vehicle + 2 Axle Caravan or Trailer 	7	Artic. 2 Axle Tractor + 1 Axle Semi-Trailer 
2	Rigid 2 Axle Heavy Goods Vehicle 	8	Artic. 2 Axle Tractor + 2 Axle Semi-Trailer 
3	Rigid 3 Axle Heavy Goods Vehicle 	9	Artic. 2 Axle Tractor + 3 Axle Semi-Trailer 
3	Rigid 3 Axle Heavy Goods Vehicle 	10	Artic. 3 Axle Tractor + 1 Axle Semi-Trailer 
4	Rigid 4 Axle Heavy Goods Vehicle 	10	Artic. 3 Axle Tractor + 2 Axle Semi-Trailer 
4	Rigid 4 Axle Heavy Goods Vehicle 	11	Artic. 3 Axle Tractor + 3 Axle Semi-Trailer 
5	Rigid 2 Axle HGV + 2 Axle Drawbar Trailer 	12	Bus or Coach, 2 Axle 
5	Rigid 2 Axle HGV + 3 Axle Drawbar Trailer 	12	Bus or Coach, 3 Axle 
5	Rigid 2 Axle HGV + 1 Axle Caravan or Trailer 	13	Vehicle with 7 or more Axles 

Strabane ATC 3, Glenmornan Road

Produced by Streetwise Services Ltd.



Channel 1 - Westbound

























	27/10/2022 Thursday	28/10/2022 Friday	29/10/2022 Saturday	30/10/2022 Sunday	31/10/2022 Monday	01/11/2022 Tuesday	02/11/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	9	15	4	17	11	10	11	11	11
Mean Speed	31.0	33.7	33.6	35.4	34.1	36.8	33.9	33.9	34.1
85%ile Speed	43.8	43.8	43.6	43.7	43.9	43.2	38.9	42.7	43.0
No. Vehicles > 60 MPH Limit	0	0	0	0	0	0	0	0	0
% Vehicles > 60 MPH Limit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
No. Vehicles > 75 MPH	0	0	0	0	0	0	0	0	0
% Vehicles > 75 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Channel 2 - Eastbound

	27/10/2022 Thursday	28/10/2022 Friday	29/10/2022 Saturday	30/10/2022 Sunday	31/10/2022 Monday	01/11/2022 Tuesday	02/11/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	16	14	5	17	7	8	7	10	11
Mean Speed	38.9	30.9	35.0	34.3	34.8	36.4	34.1	35.0	34.9
85%ile Speed	48.5	43.2	43.7	38.0	43.1	43.4	48.2	45.3	44.0
No. Vehicles > 60 MPH Limit	0	0	0	0	0	0	0	0	0
% Vehicles > 60 MPH Limit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
No. Vehicles > 75 MPH	0	0	0	0	0	0	0	0	0
% Vehicles > 75 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Channels 1+2 - Westbound & Eastbound

	27/10/2022 Thursday	28/10/2022 Friday	29/10/2022 Saturday	30/10/2022 Sunday	31/10/2022 Monday	01/11/2022 Tuesday	02/11/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	25	29	9	34	18	18	18	22	22
Mean Speed	35.0	32.3	34.3	34.9	34.5	36.6	34.0	34.5	34.5
85%ile Speed	46.1	43.5	43.6	40.9	43.5	43.3	43.6	44.0	43.5
No. Vehicles > 60 MPH Limit	0	0	0	0	0	0	0	0	0
% Vehicles > 60 MPH Limit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
No. Vehicles > 75 MPH	0	0	0	0	0	0	0	0	0
% Vehicles > 75 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Class No	Vehicle Description	Class No	Vehicle Description
1	Car, Light Van Taxi 	5	Rigid 2 Axle HGV + 2 Axle (Close coupled) Trailer 
1	Light Goods Vehicle 	6	Rigid 3 Axle HGV + 2 Axle Drawbar Trailer 
1	Car or Light Goods Vehicle + 1 Axle Caravan or Trailer 	6	Rigid 3 Axle HGV + 3 Axle Drawbar Trailer 
1	Car or Light Goods Vehicle + 2 Axle Caravan or Trailer 	7	Artic, 2 Axle Tractor + 1 Axle Semi-Trailer 
2	Rigid 2 Axle Heavy Goods Vehicle 	8	Artic, 2 Axle Tractor + 2 Axle Semi-Trailer 
3	Rigid 3 Axle Heavy Goods Vehicle 	9	Artic, 2 Axle Tractor + 3 Axle Semi-Trailer 
3	Rigid 3 Axle Heavy Goods Vehicle 	10	Artic, 3 Axle Tractor + 1 Axle Semi-Trailer 
4	Rigid 4 Axle Heavy Goods Vehicle 	10	Artic, 3 Axle Tractor + 2 Axle Semi-Trailer 
4	Rigid 4 Axle Heavy Goods Vehicle 	11	Artic, 3 Axle Tractor + 3 Axle Semi-Trailer 
5	Rigid 2 Axle HGV + 2 Axle Drawbar Trailer 	12	Bus or Coach, 2 Axle 
5	Rigid 2 Axle HGV + 3 Axle Drawbar Trailer 	12	Bus or Coach, 3 Axle 
5	Rigid 2 Axle HGV + 1 Axle Caravan or Trailer 	13	Vehicle with 7 or more Axles 

Strabane ATC 4, Glenmoran Road

Produced by Streetwise Services Ltd.



Channel 1 - Northbound

























	20/10/2022 Thursday	21/10/2022 Friday	22/10/2022 Saturday	23/10/2022 Sunday	24/10/2022 Monday	25/10/2022 Tuesday	26/10/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	18	15	14	21	27	28	25	23	21
Mean Speed	24.8	29.0	27.1	25.5	29.9	32.7	30.8	29.4	28.5
85%ile Speed	33.9	33.5	33.5	26.5	38.5	38.0	38.4	36.5	34.6
No. Vehicles > 60 MPH Limit	0	0	0	0	0	0	0	0	0
% Vehicles > 60 MPH Limit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
No. Vehicles > 75 MPH	0	0	0	0	0	0	0	0	0
% Vehicles > 75 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Channel 2 - Southbound

	20/10/2022 Thursday	21/10/2022 Friday	22/10/2022 Saturday	23/10/2022 Sunday	24/10/2022 Monday	25/10/2022 Tuesday	26/10/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	25	13	13	16	29	22	20	22	20
Mean Speed	27.5	28.4	27.6	26.6	29.6	35.8	32.2	30.7	29.7
85%ile Speed	33.8	33.1	27.7	33.3	38.8	43.0	38.5	37.4	35.5
No. Vehicles > 60 MPH Limit	0	0	0	0	0	0	0	0	0
% Vehicles > 60 MPH Limit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
No. Vehicles > 75 MPH	0	0	0	0	0	0	0	0	0
% Vehicles > 75 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Channels 1+2 - Northbound & Southbound

	20/10/2022 Thursday	21/10/2022 Friday	22/10/2022 Saturday	23/10/2022 Sunday	24/10/2022 Monday	25/10/2022 Tuesday	26/10/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	43	28	27	37	56	50	45	44	41
Mean Speed	26.2	28.7	27.4	26.1	29.8	34.3	31.5	30.1	29.1
85%ile Speed	33.9	33.3	30.6	29.9	38.6	40.5	38.5	37.0	35.0
No. Vehicles > 60 MPH Limit	0	0	0	0	0	0	0	0	0
% Vehicles > 60 MPH Limit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
No. Vehicles > 75 MPH	0	0	0	0	0	0	0	0	0
% Vehicles > 75 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Class No	Vehicle Description	Class No	Vehicle Description
1	Car, Light Van Taxi 	5	Rigid 2 Axle HGV + 2 Axle (Close coupled) Trailer 
1	Light Goods Vehicle 	6	Rigid 3 Axle HGV + 2 Axle Drawbar Trailer 
1	Car or Light Goods Vehicle + 1 Axle Caravan or Trailer 	6	Rigid 3 Axle HGV + 3 Axle Drawbar Trailer 
1	Car or Light Goods Vehicle + 2 Axle Caravan or Trailer 	7	Artic. 2 Axle Tractor + 1 Axle Semi-Trailer 
2	Rigid 2 Axle Heavy Goods Vehicle 	8	Artic. 2 Axle Tractor + 2 Axle Semi-Trailer 
3	Rigid 3 Axle Heavy Goods Vehicle 	9	Artic. 2 Axle Tractor + 3 Axle Semi-Trailer 
3	Rigid 3 Axle Heavy Goods Vehicle 	10	Artic. 3 Axle Tractor + 1 Axle Semi-Trailer 
4	Rigid 4 Axle Heavy Goods Vehicle 	10	Artic. 3 Axle Tractor + 2 Axle Semi-Trailer 
4	Rigid 4 Axle Heavy Goods Vehicle 	11	Artic. 3 Axle Tractor + 3 Axle Semi-Trailer 
5	Rigid 2 Axle HGV + 2 Axle Drawbar Trailer 	12	Bus or Coach, 2 Axle 
5	Rigid 2 Axle HGV + 3 Axle Drawbar Trailer 	12	Bus or Coach, 3 Axle 
5	Rigid 2 Axle HGV + 1 Axle Caravan or Trailer 	13	Vehicle with 7 or more Axles 

Strabane ATC 4, Gelnmoran Road

Produced by Streetwise Services Ltd.



Channel 1 - Northbound

























	27/10/2022 Thursday	28/10/2022 Friday	29/10/2022 Saturday	30/10/2022 Sunday	31/10/2022 Monday	01/11/2022 Tuesday	02/11/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	15	22	10	32	32	38	30	27	26
Mean Speed	27.0	25.7	22.2	25.2	29.5	32.9	30.6	29.1	27.6
85%ile Speed	27.1	26.1	26.5	26.4	38.9	38.5	38.7	33.9	31.7
No. Vehicles > 60 MPH Limit	0	0	0	0	0	0	0	0	0
% Vehicles > 60 MPH Limit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
No. Vehicles > 75 MPH	0	0	0	0	0	0	0	0	0
% Vehicles > 75 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Channel 2 - Southbound

	27/10/2022 Thursday	28/10/2022 Friday	29/10/2022 Saturday	30/10/2022 Sunday	31/10/2022 Monday	01/11/2022 Tuesday	02/11/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	22	21	11	39	45	32	26	29	28
Mean Speed	29.7	25.7	25.5	28.0	29.8	35.0	32.9	30.6	29.5
85%ile Speed	33.0	33.8	33.3	33.9	38.9	43.6	38.5	37.6	36.4
No. Vehicles > 60 MPH Limit	0	0	0	0	0	0	0	0	0
% Vehicles > 60 MPH Limit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
No. Vehicles > 75 MPH	0	0	0	0	0	0	0	0	0
% Vehicles > 75 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Channels 1+2 - Northbound & Southbound

	27/10/2022 Thursday	28/10/2022 Friday	29/10/2022 Saturday	30/10/2022 Sunday	31/10/2022 Monday	01/11/2022 Tuesday	02/11/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	37	43	21	71	77	70	56	57	54
Mean Speed	28.4	25.7	23.9	26.6	29.7	34.0	31.8	29.9	28.6
85%ile Speed	30.1	29.9	29.9	30.2	38.9	41.0	38.6	35.7	34.1
No. Vehicles > 60 MPH Limit	0	0	0	0	0	0	0	0	0
% Vehicles > 60 MPH Limit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
No. Vehicles > 75 MPH	0	0	0	0	0	0	0	0	0
% Vehicles > 75 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Class No	Vehicle Description	Class No	Vehicle Description
1	Car, Light Van Taxi 	5	Rigid 2 Axle HGV + 2 Axle (Close coupled) Trailer 
1	Light Goods Vehicle 	6	Rigid 3 Axle HGV + 2 Axle Drawbar Trailer 
1	Car or Light Goods Vehicle + 1 Axle Caravan or Trailer 	6	Rigid 3 Axle HGV + 3 Axle Drawbar Trailer 
1	Car or Light Goods Vehicle + 2 Axle Caravan or Trailer 	7	Artic, 2 Axle Tractor + 1 Axle Semi-Trailer 
2	Rigid 2 Axle Heavy Goods Vehicle 	8	Artic, 2 Axle Tractor + 2 Axle Semi-Trailer 
3	Rigid 3 Axle Heavy Goods Vehicle 	9	Artic, 2 Axle Tractor + 3 Axle Semi-Trailer 
3	Rigid 3 Axle Heavy Goods Vehicle 	10	Artic, 3 Axle Tractor + 1 Axle Semi-Trailer 
4	Rigid 4 Axle Heavy Goods Vehicle 	10	Artic, 3 Axle Tractor + 2 Axle Semi-Trailer 
4	Rigid 4 Axle Heavy Goods Vehicle 	11	Artic, 3 Axle Tractor + 3 Axle Semi-Trailer 
5	Rigid 2 Axle HGV + 2 Axle Drawbar Trailer 	12	Bus or Coach, 2 Axle 
5	Rigid 2 Axle HGV + 3 Axle Drawbar Trailer 	12	Bus or Coach, 3 Axle 
5	Rigid 2 Axle HGV + 1 Axle Caravan or Trailer 	13	Vehicle with 7 or more Axles 

Strabane ATC 6, Moorlough Road

Produced by Streetwise Services Ltd.



Channel 1 - Northbound

























	20/10/2022 Thursday	21/10/2022 Friday	22/10/2022 Saturday	23/10/2022 Sunday	24/10/2022 Monday	25/10/2022 Tuesday	26/10/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	528	533	447	336	543	567	540	542	499
Mean Speed	35.3	36.6	36.0	36.0	34.2	34.5	34.5	35.0	35.3
85%ile Speed	43.6	43.3	43.9	43.5	43.7	43.3	43.6	43.5	43.6
No. Vehicles > 60 MPH Limit	0	0	0	0	0	0	0	0	0
% Vehicles > 60 MPH Limit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
No. Vehicles > 75 MPH	0	0	0	0	0	0	0	0	0
% Vehicles > 75 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Channel 2 - Southbound

	20/10/2022 Thursday	21/10/2022 Friday	22/10/2022 Saturday	23/10/2022 Sunday	24/10/2022 Monday	25/10/2022 Tuesday	26/10/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	525	503	386	349	519	528	496	514	472
Mean Speed	33.0	34.2	33.3	33.4	32.6	32.0	32.9	32.9	33.1
85%ile Speed	38.4	43.2	38.9	38.5	38.1	38.3	38.9	39.4	39.2
No. Vehicles > 60 MPH Limit	0	0	0	0	0	0	0	0	0
% Vehicles > 60 MPH Limit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
No. Vehicles > 75 MPH	0	0	0	0	0	0	0	0	0
% Vehicles > 75 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Channels 1+2 - Northbound & Southbound

	20/10/2022 Thursday	21/10/2022 Friday	22/10/2022 Saturday	23/10/2022 Sunday	24/10/2022 Monday	25/10/2022 Tuesday	26/10/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	1053	1036	833	685	1062	1095	1036	1056	971
Mean Speed	34.2	35.4	34.7	34.7	33.4	33.3	33.7	34.0	34.2
85%ile Speed	41.0	43.3	41.4	41.0	40.9	40.8	41.3	41.4	41.4
No. Vehicles > 60 MPH Limit	0	0	0	0	0	0	0	0	0
% Vehicles > 60 MPH Limit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
No. Vehicles > 75 MPH	0	0	0	0	0	0	0	0	0
% Vehicles > 75 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Class No	Vehicle Description	Class No	Vehicle Description
1	Car, Light Van Taxi 	5	Rigid 2 Axle HGV + 2 Axle (Close coupled) Trailer 
1	Light Goods Vehicle 	6	Rigid 3 Axle HGV + 2 Axle Drawbar Trailer 
1	Car or Light Goods Vehicle + 1 Axle Caravan or Trailer 	6	Rigid 3 Axle HGV + 3 Axle Drawbar Trailer 
1	Car or Light Goods Vehicle + 2 Axle Caravan or Trailer 	7	Artic, 2 Axle Tractor + 1 Axle Semi-Trailer 
2	Rigid 2 Axle Heavy Goods Vehicle 	8	Artic, 2 Axle Tractor + 2 Axle Semi-Trailer 
3	Rigid 3 Axle Heavy Goods Vehicle 	9	Artic, 2 Axle Tractor + 3 Axle Semi-Trailer 
3	Rigid 3 Axle Heavy Goods Vehicle 	10	Artic, 3 Axle Tractor + 1 Axle Semi-Trailer 
4	Rigid 4 Axle Heavy Goods Vehicle 	10	Artic, 3 Axle Tractor + 2 Axle Semi-Trailer 
4	Rigid 4 Axle Heavy Goods Vehicle 	11	Artic, 3 Axle Tractor + 3 Axle Semi-Trailer 
5	Rigid 2 Axle HGV + 2 Axle Drawbar Trailer 	12	Bus or Coach, 2 Axle 
5	Rigid 2 Axle HGV + 3 Axle Drawbar Trailer 	12	Bus or Coach, 3 Axle 
5	Rigid 2 Axle HGV + 1 Axle Caravan or Trailer 	13	Vehicle with 7 or more Axles 

Strabane ATC 6, Moorlough Road

Produced by Streetwise Services Ltd.



Channel 1 - Northbound

























	27/10/2022 Thursday	28/10/2022 Friday	29/10/2022 Saturday	30/10/2022 Sunday	31/10/2022 Monday	01/11/2022 Tuesday	02/11/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	528	520	436	355	552	601	586	557	511
Mean Speed	35.8	34.5	36.0	35.6	34.4	34.1	34.4	34.6	35.0
85%ile Speed	43.6	43.3	43.9	43.2	43.5	38.8	39.0	41.6	42.2
No. Vehicles > 60 MPH Limit	0	26	0	0	0	0	0	5	4
% Vehicles > 60 MPH Limit	0.0	5.0	0.0	0.0	0.0	0.0	0.0	1.0	0.7
No. Vehicles > 75 MPH	0	7	0	0	0	0	0	1	1
% Vehicles > 75 MPH	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.3	0.2

Channel 2 - Southbound

	27/10/2022 Thursday	28/10/2022 Friday	29/10/2022 Saturday	30/10/2022 Sunday	31/10/2022 Monday	01/11/2022 Tuesday	02/11/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	529	470	407	362	521	548	514	516	479
Mean Speed	32.7	30.1	32.8	33.4	32.1	32.3	32.8	32.0	32.3
85%ile Speed	38.4	38.2	38.9	38.5	38.8	38.4	38.3	38.4	38.5
No. Vehicles > 60 MPH Limit	0	0	0	0	0	0	0	0	0
% Vehicles > 60 MPH Limit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
No. Vehicles > 75 MPH	0	0	0	0	0	0	0	0	0
% Vehicles > 75 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Channels 1+2 - Northbound & Southbound

	27/10/2022 Thursday	28/10/2022 Friday	29/10/2022 Saturday	30/10/2022 Sunday	31/10/2022 Monday	01/11/2022 Tuesday	02/11/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	1057	990	843	717	1073	1149	1100	1074	990
Mean Speed	34.3	32.3	34.4	34.5	33.3	33.2	33.6	33.3	33.6
85%ile Speed	41.0	40.8	41.4	40.9	41.1	38.6	38.6	40.0	40.3
No. Vehicles > 60 MPH Limit	0	26	0	0	0	0	0	5	4
% Vehicles > 60 MPH Limit	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.5	0.4
No. Vehicles > 75 MPH	0	7	0	0	0	0	0	1	1
% Vehicles > 75 MPH	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.1	0.1

Class No	Vehicle Description	Class No	Vehicle Description
1	Car, Light Van Taxi 	5	Rigid 2 Axle HGV + 2 Axle (Close coupled) Trailer 
1	Light Goods Vehicle 	6	Rigid 3 Axle HGV + 2 Axle Drawbar Trailer 
1	Car or Light Goods Vehicle + 1 Axle Caravan or Trailer 	6	Rigid 3 Axle HGV + 3 Axle Drawbar Trailer 
1	Car or Light Goods Vehicle + 2 Axle Caravan or Trailer 	7	Artic. 2 Axle Tractor + 1 Axle Semi-Trailer 
2	Rigid 2 Axle Heavy Goods Vehicle 	8	Artic. 2 Axle Tractor + 2 Axle Semi-Trailer 
3	Rigid 3 Axle Heavy Goods Vehicle 	9	Artic. 2 Axle Tractor + 3 Axle Semi-Trailer 
3	Rigid 3 Axle Heavy Goods Vehicle 	10	Artic. 3 Axle Tractor + 1 Axle Semi-Trailer 
4	Rigid 4 Axle Heavy Goods Vehicle 	10	Artic. 3 Axle Tractor + 2 Axle Semi-Trailer 
4	Rigid 4 Axle Heavy Goods Vehicle 	11	Artic. 3 Axle Tractor + 3 Axle Semi-Trailer 
5	Rigid 2 Axle HGV + 2 Axle Drawbar Trailer 	12	Bus or Coach, 2 Axle 
5	Rigid 2 Axle HGV + 3 Axle Drawbar Trailer 	12	Bus or Coach, 3 Axle 
5	Rigid 2 Axle HGV + 1 Axle Caravan or Trailer 	13	Vehicle with 7 or more Axles 

Strabane ATC 7, Art Road

Produced by Streetwise Services Ltd.



Channel 1 - Northbound

























	20/10/2022 Thursday	21/10/2022 Friday	22/10/2022 Saturday	23/10/2022 Sunday	24/10/2022 Monday	25/10/2022 Tuesday	26/10/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	507	548	443	351	499	521	518	519	484
Mean Speed	30.7	31.6	31.7	31.4	30.2	30.9	30.6	30.8	31.0
85%ile Speed	38.6	38.3	38.9	38.5	38.5	38.9	39.0	38.7	38.7
No. Vehicles > 60 MPH Limit	0	0	0	0	0	0	0	0	0
% Vehicles > 60 MPH Limit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
No. Vehicles > 75 MPH	0	0	0	0	0	0	0	0	0
% Vehicles > 75 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Channel 2 - Southbound

	20/10/2022 Thursday	21/10/2022 Friday	22/10/2022 Saturday	23/10/2022 Sunday	24/10/2022 Monday	25/10/2022 Tuesday	26/10/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	537	556	428	393	539	513	522	533	498
Mean Speed	31.3	32.0	31.9	32.0	30.9	31.1	31.5	31.4	31.5
85%ile Speed	38.4	38.8	38.7	38.4	39.0	38.3	38.7	38.6	38.6
No. Vehicles > 60 MPH Limit	0	0	0	0	0	0	0	0	0
% Vehicles > 60 MPH Limit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
No. Vehicles > 75 MPH	0	0	0	0	0	0	0	0	0
% Vehicles > 75 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Channels 1+2 - Northbound & Southbound

	20/10/2022 Thursday	21/10/2022 Friday	22/10/2022 Saturday	23/10/2022 Sunday	24/10/2022 Monday	25/10/2022 Tuesday	26/10/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	1044	1104	871	744	1038	1034	1040	1052	982
Mean Speed	31.0	31.8	31.8	31.7	30.6	31.0	31.1	31.1	31.3
85%ile Speed	38.5	38.5	38.8	38.5	38.8	38.6	38.9	38.7	38.6
No. Vehicles > 60 MPH Limit	0	0	0	0	0	0	0	0	0
% Vehicles > 60 MPH Limit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
No. Vehicles > 75 MPH	0	0	0	0	0	0	0	0	0
% Vehicles > 75 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Class No	Vehicle Description	Class No	Vehicle Description
1	Car, Light Van Taxi 	5	Rigid 2 Axle HGV + 2 Axle (Close coupled) Trailer 
1	Light Goods Vehicle 	6	Rigid 3 Axle HGV + 2 Axle Drawbar Trailer 
1	Car or Light Goods Vehicle + 1 Axle Caravan or Trailer 	6	Rigid 3 Axle HGV + 3 Axle Drawbar Trailer 
1	Car or Light Goods Vehicle + 2 Axle Caravan or Trailer 	7	Artic, 2 Axle Tractor + 1 Axle Semi-Trailer 
2	Rigid 2 Axle Heavy Goods Vehicle 	8	Artic, 2 Axle Tractor + 2 Axle Semi-Trailer 
3	Rigid 3 Axle Heavy Goods Vehicle 	9	Artic, 2 Axle Tractor + 3 Axle Semi-Trailer 
3	Rigid 3 Axle Heavy Goods Vehicle 	10	Artic, 3 Axle Tractor + 1 Axle Semi-Trailer 
4	Rigid 4 Axle Heavy Goods Vehicle 	10	Artic, 3 Axle Tractor + 2 Axle Semi-Trailer 
4	Rigid 4 Axle Heavy Goods Vehicle 	11	Artic, 3 Axle Tractor + 3 Axle Semi-Trailer 
5	Rigid 2 Axle HGV + 2 Axle Drawbar Trailer 	12	Bus or Coach, 2 Axle 
5	Rigid 2 Axle HGV + 3 Axle Drawbar Trailer 	12	Bus or Coach, 3 Axle 
5	Rigid 2 Axle HGV + 1 Axle Caravan or Trailer 	13	Vehicle with 7 or more Axles 

Strabane ATC 7, Art Road

Produced by Streetwise Services Ltd.



Channel 1 - Northbound

























	27/10/2022 Thursday	28/10/2022 Friday	29/10/2022 Saturday	30/10/2022 Sunday	31/10/2022 Monday	01/11/2022 Tuesday	02/11/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	512	489	466	390	534	504	479	504	482
Mean Speed	30.8	30.4	31.2	31.8	30.7	30.5	30.2	30.5	30.8
85%ile Speed	38.6	38.3	38.9	38.5	38.5	38.3	39.0	38.5	38.6
No. Vehicles > 60 MPH Limit	0	0	0	0	0	0	0	0	0
% Vehicles > 60 MPH Limit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
No. Vehicles > 75 MPH	0	0	0	0	0	0	0	0	0
% Vehicles > 75 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Channel 2 - Southbound

	27/10/2022 Thursday	28/10/2022 Friday	29/10/2022 Saturday	30/10/2022 Sunday	31/10/2022 Monday	01/11/2022 Tuesday	02/11/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	539	526	442	396	516	524	483	518	489
Mean Speed	31.4	30.8	31.8	31.9	31.1	31.2	30.7	31.0	31.3
85%ile Speed	38.7	38.7	38.9	38.5	38.8	38.8	38.8	38.8	38.7
No. Vehicles > 60 MPH Limit	0	0	0	0	0	0	0	0	0
% Vehicles > 60 MPH Limit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
No. Vehicles > 75 MPH	0	0	0	0	0	0	0	0	0
% Vehicles > 75 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Channels 1+2 - Northbound & Southbound

	27/10/2022 Thursday	28/10/2022 Friday	29/10/2022 Saturday	30/10/2022 Sunday	31/10/2022 Monday	01/11/2022 Tuesday	02/11/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	1051	1015	908	786	1050	1028	962	1021	971
Mean Speed	31.1	30.6	31.5	31.9	30.9	30.9	30.5	30.8	31.0
85%ile Speed	38.6	38.5	38.9	38.5	38.6	38.5	38.9	38.6	38.7
No. Vehicles > 60 MPH Limit	0	0	0	0	0	0	0	0	0
% Vehicles > 60 MPH Limit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
No. Vehicles > 75 MPH	0	0	0	0	0	0	0	0	0
% Vehicles > 75 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Class No	Vehicle Description	Class No	Vehicle Description
1	Car, Light Van Taxi 	5	Rigid 2 Axle HGV + 2 Axle (Close coupled) Trailer 
1	Light Goods Vehicle 	6	Rigid 3 Axle HGV + 2 Axle Drawbar Trailer 
1	Car or Light Goods Vehicle + 1 Axle Caravan or Trailer 	6	Rigid 3 Axle HGV + 3 Axle Drawbar Trailer 
1	Car or Light Goods Vehicle + 2 Axle Caravan or Trailer 	7	Artic, 2 Axle Tractor + 1 Axle Semi-Trailer 
2	Rigid 2 Axle Heavy Goods Vehicle 	8	Artic, 2 Axle Tractor + 2 Axle Semi-Trailer 
3	Rigid 3 Axle Heavy Goods Vehicle 	9	Artic, 2 Axle Tractor + 3 Axle Semi-Trailer 
3	Rigid 3 Axle Heavy Goods Vehicle 	10	Artic, 3 Axle Tractor + 1 Axle Semi-Trailer 
4	Rigid 4 Axle Heavy Goods Vehicle 	10	Artic, 3 Axle Tractor + 2 Axle Semi-Trailer 
4	Rigid 4 Axle Heavy Goods Vehicle 	11	Artic, 3 Axle Tractor + 3 Axle Semi-Trailer 
5	Rigid 2 Axle HGV + 2 Axle Drawbar Trailer 	12	Bus or Coach, 2 Axle 
5	Rigid 2 Axle HGV + 3 Axle Drawbar Trailer 	12	Bus or Coach, 3 Axle 
5	Rigid 2 Axle HGV + 1 Axle Caravan or Trailer 	13	Vehicle with 7 or more Axles 

Strabane ATC 9, Berryhill Road

Produced by Streetwise Services Ltd.



Channel 1 - Westbound

























	20/10/2022 Thursday	21/10/2022 Friday	22/10/2022 Saturday	23/10/2022 Sunday	24/10/2022 Monday	25/10/2022 Tuesday	26/10/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	2623	2752	2291	1810	2414	2547	2576	2582	2430
Mean Speed	44.0	44.1	43.6	43.9	42.7	42.9	43.2	43.4	43.5
85%ile Speed	48.6	48.9	48.6	48.2	48.4	48.8	49.0	48.7	48.6
No. Vehicles > 60 MPH Limit	6	8	1	4	2	12	2	6	5
% Vehicles > 60 MPH Limit	0.2	0.3	0.0	0.2	0.1	0.5	0.1	0.2	0.2
No. Vehicles > 75 MPH	0	0	0	0	0	0	0	0	0
% Vehicles > 75 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Channel 2 - Eastbound

	20/10/2022 Thursday	21/10/2022 Friday	22/10/2022 Saturday	23/10/2022 Sunday	24/10/2022 Monday	25/10/2022 Tuesday	26/10/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	2642	2724	2178	1901	2501	2534	2590	2598	2439
Mean Speed	42.4	42.6	42.5	43.5	42.4	41.8	42.5	42.3	42.5
85%ile Speed	48.5	48.1	48.4	48.1	48.5	48.2	48.6	48.4	48.3
No. Vehicles > 60 MPH Limit	1	6	3	6	1	4	7	4	4
% Vehicles > 60 MPH Limit	0.0	0.2	0.1	0.3	0.0	0.2	0.3	0.1	0.2
No. Vehicles > 75 MPH	0	0	0	0	0	0	0	0	0
% Vehicles > 75 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Channels 1+2 - Westbound & Eastbound

	20/10/2022 Thursday	21/10/2022 Friday	22/10/2022 Saturday	23/10/2022 Sunday	24/10/2022 Monday	25/10/2022 Tuesday	26/10/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	5265	5476	4469	3711	4915	5081	5166	5181	4869
Mean Speed	43.2	43.4	43.1	43.7	42.6	42.4	42.9	42.9	43.0
85%ile Speed	48.5	48.5	48.5	48.1	48.5	48.5	48.8	48.6	48.5
No. Vehicles > 60 MPH Limit	7	14	4	10	3	16	9	10	9
% Vehicles > 60 MPH Limit	0.1	0.3	0.1	0.3	0.1	0.3	0.2	0.2	0.2
No. Vehicles > 75 MPH	0	0	0	0	0	0	0	0	0
% Vehicles > 75 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Class No	Vehicle Description	Class No	Vehicle Description
1	Car, Light Van Taxi 	5	Rigid 2 Axle HGV + 2 Axle (Close coupled) Trailer 
1	Light Goods Vehicle 	6	Rigid 3 Axle HGV + 2 Axle Drawbar Trailer 
1	Car or Light Goods Vehicle + 1 Axle Caravan or Trailer 	6	Rigid 3 Axle HGV + 3 Axle Drawbar Trailer 
1	Car or Light Goods Vehicle + 2 Axle Caravan or Trailer 	7	Artic. 2 Axle Tractor + 1 Axle Semi-Trailer 
2	Rigid 2 Axle Heavy Goods Vehicle 	8	Artic. 2 Axle Tractor + 2 Axle Semi-Trailer 
3	Rigid 3 Axle Heavy Goods Vehicle 	9	Artic. 2 Axle Tractor + 3 Axle Semi-Trailer 
3	Rigid 3 Axle Heavy Goods Vehicle 	10	Artic. 3 Axle Tractor + 1 Axle Semi-Trailer 
4	Rigid 4 Axle Heavy Goods Vehicle 	10	Artic. 3 Axle Tractor + 2 Axle Semi-Trailer 
4	Rigid 4 Axle Heavy Goods Vehicle 	11	Artic. 3 Axle Tractor + 3 Axle Semi-Trailer 
5	Rigid 2 Axle HGV + 2 Axle Drawbar Trailer 	12	Bus or Coach, 2 Axle 
5	Rigid 2 Axle HGV + 3 Axle Drawbar Trailer 	12	Bus or Coach, 3 Axle 
5	Rigid 2 Axle HGV + 1 Axle Caravan or Trailer 	13	Vehicle with 7 or more Axles 

Strabane ATC 9, Berryhill Road

Produced by Streetwise Services Ltd.



Channel 1 - Westbound

























	27/10/2022 Thursday	28/10/2022 Friday	29/10/2022 Saturday	30/10/2022 Sunday	31/10/2022 Monday	01/11/2022 Tuesday	02/11/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	2576	2712	2239	1721	2275	2355	2247	2433	2304
Mean Speed	43.7	39.1	43.1	43.7	42.9	43.1	42.5	42.3	42.6
85%ile Speed	48.6	48.9	48.6	48.2	48.1	48.3	48.0	48.4	48.4
No. Vehicles > 60 MPH Limit	5	4	4	4	2	2	4	3	4
% Vehicles > 60 MPH Limit	0.2	0.1	0.2	0.2	0.1	0.1	0.2	0.1	0.2
No. Vehicles > 75 MPH	0	0	0	0	0	0	0	0	0
% Vehicles > 75 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Channel 2 - Eastbound

	27/10/2022 Thursday	28/10/2022 Friday	29/10/2022 Saturday	30/10/2022 Sunday	31/10/2022 Monday	01/11/2022 Tuesday	02/11/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	2560	2742	2179	1733	2284	2361	2274	2444	2305
Mean Speed	42.5	38.3	42.6	43.2	42.4	42.4	42.3	41.6	42.0
85%ile Speed	48.4	48.0	48.1	48.5	48.3	48.7	48.1	48.3	48.3
No. Vehicles > 60 MPH Limit	6	1	4	5	10	2	3	4	4
% Vehicles > 60 MPH Limit	0.2	0.0	0.2	0.3	0.4	0.1	0.1	0.2	0.2
No. Vehicles > 75 MPH	0	0	0	0	0	0	0	0	0
% Vehicles > 75 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Channels 1+2 - Westbound & Eastbound

	27/10/2022 Thursday	28/10/2022 Friday	29/10/2022 Saturday	30/10/2022 Sunday	31/10/2022 Monday	01/11/2022 Tuesday	02/11/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	5136	5454	4418	3454	4559	4716	4521	4877	4608
Mean Speed	43.1	38.7	42.9	43.5	42.7	42.8	42.4	41.9	42.3
85%ile Speed	48.5	48.5	48.3	48.4	48.2	48.5	48.0	48.3	48.3
No. Vehicles > 60 MPH Limit	11	5	8	9	12	4	7	8	8
% Vehicles > 60 MPH Limit	0.2	0.1	0.2	0.3	0.3	0.1	0.2	0.2	0.2
No. Vehicles > 75 MPH	0	0	0	0	0	0	0	0	0
% Vehicles > 75 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Class No	Vehicle Description	Class No	Vehicle Description
1	Car, Light Van Taxi 	5	Rigid 2 Axle HGV + 2 Axle (Close coupled) Trailer 
1	Light Goods Vehicle 	6	Rigid 3 Axle HGV + 2 Axle Drawbar Trailer 
1	Car or Light Goods Vehicle + 1 Axle Caravan or Trailer 	6	Rigid 3 Axle HGV + 3 Axle Drawbar Trailer 
1	Car or Light Goods Vehicle + 2 Axle Caravan or Trailer 	7	Artic. 2 Axle Tractor + 1 Axle Semi-Trailer 
2	Rigid 2 Axle Heavy Goods Vehicle 	8	Artic. 2 Axle Tractor + 2 Axle Semi-Trailer 
3	Rigid 3 Axle Heavy Goods Vehicle 	9	Artic. 2 Axle Tractor + 3 Axle Semi-Trailer 
3	Rigid 3 Axle Heavy Goods Vehicle 	10	Artic. 3 Axle Tractor + 1 Axle Semi-Trailer 
4	Rigid 4 Axle Heavy Goods Vehicle 	10	Artic. 3 Axle Tractor + 2 Axle Semi-Trailer 
4	Rigid 4 Axle Heavy Goods Vehicle 	11	Artic. 3 Axle Tractor + 3 Axle Semi-Trailer 
5	Rigid 2 Axle HGV + 2 Axle Drawbar Trailer 	12	Bus or Coach, 2 Axle 
5	Rigid 2 Axle HGV + 3 Axle Drawbar Trailer 	12	Bus or Coach, 3 Axle 
5	Rigid 2 Axle HGV + 1 Axle Caravan or Trailer 	13	Vehicle with 7 or more Axles 

Strabane ATC 10, Woodend Road

Produced by Streetwise Services Ltd.



Channel 1 - Northbound

























	20/10/2022 Thursday	21/10/2022 Friday	22/10/2022 Saturday	23/10/2022 Sunday	24/10/2022 Monday	25/10/2022 Tuesday	26/10/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	397	449	422	337	384	425	419	415	405
Mean Speed	32.7	31.6	31.6	31.6	30.7	31.4	31.8	31.6	31.6
85%ile Speed	38.8	38.1	38.3	39.0	38.1	38.9	38.3	38.4	38.5
No. Vehicles > 30 MPH Limit	265	261	242	189	202	236	248	242	235
% Vehicles > 30 MPH Limit	66.8	58.1	57.3	56.1	52.6	55.5	59.2	58.4	57.9
No. Vehicles > 45 MPH	7	6	5	7	3	3	7	5	5
% Vehicles > 45 MPH	1.8	1.3	1.2	2.1	0.8	0.7	1.7	1.3	1.4

Channel 2 - Southbound

	20/10/2022 Thursday	21/10/2022 Friday	22/10/2022 Saturday	23/10/2022 Sunday	24/10/2022 Monday	25/10/2022 Tuesday	26/10/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	457	465	404	332	382	412	431	429	412
Mean Speed	31.8	31.8	30.5	31.1	30.6	30.9	31.5	31.3	31.2
85%ile Speed	38.3	38.5	38.8	39.0	38.1	38.2	38.8	38.4	38.5
No. Vehicles > 30 MPH Limit	284	278	197	176	210	219	253	249	231
% Vehicles > 30 MPH Limit	62.1	59.8	48.8	53.0	55.0	53.2	58.7	57.8	55.8
No. Vehicles > 45 MPH	6	6	2	3	0	3	4	4	3
% Vehicles > 45 MPH	1.3	1.3	0.5	0.9	0.0	0.7	0.9	0.9	0.8

Channels 1+2 - Northbound & Southbound

	20/10/2022 Thursday	21/10/2022 Friday	22/10/2022 Saturday	23/10/2022 Sunday	24/10/2022 Monday	25/10/2022 Tuesday	26/10/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	854	914	826	669	766	837	850	844	817
Mean Speed	32.3	31.7	31.1	31.4	30.7	31.2	31.7	31.5	31.4
85%ile Speed	38.5	38.3	38.5	39.0	38.1	38.6	38.5	38.4	38.5
No. Vehicles > 30 MPH Limit	549	539	439	365	412	455	501	491	466
% Vehicles > 30 MPH Limit	64.3	59.0	53.1	54.6	53.8	54.4	58.9	58.1	56.9
No. Vehicles > 45 MPH	13	12	7	10	3	6	11	9	9
% Vehicles > 45 MPH	1.5	1.3	0.8	1.5	0.4	0.7	1.3	1.0	1.1

Class No	Vehicle Description	Class No	Vehicle Description
1	Car, Light Van Taxi 	5	Rigid 2 Axle HGV + 2 Axle (Close coupled) Trailer 
1	Light Goods Vehicle 	6	Rigid 3 Axle HGV + 2 Axle Drawbar Trailer 
1	Car or Light Goods Vehicle + 1 Axle Caravan or Trailer 	6	Rigid 3 Axle HGV + 3 Axle Drawbar Trailer 
1	Car or Light Goods Vehicle + 2 Axle Caravan or Trailer 	7	Artic, 2 Axle Tractor + 1 Axle Semi-Trailer 
2	Rigid 2 Axle Heavy Goods Vehicle 	8	Artic, 2 Axle Tractor + 2 Axle Semi-Trailer 
3	Rigid 3 Axle Heavy Goods Vehicle 	9	Artic, 2 Axle Tractor + 3 Axle Semi-Trailer 
3	Rigid 3 Axle Heavy Goods Vehicle 	10	Artic, 3 Axle Tractor + 1 Axle Semi-Trailer 
4	Rigid 4 Axle Heavy Goods Vehicle 	10	Artic, 3 Axle Tractor + 2 Axle Semi-Trailer 
4	Rigid 4 Axle Heavy Goods Vehicle 	11	Artic, 3 Axle Tractor + 3 Axle Semi-Trailer 
5	Rigid 2 Axle HGV + 2 Axle Drawbar Trailer 	12	Bus or Coach, 2 Axle 
5	Rigid 2 Axle HGV + 3 Axle Drawbar Trailer 	12	Bus or Coach, 3 Axle 
5	Rigid 2 Axle HGV + 1 Axle Caravan or Trailer 	13	Vehicle with 7 or more Axles 

Strabane ATC 10, Woodend Road

Produced by Streetwise Services Ltd.



Channel 1 - Northbound

























	27/10/2022 Thursday	28/10/2022 Friday	29/10/2022 Saturday	30/10/2022 Sunday	31/10/2022 Monday	01/11/2022 Tuesday	02/11/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	474	483	388	346	378	388	416	428	410
Mean Speed	32.0	31.5	31.5	31.5	31.3	32.6	31.6	31.8	31.7
85%ile Speed	38.6	38.8	38.4	38.4	38.5	38.4	38.5	38.6	38.5
No. Vehicles > 30 MPH Limit	282	279	228	196	226	254	241	256	244
% Vehicles > 30 MPH Limit	59.5	57.8	58.8	56.6	59.8	65.5	57.9	60.1	59.4
No. Vehicles > 45 MPH	6	3	6	2	1	4	5	4	4
% Vehicles > 45 MPH	1.3	0.6	1.5	0.6	0.3	1.0	1.2	0.9	0.9

Channel 2 - Southbound

	27/10/2022 Thursday	28/10/2022 Friday	29/10/2022 Saturday	30/10/2022 Sunday	31/10/2022 Monday	01/11/2022 Tuesday	02/11/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	446	442	397	372	377	377	380	404	399
Mean Speed	31.5	31.4	30.9	30.8	30.7	31.1	30.9	31.1	31.0
85%ile Speed	38.5	38.2	38.7	38.5	38.1	38.5	38.7	38.4	38.5
No. Vehicles > 30 MPH Limit	266	242	214	199	210	214	198	226	220
% Vehicles > 30 MPH Limit	59.6	54.8	53.9	53.5	55.7	56.8	52.1	55.8	55.2
No. Vehicles > 45 MPH	4	5	3	1	2	3	3	3	3
% Vehicles > 45 MPH	0.9	1.1	0.8	0.3	0.5	0.8	0.8	0.8	0.7

Channels 1+2 - Northbound & Southbound

	27/10/2022 Thursday	28/10/2022 Friday	29/10/2022 Saturday	30/10/2022 Sunday	31/10/2022 Monday	01/11/2022 Tuesday	02/11/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	920	925	785	718	755	765	796	832	809
Mean Speed	31.8	31.5	31.2	31.2	31.0	31.9	31.3	31.5	31.4
85%ile Speed	38.5	38.5	38.6	38.5	38.3	38.5	38.6	38.5	38.5
No. Vehicles > 30 MPH Limit	548	521	442	395	436	468	439	482	464
% Vehicles > 30 MPH Limit	59.6	56.3	56.3	55.0	57.7	61.2	55.2	58.0	57.3
No. Vehicles > 45 MPH	10	8	9	3	3	7	8	7	7
% Vehicles > 45 MPH	1.1	0.9	1.1	0.4	0.4	0.9	1.0	0.9	0.8

Class No	Vehicle Description	Class No	Vehicle Description
1	Car, Light Van Taxi 	5	Rigid 2 Axle HGV + 2 Axle (Close coupled) Trailer 
1	Light Goods Vehicle 	6	Rigid 3 Axle HGV + 2 Axle Drawbar Trailer 
1	Car or Light Goods Vehicle + 1 Axle Caravan or Trailer 	6	Rigid 3 Axle HGV + 3 Axle Drawbar Trailer 
1	Car or Light Goods Vehicle + 2 Axle Caravan or Trailer 	7	Artic, 2 Axle Tractor + 1 Axle Semi-Trailer 
2	Rigid 2 Axle Heavy Goods Vehicle 	8	Artic, 2 Axle Tractor + 2 Axle Semi-Trailer 
3	Rigid 3 Axle Heavy Goods Vehicle 	9	Artic, 2 Axle Tractor + 3 Axle Semi-Trailer 
3	Rigid 3 Axle Heavy Goods Vehicle 	10	Artic, 3 Axle Tractor + 1 Axle Semi-Trailer 
4	Rigid 4 Axle Heavy Goods Vehicle 	10	Artic, 3 Axle Tractor + 2 Axle Semi-Trailer 
4	Rigid 4 Axle Heavy Goods Vehicle 	11	Artic, 3 Axle Tractor + 3 Axle Semi-Trailer 
5	Rigid 2 Axle HGV + 2 Axle Drawbar Trailer 	12	Bus or Coach, 2 Axle 
5	Rigid 2 Axle HGV + 3 Axle Drawbar Trailer 	12	Bus or Coach, 3 Axle 
5	Rigid 2 Axle HGV + 1 Axle Caravan or Trailer 	13	Vehicle with 7 or more Axles 

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Channel 1 - Northbound

























	20/10/2022 Thursday	21/10/2022 Friday	22/10/2022 Saturday	23/10/2022 Sunday	24/10/2022 Monday	25/10/2022 Tuesday	26/10/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	6654	6947	5213	4561	6209	6596	6653	6612	6119
Mean Speed	28.1	28.0	29.2	28.9	28.4	28.1	28.1	28.1	28.4
85%ile Speed	33.6	33.9	33.6	33.2	33.1	33.3	33.0	33.4	33.4
No. Vehicles > 30 MPH Limit	1749	1814	1906	1544	1754	1663	1818	1760	1750
% Vehicles > 30 MPH Limit	26.3	26.1	36.6	33.9	28.2	25.2	27.3	26.6	29.1
No. Vehicles > 45 MPH	19	35	29	33	25	18	27	25	27
% Vehicles > 45 MPH	0.3	0.5	0.6	0.7	0.4	0.3	0.4	0.4	0.5

Channel 2 - Southbound

	20/10/2022 Thursday	21/10/2022 Friday	22/10/2022 Saturday	23/10/2022 Sunday	24/10/2022 Monday	25/10/2022 Tuesday	26/10/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	6592	6831	5078	4585	6438	6480	6740	6616	6106
Mean Speed	26.8	27.0	27.7	28.3	28.1	27.2	26.9	27.2	27.4
85%ile Speed	33.4	33.0	33.1	33.5	33.3	33.7	33.1	33.3	33.3
No. Vehicles > 30 MPH Limit	1265	1312	1164	1323	1581	1220	1279	1331	1306
% Vehicles > 30 MPH Limit	19.2	19.2	22.9	28.9	24.6	18.8	19.0	20.2	21.8
No. Vehicles > 45 MPH	25	19	26	38	124	40	36	49	44
% Vehicles > 45 MPH	0.4	0.3	0.5	0.8	1.9	0.6	0.5	0.7	0.7

Channels 1+2 - Northbound & Southbound

	20/10/2022 Thursday	21/10/2022 Friday	22/10/2022 Saturday	23/10/2022 Sunday	24/10/2022 Monday	25/10/2022 Tuesday	26/10/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	13246	13778	10291	9146	12647	13076	13393	13228	12225
Mean Speed	27.5	27.5	28.5	28.6	28.3	27.7	27.5	27.7	27.9
85%ile Speed	33.5	33.5	33.3	33.4	33.2	33.5	33.0	33.3	33.3
No. Vehicles > 30 MPH Limit	3014	3126	3070	2867	3335	2883	3097	3091	3056
% Vehicles > 30 MPH Limit	22.8	22.7	29.8	31.3	26.4	22.0	23.1	23.4	25.5
No. Vehicles > 45 MPH	44	54	55	71	149	58	63	74	71
% Vehicles > 45 MPH	0.3	0.4	0.5	0.8	1.2	0.4	0.5	0.6	0.6

Class No	Vehicle Description	Class No	Vehicle Description
1	Car, Light Van Taxi 	5	Rigid 2 Axle HGV + 2 Axle (Close coupled) Trailer 
1	Light Goods Vehicle 	6	Rigid 3 Axle HGV + 2 Axle Drawbar Trailer 
1	Car or Light Goods Vehicle + 1 Axle Caravan or Trailer 	6	Rigid 3 Axle HGV + 3 Axle Drawbar Trailer 
1	Car or Light Goods Vehicle + 2 Axle Caravan or Trailer 	7	Artic. 2 Axle Tractor + 1 Axle Semi-Trailer 
2	Rigid 2 Axle Heavy Goods Vehicle 	8	Artic. 2 Axle Tractor + 2 Axle Semi-Trailer 
3	Rigid 3 Axle Heavy Goods Vehicle 	9	Artic. 2 Axle Tractor + 3 Axle Semi-Trailer 
3	Rigid 3 Axle Heavy Goods Vehicle 	10	Artic. 3 Axle Tractor + 1 Axle Semi-Trailer 
4	Rigid 4 Axle Heavy Goods Vehicle 	10	Artic. 3 Axle Tractor + 2 Axle Semi-Trailer 
4	Rigid 4 Axle Heavy Goods Vehicle 	11	Artic. 3 Axle Tractor + 3 Axle Semi-Trailer 
5	Rigid 2 Axle HGV + 2 Axle Drawbar Trailer 	12	Bus or Coach, 2 Axle 
5	Rigid 2 Axle HGV + 3 Axle Drawbar Trailer 	12	Bus or Coach, 3 Axle 
5	Rigid 2 Axle HGV + 1 Axle Caravan or Trailer 	13	Vehicle with 7 or more Axles 

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Channel 1 - Northbound

























	27/10/2022 Thursday	28/10/2022 Friday	29/10/2022 Saturday	30/10/2022 Sunday	31/10/2022 Monday	01/11/2022 Tuesday	02/11/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	7079	7409	5714	5508	6515	6006	6179	6638	6344
Mean Speed	28.2	27.9	28.3	28.3	28.2	28.7	28.3	28.3	28.3
85%ile Speed	33.6	33.9	33.6	33.2	33.1	33.3	33.0	33.4	33.4
No. Vehicles > 30 MPH Limit	1894	1971	1713	1620	1776	1834	1764	1848	1796
% Vehicles > 30 MPH Limit	26.8	26.6	30.0	29.4	27.3	30.5	28.5	27.9	28.4
No. Vehicles > 45 MPH	43	15	24	35	33	24	18	27	27
% Vehicles > 45 MPH	0.6	0.2	0.4	0.6	0.5	0.4	0.3	0.4	0.4

Channel 2 - Southbound

	27/10/2022 Thursday	28/10/2022 Friday	29/10/2022 Saturday	30/10/2022 Sunday	31/10/2022 Monday	01/11/2022 Tuesday	02/11/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	6889	6875	5458	5277	6658	6817	6207	6689	6312
Mean Speed	27.0	26.8	27.5	27.7	27.5	28.1	27.4	27.4	27.4
85%ile Speed	33.4	33.0	33.1	33.5	33.3	33.7	33.1	33.3	33.3
No. Vehicles > 30 MPH Limit	1230	1246	1248	1317	1487	1691	1349	1401	1367
% Vehicles > 30 MPH Limit	17.9	18.1	22.9	25.0	22.3	24.8	21.7	21.0	21.8
No. Vehicles > 45 MPH	28	13	27	29	22	131	43	47	42
% Vehicles > 45 MPH	0.4	0.2	0.5	0.5	0.3	1.9	0.7	0.7	0.7

Channels 1+2 - Northbound & Southbound

	27/10/2022 Thursday	28/10/2022 Friday	29/10/2022 Saturday	30/10/2022 Sunday	31/10/2022 Monday	01/11/2022 Tuesday	02/11/2022 Wednesday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	13968	14284	11172	10785	13173	12823	12386	13327	12656
Mean Speed	27.6	27.4	27.9	28.0	27.9	28.4	27.9	27.8	27.9
85%ile Speed	33.5	33.5	33.3	33.4	33.2	33.5	33.0	33.3	33.3
No. Vehicles > 30 MPH Limit	3124	3217	2961	2937	3263	3525	3113	3248	3163
% Vehicles > 30 MPH Limit	22.4	22.5	26.5	27.2	24.8	27.5	25.1	24.5	25.1
No. Vehicles > 45 MPH	71	28	51	64	55	155	61	74	69
% Vehicles > 45 MPH	0.5	0.2	0.5	0.6	0.4	1.2	0.5	0.6	0.6

Class No	Vehicle Description	Class No	Vehicle Description
1	Car, Light Van Taxi 	5	Rigid 2 Axle HGV + 2 Axle (Close coupled) Trailer 
1	Light Goods Vehicle 	6	Rigid 3 Axle HGV + 2 Axle Drawbar Trailer 
1	Car or Light Goods Vehicle + 1 Axle Caravan or Trailer 	6	Rigid 3 Axle HGV + 3 Axle Drawbar Trailer 
1	Car or Light Goods Vehicle + 2 Axle Caravan or Trailer 	7	Artic. 2 Axle Tractor + 1 Axle Semi-Trailer 
2	Rigid 2 Axle Heavy Goods Vehicle 	8	Artic. 2 Axle Tractor + 2 Axle Semi-Trailer 
3	Rigid 3 Axle Heavy Goods Vehicle 	9	Artic. 2 Axle Tractor + 3 Axle Semi-Trailer 
3	Rigid 3 Axle Heavy Goods Vehicle 	10	Artic. 3 Axle Tractor + 1 Axle Semi-Trailer 
4	Rigid 4 Axle Heavy Goods Vehicle 	10	Artic. 3 Axle Tractor + 2 Axle Semi-Trailer 
4	Rigid 4 Axle Heavy Goods Vehicle 	11	Artic. 3 Axle Tractor + 3 Axle Semi-Trailer 
5	Rigid 2 Axle HGV + 2 Axle Drawbar Trailer 	12	Bus or Coach, 2 Axle 
5	Rigid 2 Axle HGV + 3 Axle Drawbar Trailer 	12	Bus or Coach, 3 Axle 
5	Rigid 2 Axle HGV + 1 Axle Caravan or Trailer 	13	Vehicle with 7 or more Axles 

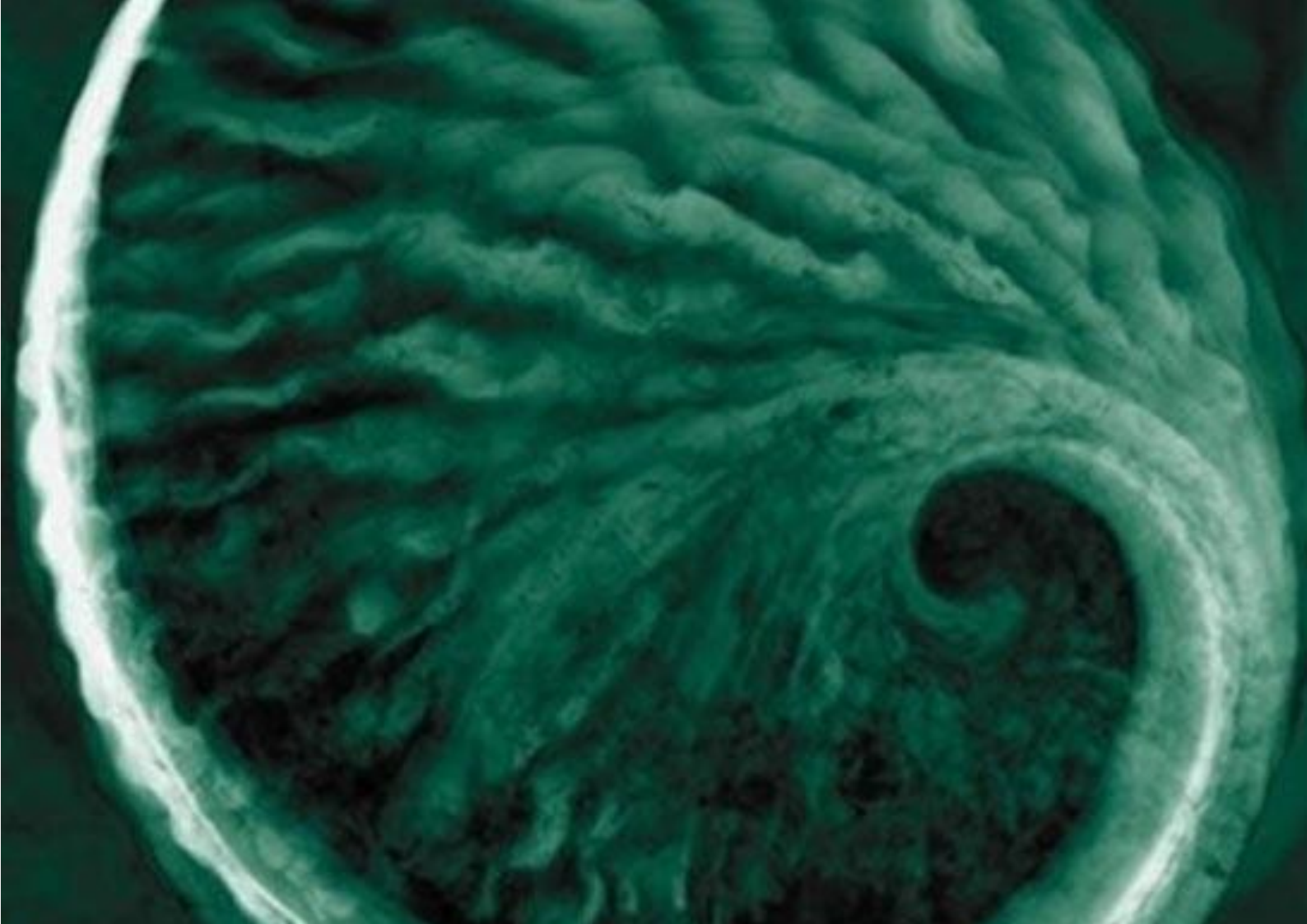
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Owenreagh/Craignagapple Wind Farm

Ørsted Onshore Ireland Midco Limited

Environmental Statement - Technical
Appendix A13.3 Construction Development
Programme

06 September 2023

Project No.: 0696177

Signature Page

06 September 2023

Owenreagh/Craignagapple Wind Farm

Environmental Statement - Technical Appendix A13.3 Construction Development Programme



Frank Ocran
Principal Transport Planner



Tomos ApTomos
Operational Director



Peter Rodgers
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Technical Appendix A13.3 - Construction Development Programme													
Activity	Month												Total
	1	2	3	4	5	6	7	8	9	10	11	12	
HGV and ALV Excluding Concrete													
Site Establishment	40												40
Decomissioning Existing Turbines		70	70	70									210
Access Tracks		3770	3766	3766	3768								15070
Substation Construction						20	10	12					42
Turbine Hardstandings and Foundations				71	47	46							164
Cable Installation and Electrical Works						26	24						50
Crane Delivery							16			16			32
Turbines							116	112	112	112			452
Site Restoration											20	20	
Fuel Delivery	8	8	8	8	8	8	8	8	8	8	8	8	96
Sub-Total	48	3848	3844	3915	3823	100	174	132	120	136	28	28	16156
Concrete Delivery													
Concrete Delivery for Turbine Foundations				588	588	588							1764
Sub-Total				588	588	588	0	0	0	0	0	0	1764
Staff Cars and Vans													
Site Establishment	10												10
Substation Escort								4					4
Crane Delivery Escort							8			8			16
WTG Escort							80	76	76	76			308
Site Restoration												10	10
Staff	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	31200
Sub-Total	2610	2600	2600	2600	2600	2600	2688	2680	2676	2684	2600	2610	31548
Total Excluding Concrete Delivery	2658	6448	6444	6515	6423	2700	2862	2812	2796	2820	2628	2638	47744
Overall Total	2658	6448	6444	7103	7011	3288	2862	2812	2796	2820	2628	2638	49508
Daily Average (26 Day Month) excluding concrete delivery	102	248	248	251	247	104	110	108	108	108	101	101	
Daily Average Including Concrete Delivery (14 non-consecutive Days)				377	373	230							

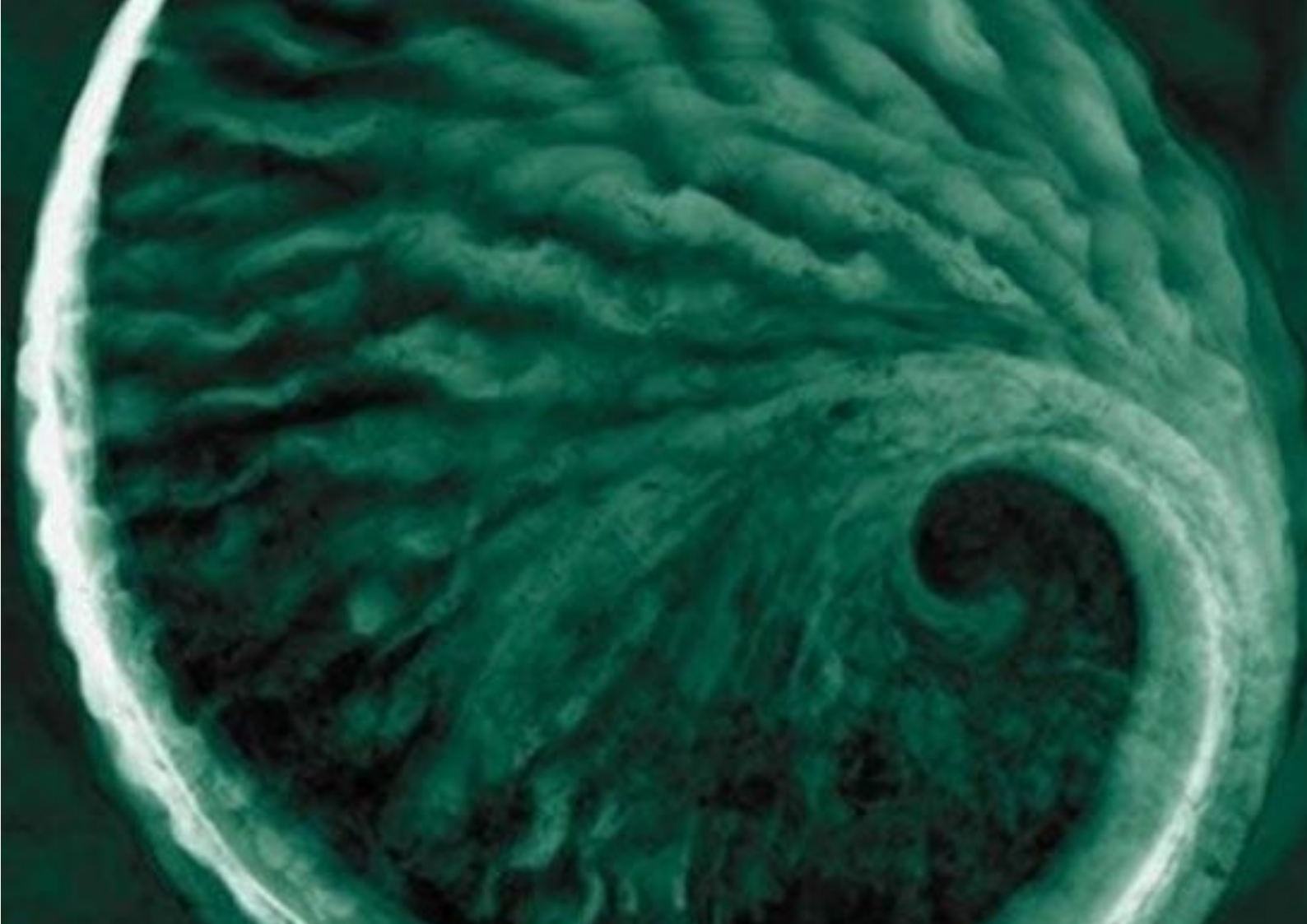
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Owenreagh/Craignagapple Wind Farm

Ørsted Onshore Ireland Midco Limited

Environmental Statement- Technical
Appendix A13.4 Access Junction Design
and Visibility Splay Assessment

06 September 2023

Project No.: 0696177

Signature Page

06 September 2023

Owenreagh/Craignagapple Wind Farm

Environmental Statement- Technical Appendix A13.4 Access Junction Design and Visibility Splay Assessment



Frank Ocran
Principal Transport Planner



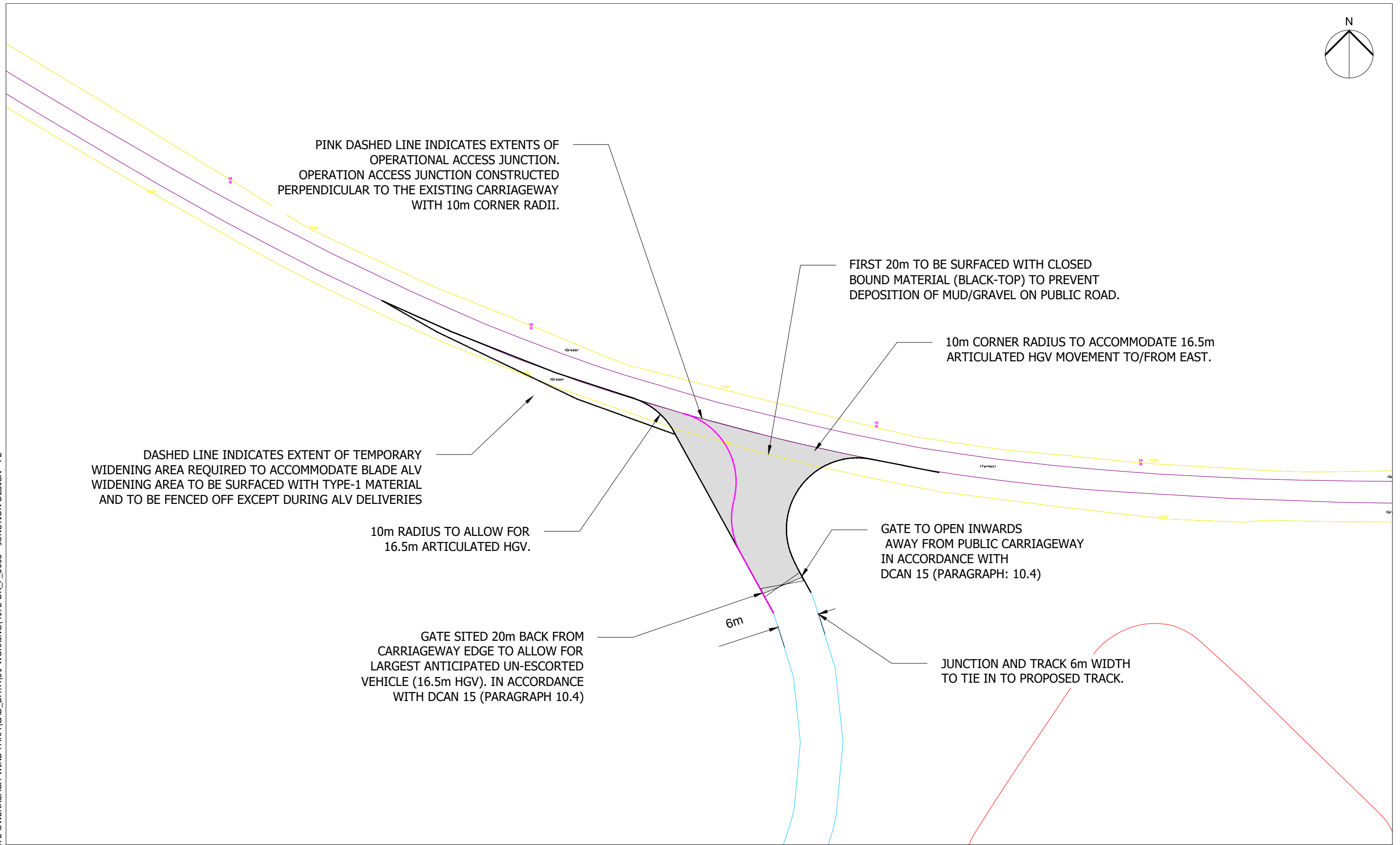
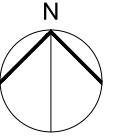
Tomos ApTomos
Operational Director



Peter Rodger
Partner

Environmental Resources Management Ireland Limited, D5 Nutgrove Office Park, Dublin 14, D14 X343, Ireland.

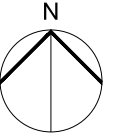
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Plot Date : 12 April 2023 15:13:58
File Name : Y:\PROJECTS\4172 OWENREAGH WIND FARM\CAD_DATA\01-WORKING\4172-DR_P_0003 - JUNCTION DESIGN - P2

Project Title OWENREAGH I REPOWERING	Drawing Title Figure A13.4.1: TURBINES 1 AND 2 ACCESS JUNCTION GENERAL ARRANGEMENT	Purpose of issue PRELIMINARY				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ARCUS' APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ARCUS ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Arcus Consultancy Services	
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Client 		Arcus Internal Project No. 4172	Date 12/04/23	Drawing Number 4172-DR-J-0001		Rev 1		
		Scale @ A3 1:500						





PINK DASHED LINE INDICATES EXTENTS OF OPERATIONAL ACCESS JUNCTION. OPERATION ACCESS JUNCTION CONSTRUCTED PERPENDICULAR TO THE EXISTING CARRIAGEWAY WITH 10m CORNER RADII.

FIRST 20m TO BE SURFACED WITH CLOSED BOUND MATERIAL (BLACK-TOP) TO PREVENT DEPOSITION OF MUD/GRAVEL ON PUBLIC ROAD.

DASHED LINE INDICATES EXTENT OF TEMPORARY WIDENING AREA REQUIRED TO ACCOMMODATE BLADE ALV WIDENING AREA TO BE SURFACED WITH TYPE-1 MATERIAL AND TO BE FENCED OFF EXCEPT DURING ALV DELIVERIES

10m RADIUS MATCHING EXISTING JUNCTION

GATE TO OPEN INWARDS AWAY FROM PUBLIC CARRIAGEWAY IN ACCORDANCE WITH DCAN 15 (PARAGRAPH: 10.4)



10m RADIUS WITH ADDITIONAL TAPER TO ALLOW FOR 16.5m ARTICULATED HGV. MATCHING EXISTING JUNCTION

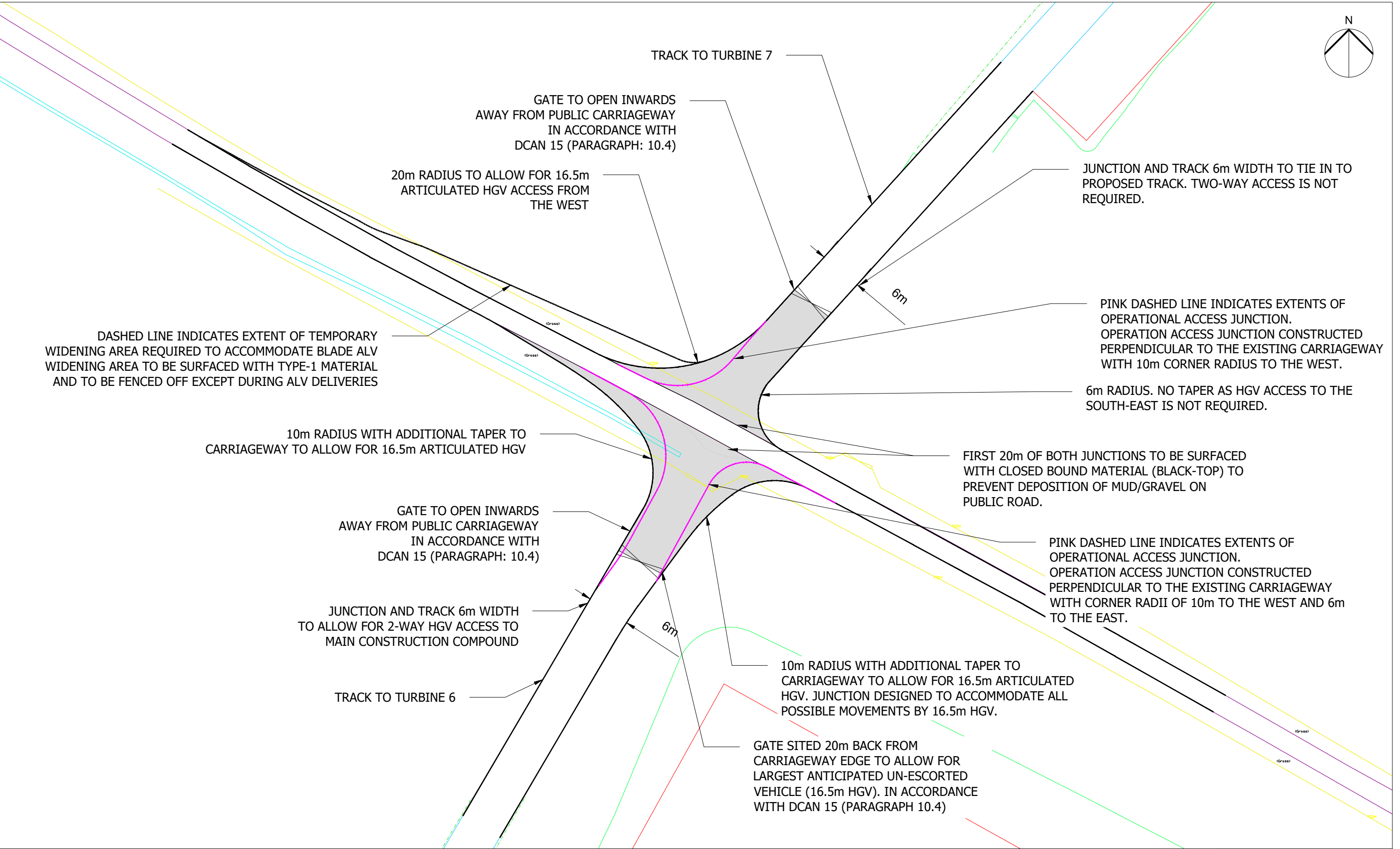
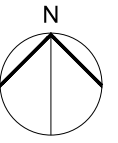
GATE SITED 20m BACK FROM CARRIAGEWAY EDGE TO ALLOW FOR LARGEST ANTICIPATED UN-ESCORTED VEHICLE (16.5m HGV). IN ACCORDANCE WITH DCAN 15 (PARAGRAPH 10.4)

6m



JUNCTION AND TRACK 6m WIDTH TO TIE IN TO PROPOSED TRACK.

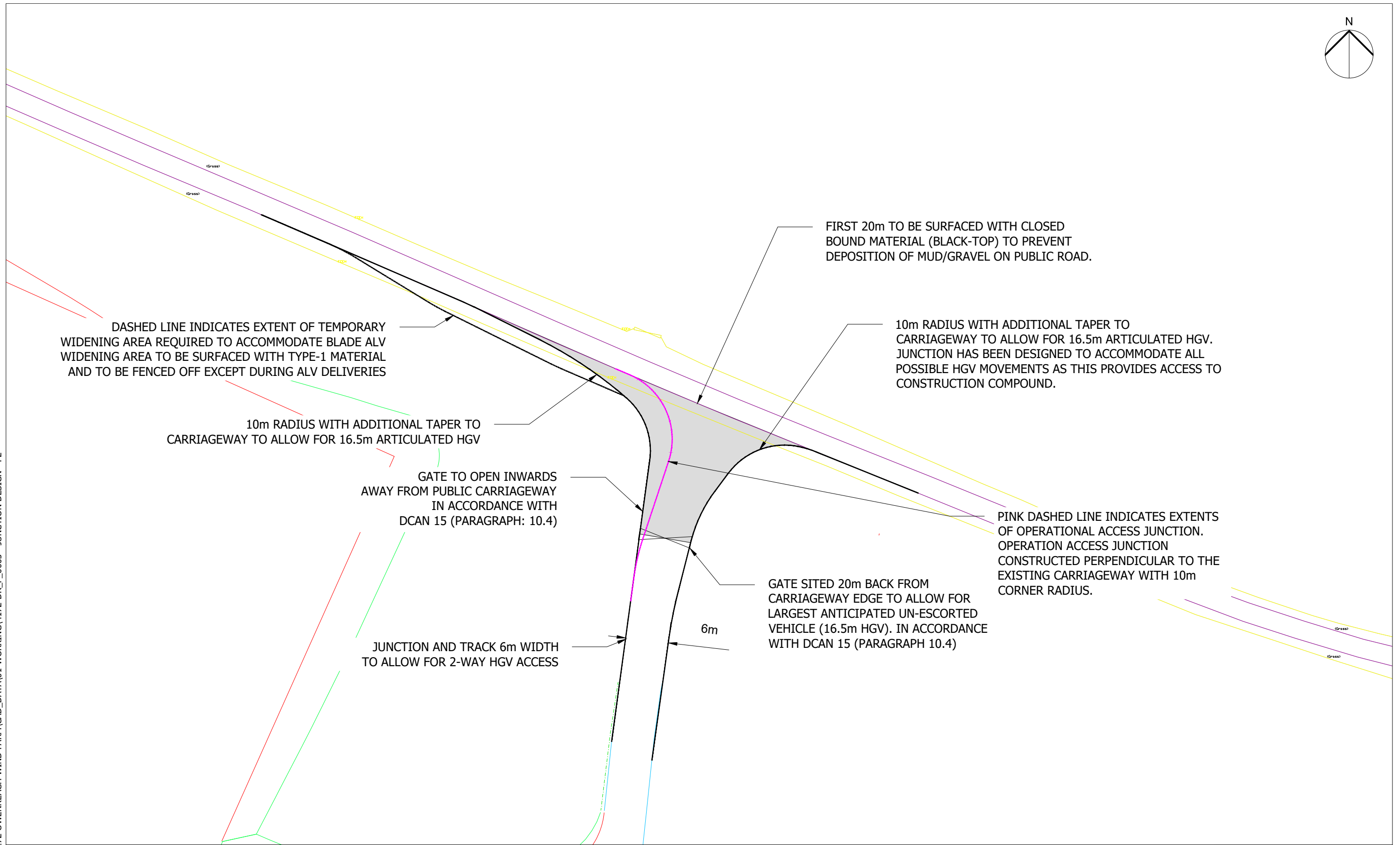
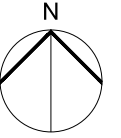
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Project Title OWENREAGH I REPOWERING	Drawing Title Figure A13.4.2: TURBINES 3, 4 AND 5 ACCESS JUNCTION GENERAL ARRANGEMENT	Purpose of issue PRELIMINARY				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ARCUS' APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ARCUS ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Arcus Consultancy Services 7th Floor 144 West George Street Glasgow, G2 2HG Tel: +44 (0)141 221 9997 Fax: +44 (0)141 221 5610 www.arcusconsulting.co.uk	
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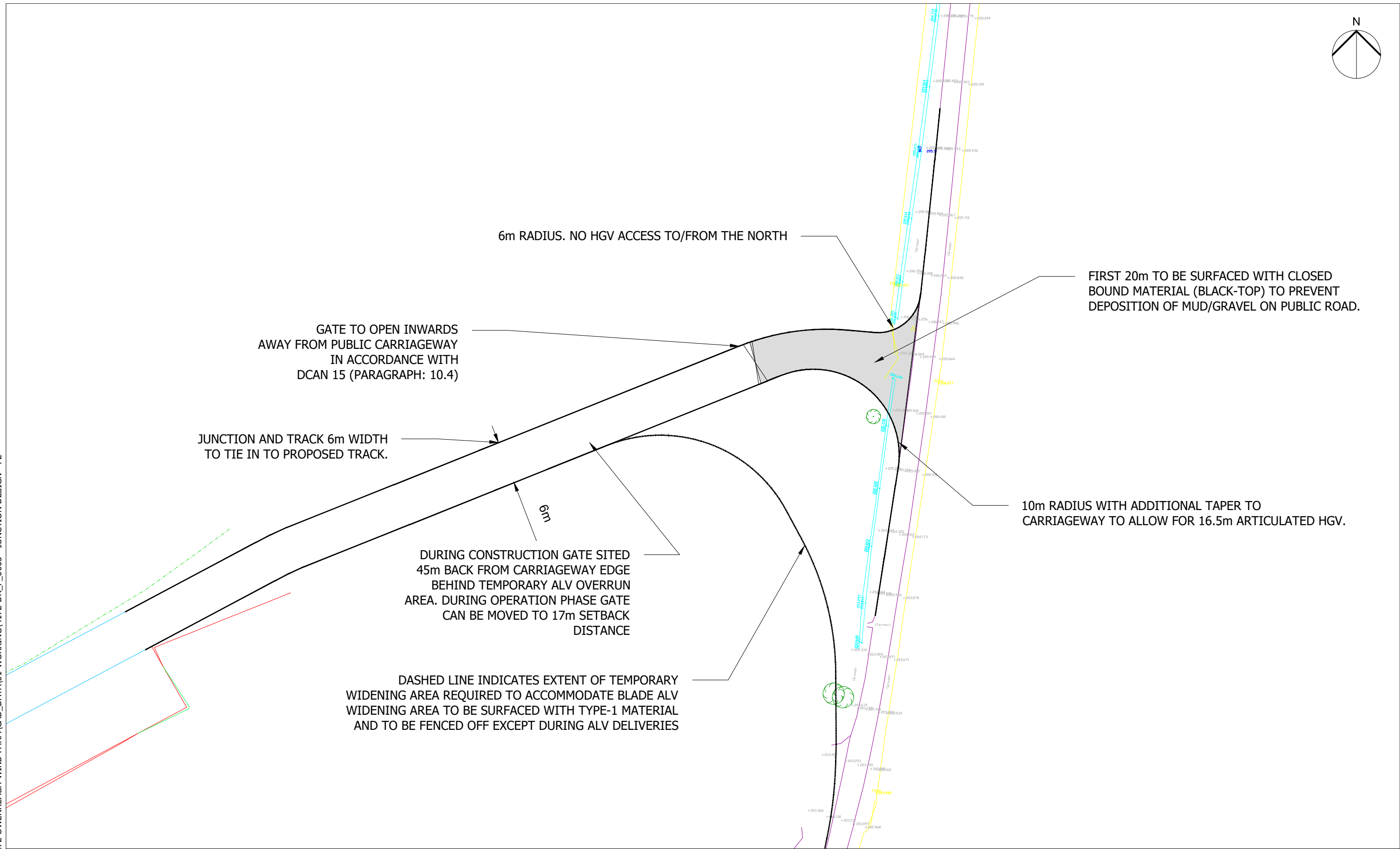
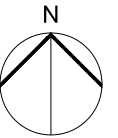
Project Title OWENREAGH I REPOWERING	Drawing Title Figure A13.4.3: TURBINES 6 AND 7 ACCESS JUNCTIONS GENERAL ARRANGEMENT	Purpose of issue PRELIMINARY				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ARCUS' APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ARCUS ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Arcus Consultancy Services 7th Floor 144 West George Street Glasgow, G2 2HG Tel: +44 (0)141 221 9997 Fax: +44 (0)141 221 5610 www.arcusconsulting.co.uk	
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Client 		Arcus Internal Project No. 4172	Date 12/04/23					
		Scale @ A3 1:500						





Plot Date : 12 April 2023 15:14:13
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Project Title OWENREAGH I REPOWERING		Drawing Title Figure A13.4.4: TURBINES 8, 9, 10, 11 AND 12 ACCESS JUNCTION GENERAL ARRANGEMENT		Purpose of issue PRELIMINARY		THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ARCUS' APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ARCUS ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED		Arcus Consultancy Services 7th Floor 144 West George Street Glasgow, G2 2HG Tel: +44 (0)141 221 9997 Fax: +44 (0)141 221 5610 www.arcusconsulting.co.uk	
Client 		Scale @ A3 1:500		Designed CR	Drawn CR	Checked FO	Approved TAT	Drawing Number 4172-DR-J-0004	Rev 1
		Arcus Internal Project No. 4172		Date 12/04/23					

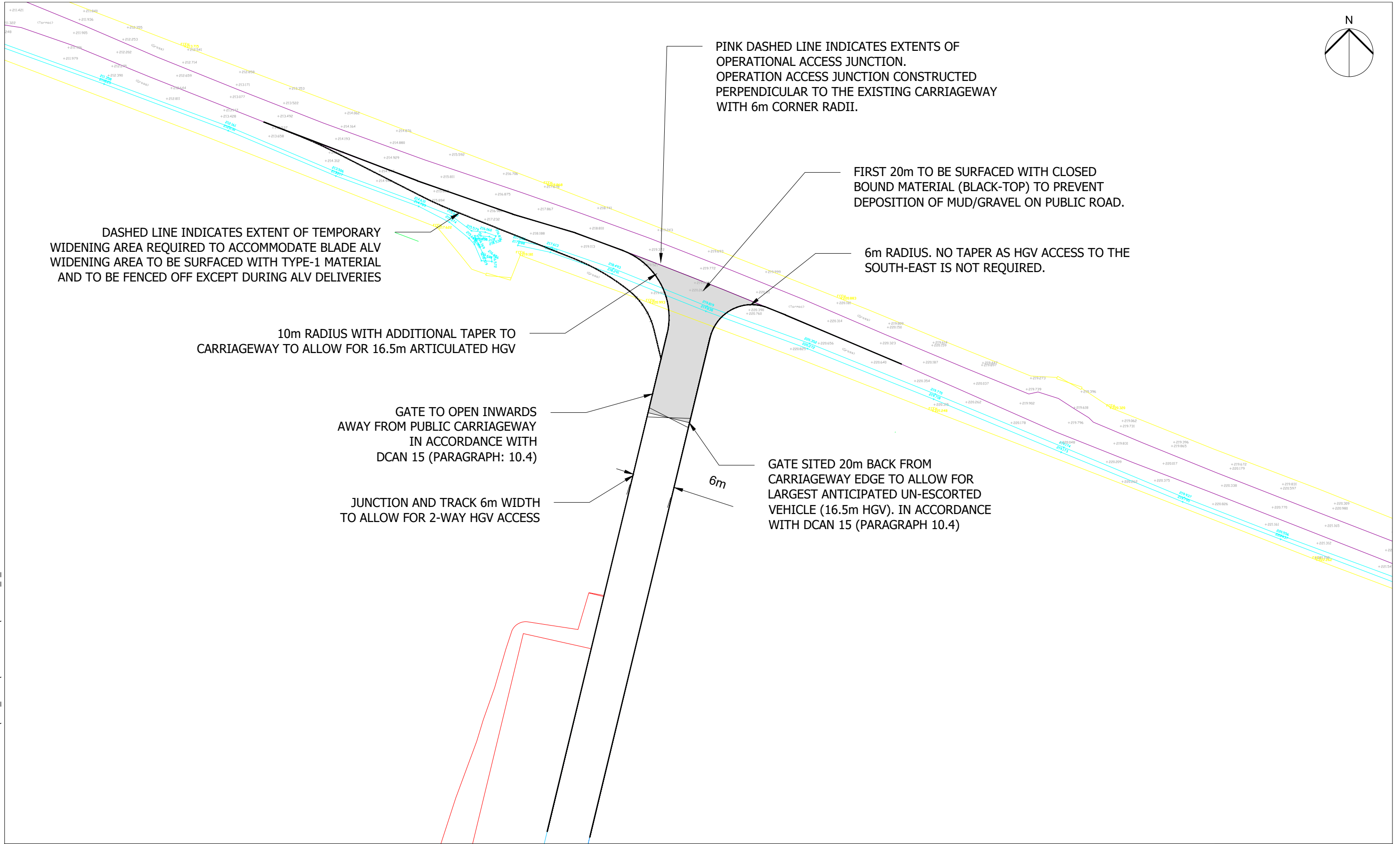






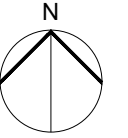
Plot Date : 12 April 2023 15:14:23
File Name : Y:\PROJECTS\4172 OWENREAGH WIND FARM\CAD_DATA\01-WORKING\4172-DR_P_0003 - JUNCTION DESIGN - P2

Project Title OWENREAGH I REPOWERING	Drawing Title Figure A13.4.5: TURBINE 13 ACCESS JUNCTION GENERAL ARRANGEMENT	Purpose of issue PRELIMINARY				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ARCUS' APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ARCUS ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Arcus Consultancy Services 7th Floor 144 West George Street Glasgow, G2 2HG Tel: +44 (0)141 221 9997 Fax: +44 (0)141 221 5610 www.arcusconsulting.co.uk	
		Designed CR	Drawn CR	Checked FO	Approved TAT			
Client 		Arcus Internal Project No. 4172	Date 12/04/23		Drawing Number 4172-DR-J-0005	Rev 1		
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Plot Date : 12 April 2023 15:14:28
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Project Title OWENREAGH I REPOWERING	Drawing Title Figure A13.4.6: TURBINE 14 ACCESS JUNCTION GENERAL ARRANGEMENT	Purpose of issue PRELIMINARY				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ARCUS' APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ARCUS ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Arcus Consultancy Services 7th Floor 144 West George Street Glasgow, G2 2HG Tel: +44 (0)141 221 9997 Fax: +44 (0)141 221 5610 www.arcusconsulting.co.uk	
		Designed CR	Drawn CR	Checked FO	Approved TAT			
Client 		Arcus Internal Project No. 4172	Date 12/04/23	Drawing Number 4172-DR-J-0006	Rev 1			



4.5m x 120m VISIBILITY SPLAY.
VISIBILITY ENVELOPE
DETERMINED USING THE 85th
PERCENTILE SPEED OF
NORTHBOUND VEHICLES ON
GLENMORNAN ROAD ROAD
(39mph).


ALL FENCE CONTAINED WITHIN
SPLAY TO BE RELOCATED TO THE
BACK OF THE SPLAY

ADDITIONAL VISIBILITY SPLAY
TANGENTIAL TO THE ROAD. IN
ACCORDANCE WITH DCAN 15
(PARAGRAPH 2.1)

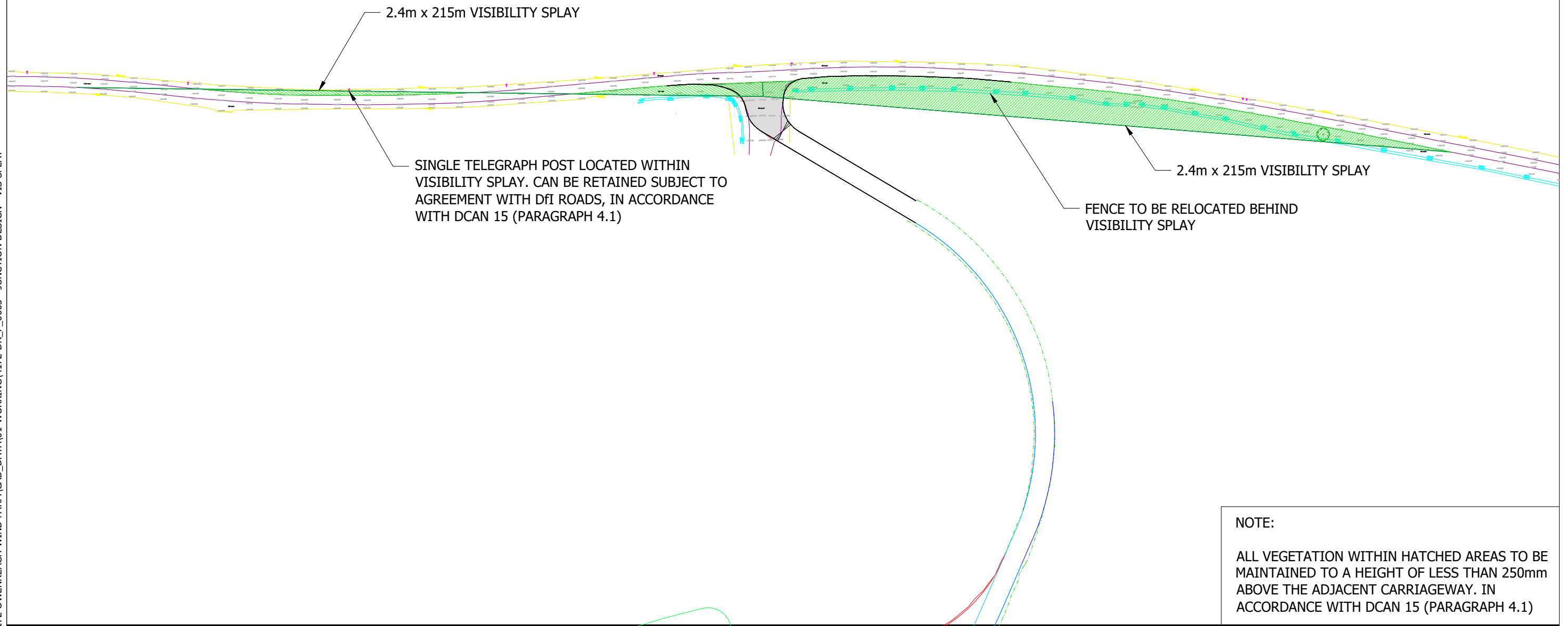
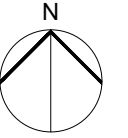
4.5m x 120m VISIBILITY SPLAY.
VISIBILITY ENVELOPE
DETERMINED USING THE 85th
PERCENTILE SPEED OF
NORTHBOUND VEHICLES ON
GLENMORNAN ROAD ROAD
(42mph).

NOTE:
ALL VEGETATION WITHIN HATCHED AREAS TO BE
MAINTAINED TO A HEIGHT OF LESS THAN 250mm
ABOVE THE ADJACENT CARRIAGEWAY. IN
ACCORDANCE WITH DCAN 15 (PARAGRAPH 4.1)



Plot Date : 24 March 2023 17:52:27
File Name : Y:\PROJECTS\4172 OWENREAGH WIND FARM\CAD_DATA\01-WORKING\4172-DR_P_0003 - JUNCTION DESIGN - VIS SPLAY - P2

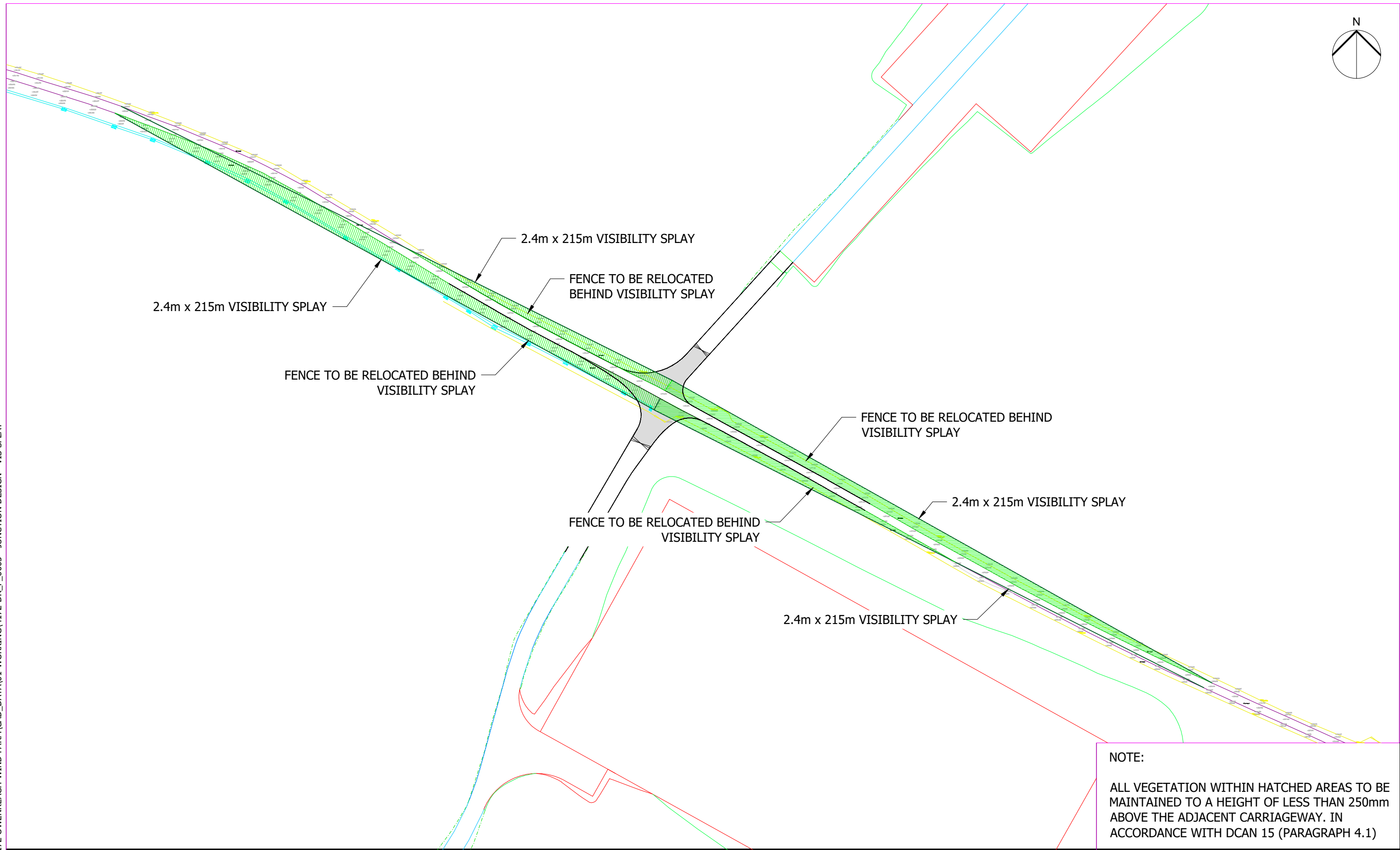
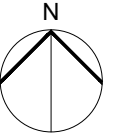
Project Title OWENREAGH I REPOWERING		Drawing Title Figure A13.4.7: TURBINES 1 AND 2 ACCESS JUNCTION VISIBILITY SPLAY		Purpose of issue PRELIMINARY		THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ARCUS' APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ARCUS ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED		Arcus Consultancy Services 7th Floor 144 West George Street Glasgow, G2 2HG Tel: +44 (0)141 221 9997 Fax: +44 (0)141 221 5610 www.arcusconsulting.co.uk	
Client 		Scale @ A3 1:1250		Designed CR	Drawn CR	Checked FO	Approved TAT	Drawing Number 4172-DR-J-0007	Rev 1
		Arcus Internal Project No. 4172		Date 24/03/23					





Plot Date : 07 November 2022 15:43:14
File Name : Y:\PROJECTS\4172 OWENREAGH WIND FARM\CAD_DATA\01-WORKING\4172-DR_P_0003 - JUNCTION DESIGN - VIS SPLAY

Project Title OWENREAGH I REPOWERING	Drawing Title Figure A13.4.8: TURBINES 3 , 4 AND 5 ACCESS JUNCTION VISIBILITY SPLAY	Purpose of issue PRELIMINARY				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ARCUS' APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ARCUS ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Arcus Consultancy Services 7th Floor 144 West George Street Glasgow, G2 2HG Tel: +44 (0)141 221 9997 Fax: +44 (0)141 221 5610 www.arcusconsulting.co.uk	
		Designed KL	Drawn KL	Checked FO	Approved FO			
Client 		Arcus Internal Project No. 4172	Date 07/11/22					
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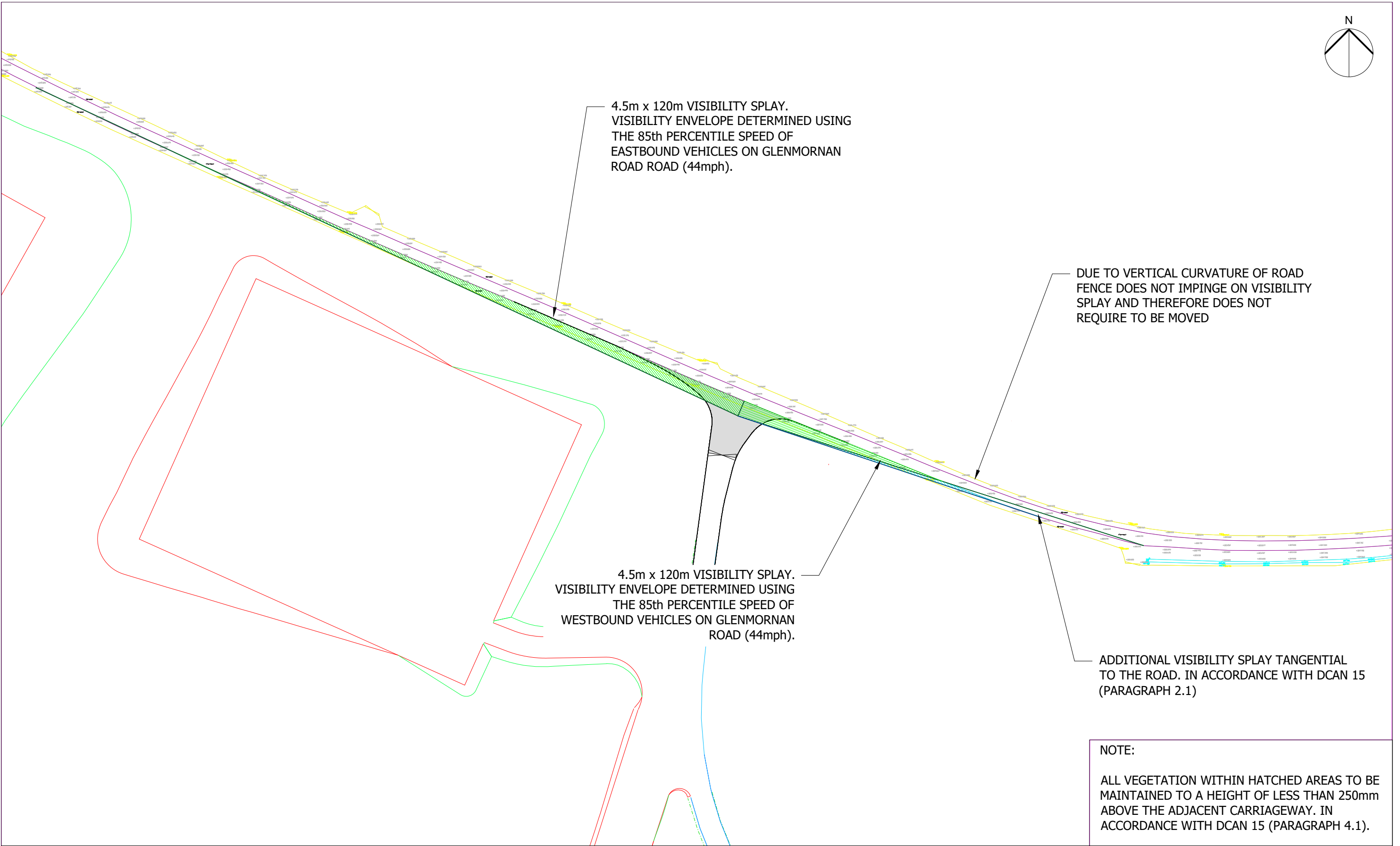
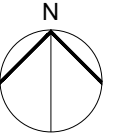


NOTE:
 ALL VEGETATION WITHIN HATCHED AREAS TO BE MAINTAINED TO A HEIGHT OF LESS THAN 250mm ABOVE THE ADJACENT CARRIAGEWAY. IN ACCORDANCE WITH DCAN 15 (PARAGRAPH 4.1)

Plot Date : 07 November 2022 16:01:36
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Project Title OWENREAGH I REPOWERING		Drawing Title Figure A13.4.9: TURBINES 6 AND 7 ACCESS JUNCTION VISIBILITY SPLAY		Purpose of issue PRELIMINARY		THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ARCUS' APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ARCUS ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED		Arcus Consultancy Services 7th Floor 144 West George Street Glasgow, G2 2HG Tel: +44 (0)141 221 9997 Fax: +44 (0)141 221 5610 www.arcusconsulting.co.uk	
Client 		Scale @ A3 1:1250		Designed KL	Drawn KL	Checked FO	Approved FO	Drawing Number 4172-DR-J-0009	Rev -
		Arcus Internal Project No. 4172		Date 07/11/22					

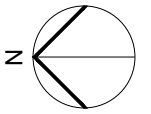




Plot Date : 24 March 2023 17:52:46
File Name : Y:\PROJECTS\4172 OWENREAGH WIND FARM\CAD_DATA\01-WORKING\4172-DR_P_0003 - JUNCTION DESIGN - VIS SPLAY - P2

Project Title OWENREAGH I REPOWERING		Drawing Title Figure A13.4.10: TURBINES 8, 9, 10, 11, and 12 ACCESS JUNCTION VISIBILITY SPLAY		Purpose of issue PRELIMINARY		THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ARCUS' APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ARCUS ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED		Arcus Consultancy Services 7th Floor 144 West George Street Glasgow, G2 2HG Tel: +44 (0)141 221 9997 Fax: +44 (0)141 221 5610 www.arcusconsulting.co.uk	
Client 				Designed CR	Drawn CR	Checked FO	Approved FO	Arcus Internal Project No. 4172	
				Scale @ A3 1:1000		Date 24/03/23		Drawing Number 4172-DR-J-0010	
								Rev 1	





4.5m x 120m VISIBILITY SPLAY.
VISIBILITY ENVELOPE DETERMINED USING
THE 85th PERCENTILE SPEED OF
SOUTHBOUND VEHICLES ON NAPPLE ROAD
(39mph).



4.5m x 120m VISIBILITY SPLAY.
VISIBILITY ENVELOPE DETERMINED USING
THE 85th PERCENTILE SPEED OF
NORTHBOUND VEHICLES ON NAPPLE ROAD
(42mph).

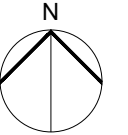
TREE TO BE REMOVED FROM VISIBILITY
SPLAY

NOTE:

ALL VEGETATION WITHIN HATCHED AREAS TO BE
MAINTAINED TO A HEIGHT OF LESS THAN 250mm
ABOVE THE ADJACENT CARRIAGEWAY. IN
ACCORDANCE WITH DCAN 15 (PARAGRAPH 4.1).

Plot Date : 24 March 2023 17:52:56
File Name : Y:\PROJECTS\4172 OWENREAGH WIND FARM\CAD_DATA\01-WORKING\4172-DR_P_0003 - JUNCTION DESIGN - VIS SPLAY - P2

Project Title OWENREAGH I REPOWERING	Drawing Title Figure A13.4.11: TURBINE 13 ACCESS JUNCTION VISIBILITY SPLAY	Purpose of issue PRELIMINARY				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ARCUS' APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ARCUS ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Arcus Consultancy Services 7th Floor 144 West George Street Glasgow, G2 2HG Tel: +44 (0)141 221 9997 Fax: +44 (0)141 221 5610 www.arcusconsulting.co.uk	
		Designed CR	Drawn CR	Checked FO	Approved FO			
Client 		Arcus Internal Project No. 4172	Date 24/03/23					
		Scale @ A3 1:1000						



2.4m x 90m VISIBILITY SPLAY.
 VISIBILITY ENVELOPE DETERMINED USING
 THE 85th PERCENTILE SPEED OF EASTBOUND
 VEHICLES ON NAPPLE ROAD (35mph).

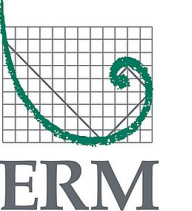

TREE TO BE REMOVED FROM
 VISIBILITY SPLAY

2.4m x 90m VISIBILITY SPLAY.
 VISIBILITY ENVELOPE DETERMINED USING
 THE 85th PERCENTILE SPEED OF
 WESTBOUND VEHICLES ON NAPPLE ROAD
 (37mph).

NOTE:

ALL VEGETATION WITHIN HATCHED AREAS TO BE
 MAINTAINED TO A HEIGHT OF LESS THAN 250mm
 ABOVE THE ADJACENT CARRIAGEWAY. IN
 ACCORDANCE WITH DCAN 15 (PARAGRAPH 4.1)

Plot Date : 24 March 2023 17:53:11
 File Name : Y:\PROJECTS\4172 OWENREAGH WIND FARM\CAD_DATA\01-WORKING\4172-DR_P_0003 - JUNCTION DESIGN - VIS SPLAY - P2

Project Title OWENREAGH I REPOWERING	Drawing Title Figure A13.4.12: TURBINE 14 ACCESS JUNCTION VISIBILITY SPLAY	Purpose of issue PRELIMINARY				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ARCUS' APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ARCUS ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Arcus Consultancy Services 7th Floor 144 West George Street Glasgow, G2 2HG Tel: +44 (0)141 221 9997 Fax: +44 (0)141 221 5610 www.arcusconsulting.co.uk	
		Designed CR	Drawn CR	Checked FO	Approved TAT			
Client 		Arcus Internal Project No. 4172	Date 24/03/23					
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ERM's Dublin Office

D5 Nutgrove Office Park

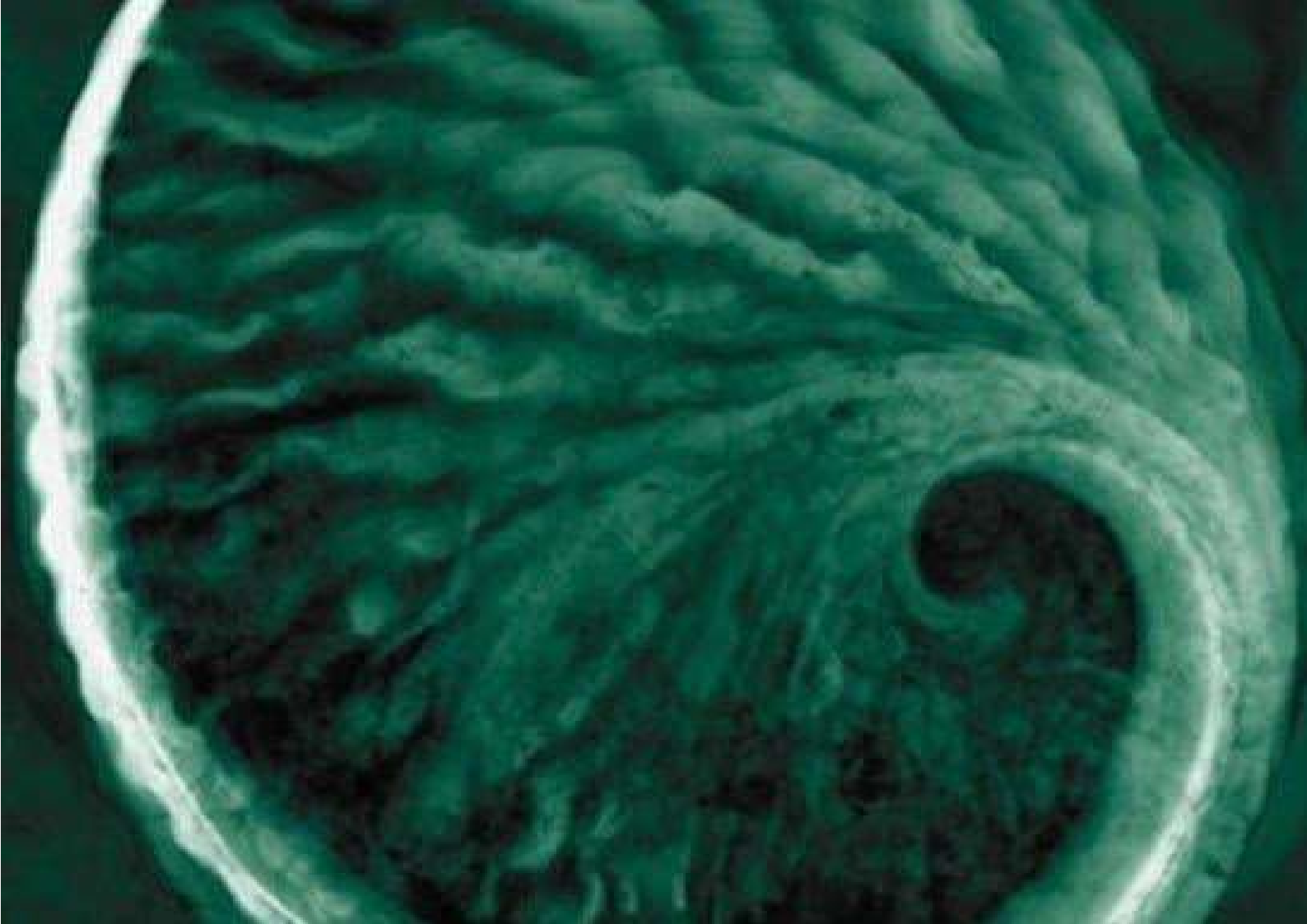
Dublin 14

D14 X343

Ireland

T +353 (01) 653 2151

www.erm.com



Owenreagh/Craignagapple Wind Farm

Ørsted Onshore Ireland Midco Limited

Environmental Statement- Technical Appendix
A13.5 Passing Bay Design

06 September 2023

Project No.: 0696177

Signature Page

06 September 2023

Owenreagh/Craignagapple Wind Farm

Environmental Statement- Technical Appendix A13.5 Passing Bay Design



Frank Ocran
Principal Transport Planner



Tomos ApTomos
Operational Director



Peter Rodgers
Partner

Environmental Resources Management Ireland Limited, D5 Nutgrove Office Park, Dublin 14, D14 X343, Ireland.

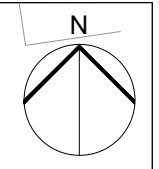
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LEGEND

- AREA OF ROAD GREATER THAN 5.5m IN WIDTH
- PROPOSED PASSING BAY
- AREA OF ROAD TO BE WIDENED TO 5.5m IN WIDTH

NOTES:

1. PASSING BAYS HAVE BEEN DESIGNED FOR THE LARGEST GENERAL CONSTRUCTION VEHICLE EXPECTED TO ACCESS THE WIND FARM, WHICH IS A 16.5m ARTICULATED LORRY. PASSING BAYS ARE NOT LESS THAN 15m IN LENGTH;
2. PASSING BAYS HAVE BEEN DESIGNED TO BE INTER-VISIBLE IN AREAS WHERE THE ROAD WIDTH IS LESS THAN 5.5m;
3. ANY OPEN DRAINS AFFECTED BY THE PROPOSED PASSING BAYS WITHIN THE ROAD VERGE SHALL BE PIPED TO THE SATISFACTION OF DfI ROADS; AND
4. OPEN DRAINS BEHIND THE FENCE/HEDGE LINE WHICH ARE AFFECTED BY THE PROPOSED PASSING BAYS WILL BE PIPED TO THE SATISFACTION OF DfI RIVERS AGENCY.

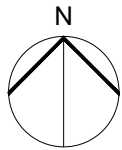


LEGEND

- AREA OF ROAD GREATER THAN 5.5m IN WIDTH
- PROPOSED PASSING BAY
- AREA OF ROAD TO BE WIDENED TO 5.5m IN WIDTH

NOTES:

1. PASSING BAYS HAVE BEEN DESIGNED FOR THE LARGEST GENERAL CONSTRUCTION VEHICLE EXPECTED TO ACCESS THE WIND FARM, WHICH IS A 16.5m ARTICULATED LORRY. PASSING BAYS ARE NOT LESS THAN 15m IN LENGTH;
2. PASSING BAYS HAVE BEEN DESIGNED TO BE INTER-VISIBLE IN AREAS WHERE THE ROAD WIDTH IS LESS THAN 5.5m;
3. ANY OPEN DRAINS AFFECTED BY THE PROPOSED PASSING BAYS WITHIN THE ROAD VERGE SHALL BE PIPED TO THE SATISFACTION OF DFI ROADS; AND
4. OPEN DRAINS BEHIND THE FENCE/HEDGE LINE WHICH ARE AFFECTED BY THE PROPOSED PASSING BAYS WILL BE PIPED TO THE SATISFACTION OF DFI RIVERS AGENCY.

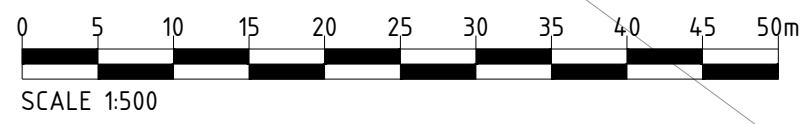


PASSING BAY PB.2

61.0

Sinks

PINE ROAD



Plot Date : 20 July 2023 10:30:20
File Name : Y:\PROJECTS\4172 OWENREAGH WIND FARM\CAD_DATA\01-WORKING\PASSING PLACE ASSESSMENT\4172_DR_PP_0001 -P3

Project Title OWENREAGH / CRAIGNAGAPPLE WIND FARM PASSING BAY DESIGN	Drawing Title FIGURE A13.5.2: SHEET 2 OF 39 PASSING BAY 2	Purpose of issue PRELIMINARY LAYOUT				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com
		Designed KL	Drawn RC	Checked TAT	Approved TAT		
Client 		ERM Internal Project No. 4172		Date 17/08/23			
		Scale @ A3 1:500					

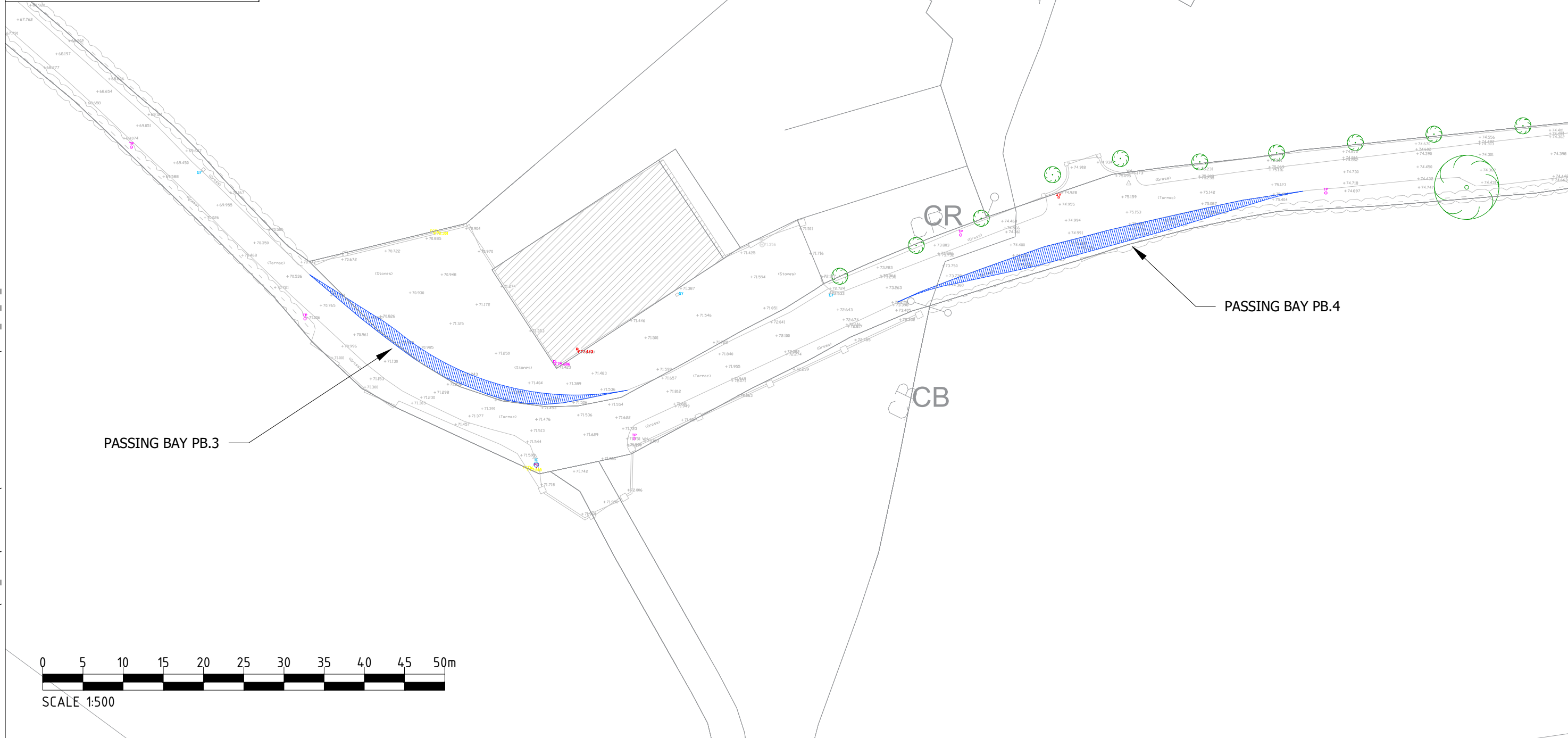
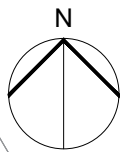


LEGEND

- AREA OF ROAD GREATER THAN 5.5m IN WIDTH
- PROPOSED PASSING BAY
- AREA OF ROAD TO BE WIDENED TO 5.5m IN WIDTH

NOTES:

1. PASSING BAYS HAVE BEEN DESIGNED FOR THE LARGEST GENERAL CONSTRUCTION VEHICLE EXPECTED TO ACCESS THE WIND FARM, WHICH IS A 16.5m ARTICULATED LORRY. PASSING BAYS ARE NOT LESS THAN 15m IN LENGTH;
2. PASSING BAYS HAVE BEEN DESIGNED TO BE INTER-VISIBLE IN AREAS WHERE THE ROAD WIDTH IS LESS THAN 5.5m;
3. ANY OPEN DRAINS AFFECTED BY THE PROPOSED PASSING BAYS WITHIN THE ROAD VERGE SHALL BE PIPED TO THE SATISFACTION OF DFI ROADS; AND
4. OPEN DRAINS BEHIND THE FENCE/HEDGELINE WHICH ARE AFFECTED BY THE PROPOSED PASSING BAYS WILL BE PIPED TO THE SATISFACTION OF DFI RIVERS AGENCY.



Plot Date : 20 July 2023 10:31:04
File Name : Y:\PROJECTS\4172 OWENREAGH WIND FARM\CAD_DATA\01-WORKING\PASSING PLACE ASSESSMENT\4172_DR_PP_0001_P3

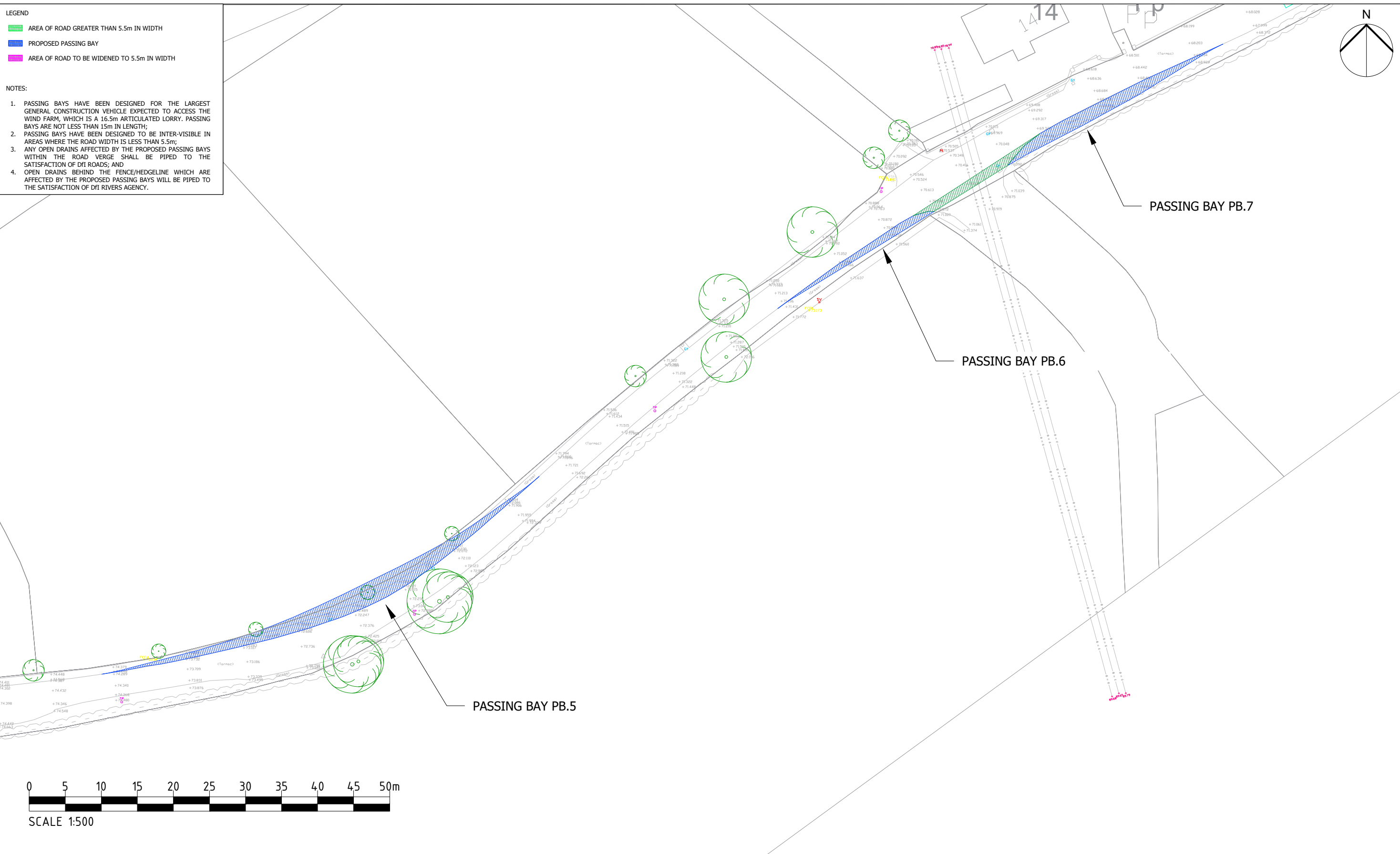
Project Title OWENREAGH / CRAIGNAGAPPLE WIND FARM PASSING BAY DESIGN	Drawing Title FIGURE A13.5.2: SHEET 3 OF 39 PASSING BAY 3 & 4	Purpose of issue PRELIMINARY LAYOUT				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com	
		Designed KL	Drawn RC	Checked TAT	Approved TAT			
Client 		ERM Internal Project No. 4172		Date 17/08/23				
		Scale @ A3 1:500						

LEGEND

- AREA OF ROAD GREATER THAN 5.5m IN WIDTH
- PROPOSED PASSING BAY
- AREA OF ROAD TO BE WIDENED TO 5.5m IN WIDTH

NOTES:

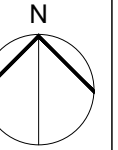
1. PASSING BAYS HAVE BEEN DESIGNED FOR THE LARGEST GENERAL CONSTRUCTION VEHICLE EXPECTED TO ACCESS THE WIND FARM, WHICH IS A 16.5m ARTICULATED LORRY. PASSING BAYS ARE NOT LESS THAN 15m IN LENGTH;
2. PASSING BAYS HAVE BEEN DESIGNED TO BE INTER-VISIBLE IN AREAS WHERE THE ROAD WIDTH IS LESS THAN 5.5m;
3. ANY OPEN DRAINS AFFECTED BY THE PROPOSED PASSING BAYS WITHIN THE ROAD VERGE SHALL BE PIPED TO THE SATISFACTION OF DFI ROADS; AND
4. OPEN DRAINS BEHIND THE FENCE/HEDGELINE WHICH ARE AFFECTED BY THE PROPOSED PASSING BAYS WILL BE PIPED TO THE SATISFACTION OF DFI RIVERS AGENCY.



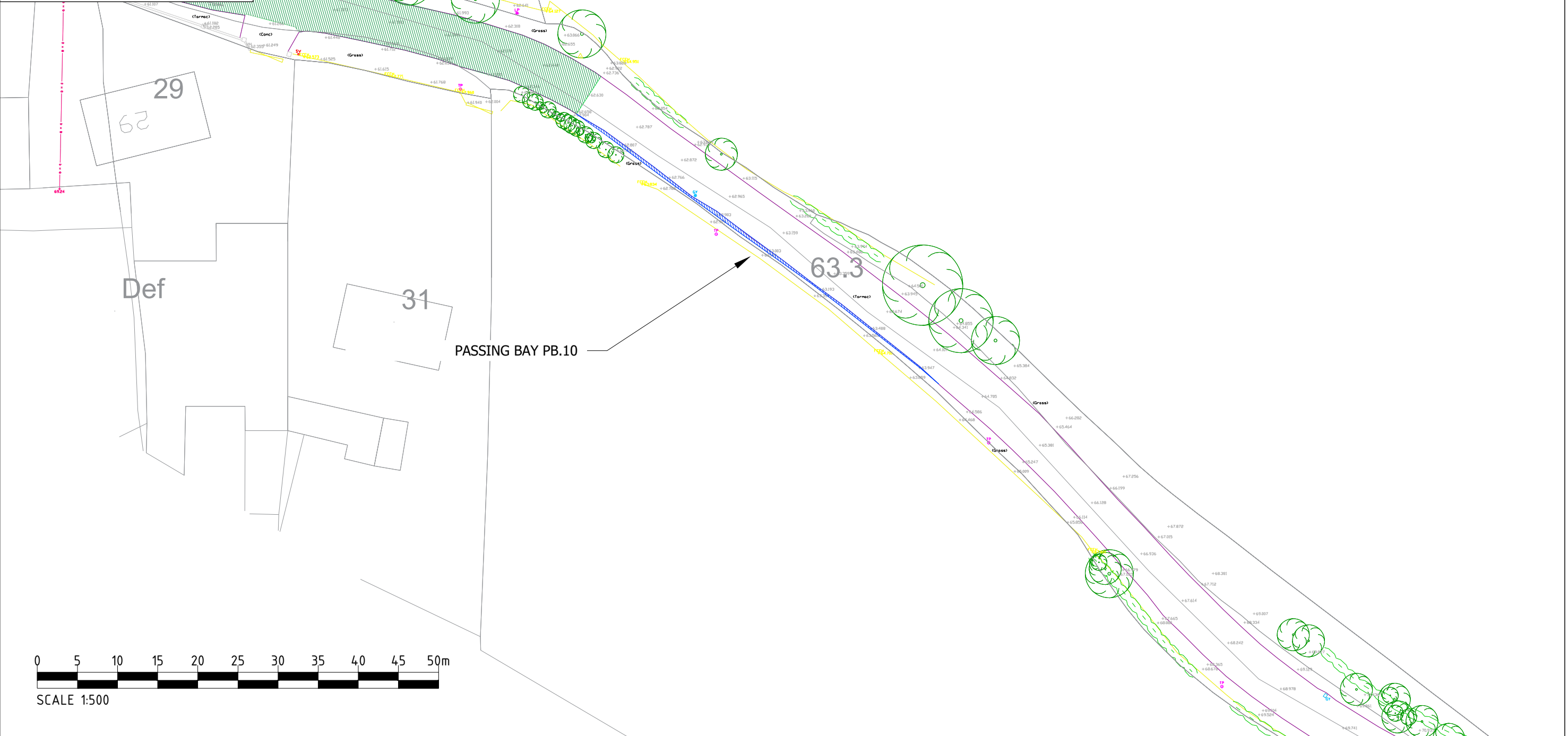
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Project Title OWENREAGH / CRAIGNAGAPPLE WIND FARM PASSING BAY DESIGN	Drawing Title FIGURE A13.5.2: SHEET 4 OF 39 PASSING BAY 5, 6 & 7	Purpose of issue PRELIMINARY LAYOUT				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com
		Designed KL	Drawn RC	Checked TAT	Approved TAT		
Client 		ERM Internal Project No. 4172		Date 17/08/23			
		Scale @ A3 1:500					





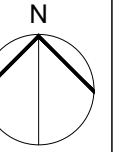
- LEGEND**
- AREA OF ROAD GREATER THAN 5.5m IN WIDTH
 - PROPOSED PASSING BAY
 - AREA OF ROAD TO BE WIDENED TO 5.5m IN WIDTH
- NOTES:**
1. PASSING BAYS HAVE BEEN DESIGNED FOR THE LARGEST GENERAL CONSTRUCTION VEHICLE EXPECTED TO ACCESS THE WIND FARM, WHICH IS A 16.5m ARTICULATED LORRY. PASSING BAYS ARE NOT LESS THAN 15m IN LENGTH;
 2. PASSING BAYS HAVE BEEN DESIGNED TO BE INTER-VISIBLE IN AREAS WHERE THE ROAD WIDTH IS LESS THAN 5.5m;
 3. ANY OPEN DRAINS AFFECTED BY THE PROPOSED PASSING BAYS WITHIN THE ROAD VERGE SHALL BE PIPED TO THE SATISFACTION OF DFI ROADS; AND
 4. OPEN DRAINS BEHIND THE FENCE/HEDGE LINE WHICH ARE AFFECTED BY THE PROPOSED PASSING BAYS WILL BE PIPED TO THE SATISFACTION OF DFI RIVERS AGENCY.



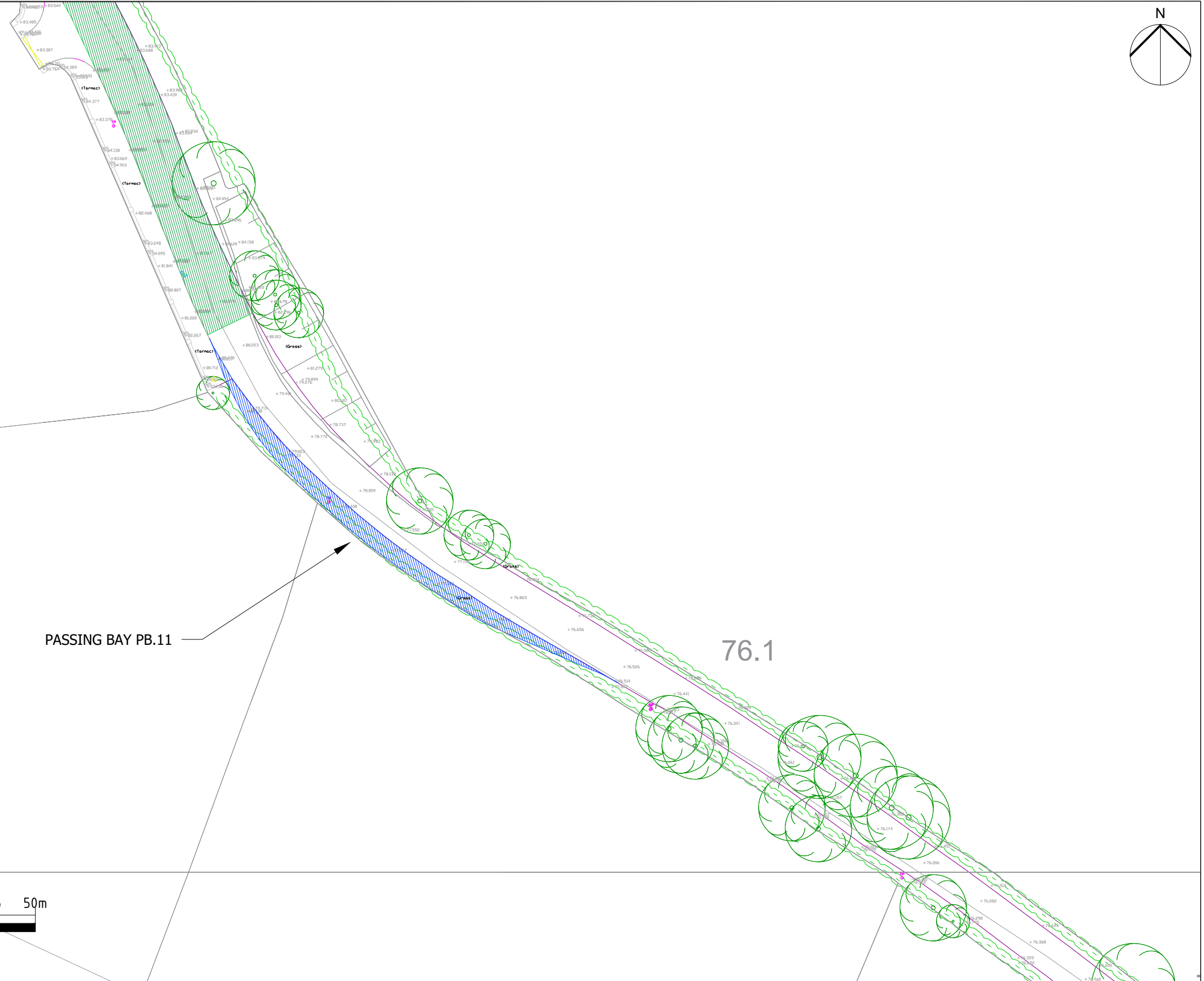
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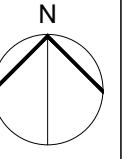
Project Title OWENREAGH / CRAIGNAGAPPLE WIND FARM PASSING BAY DESIGN	Drawing Title FIGURE A13.5.2: SHEET 6 OF 39 PASSING BAY 10	Purpose of issue PRELIMINARY LAYOUT				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com
		Designed KL	Drawn RC	Checked TAT	Approved TAT		
Client 		ERM Internal Project No. 4172		Date 17/07/23			
		Scale @ A3 1:500					





- LEGEND**
- AREA OF ROAD GREATER THAN 5.5m IN WIDTH
 - PROPOSED PASSING BAY
 - AREA OF ROAD TO BE WIDENED TO 5.5m IN WIDTH
- NOTES:**
1. PASSING BAYS HAVE BEEN DESIGNED FOR THE LARGEST GENERAL CONSTRUCTION VEHICLE EXPECTED TO ACCESS THE WIND FARM, WHICH IS A 16.5m ARTICULATED LORRY. PASSING BAYS ARE NOT LESS THAN 15m IN LENGTH;
 2. PASSING BAYS HAVE BEEN DESIGNED TO BE INTER-VISIBLE IN AREAS WHERE THE ROAD WIDTH IS LESS THAN 5.5m;
 3. ANY OPEN DRAINS AFFECTED BY THE PROPOSED PASSING BAYS WITHIN THE ROAD VERGE SHALL BE PIPED TO THE SATISFACTION OF DFI ROADS; AND
 4. OPEN DRAINS BEHIND THE FENCE/HEDGELINE WHICH ARE AFFECTED BY THE PROPOSED PASSING BAYS WILL BE PIPED TO THE SATISFACTION OF DFI RIVERS AGENCY.



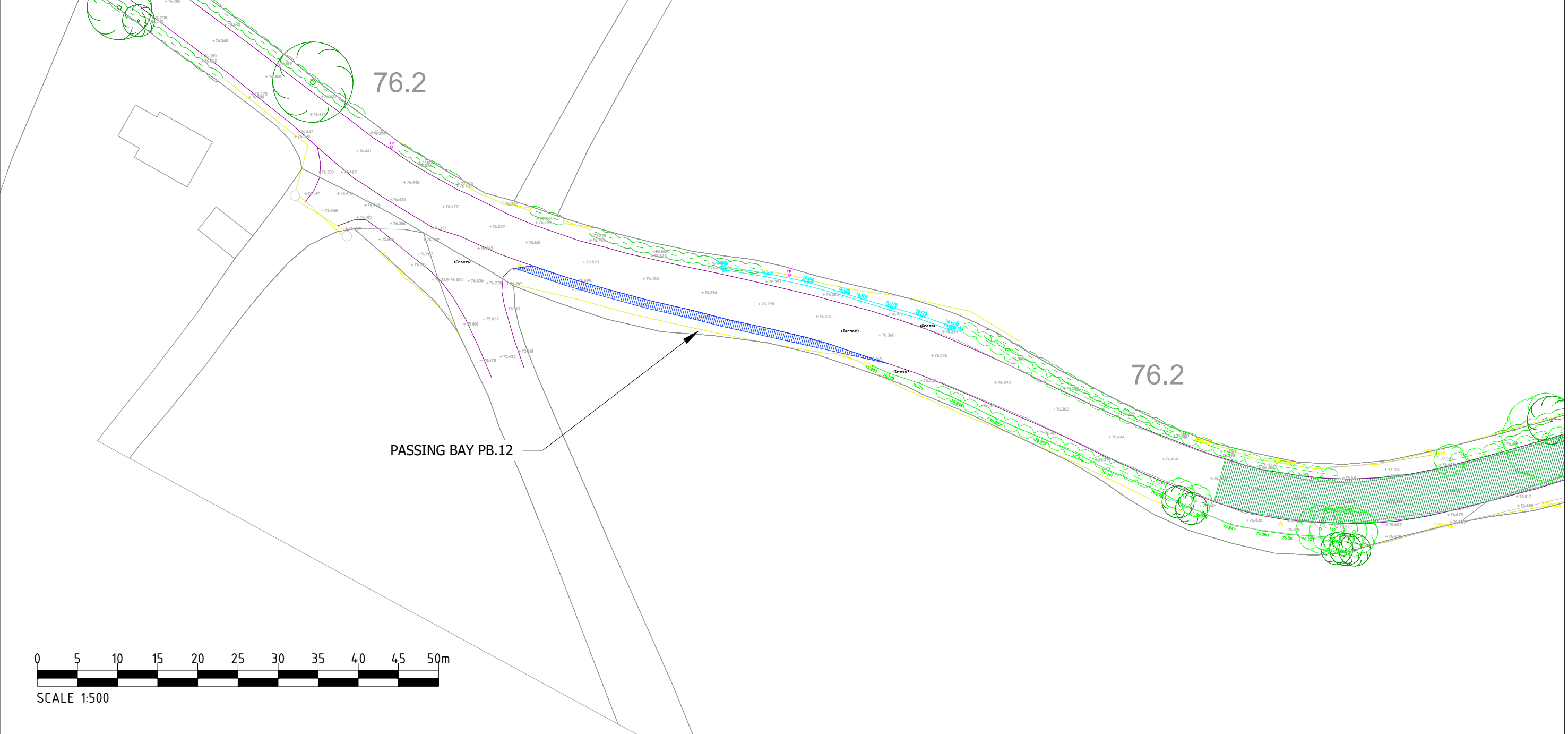


LEGEND

- AREA OF ROAD GREATER THAN 5.5m IN WIDTH
- PROPOSED PASSING BAY
- AREA OF ROAD TO BE WIDENED TO 5.5m IN WIDTH

NOTES:

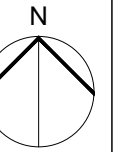
1. PASSING BAYS HAVE BEEN DESIGNED FOR THE LARGEST GENERAL CONSTRUCTION VEHICLE EXPECTED TO ACCESS THE WIND FARM, WHICH IS A 16.5m ARTICULATED LORRY. PASSING BAYS ARE NOT LESS THAN 15m IN LENGTH;
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Plot Date : 20 July 2023 10:33:23
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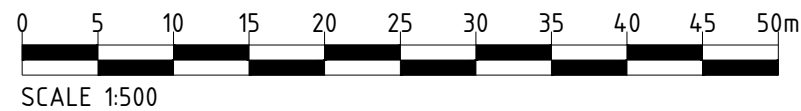
Project Title OWENREAGH / CRAIGNAGAPPLE WIND FARM PASSING BAY DESIGN	Drawing Title FIGURE A13.5.2: SHEET 8 OF 39 PASSING BAY 12	Purpose of issue PRELIMINARY LAYOUT				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com
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Client 		ERM Internal Project No. 4172		Date 17/07/23			
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91.0

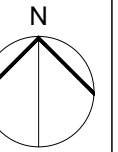
- LEGEND**
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 - PROPOSED PASSING BAY
 - AREA OF ROAD TO BE WIDENED TO 5.5m IN WIDTH
- NOTES:**
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 4. OPEN DRAINS BEHIND THE FENCE/HEDGE LINE WHICH ARE AFFECTED BY THE PROPOSED PASSING BAYS WILL BE PIPED TO THE SATISFACTION OF DFI RIVERS AGENCY.



Project Title OWENREAGH / CRAIGNAGAPPLE WIND FARM PASSING BAY DESIGN	Drawing Title FIGURE A13.5.2: SHEET 9 OF 39 PASSING BAY 13	Purpose of issue PRELIMINARY LAYOUT				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com
		Designed KL	Drawn RC	Checked TAT	Approved TAT		
Client 		ERM Internal Project No. 4172		Date 17/07/23			
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Plot Date : 20 July 2023 10:33:56
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LEGEND

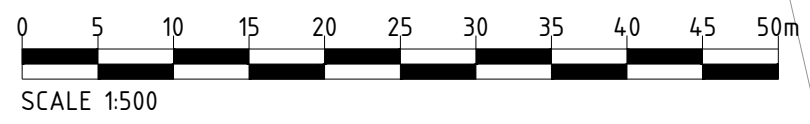
- AREA OF ROAD GREATER THAN 5.5m IN WIDTH
- PROPOSED PASSING BAY
- AREA OF ROAD TO BE WIDENED TO 5.5m IN WIDTH

NOTES:

1. PASSING BAYS HAVE BEEN DESIGNED FOR THE LARGEST GENERAL CONSTRUCTION VEHICLE EXPECTED TO ACCESS THE WIND FARM, WHICH IS A 16.5m ARTICULATED LORRY. PASSING BAYS ARE NOT LESS THAN 15m IN LENGTH;
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PASSING BAY PB.14

PASSING BAY PB.15



Plot Date : 20 July 2023 10:34:29
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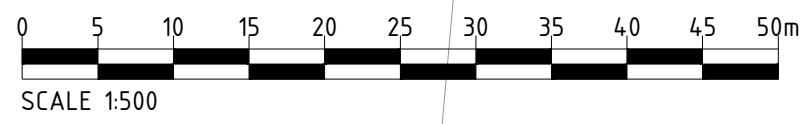
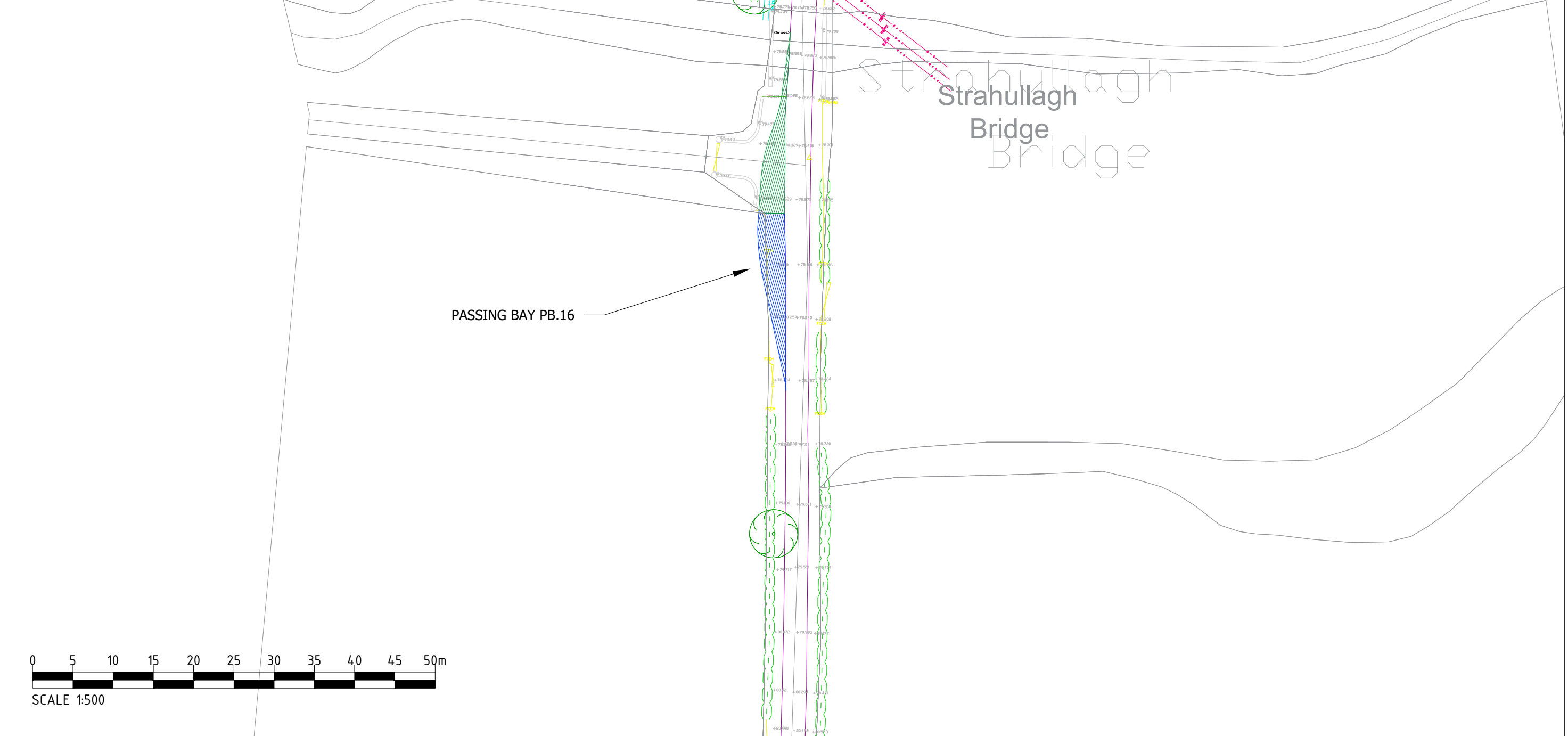
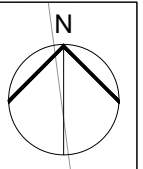
Project Title OWENREAGH / CRAIGNAGAPPLE WIND FARM PASSING BAY DESIGN	Drawing Title FIGURE A13.5.2: SHEET 10 OF 39 PASSING BAY 14 & 15	Purpose of issue PRELIMINARY LAYOUT				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com	
		Designed KL	Drawn RC	Checked TAT	Approved TAT			
Client 								

LEGEND

- AREA OF ROAD GREATER THAN 5.5m IN WIDTH
- PROPOSED PASSING BAY
- AREA OF ROAD TO BE WIDENED TO 5.5m IN WIDTH

NOTES:

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Plot Date : 20 July 2023 10:34:54
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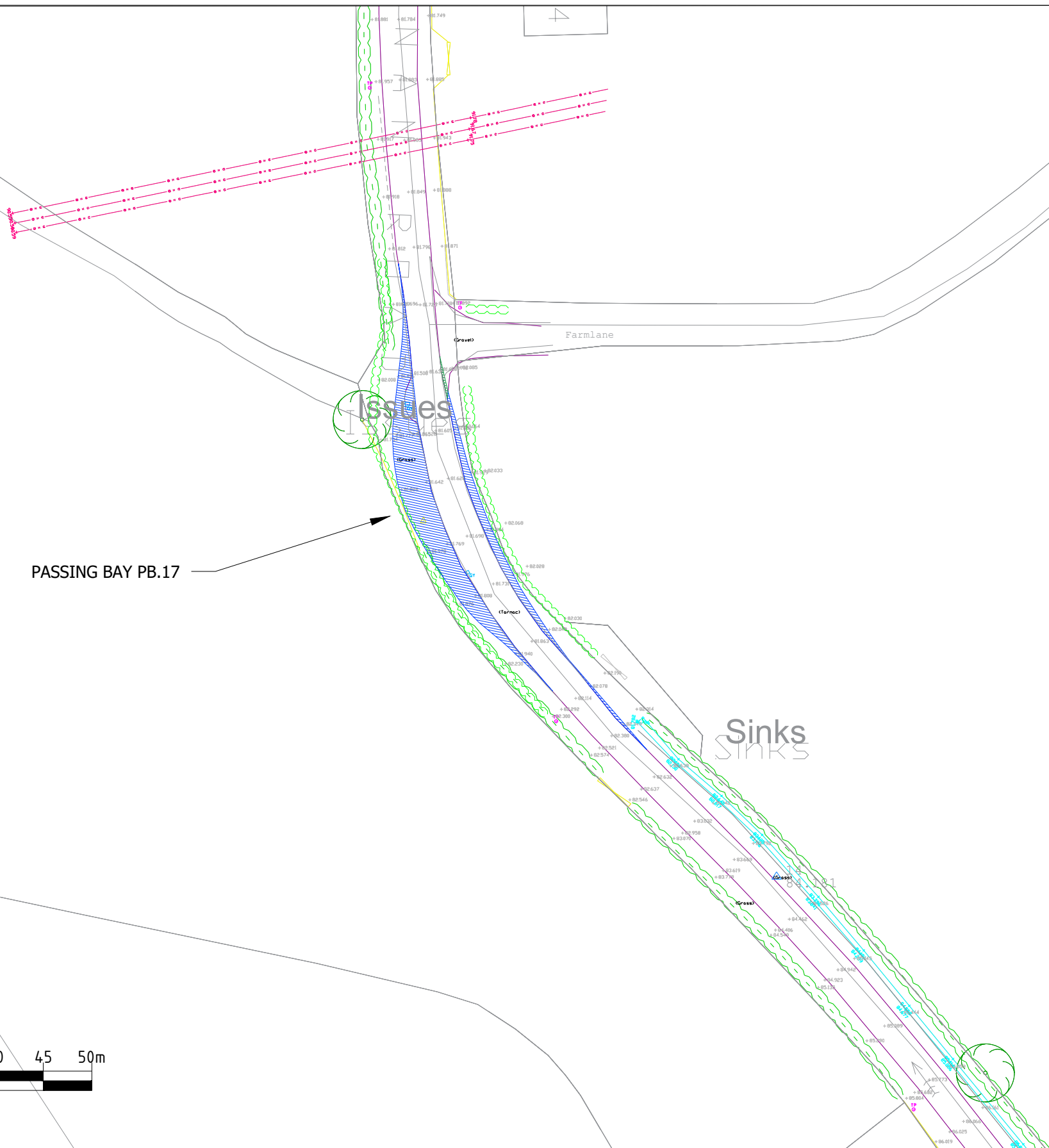
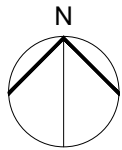
Project Title OWENREAGH / CRAIGNAGAPPLE WIND FARM PASSING BAY DESIGN	Drawing Title FIGURE A13.5.2: SHEET 11 OF 39 PASSING BAY 16	Purpose of issue PRELIMINARY LAYOUT				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com	
		Designed KL	Drawn RC	Checked TAT	Approved TAT			
Client 		ERM Internal Project No. 4172		Date 17/07/23				
		Scale @ A3 1:500						

LEGEND

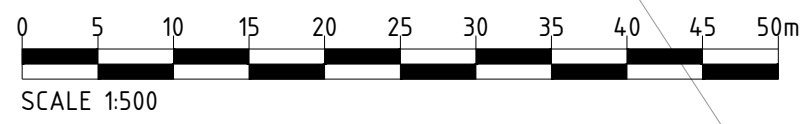
- █ AREA OF ROAD GREATER THAN 5.5m IN WIDTH
- █ PROPOSED PASSING BAY
- █ AREA OF ROAD TO BE WIDENED TO 5.5m IN WIDTH

NOTES:

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PASSING BAY PB.17



Plot Date : 20 July 2023 10:35:22
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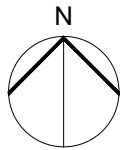
Project Title OWENREAGH / CRAIGNAGAPPLE WIND FARM PASSING BAY DESIGN	Drawing Title FIGURE A13.5.2: SHEET 12 OF 39 PASSING BAY 17	Purpose of issue PRELIMINARY LAYOUT				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com	
		Designed KL	Drawn RC	Checked TAT	Approved TAT			
Client 								

LEGEND

- AREA OF ROAD GREATER THAN 5.5m IN WIDTH
- PROPOSED PASSING BAY
- AREA OF ROAD TO BE WIDENED TO 5.5m IN WIDTH

NOTES:

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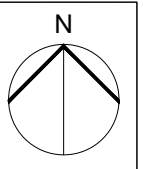


LEGEND

- █ AREA OF ROAD GREATER THAN 5.5m IN WIDTH
- █ PROPOSED PASSING BAY
- █ AREA OF ROAD TO BE WIDENED TO 5.5m IN WIDTH

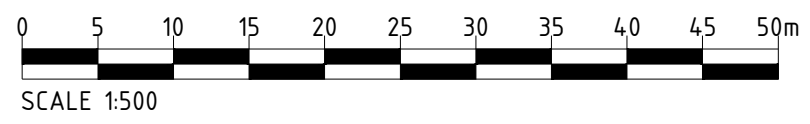
NOTES:

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PASSING BAY PB.19

PASSING BAY PB.20



Plot Date : 20 July 2023 10:36:15
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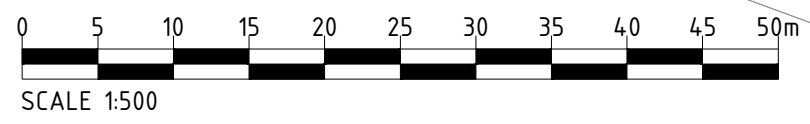
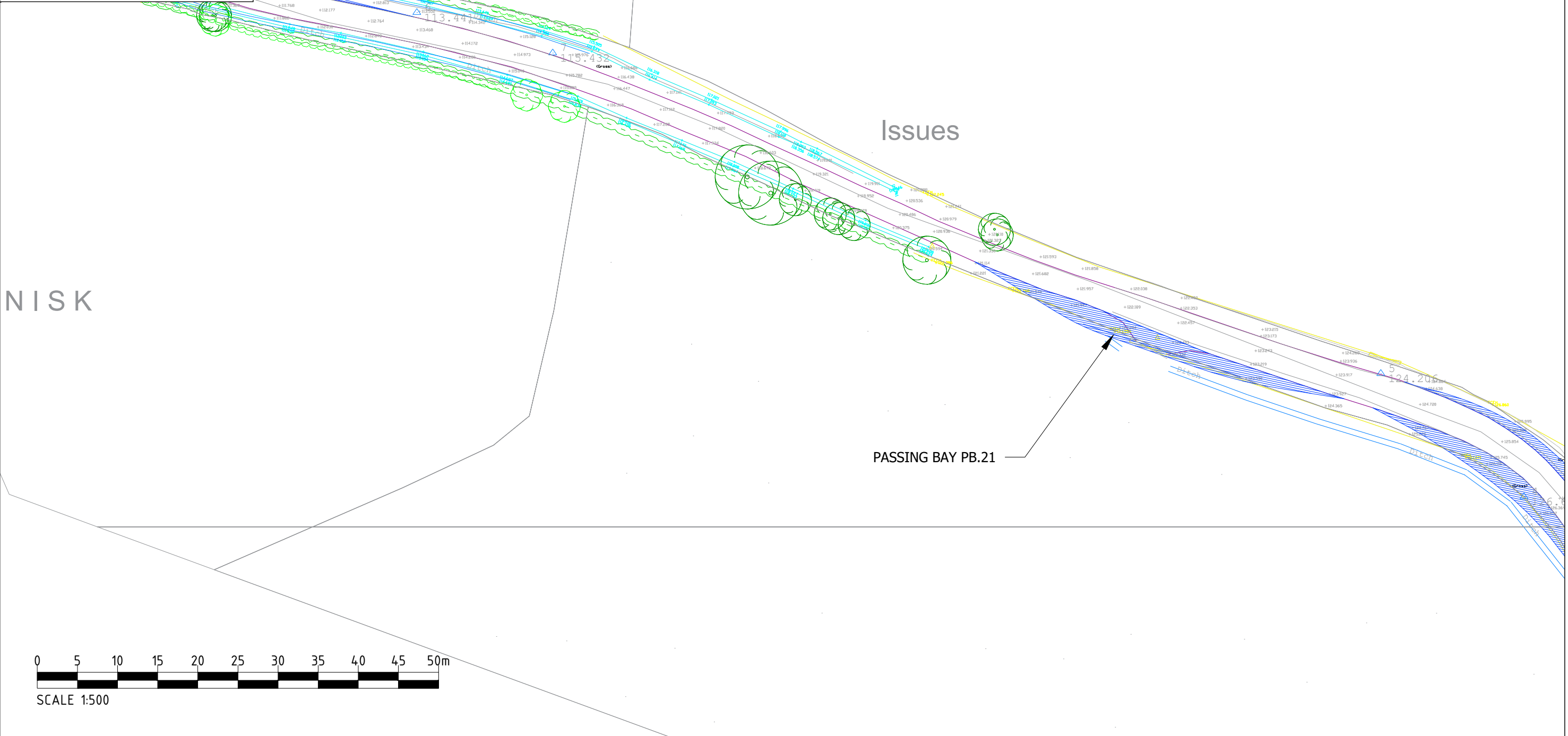
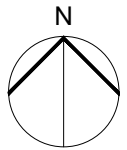
Project Title OWENREAGH / CRAIGNAGAPPLE WIND FARM PASSING BAY DESIGN	Drawing Title FIGURE A13.5.2: SHEET 14 OF 39 PASSING BAY 19 & 20	Purpose of issue PRELIMINARY LAYOUT				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com	
		Designed KL	Drawn RC	Checked TAT	Approved TAT			

LEGEND

- AREA OF ROAD GREATER THAN 5.5m IN WIDTH
- PROPOSED PASSING BAY
- AREA OF ROAD TO BE WIDENED TO 5.5m IN WIDTH

NOTES:

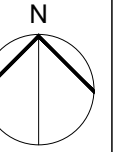
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Plot Date : 20 July 2023 10:36:53
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Project Title OWENREAGH / CRAIGNAGAPPLE WIND FARM PASSING BAY DESIGN	Drawing Title FIGURE A13.5.2: SHEET 15 OF 39 PASSING BAY 21	Purpose of issue PRELIMINARY LAYOUT				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com
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Client 		ERM Internal Project No. 4172		Date 17/07/23			
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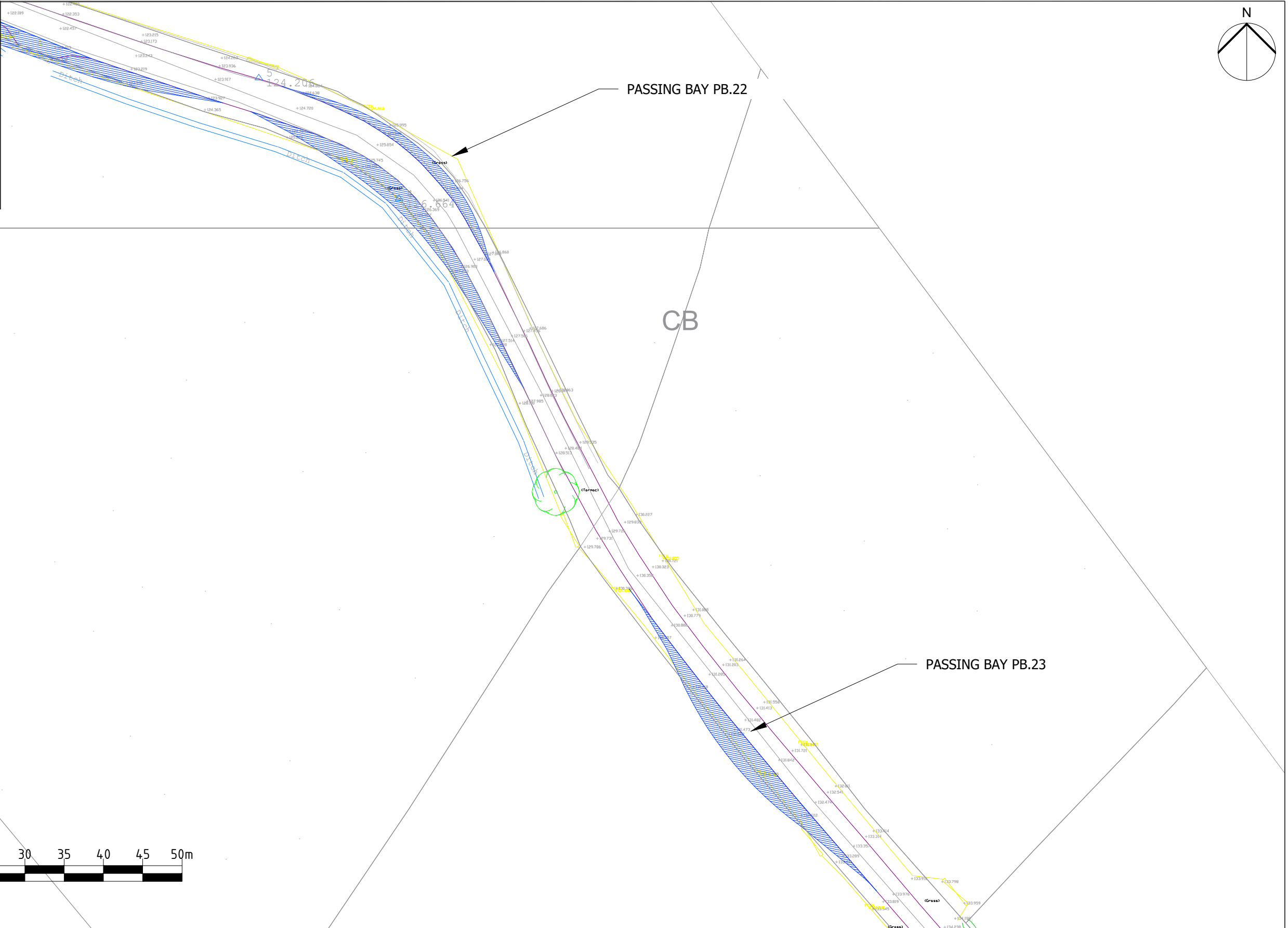


LEGEND

- AREA OF ROAD GREATER THAN 5.5m IN WIDTH
- PROPOSED PASSING BAY
- AREA OF ROAD TO BE WIDENED TO 5.5m IN WIDTH

NOTES:

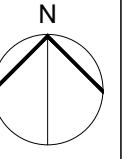
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Plot Date : 20 July 2023 10:37:17
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Project Title OWENREAGH / CRAIGNAGAPPLE WIND FARM PASSING BAY DESIGN	Drawing Title FIGURE A13.5.2: SHEET 16 OF 39 PASSING BAY 22 & 23	Purpose of issue PRELIMINARY LAYOUT				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com
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Client 	ERM Internal Project No. 4172 Scale @ A3 1:500				Date 17/07/23		



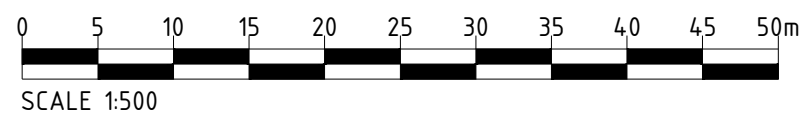


LEGEND

- AREA OF ROAD GREATER THAN 5.5m IN WIDTH
- PROPOSED PASSING BAY
- AREA OF ROAD TO BE WIDENED TO 5.5m IN WIDTH

NOTES:

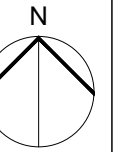
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Plot Date : 20 July 2023 10:38:27
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Project Title OWENREAGH / CRAIGNAGAPPLE WIND FARM PASSING BAY DESIGN	Drawing Title FIGURE A13.5.2: SHEET 18 OF 39 PASSING BAY 25 & 26	Purpose of issue PRELIMINARY LAYOUT				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com
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Client 		ERM Internal Project No. 4172		Date 17/07/23			
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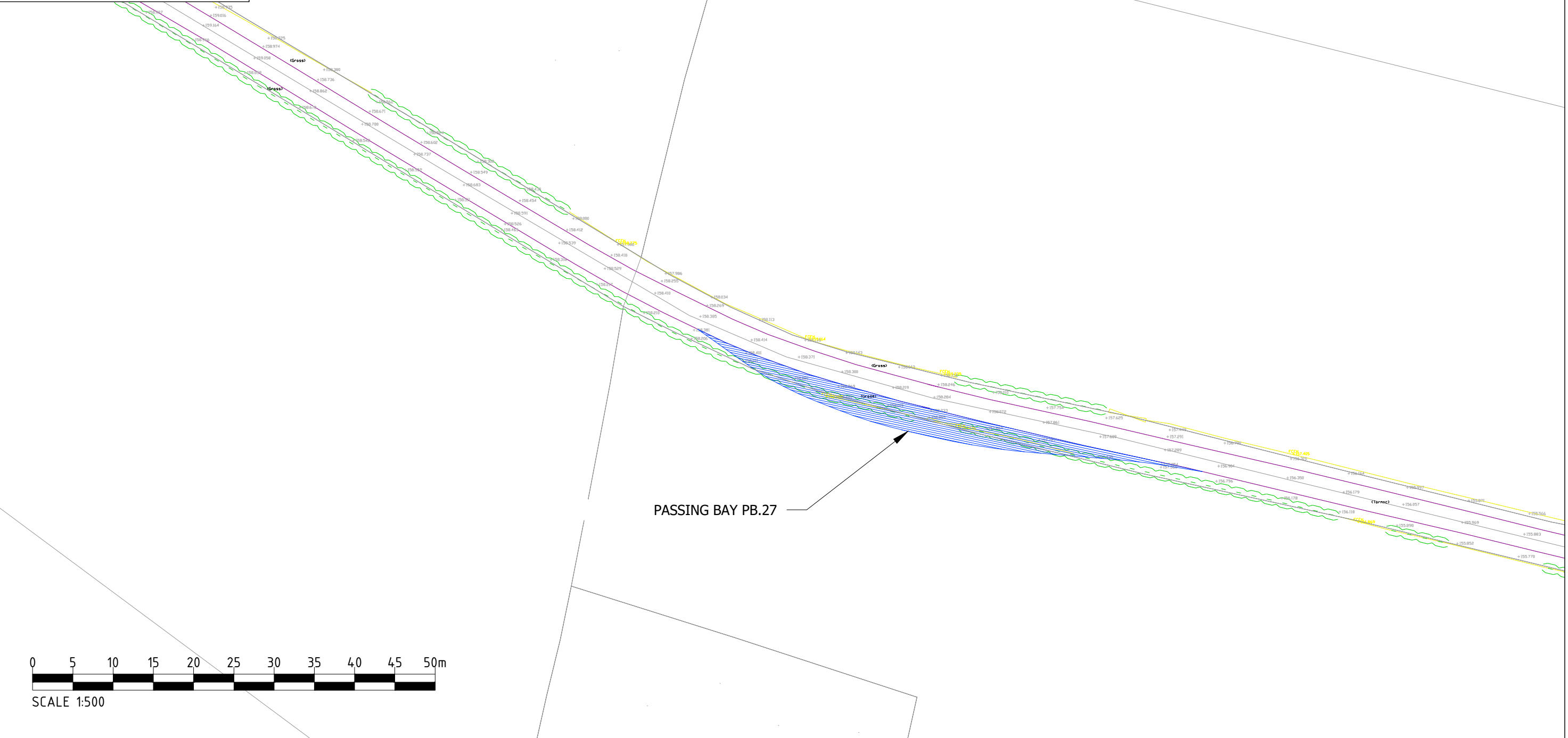


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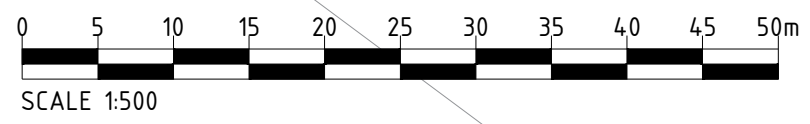
- AREA OF ROAD GREATER THAN 5.5m IN WIDTH
- PROPOSED PASSING BAY
- AREA OF ROAD TO BE WIDENED TO 5.5m IN WIDTH

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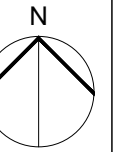


PASSING BAY PB.27



Plot Date : 20 July 2023 10:38:57
File Name : Y:\PROJECTS\4172 OWENREAGH WIND FARM\CAD_DATA\01-WORKING\PASSING PLACE ASSESSMENT\4172_DR_PP_0001 -P3

Project Title OWENREAGH / CRAIGNAGAPPLE WIND FARM PASSING BAY DESIGN	Drawing Title FIGURE A13.5.2: SHEET 19 OF 39 PASSING BAY 27	Purpose of issue PRELIMINARY LAYOUT				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com		
		Designed KL	Drawn RC	Checked TAT	Approved TAT				ERM Internal Project No. 4172 Scale @ A3 1:500
Client									

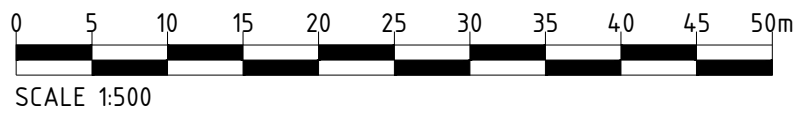
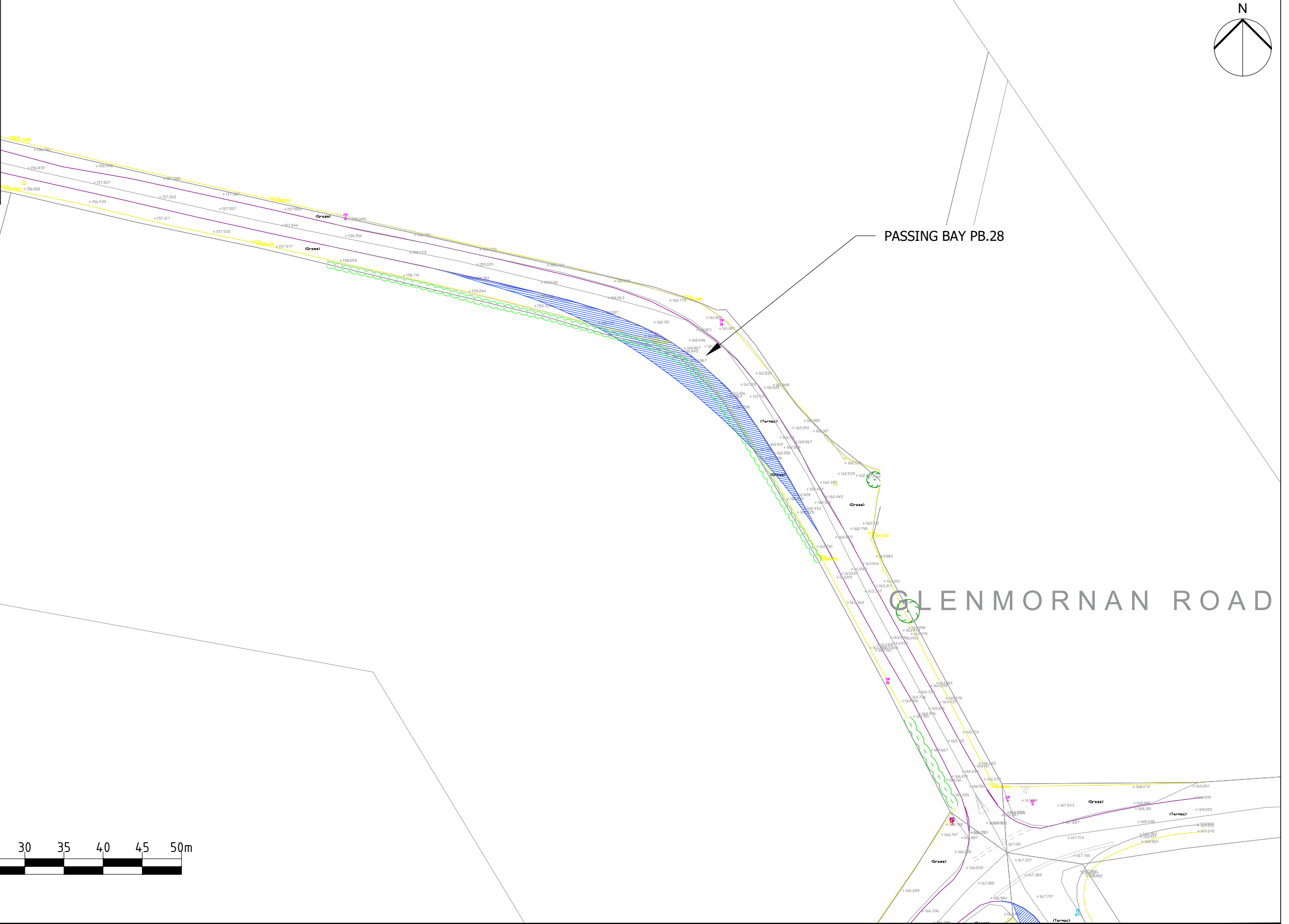


LEGEND

- AREA OF ROAD GREATER THAN 5.5m IN WIDTH
- PROPOSED PASSING BAY
- AREA OF ROAD TO BE WIDENED TO 5.5m IN WIDTH

NOTES:

1. PASSING BAYS HAVE BEEN DESIGNED FOR THE LARGEST GENERAL CONSTRUCTION VEHICLE EXPECTED TO ACCESS THE WIND FARM, WHICH IS A 16.5m ARTICULATED LORRY. PASSING BAYS ARE NOT LESS THAN 15m IN LENGTH;
2. PASSING BAYS HAVE BEEN DESIGNED TO BE INTER-VISIBLE IN AREAS WHERE THE ROAD WIDTH IS LESS THAN 5.5m;
3. ANY OPEN DRAINS AFFECTED BY THE PROPOSED PASSING BAYS WITHIN THE ROAD VERGE SHALL BE PIPED TO THE SATISFACTION OF DFI ROADS; AND
4. OPEN DRAINS BEHIND THE FENCE/HEDGE/LINE WHICH ARE AFFECTED BY THE PROPOSED PASSING BAYS WILL BE PIPED TO THE SATISFACTION OF DFI RIVERS AGENCY.



Plot Date : 20 July 2023 10:39:21
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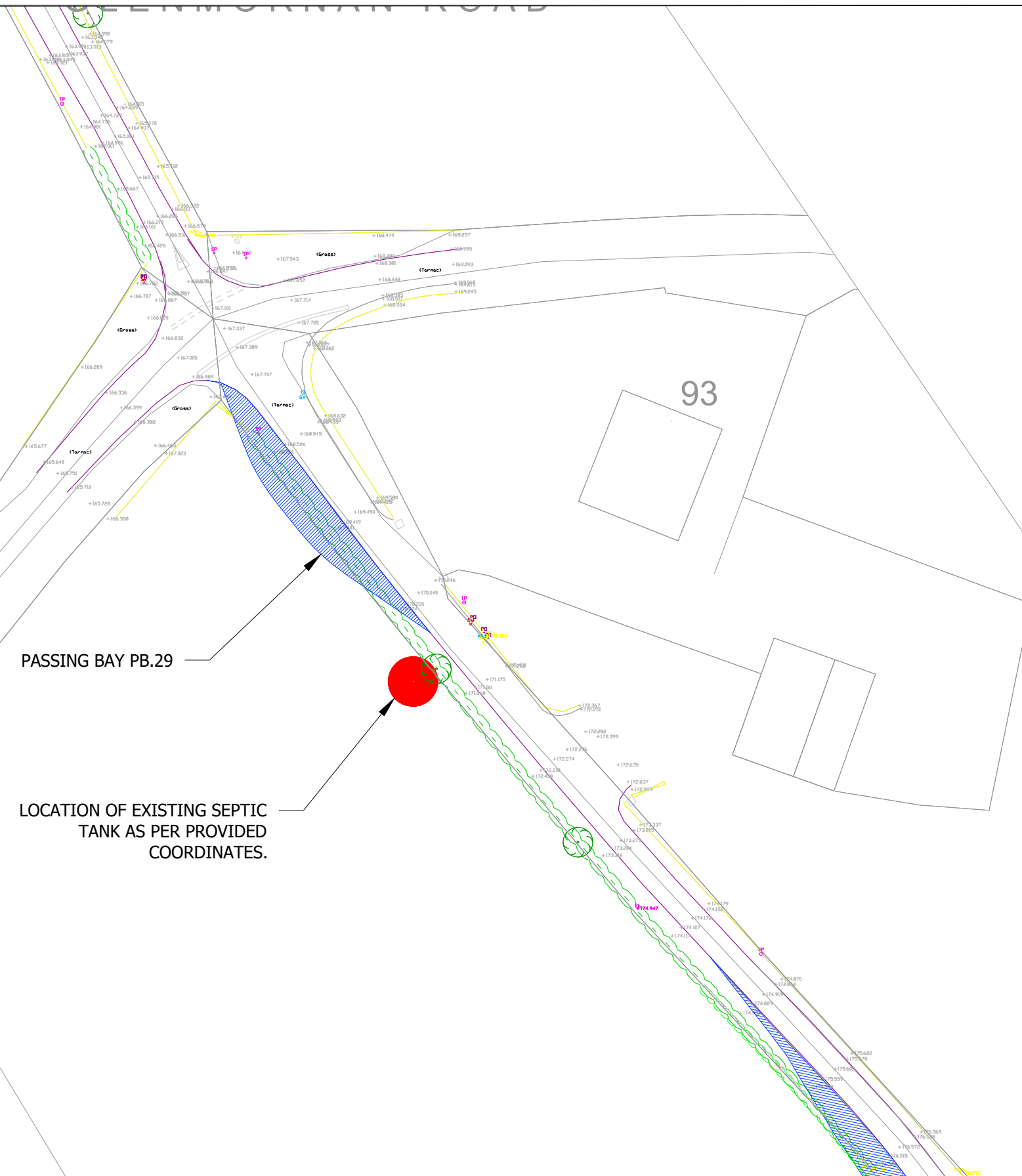
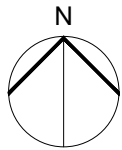
Project Title OWENREAGH / CRAIGNAGAPPLE WIND FARM PASSING BAY DESIGN	Drawing Title FIGURE A13.5.2: SHEET 20 OF 39 PASSING BAY 28	Purpose of issue PRELIMINARY LAYOUT				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com	
		Designed KL	Drawn RC	Checked TAT	Approved TAT			
Client 	ERM Internal Project No. 4172 Scale @ A3 1:500	Date 17/07/23						

LEGEND

- AREA OF ROAD GREATER THAN 5.5m IN WIDTH
- PROPOSED PASSING BAY
- AREA OF ROAD TO BE WIDENED TO 5.5m IN WIDTH

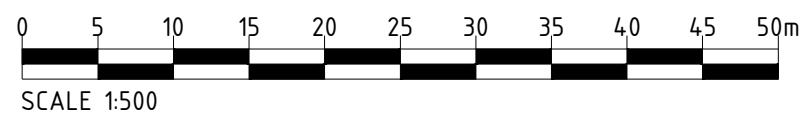
NOTES:

1. PASSING BAYS HAVE BEEN DESIGNED FOR THE LARGEST GENERAL CONSTRUCTION VEHICLE EXPECTED TO ACCESS THE WIND FARM, WHICH IS A 16.5m ARTICULATED LORRY. PASSING BAYS ARE NOT LESS THAN 15m IN LENGTH;
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4. OPEN DRAINS BEHIND THE FENCE/HEDGELINE WHICH ARE AFFECTED BY THE PROPOSED PASSING BAYS WILL BE PIPED TO THE SATISFACTION OF DFI RIVERS AGENCY.



PASSING BAY PB.29

LOCATION OF EXISTING SEPTIC TANK AS PER PROVIDED COORDINATES.



Plot Date : 20 July 2023 10:45:13
File Name : Y:\PROJECTS\4172 OWENREAGH WIND FARM\CAD_DATA\01-WORKING\PASSING PLACE ASSESSMENT\4172_DR_PP_0001_P3

Project Title OWENREAGH / CRAIGNAGAPPLE WIND FARM PASSING BAY DESIGN	Drawing Title FIGURE A13.5.2: SHEET 21 OF 39 PASSING BAY 29	Purpose of issue PRELIMINARY LAYOUT				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com
		Designed CR	Drawn CR	Checked TAT	Approved TAT		
Client 		ERM Internal Project No. 4172		Date 17/07/23			
		Scale @ A3 1:500					



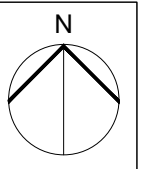
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LEGEND

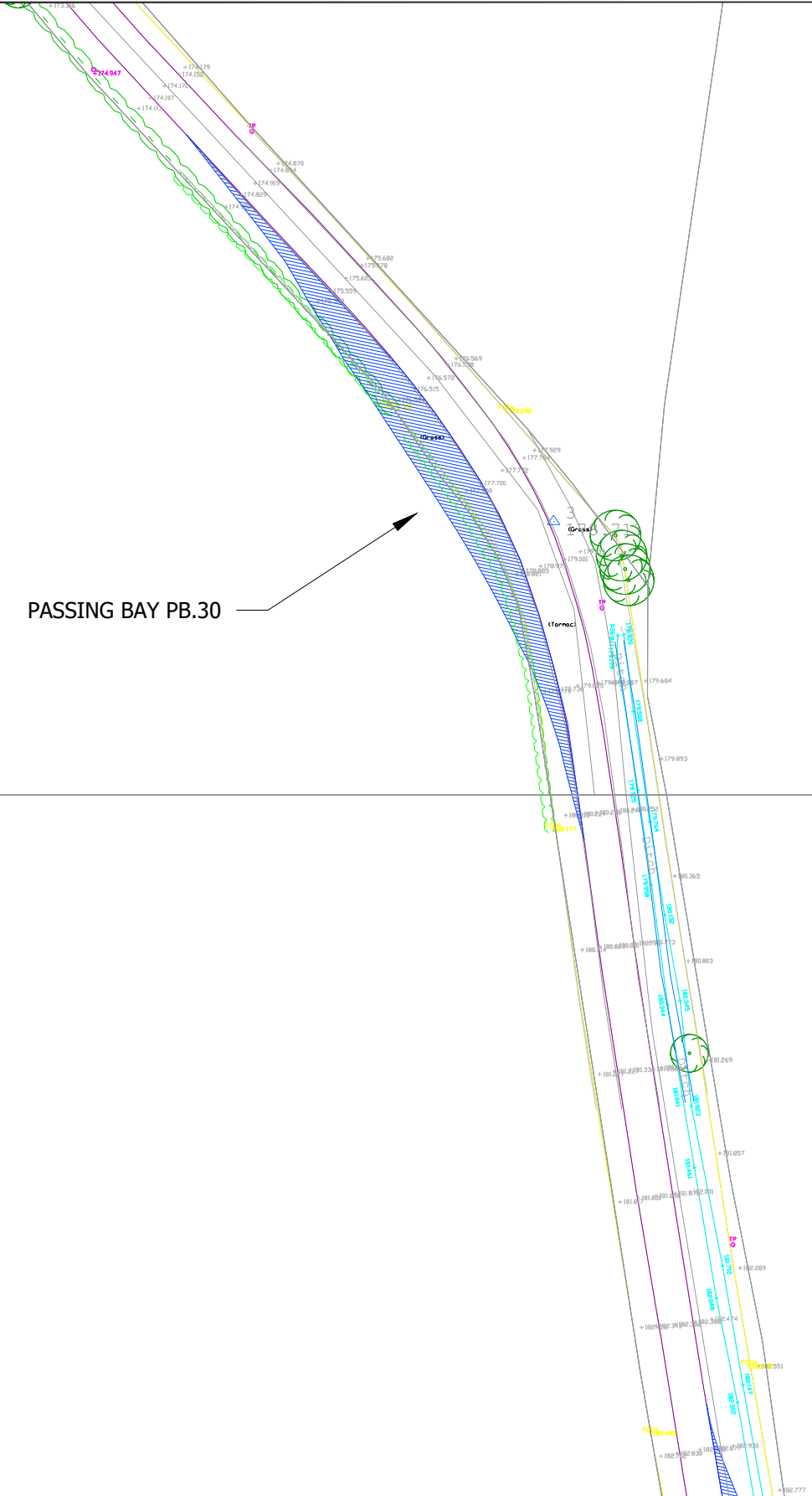
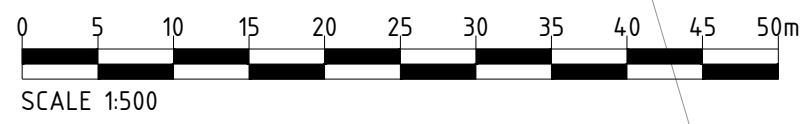
- AREA OF ROAD GREATER THAN 5.5m IN WIDTH
- PROPOSED PASSING BAY
- AREA OF ROAD TO BE WIDENED TO 5.5m IN WIDTH

NOTES:

1. PASSING BAYS HAVE BEEN DESIGNED FOR THE LARGEST GENERAL CONSTRUCTION VEHICLE EXPECTED TO ACCESS THE WIND FARM, WHICH IS A 16.5m ARTICULATED LORRY. PASSING BAYS ARE NOT LESS THAN 15m IN LENGTH;
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3. ANY OPEN DRAINS AFFECTED BY THE PROPOSED PASSING BAYS WITHIN THE ROAD VERGE SHALL BE PIPED TO THE SATISFACTION OF DFI ROADS; AND
4. OPEN DRAINS BEHIND THE FENCE/HEDGELINE WHICH ARE AFFECTED BY THE PROPOSED PASSING BAYS WILL BE PIPED TO THE SATISFACTION OF DFI RIVERS AGENCY.

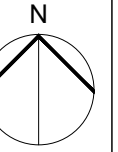


PASSING BAY PB.30



Project Title OWENREAGH / CRAIGNAGAPPLE WIND FARM PASSING BAY DESIGN	Drawing Title FIGURE A13.5.2: SHEET 22 OF 39 PASSING BAY 30	Purpose of issue PRELIMINARY LAYOUT				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com
		Designed KL	Drawn RC	Checked TAT	Approved TAT		
Client 		ERM Internal Project No. 4172		Date 17/07/23			
		Scale @ A3 1:500					



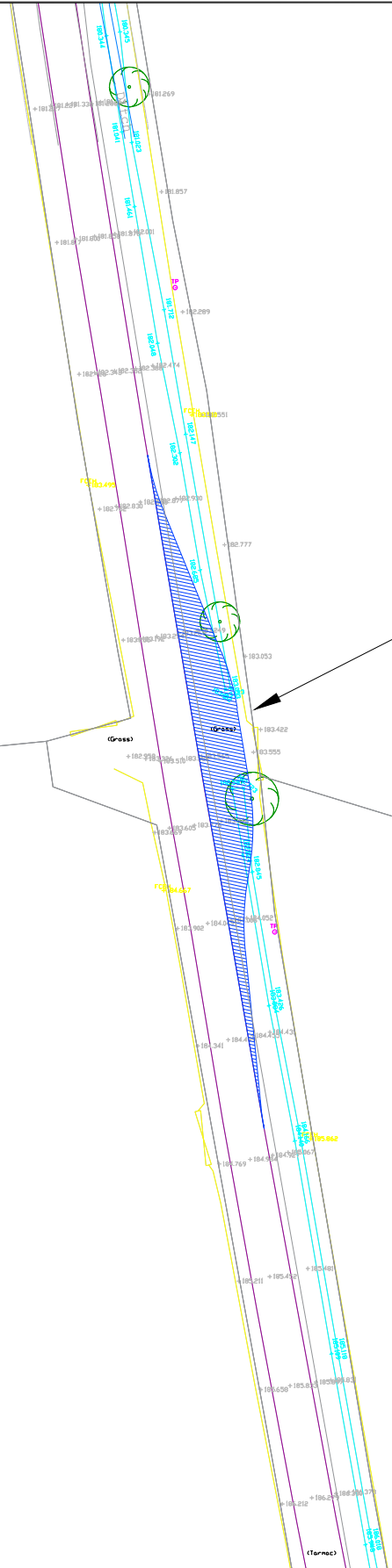


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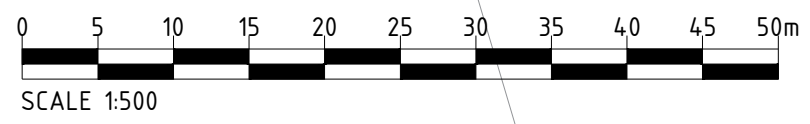
- AREA OF ROAD GREATER THAN 5.5m IN WIDTH
- PROPOSED PASSING BAY
- AREA OF ROAD TO BE WIDENED TO 5.5m IN WIDTH

NOTES:

1. PASSING BAYS HAVE BEEN DESIGNED FOR THE LARGEST GENERAL CONSTRUCTION VEHICLE EXPECTED TO ACCESS THE WIND FARM, WHICH IS A 16.5m ARTICULATED LORRY. PASSING BAYS ARE NOT LESS THAN 15m IN LENGTH;
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4. OPEN DRAINS BEHIND THE FENCE/HEDGELINE WHICH ARE AFFECTED BY THE PROPOSED PASSING BAYS WILL BE PIPED TO THE SATISFACTION OF DFI RIVERS AGENCY.



PASSING BAY PB.31



Plot Date : 20 July 2023 10:46:04
File Name : Y:\PROJECTS\4172 OWENREAGH WIND FARM\CAD_DATA\01-WORKING\PASSING PLACE ASSESSMENT\4172_DR_PP_0001 -P3

Project Title OWENREAGH / CRAIGNAGAPPLE WIND FARM PASSING BAY DESIGN	Drawing Title FIGURE A13.5.2: SHEET 23 OF 39 PASSING BAY 31	Purpose of issue PRELIMINARY LAYOUT				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com
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Client 		ERM Internal Project No. 4172		Date 17/07/23			
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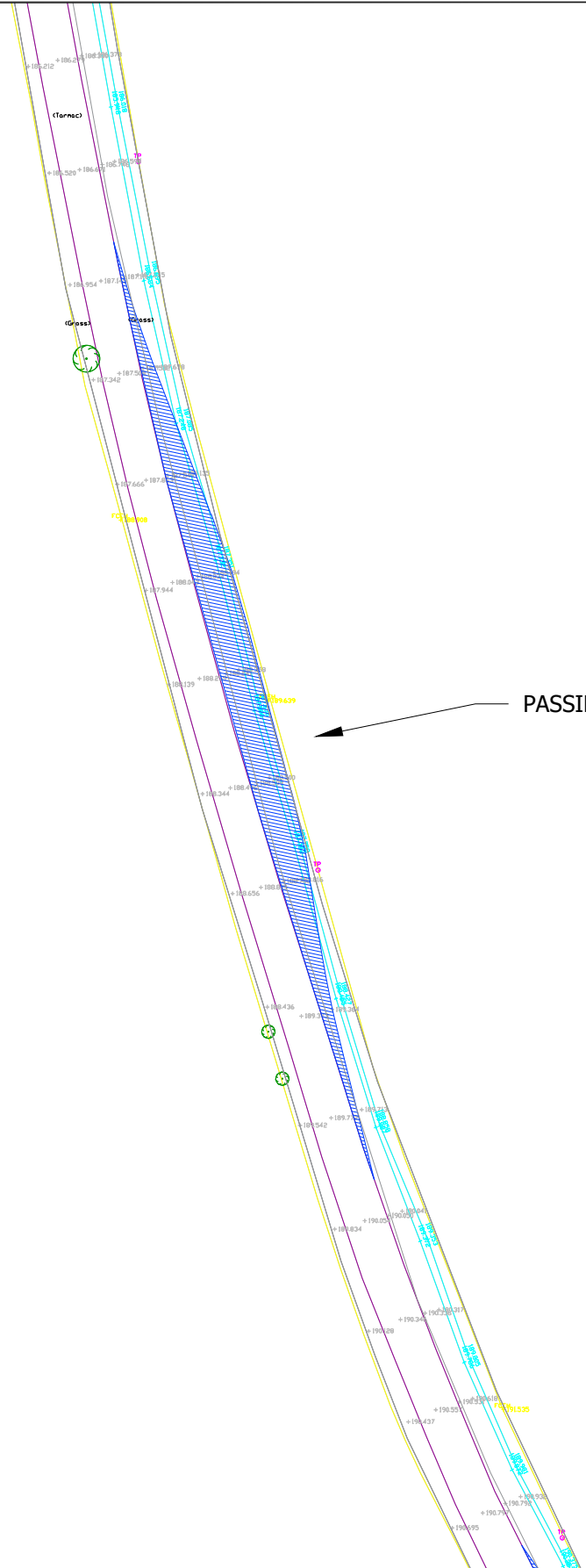
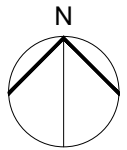


LEGEND

- AREA OF ROAD GREATER THAN 5.5m IN WIDTH
- PROPOSED PASSING BAY
- AREA OF ROAD TO BE WIDENED TO 5.5m IN WIDTH

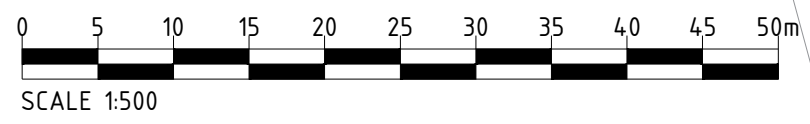
NOTES:

1. PASSING BAYS HAVE BEEN DESIGNED FOR THE LARGEST GENERAL CONSTRUCTION VEHICLE EXPECTED TO ACCESS THE WIND FARM, WHICH IS A 16.5m ARTICULATED LORRY. PASSING BAYS ARE NOT LESS THAN 15m IN LENGTH;
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4. OPEN DRAINS BEHIND THE FENCE/HEDGELINE WHICH ARE AFFECTED BY THE PROPOSED PASSING BAYS WILL BE PIPED TO THE SATISFACTION OF DFI RIVERS AGENCY.



PASSING BAY PB.32

PASSING BAY 32
SHEET 24 OF 39



Plot Date : 20 July 2023 10:46:34
File Name : Y:\PROJECTS\4172 OWENREAGH WIND FARM\CAD_DATA\01-WORKING\PASSING PLACE ASSESSMENT\4172_DR_PP_0001 -P3

Project Title OWENREAGH / CRAIGNAGAPPLE WIND FARM PASSING BAY DESIGN	Drawing Title FIGURE A13.5.2: SHEET 24 OF 39 PASSING BAY 32	Purpose of issue PRELIMINARY LAYOUT				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com
		Designed CR	Drawn CR	Checked TAT	Approved TAT		
Client 		ERM Internal Project No. 4172		Date 17/07/23			
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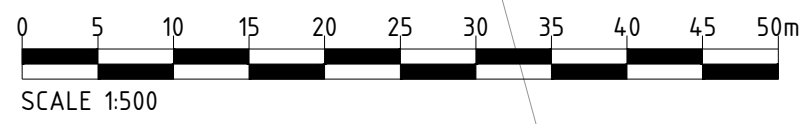
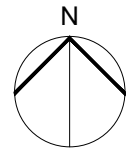


LEGEND

- AREA OF ROAD GREATER THAN 5.5m IN WIDTH
- PROPOSED PASSING BAY
- AREA OF ROAD TO BE WIDENED TO 5.5m IN WIDTH

NOTES:

1. PASSING BAYS HAVE BEEN DESIGNED FOR THE LARGEST GENERAL CONSTRUCTION VEHICLE EXPECTED TO ACCESS THE WIND FARM, WHICH IS A 16.5m ARTICULATED LORRY. PASSING BAYS ARE NOT LESS THAN 15m IN LENGTH;
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4. OPEN DRAINS BEHIND THE FENCE/HEDGELINE WHICH ARE AFFECTED BY THE PROPOSED PASSING BAYS WILL BE PIPED TO THE SATISFACTION OF DFI RIVERS AGENCY.



Plot Date : 20 July 2023 10:47:06
File Name : Y:\PROJECTS\4172 OWENREAGH WIND FARM\CAD\DATA\01-WORKING\PASSING PLACE ASSESSMENT\4172_DR_PP_0001 -P3

Project Title OWENREAGH / CRAIGNAGAPPLE WIND FARM PASSING BAY DESIGN	Drawing Title FIGURE A13.5.2: SHEET 25 OF 39 PASSING BAY 33 & 34	Purpose of issue PRELIMINARY LAYOUT				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com
		Designed CR	Drawn CR	Checked TAT	Approved TAT		
Client 		ERM Internal Project No. 4172		Date 17/07/23			
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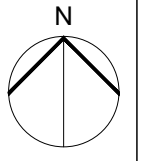


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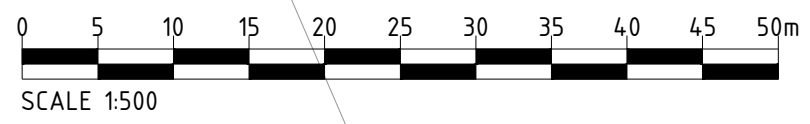
- AREA OF ROAD GREATER THAN 5.5m IN WIDTH
- PROPOSED PASSING BAY
- AREA OF ROAD TO BE WIDENED TO 5.5m IN WIDTH

NOTES:

1. PASSING BAYS HAVE BEEN DESIGNED FOR THE LARGEST GENERAL CONSTRUCTION VEHICLE EXPECTED TO ACCESS THE WIND FARM, WHICH IS A 16.5m ARTICULATED LORRY. PASSING BAYS ARE NOT LESS THAN 15m IN LENGTH;
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PASSING BAY PB.35

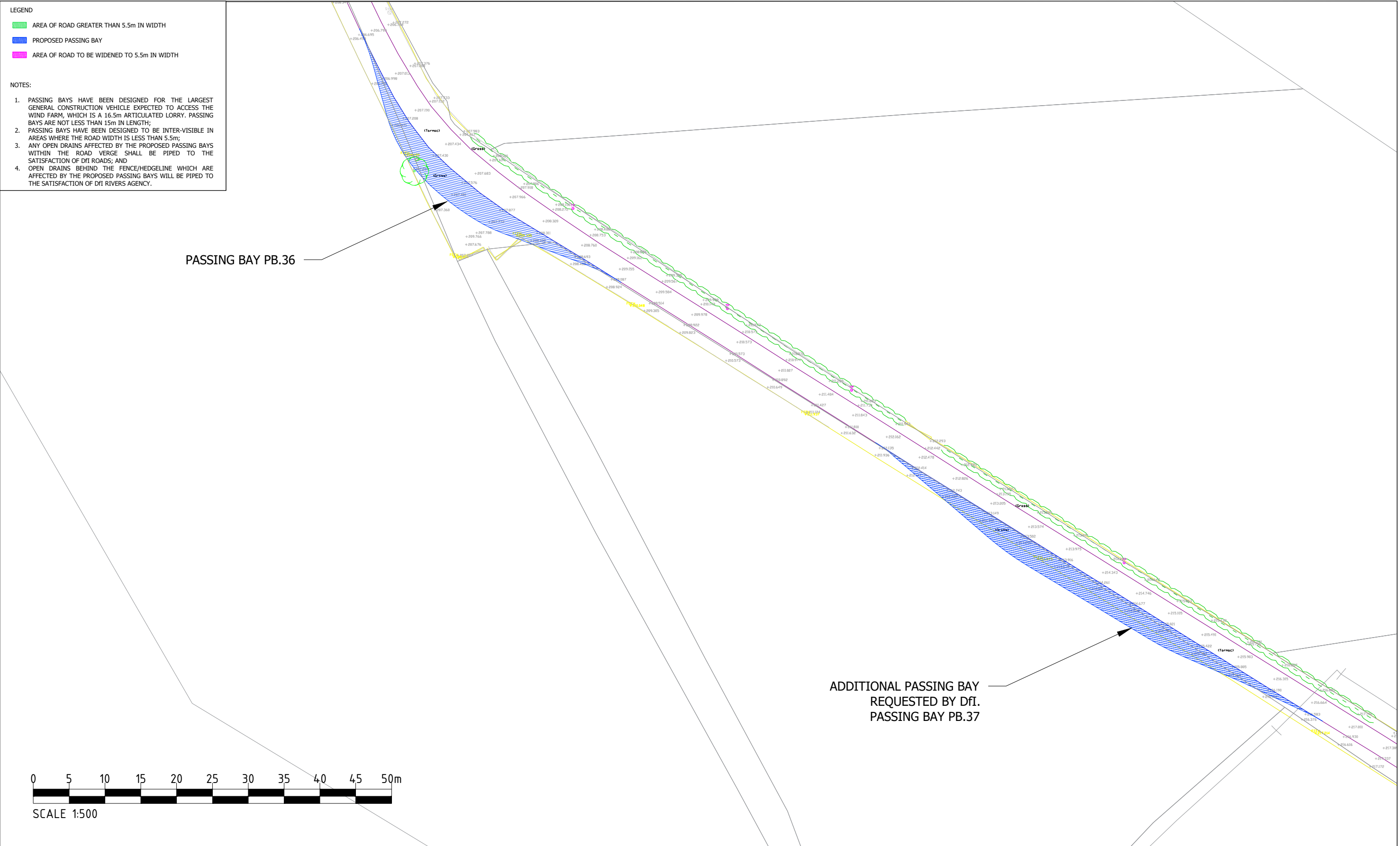




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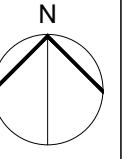
Project Title OWENREAGH / CRAIGNAGAPPLE WIND FARM PASSING BAY DESIGN	Drawing Title FIGURE A13.5.2: SHEET 26 OF 39 PASSING BAY 35	Purpose of issue PRELIMINARY LAYOUT				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com
		Designed KL	Drawn RC	Checked TAT	Approved TAT		
Client 		ERM Internal Project No. 4172		Date 17/07/23			
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Plot Date : 20 July 2023 10:47:57
File Name : Y:\PROJECTS\4172 OWENREAGH WIND FARM\CAD_DATA\01-WORKING\PASSING PLACE ASSESSMENT\4172_DR_PP_0001_PP3



Project Title OWENREAGH / CRAIGNAGAPPLE WIND FARM PASSING BAY DESIGN	Drawing Title FIGURE A13.5.2: SHEET 27 OF 39 PASSING BAY 36 & 37	Purpose of issue PRELIMINARY LAYOUT				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com	
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Client 		ERM Internal Project No. 4172	Date 17/07/23					
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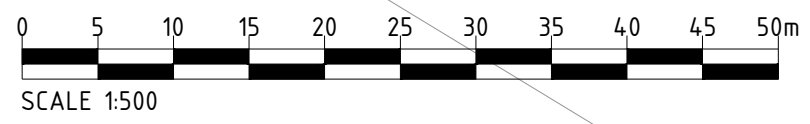


LEGEND

- AREA OF ROAD GREATER THAN 5.5m IN WIDTH
- PROPOSED PASSING BAY
- AREA OF ROAD TO BE WIDENED TO 5.5m IN WIDTH

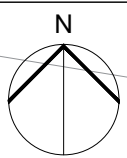
NOTES:

1. PASSING BAYS HAVE BEEN DESIGNED FOR THE LARGEST GENERAL CONSTRUCTION VEHICLE EXPECTED TO ACCESS THE WIND FARM, WHICH IS A 16.5m ARTICULATED LORRY. PASSING BAYS ARE NOT LESS THAN 15m IN LENGTH;
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Plot Date : 20 July 2023 10:48:23
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Project Title OWENREAGH / CRAIGNAGAPPLE WIND FARM PASSING BAY DESIGN	Drawing Title FIGURE A13.5.2: SHEET 28 OF 39 PASSING BAY 38	Purpose of issue PRELIMINARY LAYOUT				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com	
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Client 		ERM Internal Project No. 4172		Date 17/07/23				
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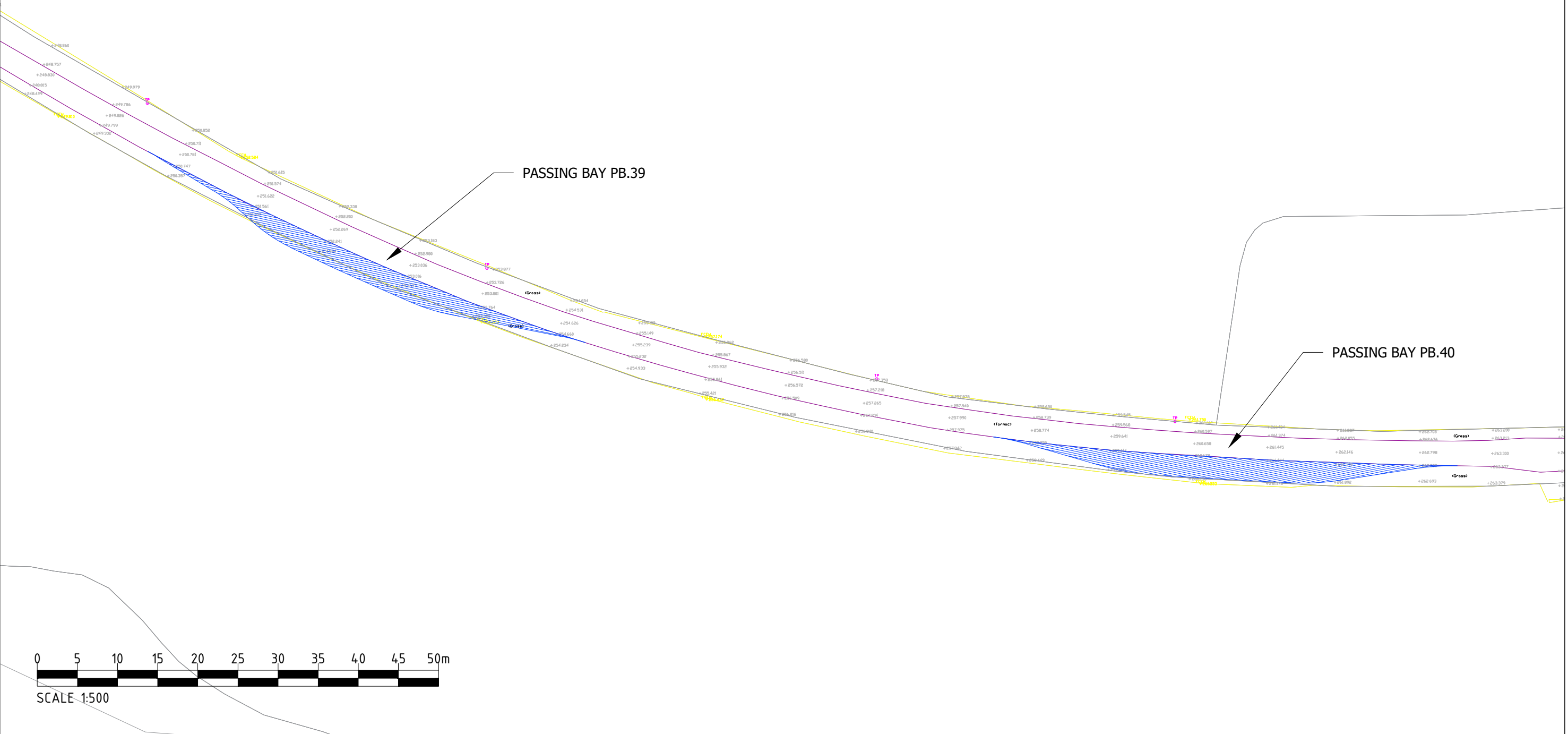


LEGEND

- AREA OF ROAD GREATER THAN 5.5m IN WIDTH
- PROPOSED PASSING BAY
- AREA OF ROAD TO BE WIDENED TO 5.5m IN WIDTH

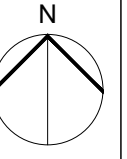
NOTES:

1. PASSING BAYS HAVE BEEN DESIGNED FOR THE LARGEST GENERAL CONSTRUCTION VEHICLE EXPECTED TO ACCESS THE WIND FARM, WHICH IS A 16.5m ARTICULATED LORRY. PASSING BAYS ARE NOT LESS THAN 15m IN LENGTH;
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4. OPEN DRAINS BEHIND THE FENCE/HEADLINE WHICH ARE AFFECTED BY THE PROPOSED PASSING BAYS WILL BE PIPED TO THE SATISFACTION OF DFI RIVERS AGENCY.



Plot Date : 20 July 2023 10:48:48
File Name : Y:\PROJECTS\4172 OWENREAGH WIND FARM\CAD\DATA\01-WORKING\PASSING PLACE ASSESSMENT\4172_DR_PP_0001_P3

Project Title OWENREAGH / CRAIGNAGAPPLE WIND FARM PASSING BAY DESIGN	Drawing Title FIGURE A13.5.2: SHEET 29 OF 39 PASSING BAY 39 & 40	Purpose of issue PRELIMINARY LAYOUT				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com	
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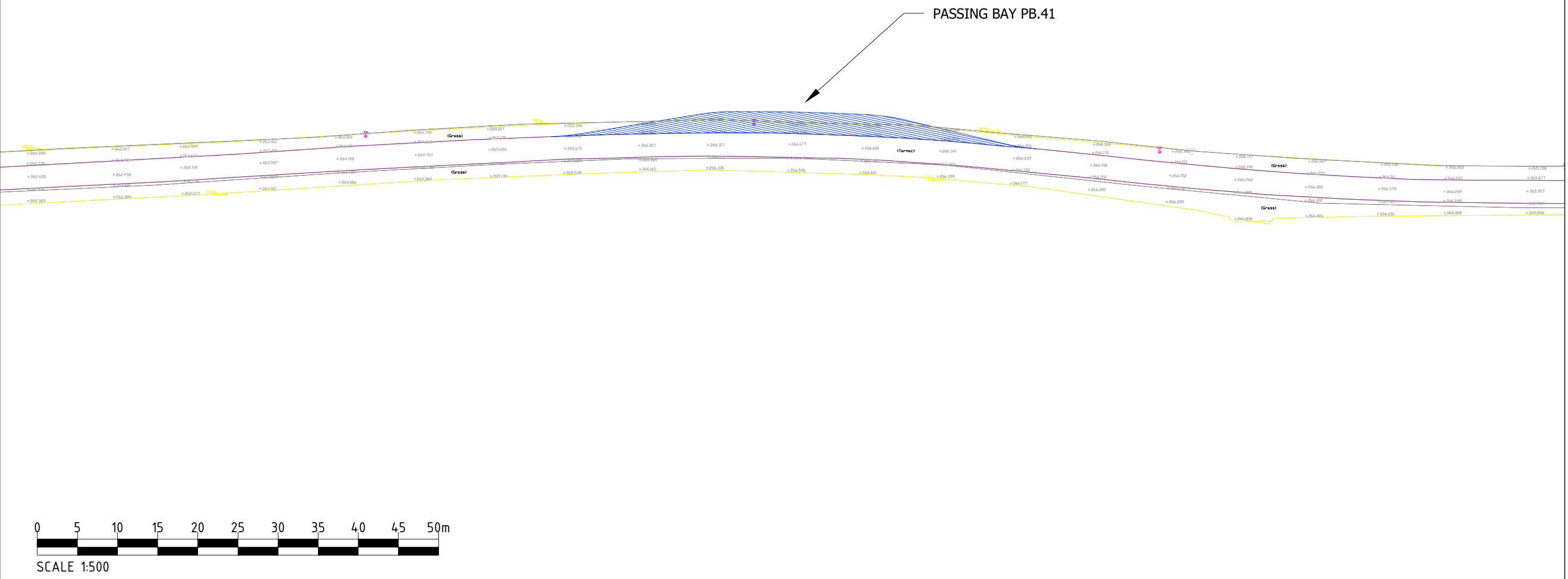


LEGEND

- AREA OF ROAD GREATER THAN 5.5m IN WIDTH
- PROPOSED PASSING BAY
- AREA OF ROAD TO BE WIDENED TO 5.5m IN WIDTH

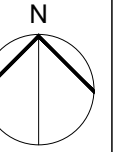
NOTES:

1. PASSING BAYS HAVE BEEN DESIGNED FOR THE LARGEST GENERAL CONSTRUCTION VEHICLE EXPECTED TO ACCESS THE WIND FARM, WHICH IS A 16.5m ARTICULATED LORRY. PASSING BAYS ARE NOT LESS THAN 15m IN LENGTH;
2. PASSING BAYS HAVE BEEN DESIGNED TO BE INTER-VISIBLE IN AREAS WHERE THE ROAD WIDTH IS LESS THAN 5.5m;
3. ANY OPEN DRAINS AFFECTED BY THE PROPOSED PASSING BAYS WITHIN THE ROAD VERGE SHALL BE PIPED TO THE SATISFACTION OF DFI ROADS; AND
4. OPEN DRAINS BEHIND THE FENCE/HEDGE LINE WHICH ARE AFFECTED BY THE PROPOSED PASSING BAYS WILL BE PIPED TO THE SATISFACTION OF DFI RIVERS AGENCY.



Plot Date : 20 July 2023 10:49:14
File Name : Y:\PROJECTS\4172 OWENREAGH WIND FARM\CAD_DATA\01-WORKING\PASSING PLACE ASSESSMENT\4172_DR_PP_0001 -P3

Project Title OWENREAGH / CRAIGNAGAPPLE WIND FARM PASSING BAY DESIGN	Drawing Title FIGURE A13.5.2: SHEET 30 OF 39 PASSING BAY 41	Purpose of issue PRELIMINARY LAYOUT				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com	
		Designed KL	Drawn RC	Checked TAT	Approved TAT			
Client 		ERM Internal Project No. 4172	Date 18/07/23					
		Scale @ A3 1:500						



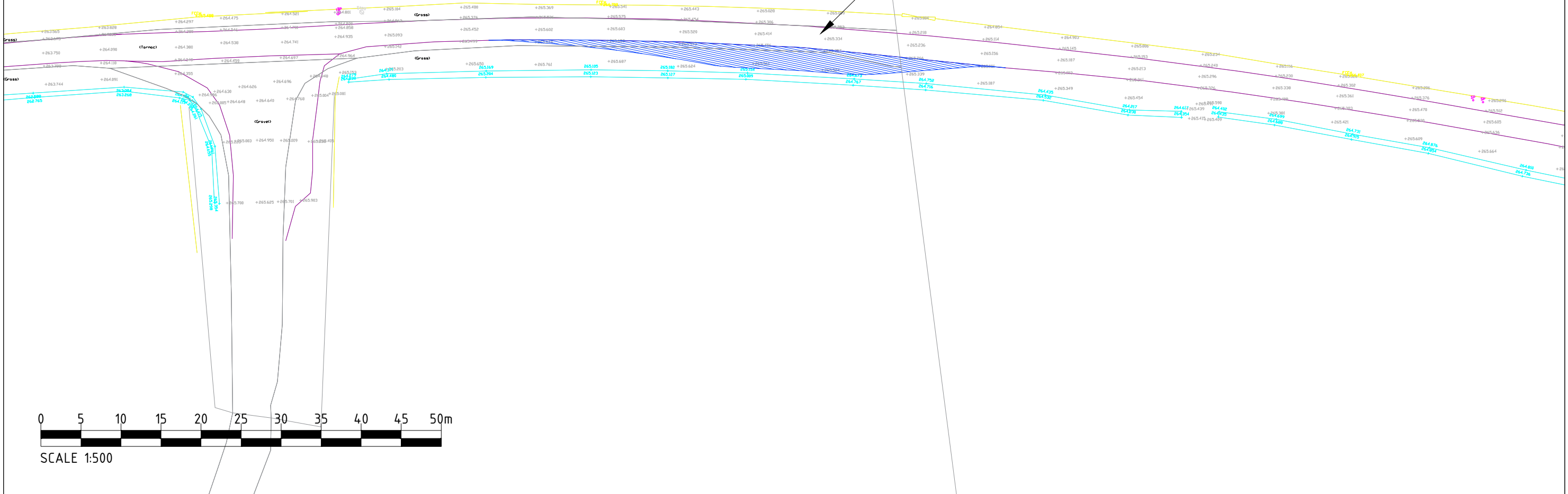
LEGEND

- AREA OF ROAD GREATER THAN 5.5m IN WIDTH
- PROPOSED PASSING BAY
- AREA OF ROAD TO BE WIDENED TO 5.5m IN WIDTH

NOTES:

1. PASSING BAYS HAVE BEEN DESIGNED FOR THE LARGEST GENERAL CONSTRUCTION VEHICLE EXPECTED TO ACCESS THE WIND FARM, WHICH IS A 16.5m ARTICULATED LORRY. PASSING BAYS ARE NOT LESS THAN 15m IN LENGTH;
2. PASSING BAYS HAVE BEEN DESIGNED TO BE INTER-VISIBLE IN AREAS WHERE THE ROAD WIDTH IS LESS THAN 5.5m;
3. ANY OPEN DRAINS AFFECTED BY THE PROPOSED PASSING BAYS WITHIN THE ROAD VERGE SHALL BE PIPED TO THE SATISFACTION OF DFI ROADS; AND
4. OPEN DRAINS BEHIND THE FENCE/HEDGELINE WHICH ARE AFFECTED BY THE PROPOSED PASSING BAYS WILL BE PIPED TO THE SATISFACTION OF DFI RIVERS AGENCY.

Plot Date : 20 July 2023 10:49:39
File Name : Y:\PROJECTS\4172 OWENREAGH WIND FARM\CAD_DATA\01-WORKING\PASSING PLACE ASSESSMENT\4172_DR_PP_0001_P3



Project Title OWENREAGH / CRAIGNAGAPPLE WIND FARM PASSING BAY DESIGN	Drawing Title FIGURE A13.5.2: SHEET 31 OF 39 PASSING BAY 42	Purpose of issue PRELIMINARY LAYOUT				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com
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Client 		ERM Internal Project No. 4172		Date 18/07/23			
		Scale @ A3 1:500					



LEGEND

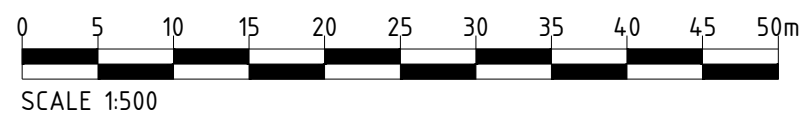
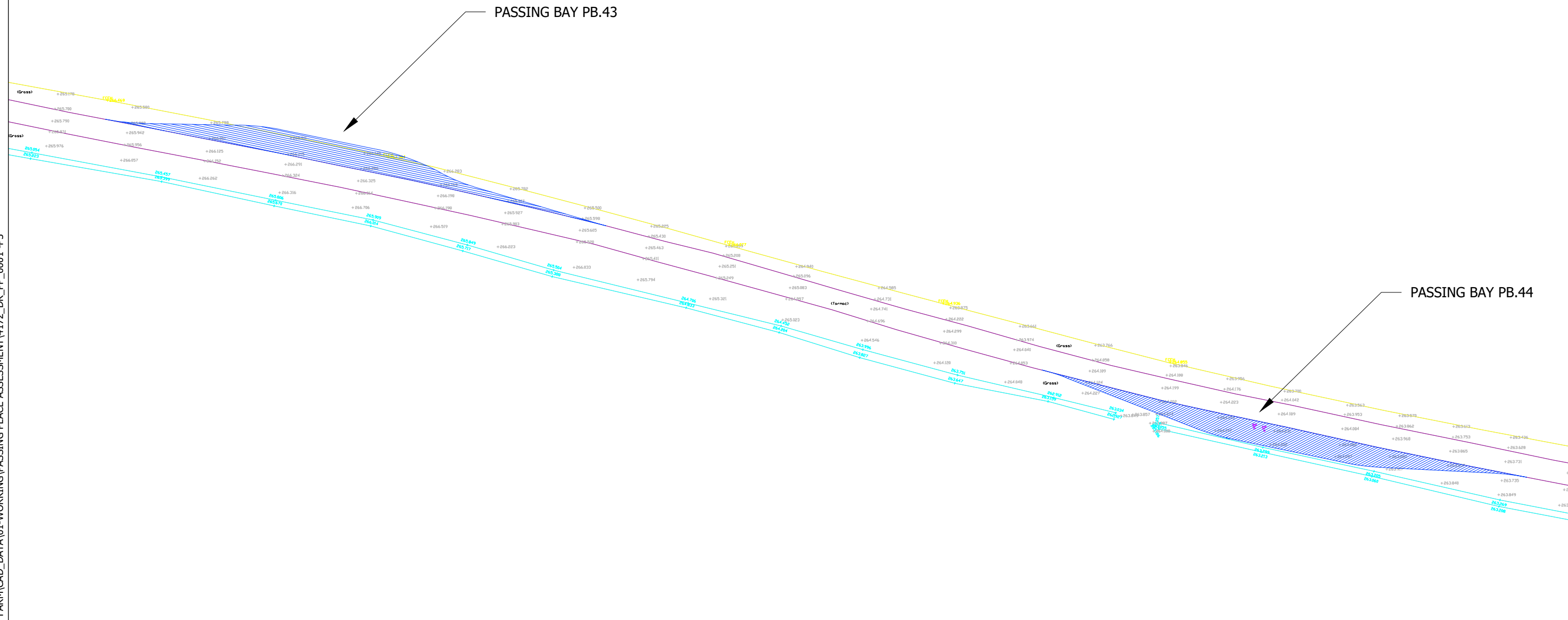
- AREA OF ROAD GREATER THAN 5.5m IN WIDTH
- PROPOSED PASSING BAY
- AREA OF ROAD TO BE WIDENED TO 5.5m IN WIDTH

NOTES:

1. PASSING BAYS HAVE BEEN DESIGNED FOR THE LARGEST GENERAL CONSTRUCTION VEHICLE EXPECTED TO ACCESS THE WIND FARM, WHICH IS A 16.5m ARTICULATED LORRY. PASSING BAYS ARE NOT LESS THAN 15m IN LENGTH;
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4. OPEN DRAINS BEHIND THE FENCE/HEDGE LINE WHICH ARE AFFECTED BY THE PROPOSED PASSING BAYS WILL BE PIPED TO THE SATISFACTION OF DFI RIVERS AGENCY.

PASSING BAY PB.43

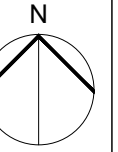
PASSING BAY PB.44



Plot Date : 20 July 2023 10:50:04
File Name : Y:\PROJECTS\4172 OWENREAGH WIND FARM\CAD_DATA\01-WORKING\PASSING PLACE ASSESSMENT\4172_DR_PP_0001 -P3

Project Title OWENREAGH / CRAIGNAGAPPLE WIND FARM PASSING BAY DESIGN	Drawing Title FIGURE A13.5.2: SHEET 32 OF 39 PASSING BAY 43 & 44	Purpose of issue PRELIMINARY LAYOUT				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com
		Designed KL	Drawn RC	Checked TAT	Approved TAT		
Client 		ERM Internal Project No. 4172		Date 18/07/23			
		Scale @ A3 1:500					



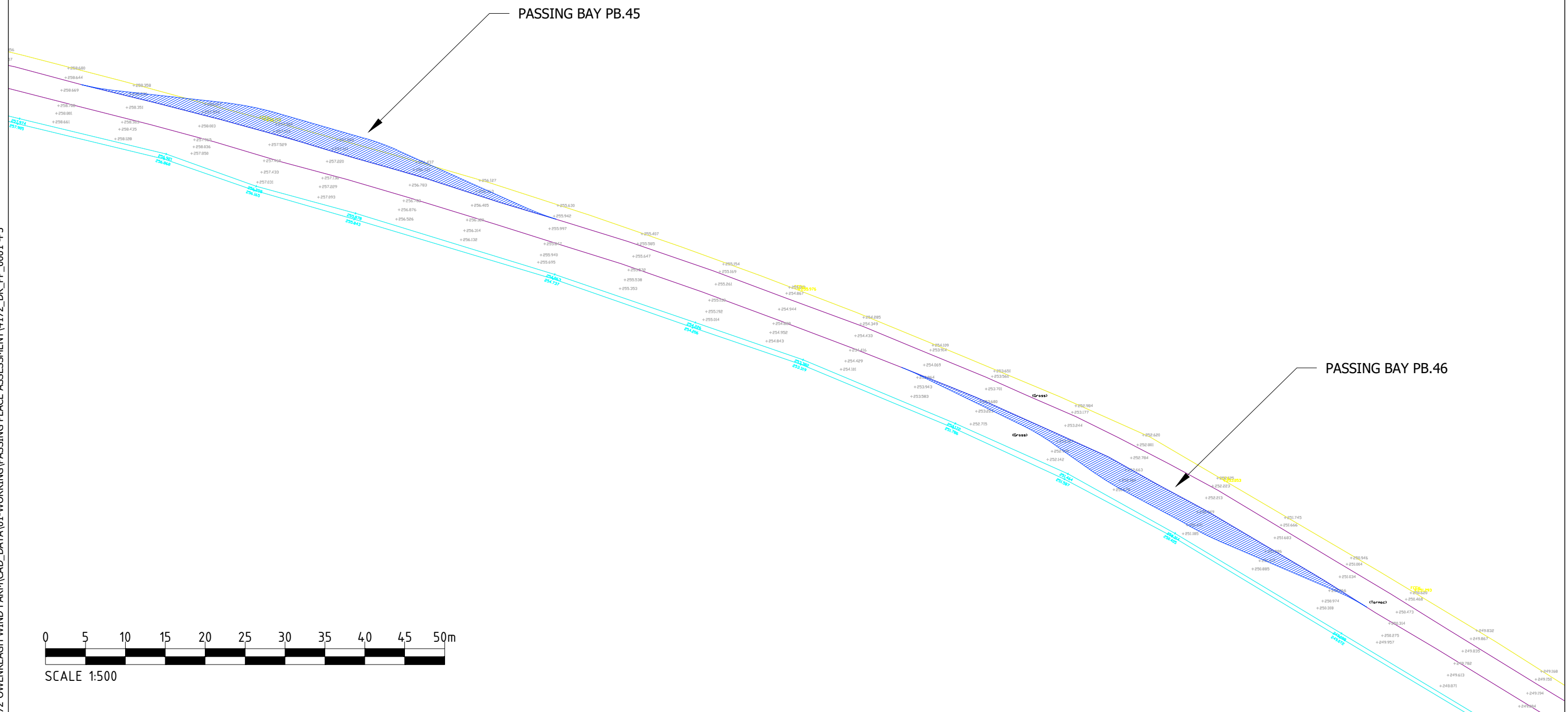


LEGEND

- AREA OF ROAD GREATER THAN 5.5m IN WIDTH
- PROPOSED PASSING BAY
- AREA OF ROAD TO BE WIDENED TO 5.5m IN WIDTH

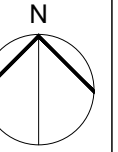
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1. PASSING BAYS HAVE BEEN DESIGNED FOR THE LARGEST GENERAL CONSTRUCTION VEHICLE EXPECTED TO ACCESS THE WIND FARM, WHICH IS A 16.5m ARTICULATED LORRY. PASSING BAYS ARE NOT LESS THAN 15m IN LENGTH;
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4. OPEN DRAINS BEHIND THE FENCE/HEDGE LINE WHICH ARE AFFECTED BY THE PROPOSED PASSING BAYS WILL BE PIPED TO THE SATISFACTION OF DFI RIVERS AGENCY.



Plot Date : 20 July 2023 10:50:29
File Name : Y:\PROJECTS\4172 OWENREAGH WIND FARM\CAD_DATA\01-WORKING\PASSING PLACE ASSESSMENT\4172_DR_PP_0001 -P3

Project Title OWENREAGH / CRAIGNAGAPPLE WIND FARM PASSING BAY DESIGN	Drawing Title FIGURE A13.5.2: SHEET 33 OF 39 PASSING BAY 45 & 46	Purpose of issue PRELIMINARY LAYOUT				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com	
		Designed KL	Drawn RC	Checked TAT	Approved TAT			
Client 		ERM Internal Project No. 4172		Date 18/07/23				
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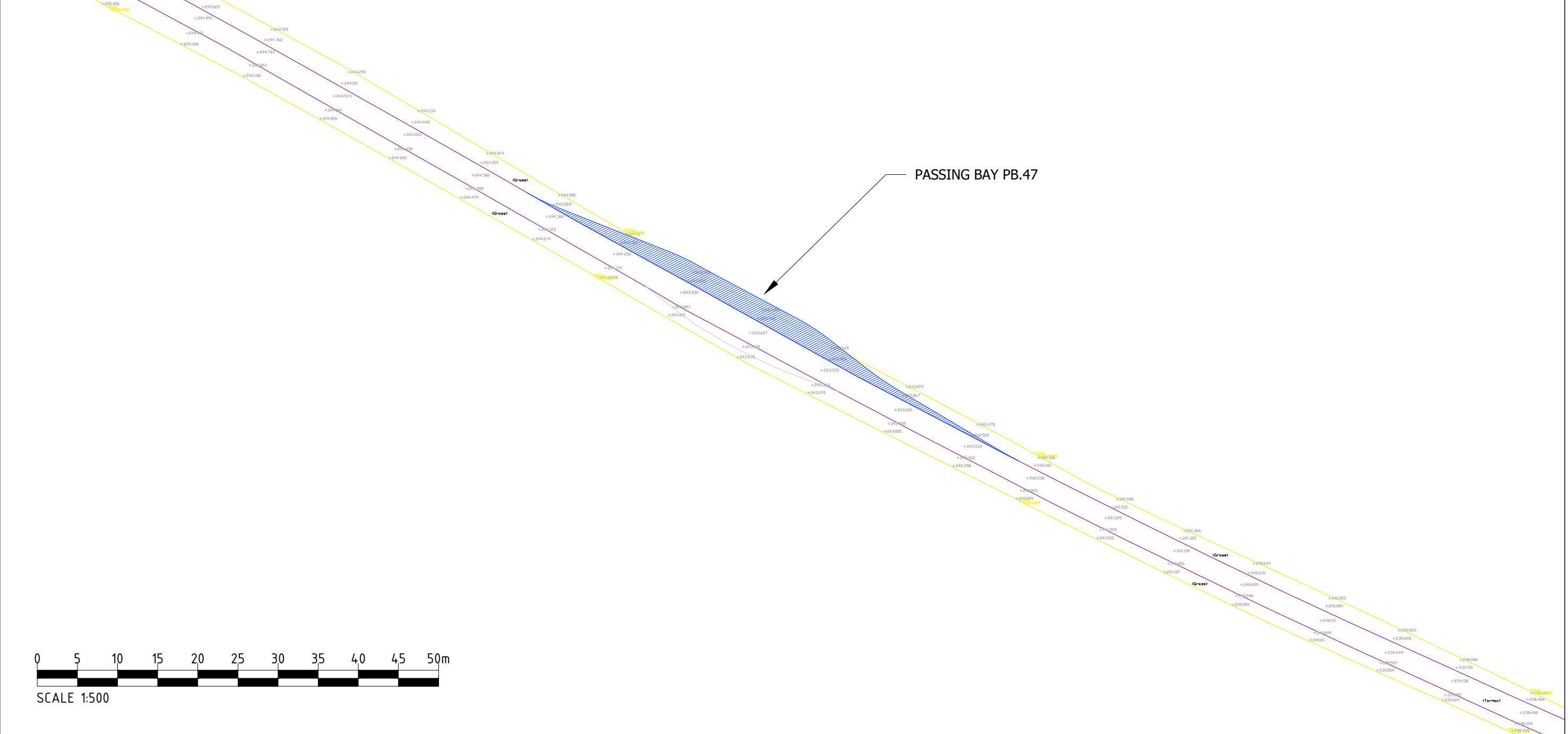


LEGEND

- AREA OF ROAD GREATER THAN 5.5m IN WIDTH
- PROPOSED PASSING BAY
- AREA OF ROAD TO BE WIDENED TO 5.5m IN WIDTH

NOTES:

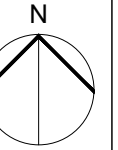
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4. OPEN DRAINS BEHIND THE FENCE/HEADLINE WHICH ARE AFFECTED BY THE PROPOSED PASSING BAYS WILL BE PIPED TO THE SATISFACTION OF DFI RIVERS AGENCY.



Plot Date : 20 July 2023 10:51:06
File Name : Y:\PROJECTS\4172 OWENREAGH WIND FARM\CAD_DATA\01-WORKING\PASSING PLACE ASSESSMENT\4172_DR_PP_0001 -P3

Project Title OWENREAGH / CRAIGNAGAPPLE WIND FARM PASSING BAY DESIGN	Drawing Title FIGURE A13.5.2: SHEET 34 OF 39 PASSING BAY 47	Purpose of issue PRELIMINARY LAYOUT				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com
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Client 		ERM Internal Project No. 4172		Date 18/07/23			
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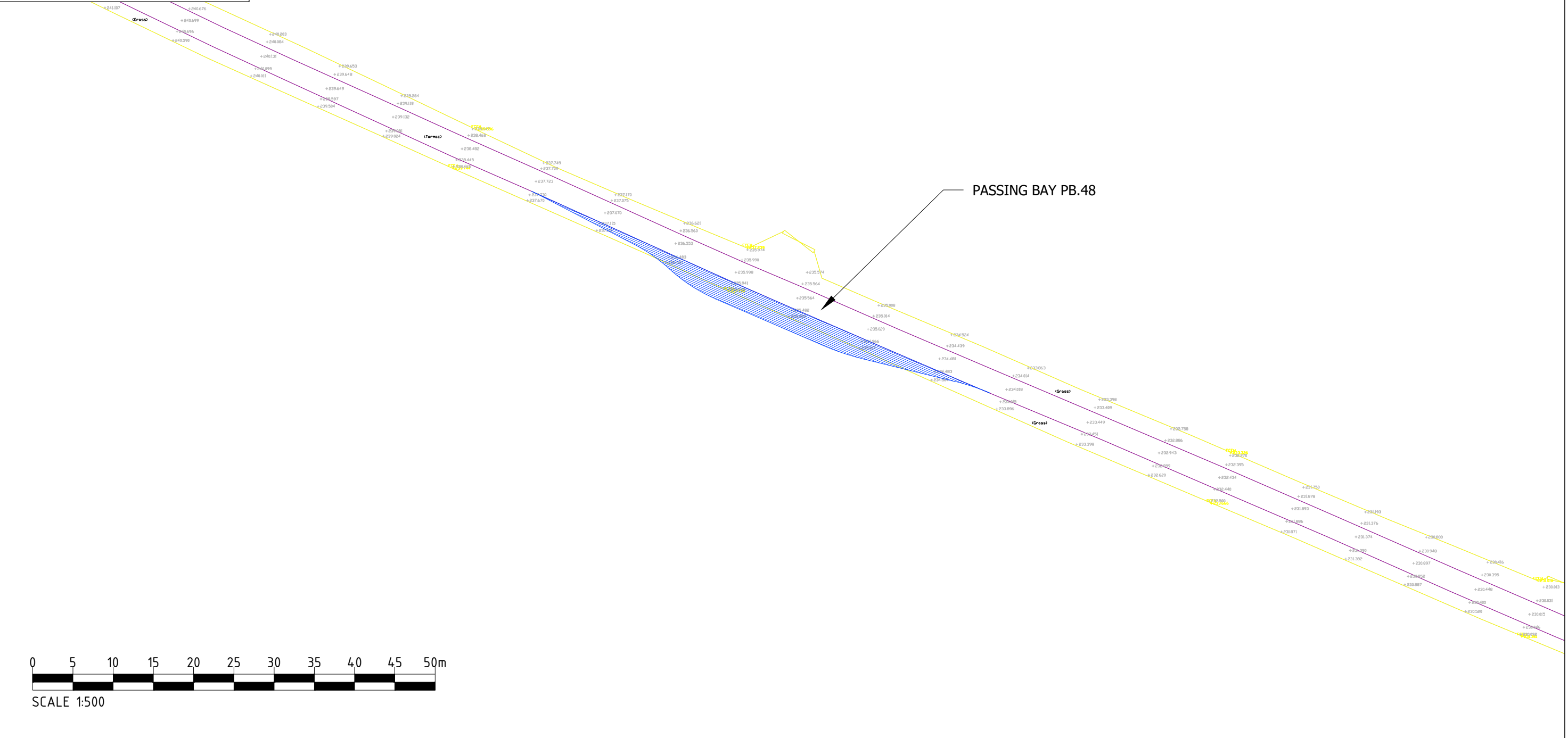


LEGEND

- AREA OF ROAD GREATER THAN 5.5m IN WIDTH
- PROPOSED PASSING BAY
- AREA OF ROAD TO BE WIDENED TO 5.5m IN WIDTH

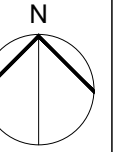
NOTES:

1. PASSING BAYS HAVE BEEN DESIGNED FOR THE LARGEST GENERAL CONSTRUCTION VEHICLE EXPECTED TO ACCESS THE WIND FARM, WHICH IS A 16.5m ARTICULATED LORRY. PASSING BAYS ARE NOT LESS THAN 15m IN LENGTH;
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Plot Date : 20 July 2023 10:51:38
File Name : Y:\PROJECTS\4172 OWENREAGH WIND FARM\CAD_DATA\01-WORKING\PASSING PLACE ASSESSMENT\4172_DR_PP_0001 -P3

Project Title OWENREAGH / CRAIGNAGAPPLE WIND FARM PASSING BAY DESIGN	Drawing Title FIGURE A13.5.2: SHEET 35 OF 39 PASSING BAY 48	Purpose of issue PRELIMINARY LAYOUT				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com	
		Designed KL	Drawn RC	Checked TAT	Approved TAT			
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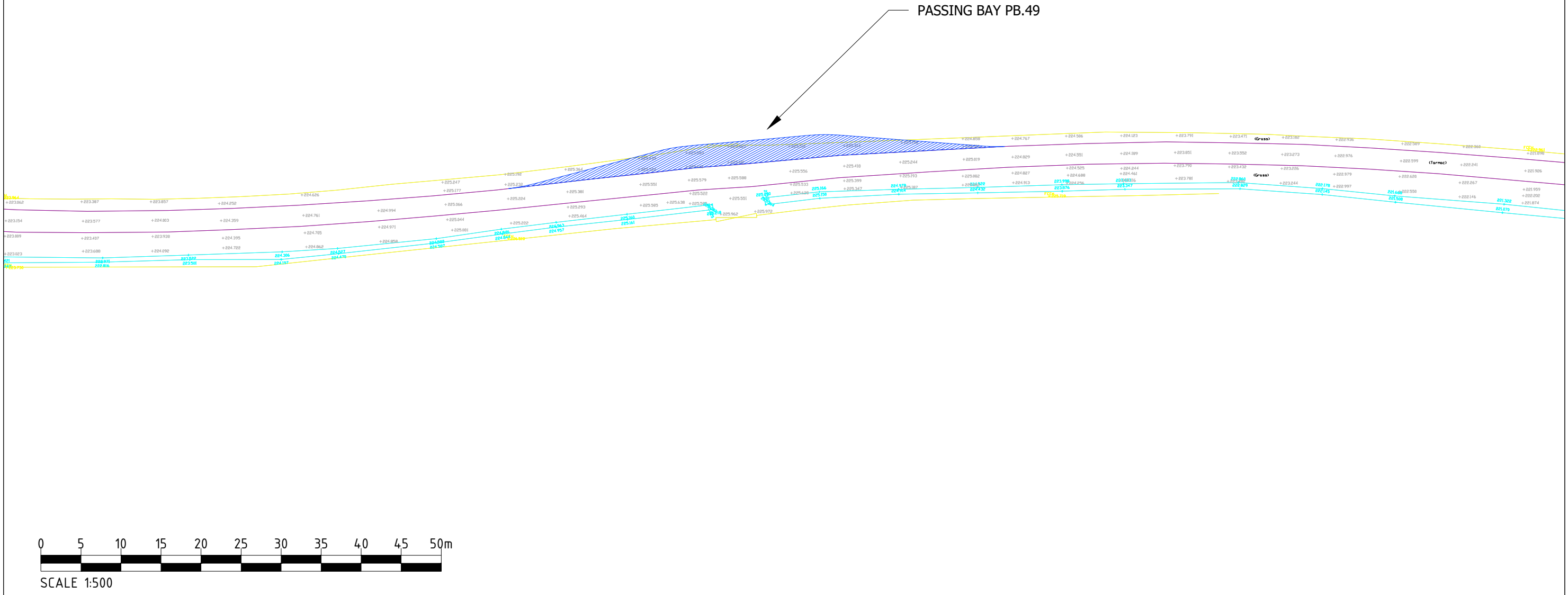
LEGEND

- AREA OF ROAD GREATER THAN 5.5m IN WIDTH
- PROPOSED PASSING BAY
- AREA OF ROAD TO BE WIDENED TO 5.5m IN WIDTH

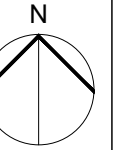
NOTES:

1. PASSING BAYS HAVE BEEN DESIGNED FOR THE LARGEST GENERAL CONSTRUCTION VEHICLE EXPECTED TO ACCESS THE WIND FARM, WHICH IS A 16.5m ARTICULATED LORRY. PASSING BAYS ARE NOT LESS THAN 15m IN LENGTH;
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Plot Date : 20 July 2023 10:52:02
File Name : Y:\PROJECTS\4172 OWENREAGH WIND FARM\CAD_DATA\01-WORKING\PASSING PLACE ASSESSMENT\4172_DR_PP_0001 -P3



Project Title OWENREAGH / CRAIGNAGAPPLE WIND FARM PASSING BAY DESIGN	Drawing Title FIGURE A13.5.2: SHEET 36 OF 39 PASSING BAY 49	Purpose of issue PRELIMINARY LAYOUT				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com	
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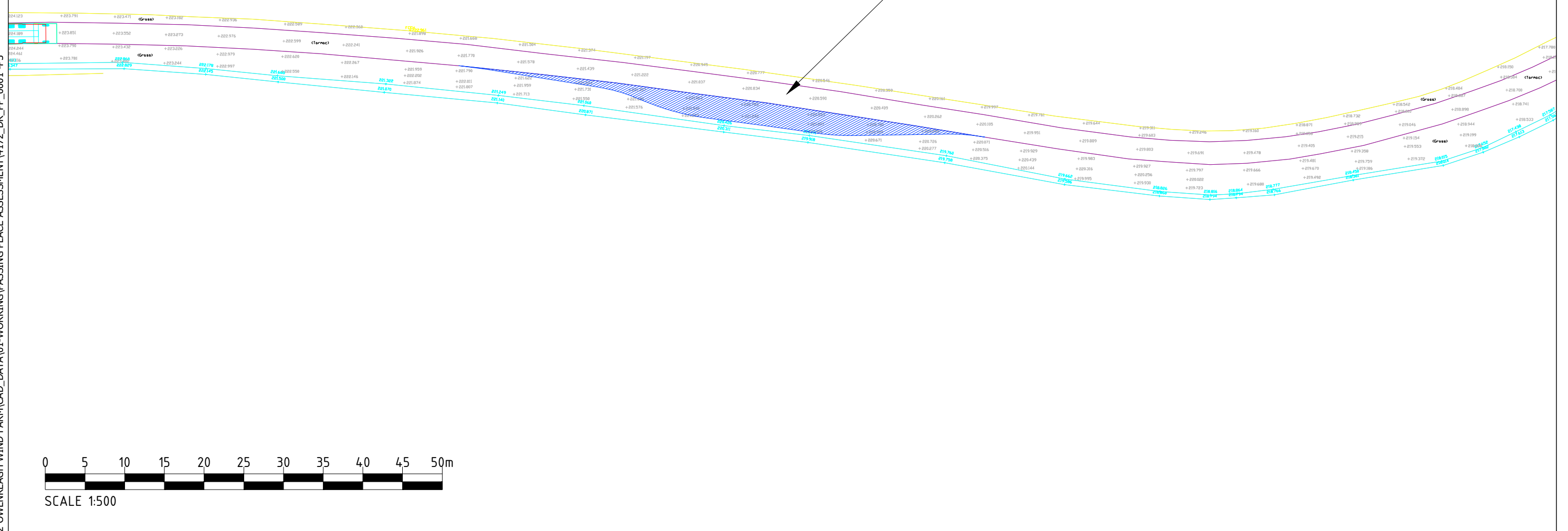


LEGEND

- AREA OF ROAD GREATER THAN 5.5m IN WIDTH
- PROPOSED PASSING BAY
- AREA OF ROAD TO BE WIDENED TO 5.5m IN WIDTH

NOTES:

1. PASSING BAYS HAVE BEEN DESIGNED FOR THE LARGEST GENERAL CONSTRUCTION VEHICLE EXPECTED TO ACCESS THE WIND FARM, WHICH IS A 16.5m ARTICULATED LORRY. PASSING BAYS ARE NOT LESS THAN 15m IN LENGTH;
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Plot Date : 20 July 2023 10:52:27
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Project Title OWENREAGH / CRAIGNAGAPPLE WIND FARM PASSING BAY DESIGN	Drawing Title FIGURE A13.5.2: SHEET 37 OF 39 PASSING BAY 50	Purpose of issue PRELIMINARY LAYOUT				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com	
		Designed KL	Drawn RC	Checked TAT	Approved TAT			
Client 		ERM Internal Project No. 4172		Date 18/07/23				
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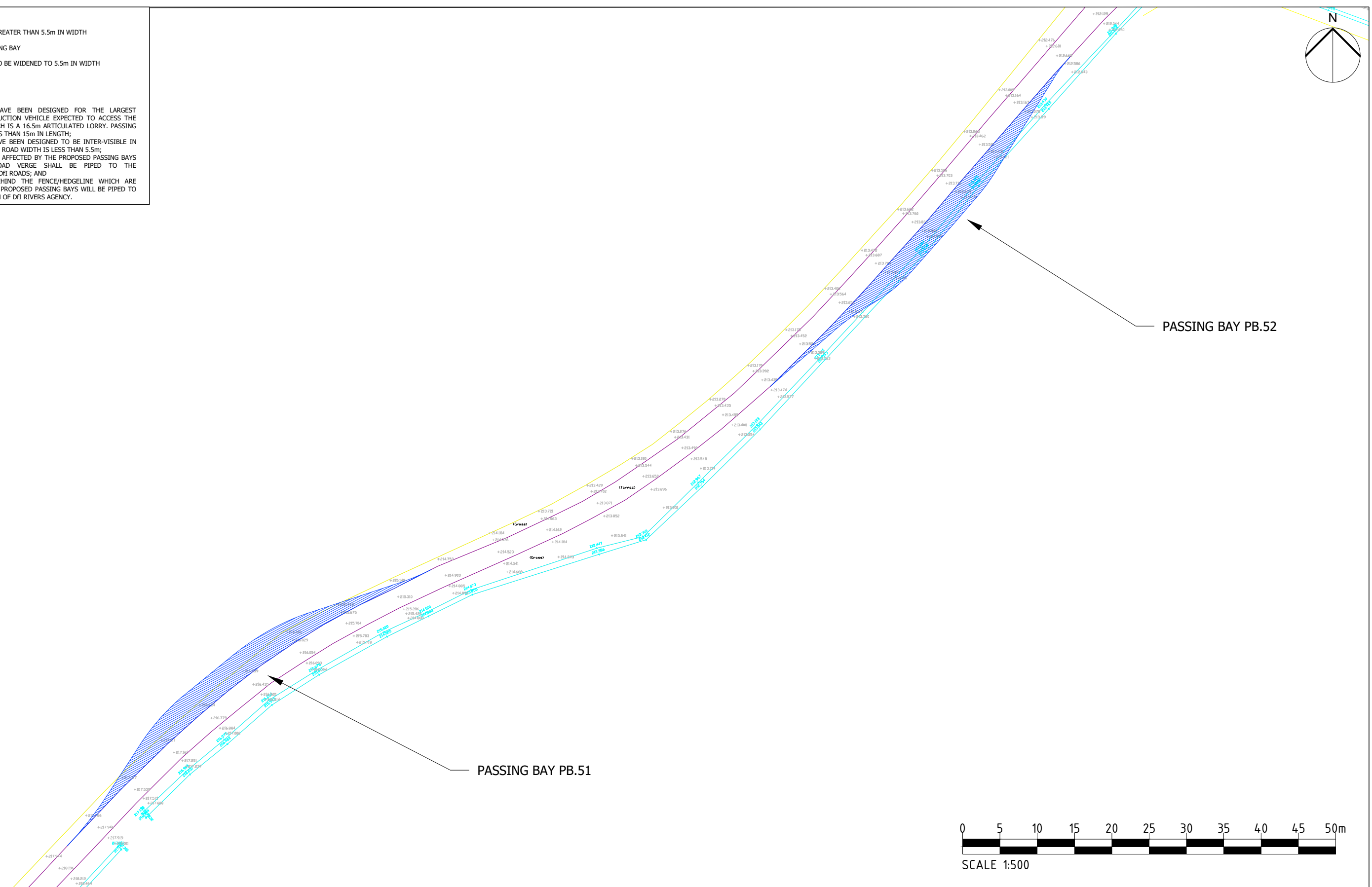
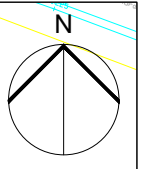
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LEGEND

- AREA OF ROAD GREATER THAN 5.5m IN WIDTH
- PROPOSED PASSING BAY
- AREA OF ROAD TO BE WIDENED TO 5.5m IN WIDTH

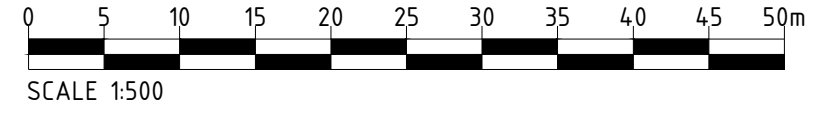
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PASSING BAY PB.52

PASSING BAY PB.51



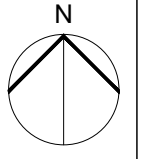
Project Title OWENREAGH / CRAIGNAGAPPLE WIND FARM PASSING BAY DESIGN	Drawing Title FIGURE A13.5.2: SHEET 38 OF 39 PASSING BAY 51 & 52	Purpose of issue PRELIMINARY LAYOUT				THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com	
		Designed KL	Drawn RC	Checked TAT	Approved TAT			
Client 		ERM Internal Project No. 4172		Date 18/07/23				
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LEGEND

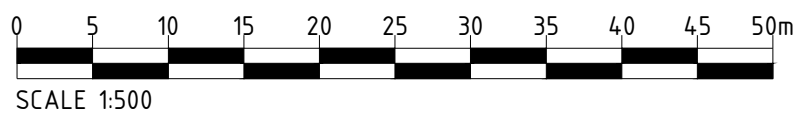
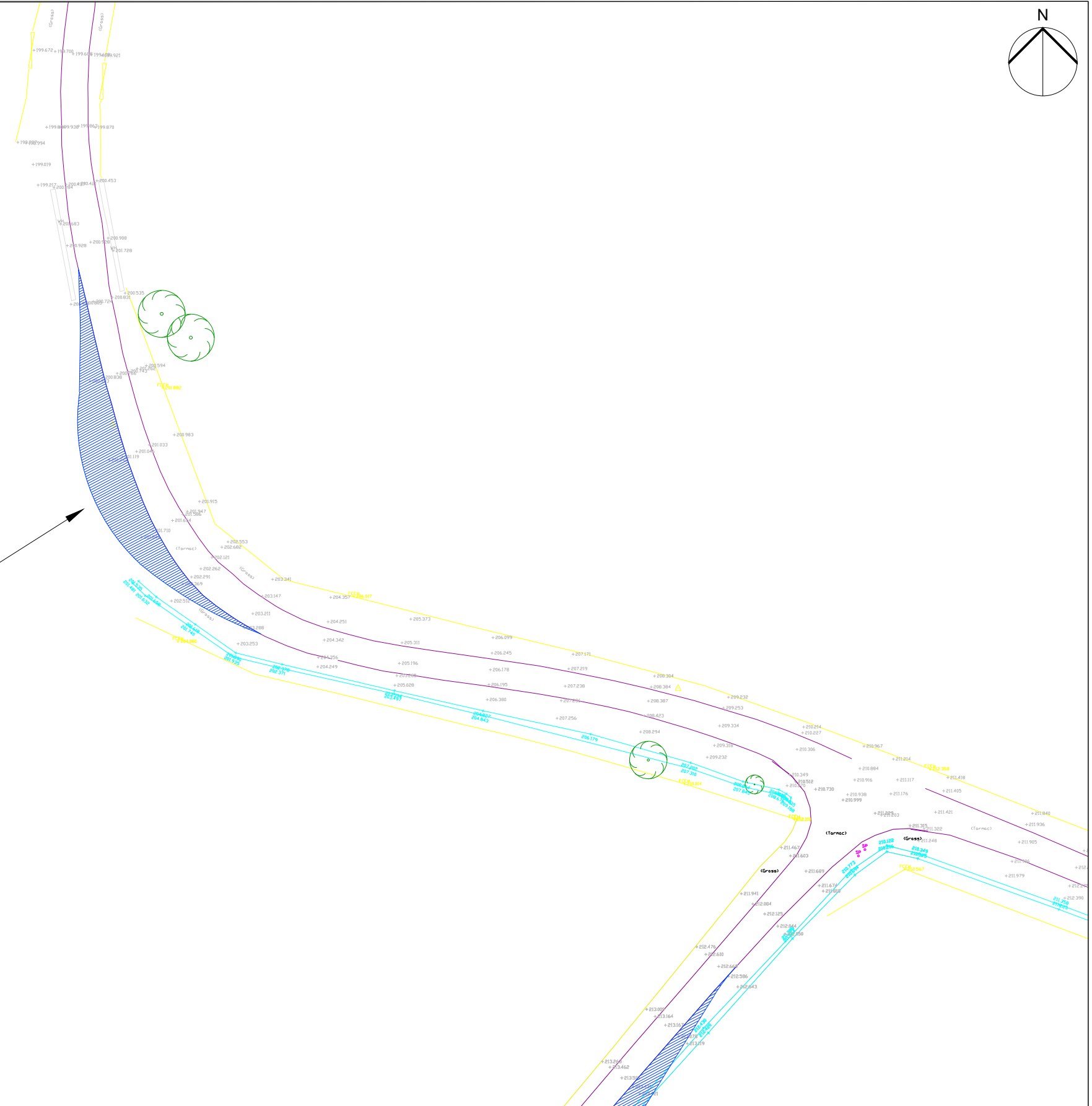
- AREA OF ROAD GREATER THAN 5.5m IN WIDTH
- PROPOSED PASSING BAY
- AREA OF ROAD TO BE WIDENED TO 5.5m IN WIDTH

NOTES:

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PASSING BAY PB.53

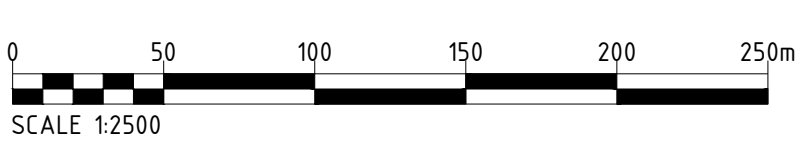
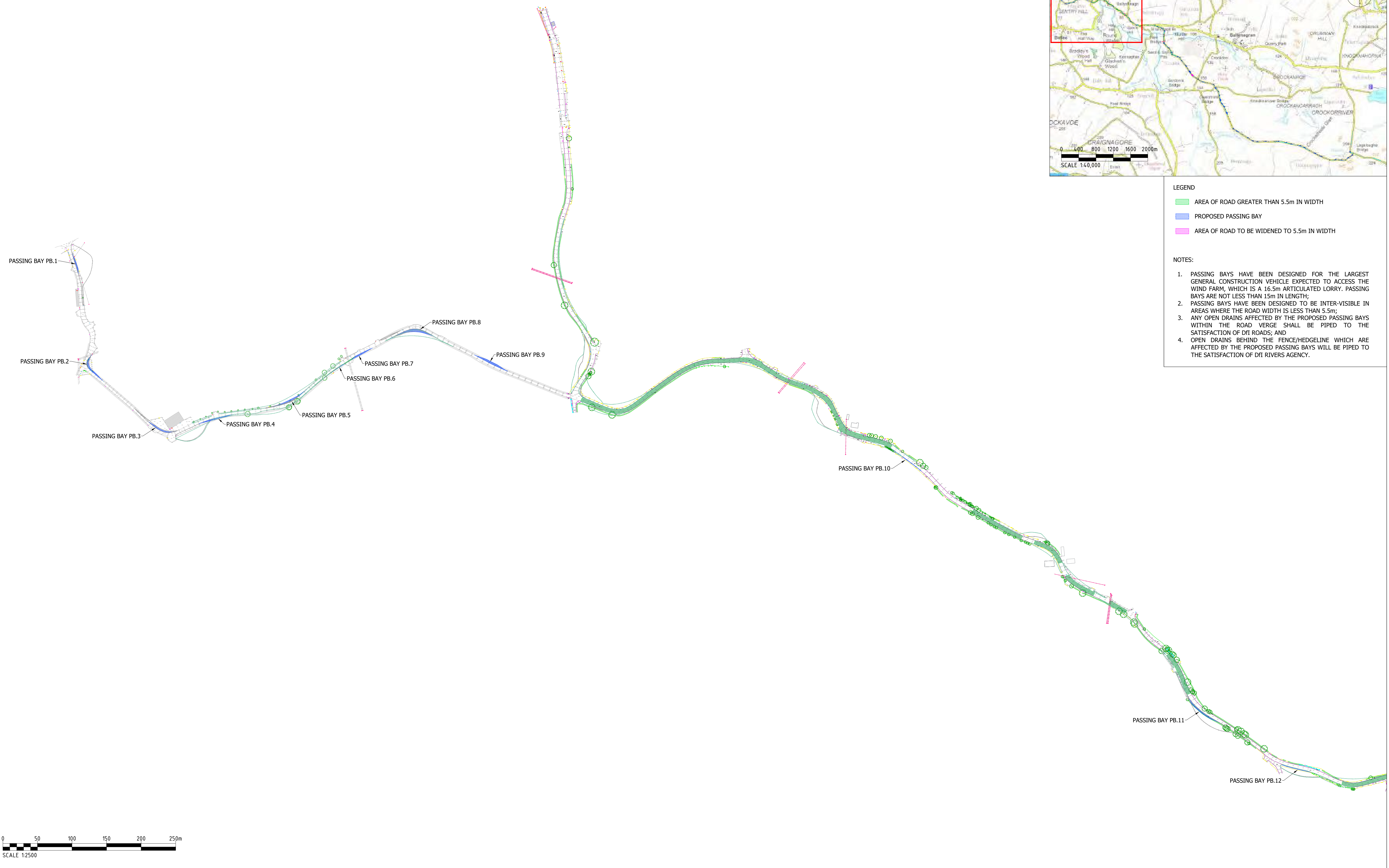


Plot Date : 20 July 2023 10:53:19
File Name : Y:\PROJECTS\4172 OWENREAGH WIND FARM\CAD_DATA\01-WORKING\PASSING PLACE ASSESSMENT\4172_DR_PP_0001 -P3

<p>Project Title OWENREAGH / CRAIGNAGAPPLE WIND FARM PASSING BAY DESIGN</p>		<p>Drawing Title FIGURE A13.5.2: SHEET 39 OF 39 PASSING BAY 53</p>		<p>Purpose of issue PRELIMINARY LAYOUT</p>		<p>THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERM'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED</p>		<p>Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com</p>													
<p>Client </p>		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Designed KL</td> <td style="width: 50%;">Drawn RC</td> <td style="width: 50%;">Checked TAT</td> <td style="width: 50%;">Approved TAT</td> </tr> <tr> <td colspan="2">ERM Internal Project No. 4172</td> <td colspan="2">Date 18/07/23</td> </tr> <tr> <td colspan="4">Scale @ A3 1:500</td> </tr> </table>		Designed KL	Drawn RC	Checked TAT	Approved TAT	ERM Internal Project No. 4172		Date 18/07/23		Scale @ A3 1:500				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Drawing Number 4172_DR_PP_0001</td> <td style="width: 50%;">Rev -</td> </tr> </table>		Drawing Number 4172_DR_PP_0001	Rev -		
Designed KL	Drawn RC	Checked TAT	Approved TAT																		
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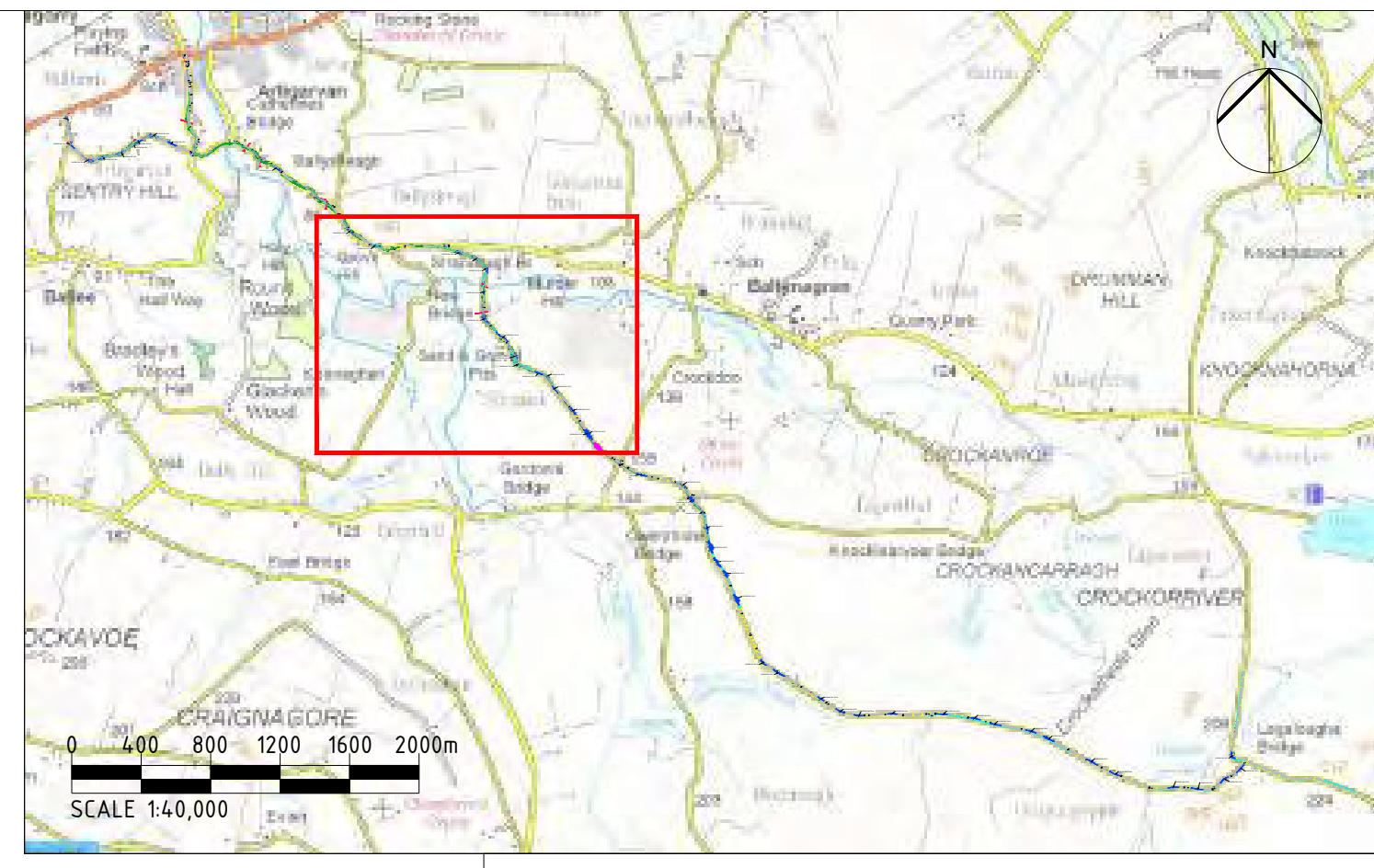


- LEGEND**
- AREA OF ROAD GREATER THAN 5.5m IN WIDTH
 - PROPOSED PASSING BAY
 - AREA OF ROAD TO BE WIDENED TO 5.5m IN WIDTH
- NOTES:**
1. PASSING BAYS HAVE BEEN DESIGNED FOR THE LARGEST GENERAL CONSTRUCTION VEHICLE EXPECTED TO ACCESS THE WIND FARM, WHICH IS A 16.5m ARTICULATED LORRY. PASSING BAYS ARE NOT LESS THAN 15m IN LENGTH;
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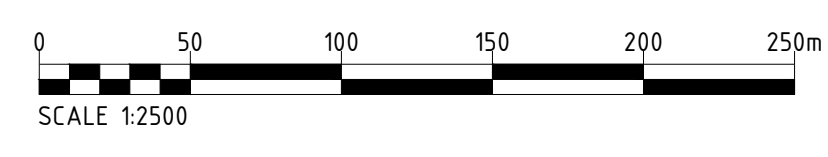


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		Client PRELIMINARY LAYOUT THIS DRAWING IS TO BE USED ONLY FOR THE PURPOSE OF ISSUE THAT IT WAS ISSUED FOR AND IS SUBJECT TO AMENDMENT. SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION BOX	NOTES 1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DOCUMENTATION. 2. DO NOT SCALE FROM THIS DRAWING. USE ONLY PRINTED DIMENSIONS. 3. ALL DIMENSIONS, CHAINAGES, LEVELS AND COORDINATES ARE IN METRES UNLESS DEFINED OTHERWISE. 4. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE PROJECT HEALTH & SAFETY FILE FOR ANY IDENTIFIED POTENTIAL RISKS.	Project Title OWENREAGH/CRAIGNAGAPPLE WIND FARM PASSING BAY DESIGN	Drawing Title FIGURE A13.5.1: SHEET 1 OF 5 PASSING BAY OVERVIEW	Designed KL ERM Internal Project No. 4172 Scale @ A1 AS SHOWN	Drawn RC	Checked FO Date 19/07/23	Approved TAT	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com	
Revision Details By Check Date Rev						THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ERMS APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ERM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED.				Drawing Number 4172_DR_PP_0002	Rev -

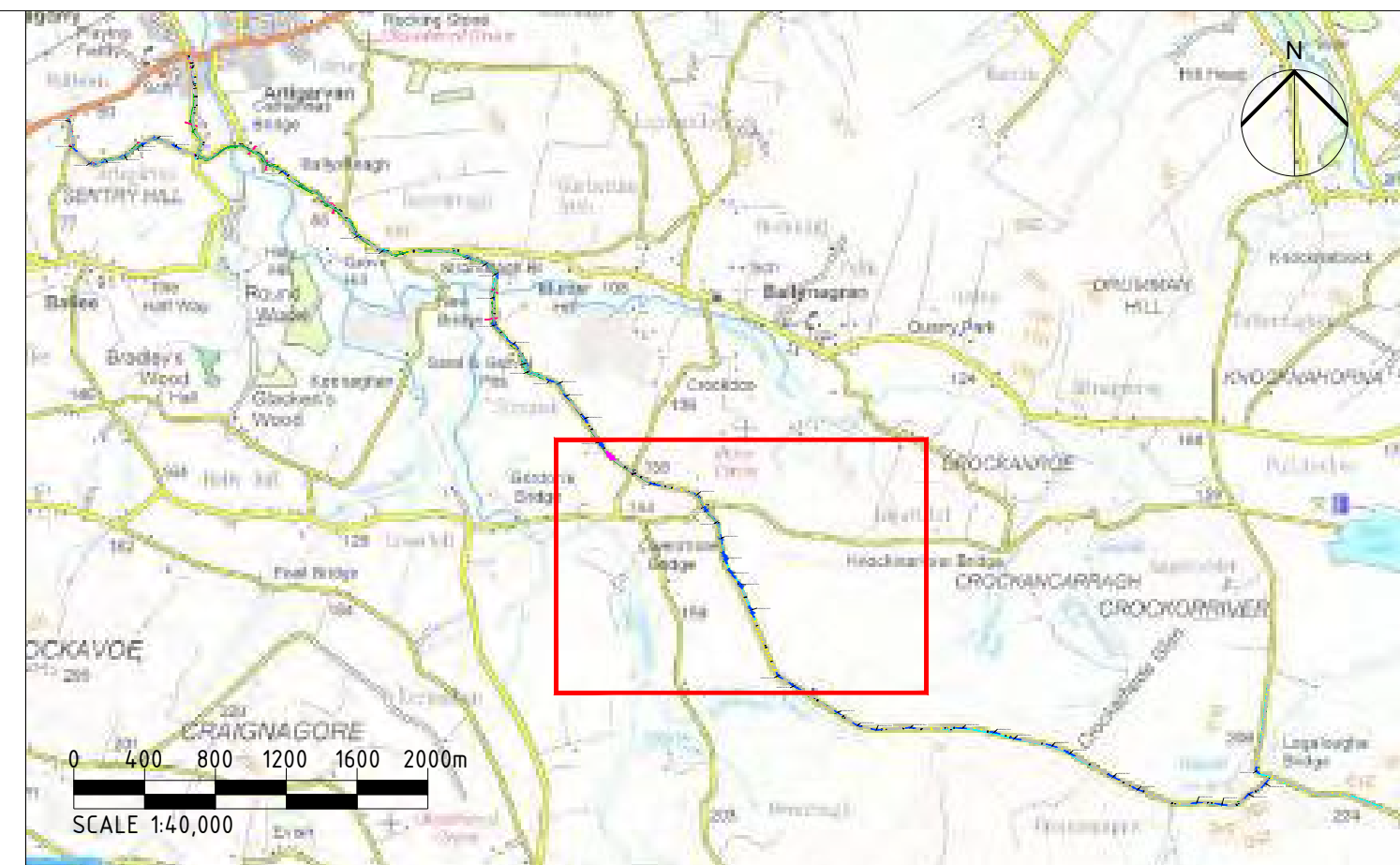
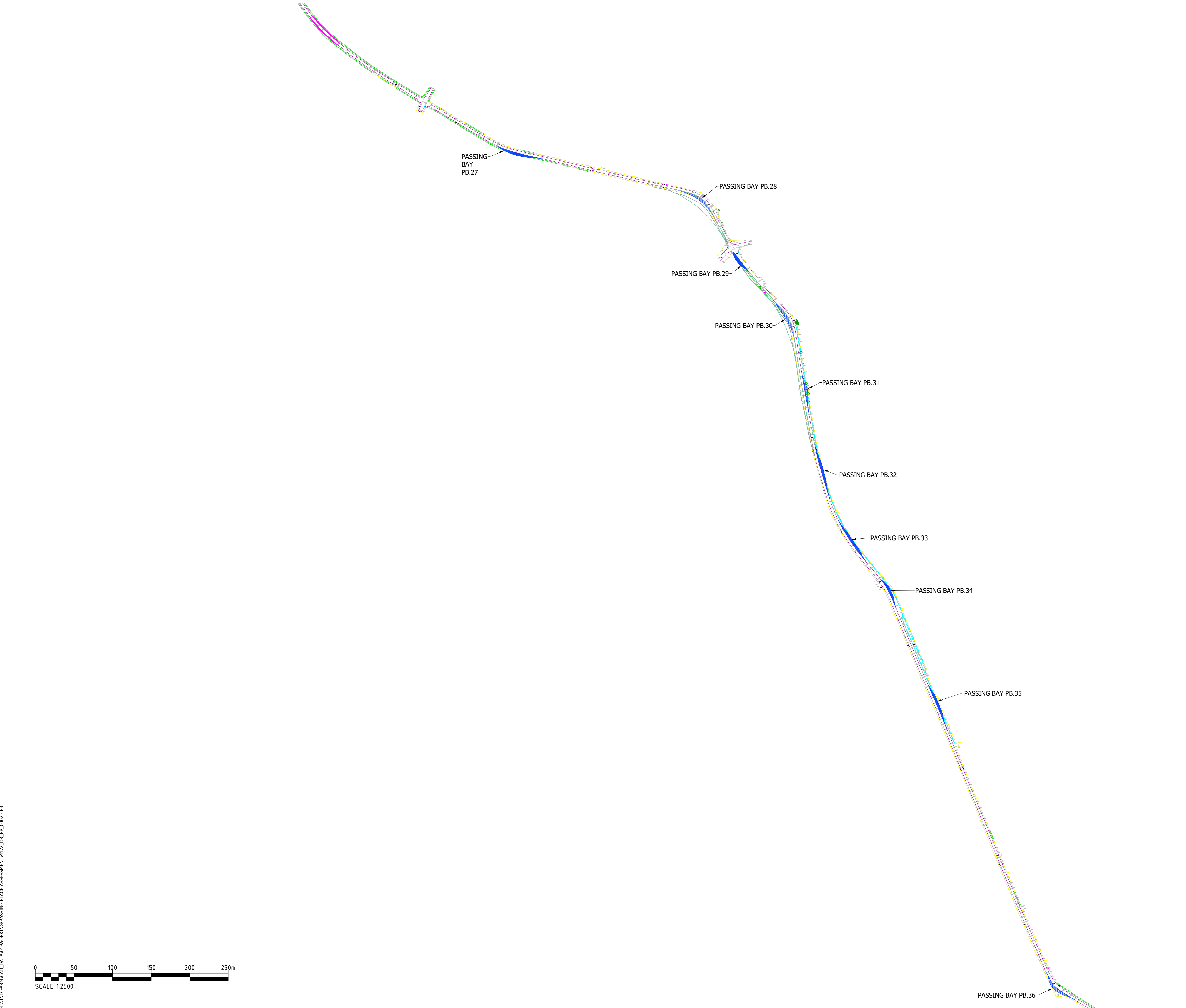


- LEGEND**
- █ AREA OF ROAD GREATER THAN 5.5m IN WIDTH
 - █ PROPOSED PASSING BAY
 - █ AREA OF ROAD TO BE WIDENED TO 5.5m IN WIDTH
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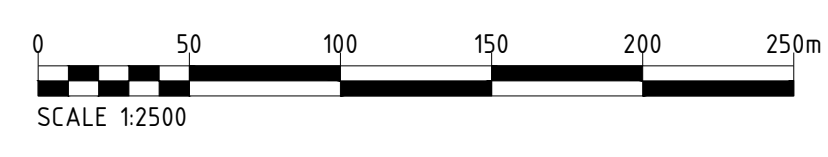


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		Client PRELIMINARY LAYOUT <small>THIS DRAWING IS TO BE USED ONLY FOR THE PURPOSE OF ISSUE THAT IT WAS ISSUED FOR AND IS SUBJECT TO AMENDMENT.</small> SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION BOX	NOTES 1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DOCUMENTATION. 2. DO NOT SCALE FROM THIS DRAWING. USE ONLY PRINTED DIMENSIONS. 3. ALL DIMENSIONS, CHANGES, LEVELS AND COORDINATES ARE IN METRES UNLESS DEFINED OTHERWISE. 4. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE PROJECT HEALTH & SAFETY FILE FOR ANY IDENTIFIED POTENTIAL RISKS.	Project Title OWENREAGH/CRAIGNAGAPPLE WIND FARM PASSING BAY DESIGN	Drawing Title FIGURE A13.5.1: SHEET 2 OF 5 PASSING BAY OVERVIEW	Designed KL <small>ERM Internal Project No. 4172</small> Scale @ A1 AS SHOWN	Drawn CR	Checked FO Date 19/07/23	Approved TAT	Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com									
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By	Check	Date	Rev																

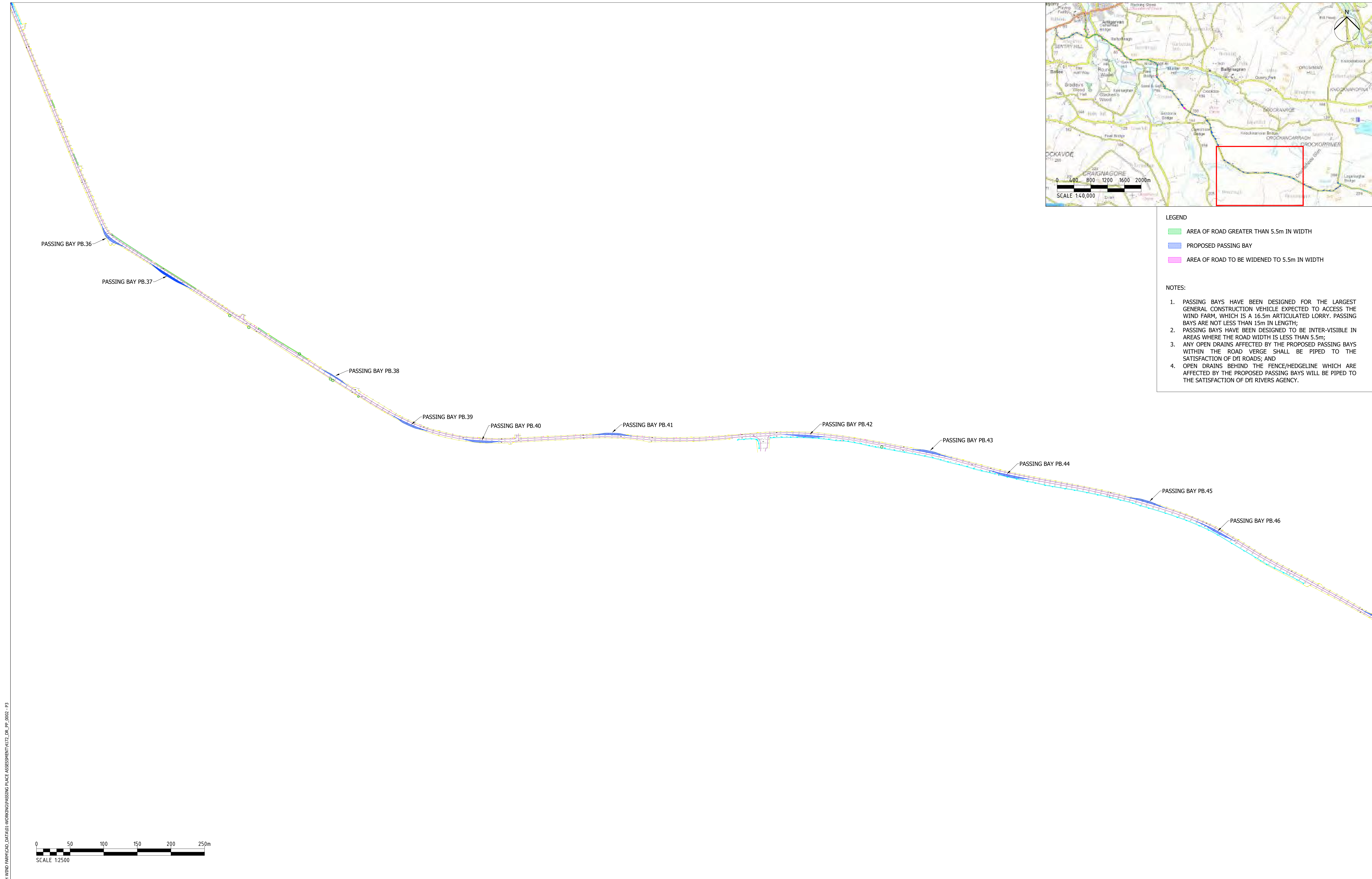


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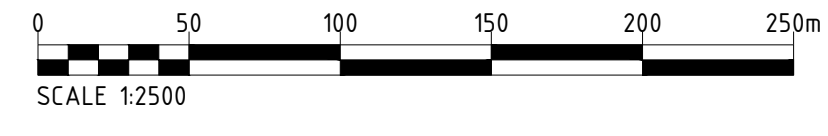
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		Purpose of issue PRELIMINARY LAYOUT <small>THIS DRAWING IS TO BE USED ONLY FOR THE PURPOSE OF ISSUE THAT IT WAS ISSUED FOR AND IS SUBJECT TO AMENDMENT.</small> SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION BOX	NOTES 1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DOCUMENTATION. 2. DO NOT SCALE FROM THIS DRAWING. USE ONLY PRINTED DIMENSIONS. 3. ALL DIMENSIONS, CHAINAGES, LEVELS AND COORDINATES ARE IN METRES UNLESS DEFINED OTHERWISE. 4. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE PROJECT HEALTH & SAFETY FILE FOR ANY IDENTIFIED POTENTIAL RISKS.	Project Title OWENREAGH/CRAIGNAGAPPLE WIND FARM PASSING BAY DESIGN	Drawing Title FIGURE A13.5.1: SHEET 3 OF 5 PASSING BAY OVERVIEW	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Designed KL</td> <td>Drawn CR</td> <td>Checked FO</td> <td>Approved TAT</td> </tr> <tr> <td colspan="2">ERM Internal Project No. 4172</td> <td colspan="2" style="text-align: center;">Date 20/07/23</td> </tr> <tr> <td colspan="4">Scale @ A1 AS SHOWN</td> </tr> </table>	Designed KL	Drawn CR	Checked FO	Approved TAT	ERM Internal Project No. 4172		Date 20/07/23		Scale @ A1 AS SHOWN				Environmental Resources Management (ERM) 6th Floor 102 West Port Edinburgh, EH3 9DN Tel: +44 131 221 6750 www.erm.com
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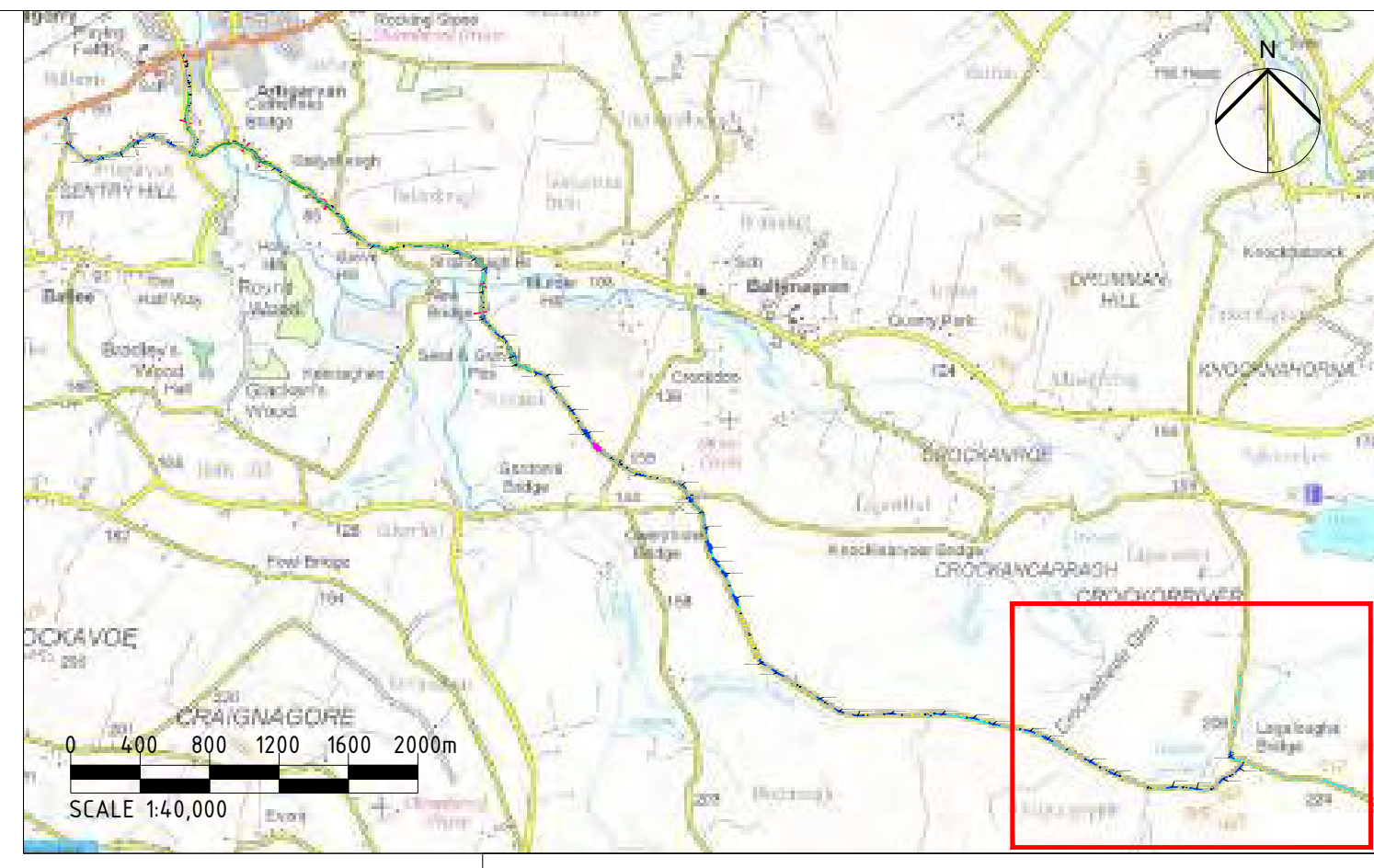


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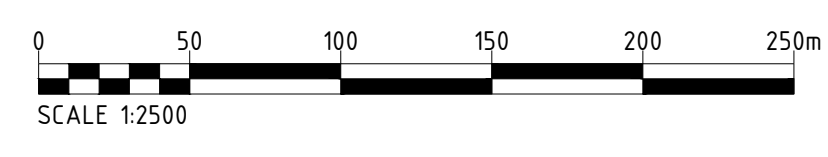
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Revision Details		By Check	Date	Rev								

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