Annex B Route Survey Report

Pell Frischmann

Creachan Wind Farm

Abnormal Indivisible Load Route Survey

August 2025

10109151

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1 Introduction

1.1 Purpose of the Report

Pell Frischmann Consultants Ltd. (PF) has been commissioned by RWE Renewables UK Onshore Wind Ltd. (RWE) to undertake a route access review of potential delivery routes for wind turbine Abnormal Indivisible Loads (AIL) associated with the construction and development of Creachan Wind Farm, located 13 km northwest of Alness, and approximately 3.5 km north of Loch Morie in The Highland Council (THC) administrative area.

The Route Survey Report (RSR) has been prepared to help inform RWE on the likely issues associated with the development of the site with regards to off-site transport and access for AIL traffic. The report identifies the key issues associated with AIL deliveries and notes that remedial works, either in the form of physical works or as traffic management interventions will be required to accommodate the predicted loads.

The detailed assessment and subsequent designs of any remedial works are beyond the agreed scope of works between PF and RWE at this point in time.

It is the responsibility of the wind turbine supplier to ensure that the entirety of the proposed access route is suitable and meets with their satisfaction (depending upon contract). The supplier will be responsible for ensuring that the finalised proposals meet with the appropriate levels of health and safety consideration for all road users and are in line with the relevant legislation at the time of delivery.

2 Site Background

2.1 Site Location

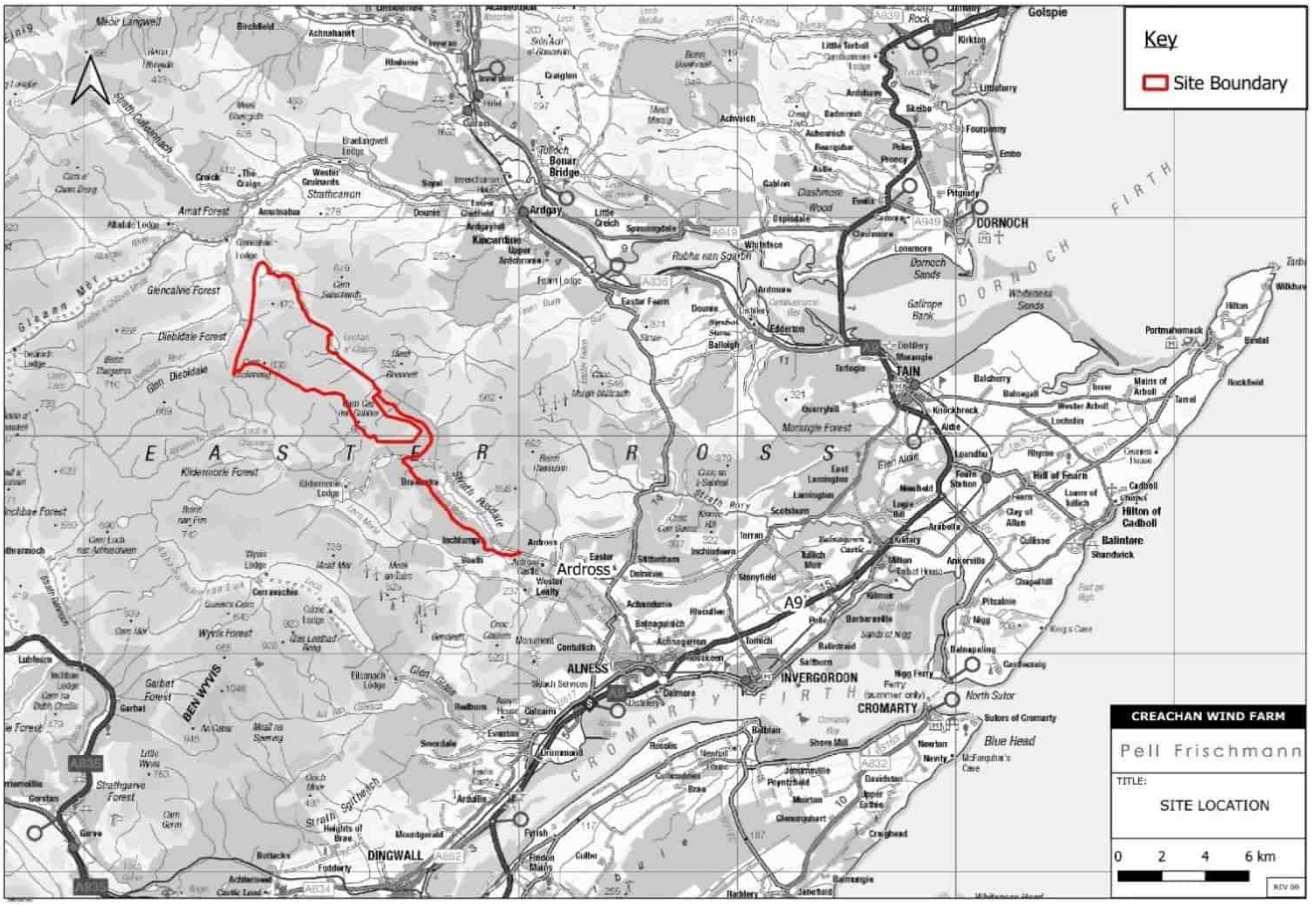
The proposed site is located approximately 13 km northwest of Alness, and approximately 3.5 km north of Loch Morie.

The site is approximately 2,558 hectares (ha) in size; however, the proposed Wind Turbine Zone (WTZ) would occupy approximately 814.9 ha of the site. The existing forestry track is approximately 12 km long and will be upgraded as part of this proposed development.

The majority of the site is open moorland with some mountainous areas to the north. Elevations range across the site from approximately 340 m above ordnance datum (AOD) to 838 m AOD at Carn Chuinneag in the northwest.

Figure 2-1 illustrates the general site location.

Figure 2-1: Site Location Plan



2.2 Proposed Development

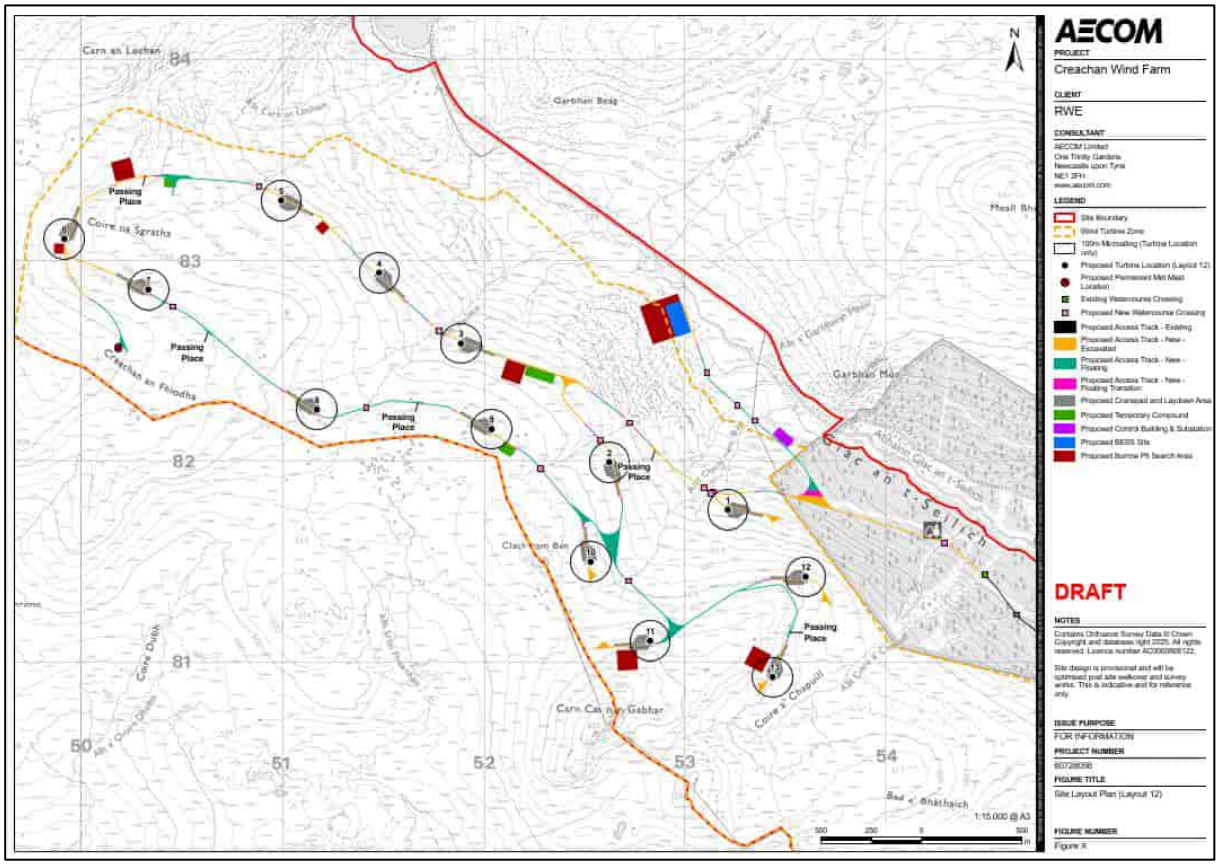
The site will comprise the construction and operation of up to 13 wind turbines and a battery storage facility. The primary access would be provided via the existing 12 km forestry track (off the U1907 Strath Rusdale Road), which will need to be improved, realigned and extended (as required).

The main elements of the site are likely to comprise:

- Up to 13 wind turbines with a blade tip height of between 180 m to 200 m;
- Turbine foundations;
- Access tracks connecting infrastructure elements;
- Hard standing areas, e.g., crane pads and construction compounds;
- Micro-siting allowance for all proposed infrastructure of up to 100 m;
- An operational life of 35 years;
- Temporary working areas, e.g., construction compounds;
- Electrical substation, control building and electrical cabling between this and all turbines;
- A battery energy storage system (BESS);
- Watercourse crossings;
- A permanent anemometer mast including associated foundations and hardstanding;
- Upgrade and extension to existing forestry track and new/upgraded watercourse crossings (if / where required);
- Borrow pit(s) search areas;
- A temporary concrete batching plant area;
- Habitat Management Areas; and
- Off-site works to facilitate the movement of abnormal loads (construction of over-run areas and temporary modifications to street furniture etc).

The proposed site layout is shown in **Figure 2-2**.

Figure 2-2: Proposed Site Layout



2.3 Access Arrangements

The site will be accessed from the A9 to the southeast and then via an existing access junction on the U1907 (Strath Rusdale Road), which will be upgraded to accommodate both general construction traffic and AIL traffic.

The likely Port of Entry (PoE) used for the discharging of wind turbine components will be the Port of Nigg, utilising sections of proven AIL routes used during the construction of other wind farms in the area.

2.4 Candidate Turbine

RWE have indicated that they wish to consider the worst-case components from the Nordex N163 and Siemens SG170 turbines at a tip height of 200 m. It is also noted that turbines smaller in size may be considered and therefore worst-case tower dimensions should be accounted for.

The details of the components have been provided by the turbine manufacturers and the assessed components are detailed in **Tables 2-1** and **2-2**.

Table 2-1: SG170 Turbine Components Summary

Component	Length [m]	Width [m]	Height / Min Diameter [m]
SG170 Blade	83.330	4.660	4.320
Base Tower	13.274	4.700	4.700
Mid Tower 1	18.200	4.700	4.485
Mid Tower 2	22.960	4.485	4.490
Mid Tower 3	28.000	4.490	4.490
Top Tower	29.970	4.490	3.503

Table 2-2: N163 Turbine Components Summary

Component	Length [m]	Width [m]	Height / Min Diameter [m]
N163 Blade	79.750	4.395	4.110
Base Tower	11.561	4.300	4.292
Mid Tower 1	16.430	4.292	4.286
Mid Tower 2	21.125	4.286	4.279
Mid Tower 3	29.972	4.279	4.268
Top Tower	35.000	4.268	3.258

To provide a worst-case scenario, the SG170 blade and a 30 m x 4.8 m x 4.8 m tower envelope have been assessed as candidate turbine selection is subject to change.

2.5 Proposed Delivery Equipment

To provide a robust assessment scenario based upon the known issues along the access route, it has been assumed that SG170 blades would be carried on a dolly clamp trailer and N163 blades would be carried on a Super Wing Carrier (SWC). The worst-case blade component is therefore the SG170 loaded onto the dolly clamp trailer, shown in **Figure 2-2**.

Figure 2-3: Dolly Clamp Trailer



Where constraints are significant, blade loads would be transferred onto a Goldhofer (or similar) blade lifter, shown in **Figure 2-3**. This trailer has the ability to lift blades up to a maximum angle of 60 degrees, lifting blades over potential constraints and shortening the length in plan view.

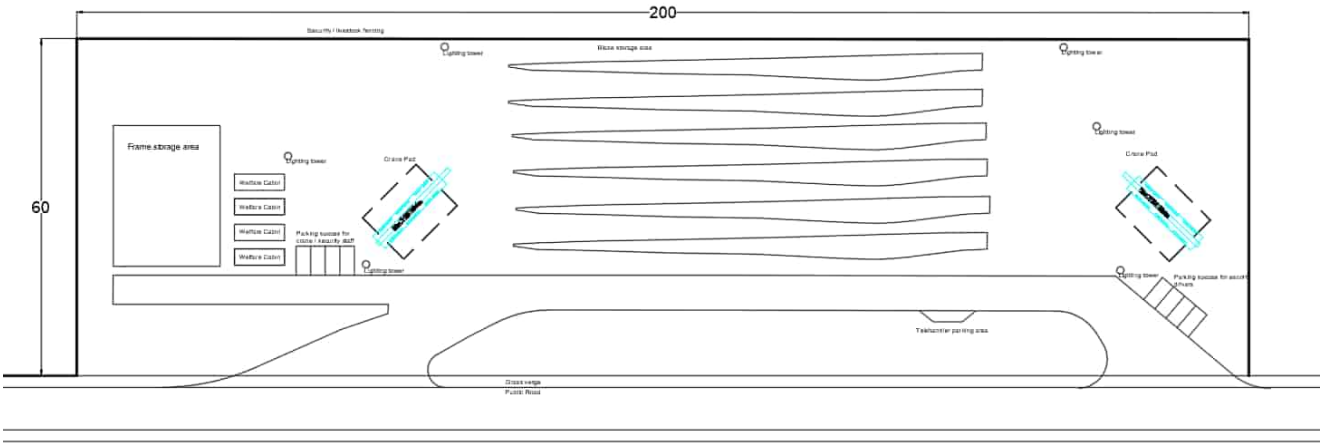
Figure 2-4: Blade Lifter



To undertake the transfer between trailers, a blade transfer area will need to be constructed. The area of land required will need to be circa 200 m x 60 m and will need to include two access junctions and two crane pads. Storage for up to six blades should also be available with all infrastructure designed in accordance with turbine supplier standards.

The location of the transfer points is dependent upon RWE agreeing a suitable land option. Details of an indicative transfer station are provided in **Figure 2-4**.

Figure 2-5: Indicative Blade Transfer Station



The base and mid towers would be carried on a 4+7 clamp trailer, shown in **Figure 2-5**. The assessment has been carried out considerate of the mid tower with the base tower flange. The hub, nacelle housing, and top towers would be carried on a six-axle step frame trailer.

Figure 2-6: Tower Clamp Trailer



These configurations are subject to confirmation by the chosen haulier at the time of their commissioning. As the loads are classified as Special Order, due to a rigid length in excess of 30 m, a full Police Escort would be required along the full length of the route.

3 Access Route Review

3.1 Port of Entry

The proposed POE is the Port of Nigg, located in Ross-shire. This is the nearest most suitable port to the development site and as such in line with the Government's "Water Preferred" policy towards AIL movements.

Nigg has been used for renewables deliveries in the past for a number of wind farms and is therefore well-proven as being capable of dealing with AILs of the size considered in this RSR.

The port has sufficient quay and storage spaces and is well located for the strategic trunk road network. The layout of the port is shown in **Figure 3-1**.

Figure 3-1: Port of Nigg Layout



Source: https://www.rivieramm.com/news-content-hub/news-content-hub/nigg-jacket-deal-completes-onshore-cluster-plan-for-moray-east-55142

3.2 Proposed Access Route

An extensive survey has been undertaken from the POE to the point of access identified as the site entrance point. This survey was carried out by a two person team, using video capture along the entire length of the delivery route. Any areas considered to require a detailed assessment were marked with a Global Positioning Survey (GPS) waypoint and comments recorded detailing the nature of the concern.

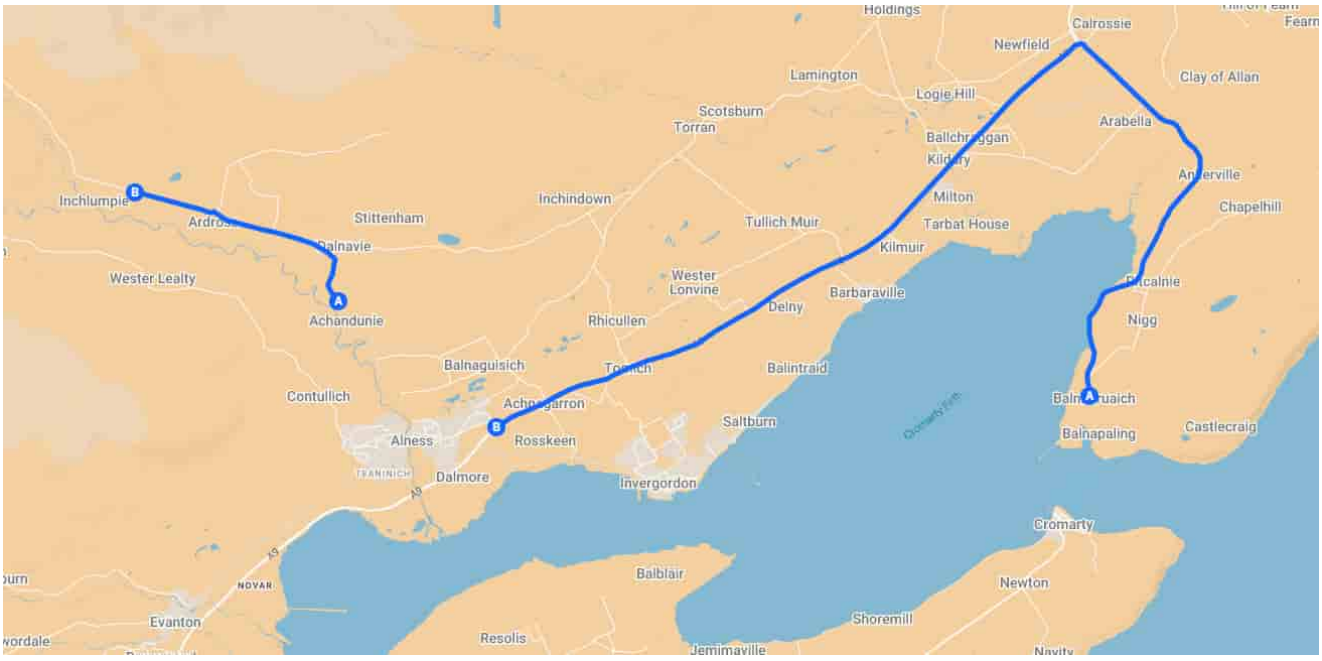
Plans detailing the location of the GPS Points of Interest (POI) where further assessment has been carried out are contained within **Appendix A**.

3.2.1 Shared Route

The proposed access route to the development site for both Blade and Tower loads is detailed below:

- Loads would depart the port and join the B9175 northbound;
- Loads would take the first exit at Nigg Roundabout to join the A9 heading southwest;
- The blade and tower loads would exit the A9 at two separate locations as shown in **Figures 3-3** and **3-4**;
- Blade and tower loads would converge at Ardross Road / B9176, Achandunie;
- Loads would then travel north on the B9176;
- Loads would turn left at the B9176 / Pillars Road Junction, Dalnavie to head northwest;
- Loads would continue northwest via Ardross and turn left into the proposed access junction heading towards Inchlumpie.

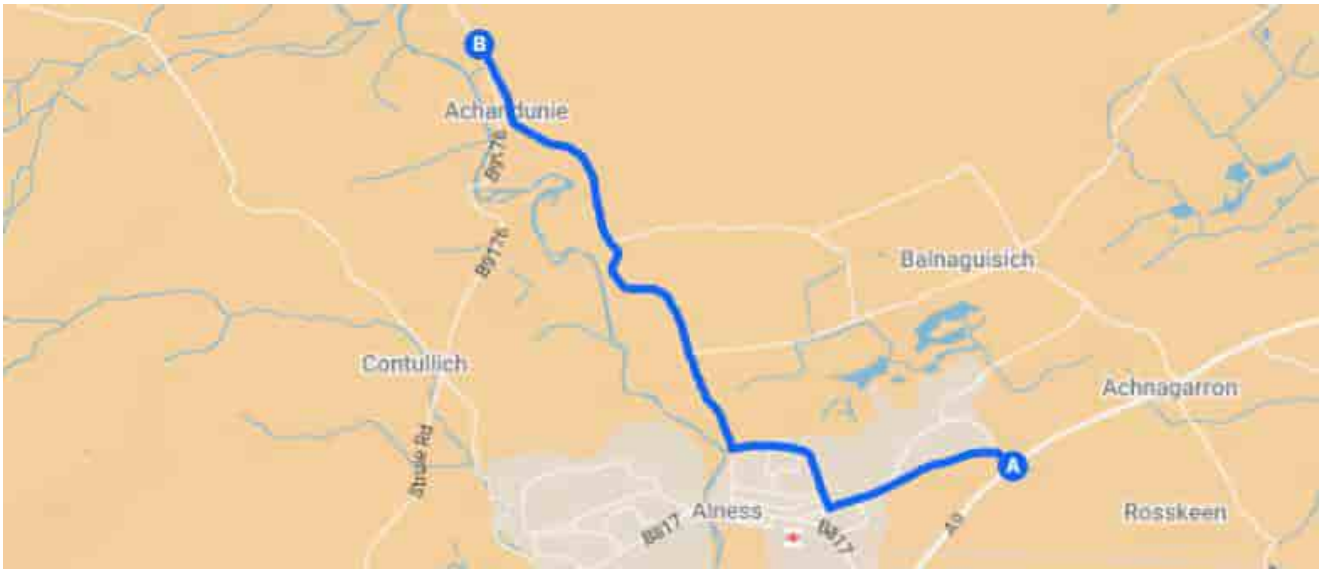
Figure 3-2: Proposed Shared Access Route



3.2.2 Blade Only Route

- Blade loads will exit the A9 at the Obsdale Road junction and then take the next left heading southwest on Obsdale Road;
- Blade loads would then turn right onto Caplich Road heading northwest;
- Blade loads would then turn right onto Ardross Road heading north;
- Blade loads would converge with the tower loads at the Ardross Road / B9176 junction, Achandunie and proceed to the access junction as shown in **Figure 3-2**.

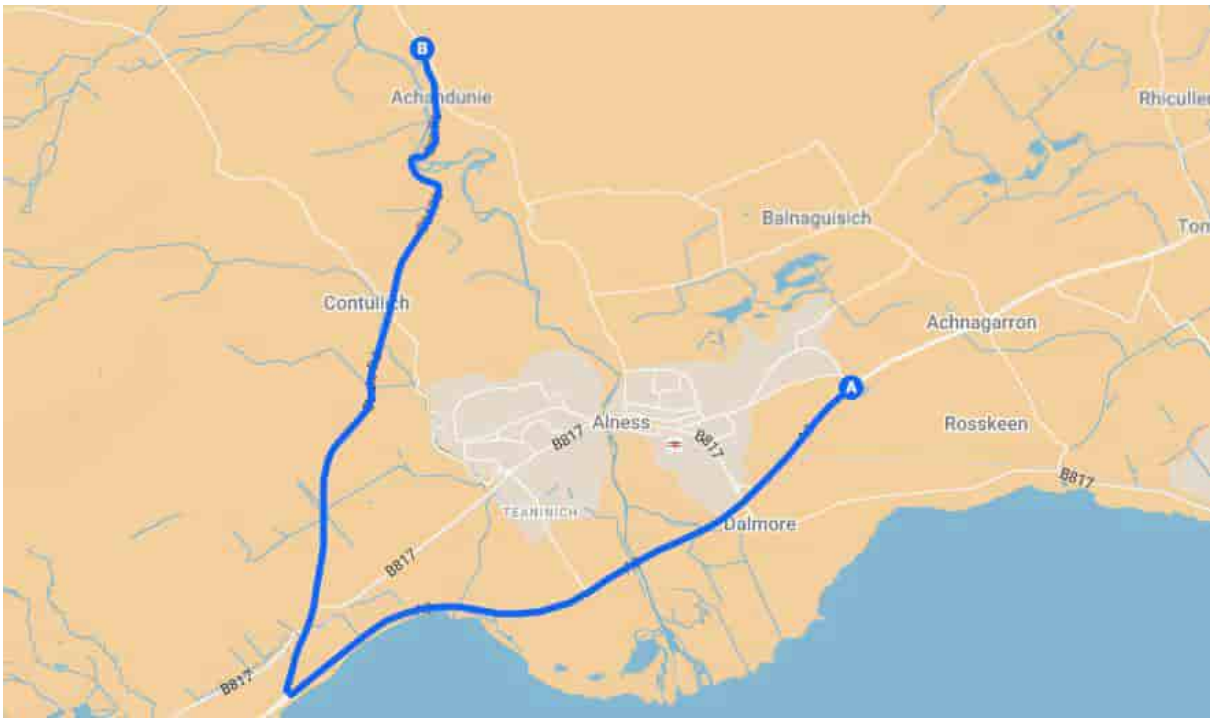
Figure 3-3: Proposed Blade Only Access Route



3.2.3 Tower Only Route

- Tower loads would exit the A9 at the B9176 junction heading northeast;
- Tower loads would converge with the blade loads at the Ardross Road / B9176 junction, Achandunie and proceed to the access junction as shown in **Figure 3-2**.

Figure 3-4: Proposed Tower Only Access Route



The onsite route is detailed in a separate document that should be read in conjunction with this report.

Other access routes were considered, though these had a number of significant constraints and did not present any real advantages over the route assessed in this report.

Figure 3-5: Proposed Forestry Track Route



3.3 Route Constraints

The constraints noted on the routes are provided in **Tables 3-1** to **3-4**. These cover all constraints from the port access gates through to the offline access junction. No consideration of the transport issues within the development site have been undertaken as part of this commission.

Where the blade lifter is utilised, all overhead utilities and trees should be cleared. Unless stated otherwise, the blade is assumed to be in the raised position. However, along straight sections of route the blade may be lowered to avoid overhead constraints.

Plans illustrating the location of the constraints are provided in **Appendix A**.

3.3.1 Shared Route Part 1

Table 3-1: Shared Route Part 1 Constraint Points and Details (Dolly Clamp Trailer and Tower Clamp Trailer)

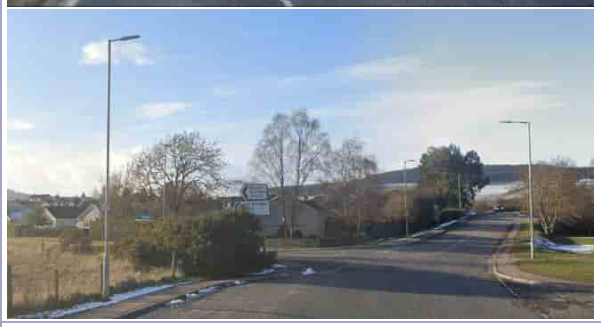
POI	Key Constraint	Details
1	**Exit from Port of Nigg**  	Loads will travel northbound through storage area before entering the Port of Nigg car park. Loads will then exit the Port of Nigg and turn left to join the B9175 northbound. A swept path assessment has been carried out and indicates that loads will travel across a storage area and car park within the Port of Nigg compound. The port authority should be consulted prior to deliveries to ensure that the storage area is kept clear and parking should be suspended during deliveries. A section of fence should be removed between the storage area and car park. Loads will overrun and oversail the central splitter island when turning left onto B9175. An existing area of load bearing surface is to be utilised and extended. Reprofiling works required. Trees and vegetation to be cleared. Section of chain link fence and posts to be removed. Loads will oversail the western verge to the inside of the turn with no physical mitigation measures required. Loads will also oversail the eastern verge on exit from the junction. Reprofiling works required. Load bearing surface to be laid. Vegetation to be cleared. Swept path assessment drawing no. SK01 included in **Appendix B**.
2	**B9175 Mount Canisp** 	Loads will continue on the B9175 northbound. It is recommended that a full overhead utility search is carried out along the route prior to deliveries to ensure that height clearances are suitable for normal temperature ranges. A swept path assessment has been undertaken and indicates that loads will oversail both verges through this location with no physical mitigation measures required. Swept path assessment drawing no. SK02 included in **Appendix B**.
3	**B9175 Lower Pitcalzean** 	Loads will continue on the B9175 northbound. A swept path assessment has been undertaken and indicates that loads will oversail both verges through this location with no physical mitigation measures required. Swept path assessment drawing no. SK03 included in **Appendix B**.

POI	Key Constraint	Details
4	**B9175 West of Nigg House** 	Loads will continue on the B9175 northbound. A swept path assessment has been undertaken and indicates that loads will oversail both verges through this location with no physical mitigation measures required. Swept path assessment drawing no. SK04 included in **Appendix B**.
5	**B9175 Northwest of Nigg House** 	Loads will continue on the B9175 northbound. A swept path assessment has been undertaken and indicates that loads will oversail both verges through this location with no physical mitigation measures required. Swept path assessment drawing no. SK05 included in **Appendix B**.
6	**B9175 Pitcalnie** 	Loads will continue on the B9175 northbound. A swept path assessment has been undertaken and indicates that loads will oversail the western verge where two road signs should be removed from the first left-hand bend. Swept path assessment drawing no. SK06 included in **Appendix B**.
7	**B9175 Ankerville** 	Loads will continue on the B9175 heading northwest. A swept path assessment has been undertaken and indicates that loads will oversail the northeastern verge through this location where trees should be trimmed. Swept path assessment drawing no. SK07 included in **Appendix B**.
8	**B9175 Arabella Bends** 	Loads will continue on the B9175 northbound through a series of bends at Arabella. A swept path assessment has been undertaken and indicates that loads will oversail both verges through the bends where vegetation and trees should be trimmed in the northeastern verge through the right-hand bend. Six bollards will be oversailed. Swept path assessment drawing no. SK08 included in **Appendix B**.

POI	Key Constraint	Details
9	**WCK-39-550 Nigg level crossing** 	Loads will continue on B9175 northbound and cross WCK-39-550 Nigg level crossing. Contact with Network Rail will be required during deliveries to ensure that the convoy does not pass the level crossing when rail services (passenger and freight) are timed to cross the road.
10	**B9175 / A9 Nigg Roundabout**  	Loads will take the first exit at Nigg Roundabout to join A9 westbound. A swept path assessment has been undertaken and indicates that loads will overrun and oversail both verges of the entry arm where load bearing surfaces should be laid. Two lighting columns and one road sign should be removed from the southwestern verge. Parking should be suspended during movements. Loads will overrun the central island where a load bearing surface should be laid. One set of lit chevron signs should be removed, and vegetation should be cleared. Loads will also overrun and oversail the exit arm splitter island where a load bearing surface should be laid and one road sign and two bollards should be removed. Loads will oversail the southern verge of the exit arm with no physical mitigation measures required. Swept path assessment drawing no. SK09 included in **Appendix B**.
Blade Transfer Location A blade transfer location should be provided on third party land located to the east of where blade loads exit the A9. This is to ensure that a suitable location can be identified prior to the constraints present on the remainder of the route. For blade movements, all overhead lines (OHL) from the location of the blade transfer station to the development site will need to be re-routed or placed underground, unless otherwise noted. All overhead tree canopies and obstacles will need to be cleared. The tree canopy should be trimmed to ensure that there is a 5 m clear head height. Trimming works can be subject to ecological time constraints and early engagement with the relevant authority is recommended. It is assumed that the blade will be carried in the raised position from this location unless stated otherwise. The exact location of the transfer station will be dependent upon a land deal that RWE will need to obtain. As such, no exact location has yet been identified.		

3.3.2 Blade Only Route

Table 3-2: Blade Only Route Constraint Points and Details (Blade Lifter)

POI	Key Constraint	Details
11,12	**A9 / Obsdale Road Junction**  	Loads will turn right to exit the A9 onto Obsdale Road and then take the next left to continue southwest on Obsdale Road. A swept path assessment has been undertaken and indicates that loads will oversail the southeastern verge of the A9 on entry to the right-hand turn with no physical mitigation measures required. Loads will oversail the northern verge to the inside of the turn where one road sign should be removed. Loads will also overrun and oversail the junction splitter island. A load bearing surface should be laid. One road sign and two bollards should be removed. The blade tip will oversail the trees, one lit road sign and one lighting column in the eastern verge on approach to the second junction. Loads will also oversail the southern verge on exit from the junction. One road sign and one lighting column should be removed. Vegetation should be trimmed. Swept path assessment drawing no. SK10 included in **Appendix B**.
13	**Obsdale Road / Caplich Road Junction** 	Loads will turn right from Obsdale Road onto Caplich Road heading northwest. A swept path assessment has been undertaken and indicates that the blade tip will oversail a section of wall and one road sign in the southern footway on approach to the junction and beyond assumed highway limits. **Third party land** required. Loads will overrun and oversail the footway to the inside of the turn and beyond assumed highway limits. **Third party land** required. Load bearing surface to be laid. Trees to be trimmed. Loads will also overrun and oversail the western footway on exit from the turn. Load bearing surface to be laid. Two raised planting beds should be removed. Parking restrictions required. Topographical survey recommended to confirm the exact mitigation measures required at this location. Land searches recommended to confirm extent of adopted highway. Swept path assessment drawing no. SK11 included in **Appendix B**.
14	**Left Bend, Caplich Road** 	Loads will continue on Caplich Road around a left-hand bend. A swept path assessment has been undertaken and indicates that blade loads will oversail one lighting column and vegetation in the northeastern verge. Swept path assessment drawing no. SK12 included in **Appendix B**.

POI	Key Constraint	Details
15	**Caplich Road / Ardross Road Junction** 	Loads will turn right at the junction to join Ardross Road heading northwest. A swept path assessment has been undertaken and indicates that the blade would oversail one road sign, one utility pole and a section of fence in the southern verge on approach to the junction. Trees should be trimmed, and **third party land** is required. Loads will also oversail the eastern footway on exit from the junction with no physical mitigation measures required. Swept path assessment drawing no. SK13 included in **Appendix B**.
16	**Ardross Road, Alness**  	Loads will continue on Ardross Road heading northwest. Blade loads would be lowered on the blade lifter in advance of two HV OHLs at this location in order to pass under the OHLs safely. The required safety clearance to HV OHLs should be confirmed with the utility firms prior to delivery in order to avoid the potential for flashover. A swept path assessment has been undertaken and indicates that loads will oversail the eastern verge on approach to the left-hand bend. Embankment to be reprofiled. Two lighting columns to be removed. Loads will oversail the western verge and beyond assumed highway limits on approach to the right-hand bend. **Third-party land** required. Trees and vegetation to be cleared. Section of fence to be removed. Blade tip to oversail one wooden sign, three decorative planters and section of fence. Loads will also oversail the eastern footway on exit from the bend. One road sign to be removed. Parking restrictions required. Swept path assessment drawing no. SK14 included in **Appendix B**.

POI	Key Constraint	Details
17 - 19	**Ardross Road, Southeast of Millcraig & South of Craig Oudag**    	Loads will continue northbound on Ardross Road through a series of bends. A swept path assessment has been carried out and indicates that loads will oversail to both sides of the carriageway at the first left-hand bend. Trees to be trimmed to both sides. Blade loads would then be lowered on the blade lifter in advance of two 33 kV OHLs at this location in order to pass under the OHLs safely. The required safety clearance to HV OHLs should be confirmed with the utility firms prior to delivery in order to avoid the potential for flashover. A swept path assessment has been undertaken and indicates that the blade tip will oversail a wall in the southern verge and beyond assumed highway limits through the first right-hand bend and in the western verge on approach to the second right-hand bend. **Third party land** required. Trees should be cleared and vegetation trimmed. Once the blade has travelled below both OHLs, it would be raised prior to continuing around the second right-hand bend and then around a left-hand bend in order to avoid conflict with one utility pole. The raised blade would oversail the western verge and beyond assumed highway limits at the second right-hand bend. **Third party land** required. Trees should be cleared and vegetation trimmed. The blade tip would oversail the eastern verge and beyond assumed highway limits through the left-hand bend where the blade tip will oversail the fence, trees and vegetation. **Third party land** required. Swept path assessment drawing no. SK15 included in **Appendix B**.
20	**Ardross Road, Craig Oudag**  	Loads will continue on Ardross Road heading northwest. Blade loads would be lowered on the blade lifter in advance of two HV OHLs at this location to pass under the lines safely. The blade should then be raised following passing under the OHLs. The required safety clearance to HV OHLs should be confirmed with the utility firms prior to delivery in order to avoid the potential for flashover. A swept path assessment has been undertaken and indicates that loads will oversail the eastern verge where one utility pole and one road sign should be removed. Load bearing surface to be laid. Loads will oversail the western verge and beyond assumed highway limits. **Third party land** required. Trees and vegetation to be cleared. One gate post, one gate, one metal post, and sections of stone wall and fence to be removed. Loads will also oversail the eastern verge on exit from the bend with no physical mitigation measures required. Swept path assessment drawing no. SK16 included in **Appendix B**.

POI	Key Constraint	Details
21	**Ardross Road, North of Craig Oudag** 	Loads will continue on Ardross Road heading northwest. A swept path assessment has been undertaken and indicates that loads will oversail both verges of the carriageway where trees should be trimmed. Clearance to the assumed highway boundaries should be confirmed during the test run or on a topographical survey. Swept path assessment drawing no. SK17 included in **Appendix B**.
22	**Ardross Cattery Alness** 	Loads will continue on Ardross Road heading northwest. A swept path assessment has been undertaken and indicates that loads will oversail both verges of the carriageway where trees should be trimmed. Swept path assessment drawing no. SK18 included in **Appendix B**.
23	**Ardross Road, Achandunie**  	Loads will continue northbound on Ardross Road. A swept path assessment has been carried out and indicates that loads will oversail the northern verge around a right-hand bend. Minimal clearance noted to a retaining wall, topographical survey recommended to confirm negotiability. The blade tip will oversail the southern verge and beyond assumed highway limits on approach to the bend. **Third party land** required. Trees to be cleared. Blade tip to oversail all street furniture, vegetation and sections of fence. Trees and vegetation to be trimmed in western verge on exit from the bend. Loads will continue northbound on Ardross Road around a series of bends. A swept path assessment has been carried out and indicates that loads will oversail both verges where trees and vegetation are to be trimmed and several bollards are to be oversailed. Swept path assessment drawing no. SK24 included in **Appendix B**.
24	**Ardross Road / B9176 Junction** 	Loads will turn right from Ardross Road onto B9176 northbound to re-join the shared route. The junction is negotiable for the blades.

3.3.3 Tower Only Route

Table 3-3: Tower Only Route Constraint Points and Details (Tower Clamp Trailer)

POI	Key Constraint	Details
25	**A9 / B9176 Junction – Skiach Services** 	Loads will turn right at the junction for Skiach Services to exit the A9 and join the B9176 northbound. A swept path assessment has been undertaken and indicates that loads will oversail the northeastern verge to the inside of the turn where two lit road signs should be removed. Vegetation and trees should be trimmed. Loads will overrun and oversail the northwestern splitter island where a load bearing surface should be laid. One pole and two bollards should be removed. Swept path assessment drawing no. SK19 included in **Appendix B**.
26	**B9176 Northeast of Culcraggie Lodge** 	Loads will continue on the B9176 northbound. Throughout the route, the tree canopy is to be trimmed to provide a clear 5 m head height. Trimming of the tree canopy can be subject to ecological constraints and it is suggested that early consultation is undertaken with The Highland Council to agree cutting times and arrange permits.
27	**B9176 West Contullich** 	Loads will continue on the B9176 northbound. A swept path assessment has been undertaken and indicates that loads will oversail the western verge through the left-hand bend where loads are to be raised above the verge and a section of wall using trailer hydraulics. Loads will oversail the eastern verge through the right-hand bend where trees should be trimmed. Swept path assessment drawing no. SK20 included in **Appendix B**.
28	**B9176 Contullich** 	Loads will continue on the B9176 northbound. It is strongly recommended that a full overhead utility search is carried out along the route prior to deliveries to ensure that height clearances are suitable for normal temperature ranges.
29	**B9176 Balnacraig** 	Loads will continue on the B9176 northbound. It is noted that there is a 12% down gradient at this location. All delivery vehicles should engage a low gear prior to this point.

POI	Key Constraint	Details
30	**B9176 Craig Oudag** 	Loads will continue on the B9176 northbound. A swept path assessment has been undertaken and indicates that loads will oversail the western verge and beyond assumed highway limits through the left-hand bend. **Third party land** required. A section of fence should be removed, and a vertical assessment is required to confirm the clearance to the embankment. Trees should be cleared, and vegetation should be trimmed. Swept path assessment drawing no. SK21 included in **Appendix B**.
31	**B9176 Dalneich Bridge**  	Loads will continue on the B9176 northbound over structure no. B91760040 Dalneich. A swept path assessment has been undertaken and indicates that loads will oversail the southeastern verge through the right-hand bend and the northern verge through the left-hand bend exiting the bridge section. The loads are to be raised above the bridge parapet and section of stone wall to both sides of the carriageway with a vertical assessment required to confirm clearance. Trees should be cleared, and vegetation should be trimmed to both sides of the carriageway. Loads will oversail the safety barrier in the northern verge using trailer hydraulics. **Third party land** required. Swept path assessment drawing no. SK22 included in **Appendix B**.
32	**B9176 west of Ardgowan House**  	Loads will continue on the B9176 northbound. A swept path assessment has been undertaken and indicates that loads will oversail the western verge and beyond assumed highway limits through the left-hand bend where one utility pole, one bollard and a section of fence should be removed. **Third party land** required. Loads to oversail a section of safety barrier using trailer hydraulics. Trees should be cleared, and vegetation should be trimmed. Loads will oversail the eastern verge through the right-hand bend where the embankment should be reprofiled to allow for vehicle oversail. Trees should be cleared, and vegetation should be trimmed. Potential **third party land** is required to accommodate the embankment works. Swept path assessment drawing no. SK23 included in **Appendix B**.
33	**B9176 / Ardross Road Junction** 	Loads will continue northbound on the B9176 past the Ardross Junction to re-join the shared route. A swept path assessment has been carried out and indicates that loads will oversail the western verge on approach to the junction where trees and vegetation should be trimmed. Swept path assessment drawing no. SK24 included in **Appendix B**.

3.3.4 Shared Route Part 2

Table 3-4: Shared Route Part 2 Constraint Points and Details (Blade Lifter and Tower Clamp Trailer)

POI	Key Constraint	Details
34	**B9176 east of Holly Island** 	Loads will continue on the B9176 northbound. Blade loads would be lowered on the blade lifter in advance of the 132 kV OHL at this location to pass under the line safely. The blade should then be raised position following passing under the OHL. The required safety clearance to HV OHLs should be confirmed with the utility firms prior to delivery in order to avoid the potential for flashover. A swept path assessment has been undertaken and indicates that blade loads will oversail both verges of the carriageway with no physical mitigation measures required. Swept path assessment drawing no. SK25 included in **Appendix B**.
35	**B9176 / Pillars Road Junction, Dalnavie**   	Loads will turn left to exit the B9176 and join Pillars Road westbound. A swept path assessment has been undertaken and indicates that loads will oversail both verges on approach to the junction where trees and vegetation should be trimmed. Loads will overrun and oversail the western verge and beyond assumed highway limits at the junction. Load bearing surface should be laid. Two stone pillars, two road signs, one grit bin; and sections of stone wall and metal railing to be removed. Trees and vegetation to be cleared. **Third party land** required. Loads will oversail the eastern verge on approach to the junction. HV OHL to be removed. Blade tip to oversail embankment. Loads will also oversail both verges on exit from the junction. HV OHL to be removed. Swept path assessment drawing no. SK26 included in **Appendix B**.

POI	Key Constraint	Details
36	**Strath Rusdale Road west of Easter Andross** 	Loads will continue on Strath Rusdale Road westbound. The vertical profile of the road at this location is pronounced and should be reviewed during the test run stage to ascertain if tar wedges will be required to prevent grounding. Tower loads should be set on a higher suspension setting to reduce the need for physical mitigation works. Blade loads would be lowered on the blade lifter in advance of the disused 275 kV OHL at this location to pass under the line safely. The blade should then be raised following passage under the OHL. The required safety clearance to HV OHLs should be confirmed with the utility firms prior to delivery in order to avoid the potential for flashover.
37	**Strath Rusdale Road north of Mackintosh's Well** 	Loads will continue westbound on Strath Rusdale Road. A swept path assessment has been undertaken and indicates that loads will oversail both verges through the section. Trees should be cleared, and vegetation should be trimmed on both verges. Swept path assessment drawing no. SK27 included in **Appendix B**.
38	**Strath Rusdale Road, Ardross**   	Loads will continue westbound on Strath Rusdale Road around a series of bends and a bridge. Blade loads would be lowered on the blade lifter in advance of the HV OHL at this location to pass under the line safely. The blade should then be raised following passage under the OHL. The required safety clearance to HV OHLs should be confirmed with the utility firms prior to delivery in order to avoid the potential for flashover. A swept path assessment has been undertaken and indicates that loads will oversail both verges on approach to the bridge where trees and vegetation should be cleared and trimmed. Blade tip to oversail the northern embankment. Loads will overrun and oversail the northern verge across the bridge where the existing road running surface should be extended to accommodate the vehicle track. Trees should be cleared on both sides of the bridge. The southern bridge parapet should be lowered to accommodate oversail. Three road signs, stone wall and fence should be removed from the southern verge. **Third party land** is required to both sides of the carriageway. One road sign should be removed from the northern verge through the right bend following existing the bridge section. The vertical clearance of loads over the embankment should be confirmed on a topographical survey. Trees and vegetation should be cleared. **Third party land** is required. Trees should be trimmed in both verges of the carriageway following the right bend. Swept path assessment SK28 is included in Appendix B. It is recommended that a structural review of structure no. U19070000C53 is conducted prior to the deliveries to confirm its capacity as being capable of accommodating the proposed loads.

POI	Key Constraint	Details
39	**Strath Rusdale Road, Cnoc Ruadh** 	Loads will continue westbound on Strath Rusdale Road. The U1907 carriageway width reduces and there are significant sections that do not meet the minimum requirements for abnormal load delivery. Those locations below the required standards will need to be widened to a minimum of 5.0 m on straight sections and further through bends. In addition, a 6.0 m wide clearance envelope is required for the loads. Early engagement with turbine suppliers on possible reductions to this specification are suggested.
TP	**Blade Transfer Location** 	A blade transfer location should be provided on third party land located to the North of Strath Rusdale Road. This is to ensure that a suitable location can be identified prior to the constraints present on the remainder of the route. Blades would be transferred from the blade lifter into the dolly and clamp trailer at this location. **A suitable trailer interchange location has been proposed as part of this report; however, further works are required to assess this fully. Including identifying and contacting the relevant land owner(s) to arrange access permission, etc.**
40	**Strath Rusdale Road north of Ardross Castle** 	Loads will continue westbound on Strath Rusdale Road. If a land deal is not achievable at the proposed blade transfer location noted above, loads may have to be transported in the blade lifter along Strath Rusdale Road. Due to the presence of multiple HV OHLs along this straight section of carriageway, blade loads should be lowered on the blade lifter in advance of OHLs to pass under the lines safely. Once clear beneath the OHLs, the blades should be raised to reduce the length in plan view. It is strongly recommended that a full overhead utility search is carried out along the route prior to deliveries to ensure that height clearances are suitable for normal temperature ranges. The blades loaded onto the dolly would be unaffected.
41	**Strath Rusdale Road northwest of Ardross Castle** 	Loads will continue westbound on Strath Rusdale Road. The vertical profile of the road at this location is pronounced and should be reviewed during the test run stage to ascertain if tar wedges will be required to prevent grounding. Vehicle suspension settings should be set higher to reduce the need for physical works.

POI	Key Constraint	Details
42	**Strath Rusdale Road / Inchlumpie Forestry Track Junction** 	Loads will turn left to exit Strath Rusdale Road and join the Inchlumpie Forestry Tracks travelling South-Westbound. A swept path assessment has been undertaken and indicates that the blade tip will oversail the northern verge on approach to the turn where trees should be trimmed. Loads will overrun and oversail the verge to the inside of the turn where a load bearing surface should be laid, and the trees should be cleared. The access gate should be removed. The existing junction will need to be upgraded to meet turbine manufacturer and local road authority standards. **Third party land** will be required. Land searches recommended to confirm extent of adopted highway. Swept path assessment drawing 'SK01' included in **Appendix C**.

3.4 Swept Path Assessment Results and Summary

The detailed Swept Path Assessment (SPA) drawings for the locations assessed are provided in **Appendix B** for review. The drawings illustrate tracking undertaken for the worst-case loads at each location.

The colours illustrated on the swept paths are:

- Grey / Black – Ordnance Survey (OS) / topographical base mapping,
- Green – vehicle body outline (body swept path),
- Red – tracked pathway of the wheels (wheel swept path); and
- Purple – the oversail tracked path of the load where it encroaches out with the trailer (load swept path).

Where mitigation works are required, the extents of the overrun and oversail areas are illustrated and fully detailed on the SPA drawings. Additional land areas to those indicated in the SPA drawings may be required to facilitate the construction of the proposed physical mitigation measures depending on the site conditions and topography. The extent of any additional areas required to construct the mitigation works highlighted within this study and the detailed design of said mitigation works is beyond the scope of this study and should be confirmed on detailed topographical survey data.

Please note that where SPA have been undertaken using OS base mapping, AutoCAD based aerial mapping and historic topographical data, there can be errors in these data sources.

Where provided by the client, topographical data has been utilised. Please note that PF cannot accept liability for errors on the data source, be that OS base mapping, aerial mapping, historic topographical surveys or client supplied data. Where applicable, mapping has been augmented with aerial imagery for illustration only. The accuracy of this mapping cannot be confirmed by PF.

Please note that turbine supplier guidance suggests that the minimum road width for the safe transport of AIL components is 5.0 m. All public roads and onsite access tracks should comply with this standard unless a relaxation has been agreed with suppliers.

The need to widen public roads will require engagement with the relevant road authority and may constitute permanent or temporary surfacing.

3.5 Third-Party Land & Land Ownership

A review of third-party land should be undertaken by the client to ensure that no additional land rights are required to enable deliveries or mitigation works. PF accepts no responsibility for the accuracy of land ownership assumptions, all of which should be confirmed across the entire access route by a qualified land agent.

The limits of road adoption can vary depending upon the location of the site and the history of the road agencies involved. The adopted area is generally defined as land contained within a clear boundary where the road agency holds the maintenance rights for the land. In urban areas, this is usually defined as the area from the edge of the footway across the road to the opposing footway back edge.

In rural areas, the area of adoption can be open to greater interpretation as defined boundaries may not be clearly identifiable. In these locations, the general rule is that the area of adoption is between established field boundary lines or a maximum 2 m from the road edge. This can vary between area and location.

3.6 Weight Review

A weight review has been undertaken via the Electronic Service Delivery for Abnormal Loads (ESDAL) contacts database using the National Highways website www.esdal.com.

No constraints were identified at the time of writing this RSR however, this does not confirm the suitability or otherwise of the structures and a full review of these structures will be required with the relevant agencies via the contacts in the database when the candidate turbine has been confirmed. For information, the relevant ESDAL contacts in relation to the proposed development are noted in **Table 3-5**.

Table 3-5: ESDAL Contacts

Organisation	Email Address
Police Scotland	OSDAbnormalLoadsScotland@scotland.police.uk
Network Rail	AbnormalLoadsEnquiries@networkrail.co.uk
Highland Council	Abnormal.loads@highland.gov.uk
BEAR North West	NWAbnormalLoad@bearscotland.co.uk

3.7 Access Junction Considerations

The existing junction with the Inchlumpie forestry track will need to be upgraded to accommodate the proposed physical size of loads and the number of trips predicted during the construction phase.

Improved visibility splays on the Strath Rusdale Road will be required to improve road safety for all users and a provision for splays of 4.5 m x 160 m in both directions is recommended.

The design and form of the junction will need to be discussed with The Highland Council.

The junction will also need to be built in accordance with the turbine supplier design criteria.

3.8 Summary Issues

It is strongly suggested that following a review of the RSR, RWE should undertake the following prior to the delivery of the first abnormal loads, to ensure load and road user safety:

- That any necessary topographical surveys are undertaken and the swept path results completed;
- A review of axle loading on structures along the entire access route with the various road agencies is undertaken immediately prior to the loads being transported in case of last minute changes to structures;
- A review of clear heights with utility providers and the transport agencies along the route to ensure that there is sufficient space to allow for loads plus sufficient flashover protection (to electrical installations);
- That any verge vegetation and tree canopies which may foul loads is trimmed prior to loads moving;
- That a review of potential roadworks and or closures is undertaken once the delivery schedule is established in draft form;
- That a test run is completed to confirm the route and review any vertical clearance issues; and
- That a condition survey is undertaken to ascertain the extents of road defects prior to loads commencing to protect the developer from spurious damage claims.

4 Summary

4.1 Summary of Access Review

Pell Frischmann Consultants Ltd. has been commissioned by RWE to prepare a desktop Route Survey Report to examine the issues associated with the transport of AIL turbine components to Creachan Wind Farm, which is located 13 km northwest of Alness, and approximately 3.5 km north of Loch Morie in The Highland Council administrative area.

This report identifies the key points and issues associated with the proposed routes and outlines the issues that will need to be considered for successful delivery of components.

The report is presented for consideration to RWE. Topographical surveys are required to confirm access for the proposed blade lengths, and it is imperative that these are commissioned and the assessments revised before the project is progressed further.

4.2 Further Actions

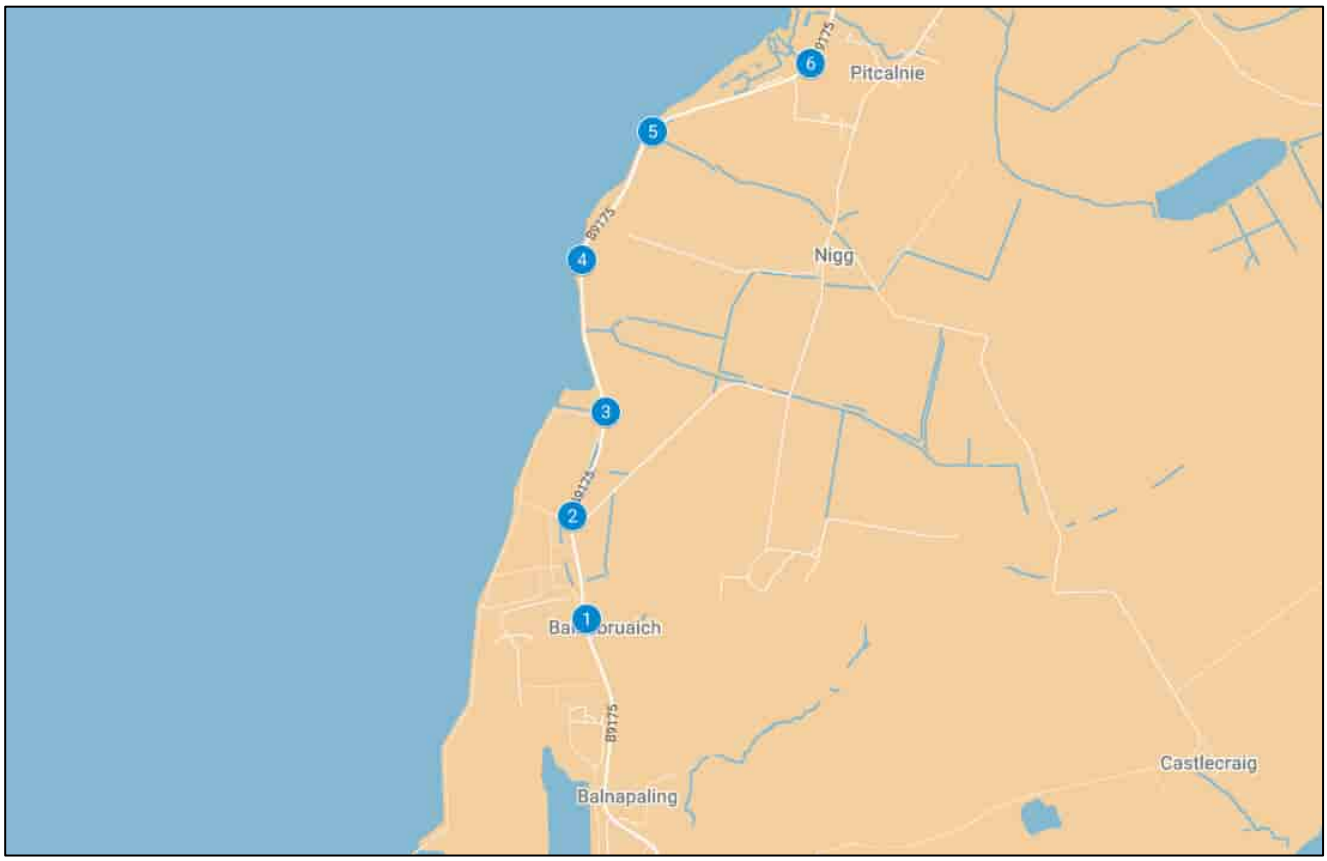
The following actions are recommended to pursue the transport and access issues further:

- Prepare detailed mitigation design proposals to help inform the land option / consultee discussions;
- Obtain the necessary land options;
- Undertake discussion with the affected utility providers and roads agencies;
- Obtain the necessary statutory licences to enable the mitigation measures; and
- Develop a detailed operational Transport Management Plan to assist in transporting the proposed loads.

Appendix A Points of Interest

An electronic version of the plan can be found here:

https://www.google.com/maps/d/edit?mid=1Z-SU1pwZBwoB8OziRfSH-1dRdkMh1_c&usp=sharing





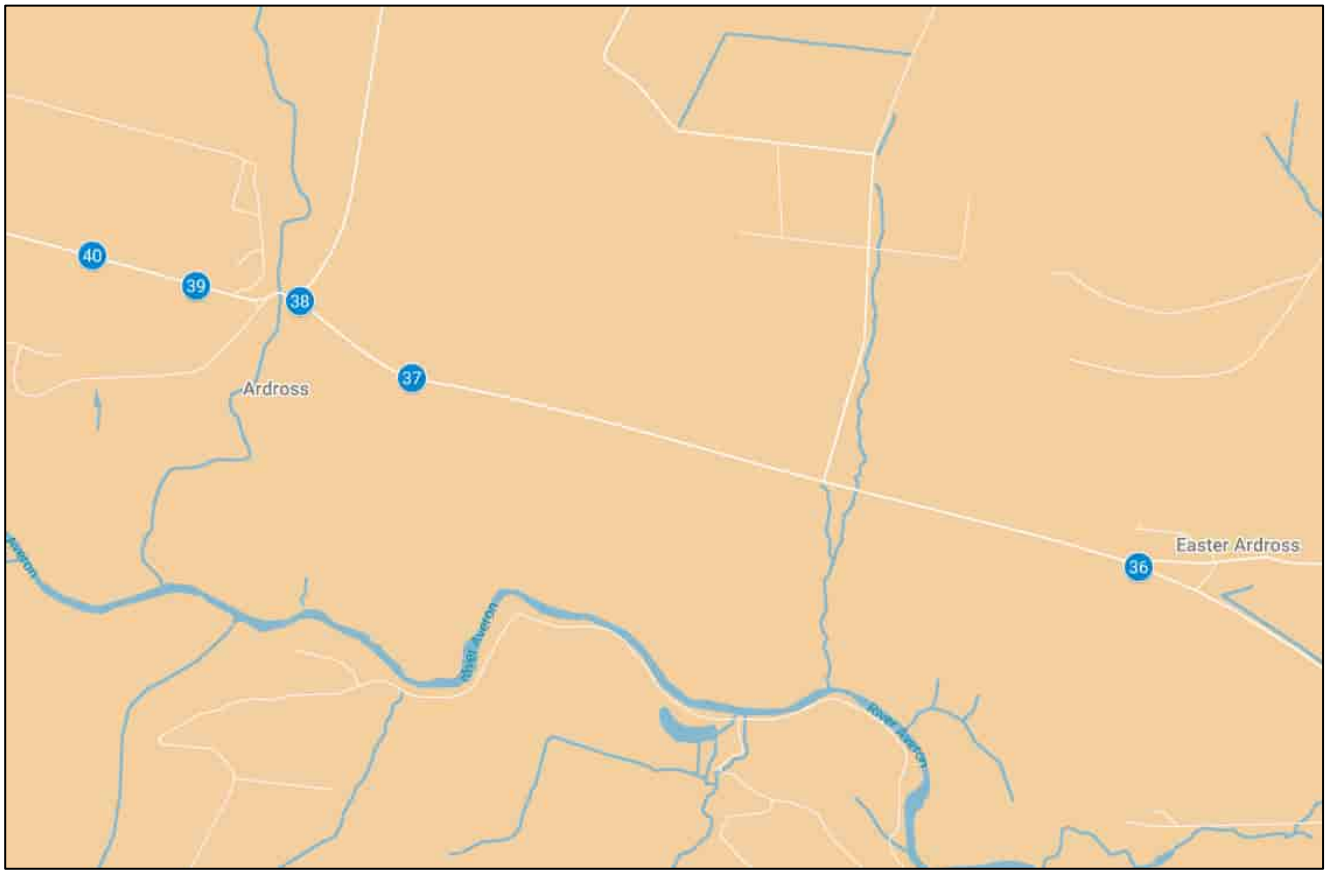

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Birch Rd
16
Birch Rd
Obsdale Park
15
Shillinghill
14
Obsdale Park
12
11
A9
Perins Rd
Averon Rd
Obsdale Rd
Firhill
Alness
High St
13
Academy Ln
Kendal Cres
B817
Alness
A9
A9

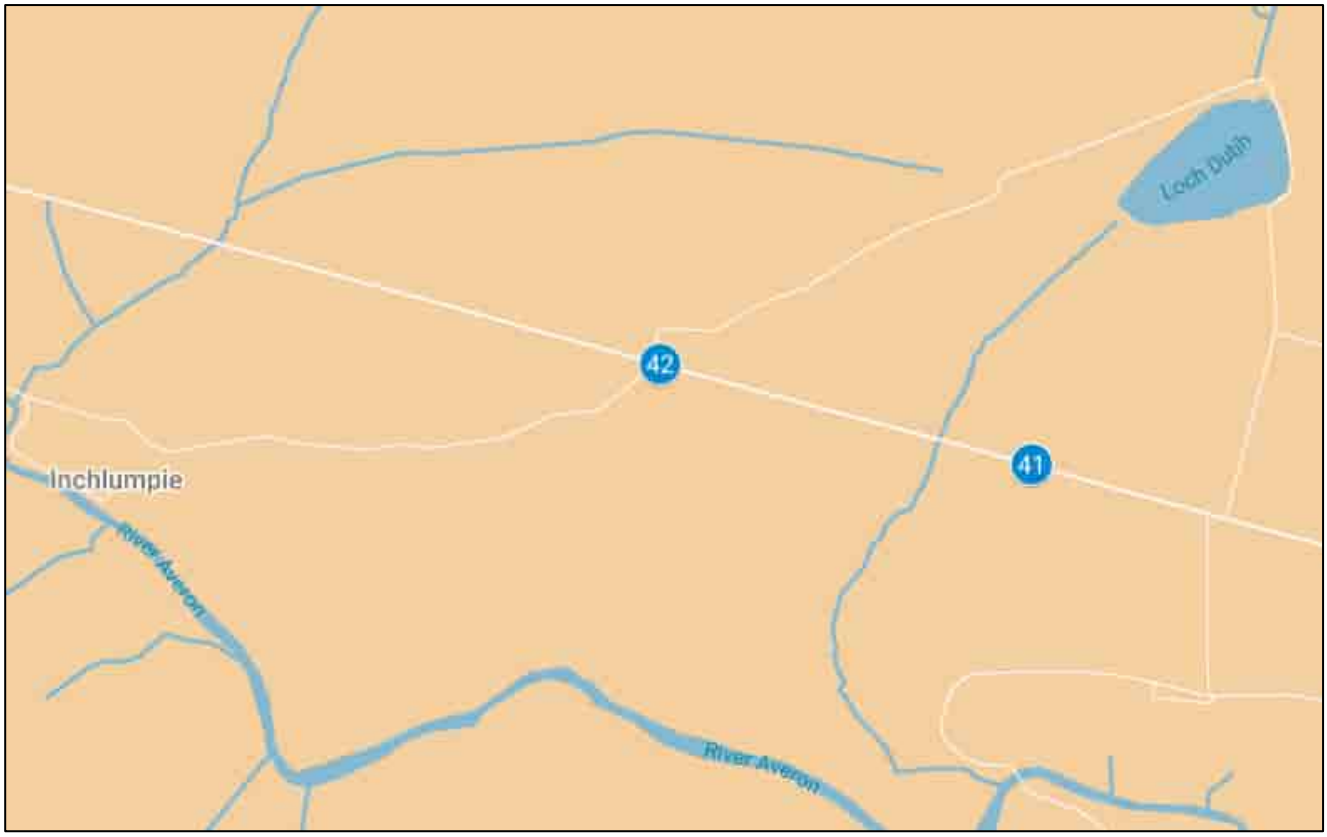

22
21
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TEANINCH INDUSTRIAL ESTATE
TEANINCH
B817
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B817
B817
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A9
A9
B9176
B9176


32
31
30
29
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Boath Rd
Boath Rd
Boath Rd
Boath Rd
Struie Rd
Contullich


River Averon
35
B9176
34
River Averon
24
B9176
River Averon
Achandunie
33
23


40
39
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Easter Ardross
36
River Averon
River Averon

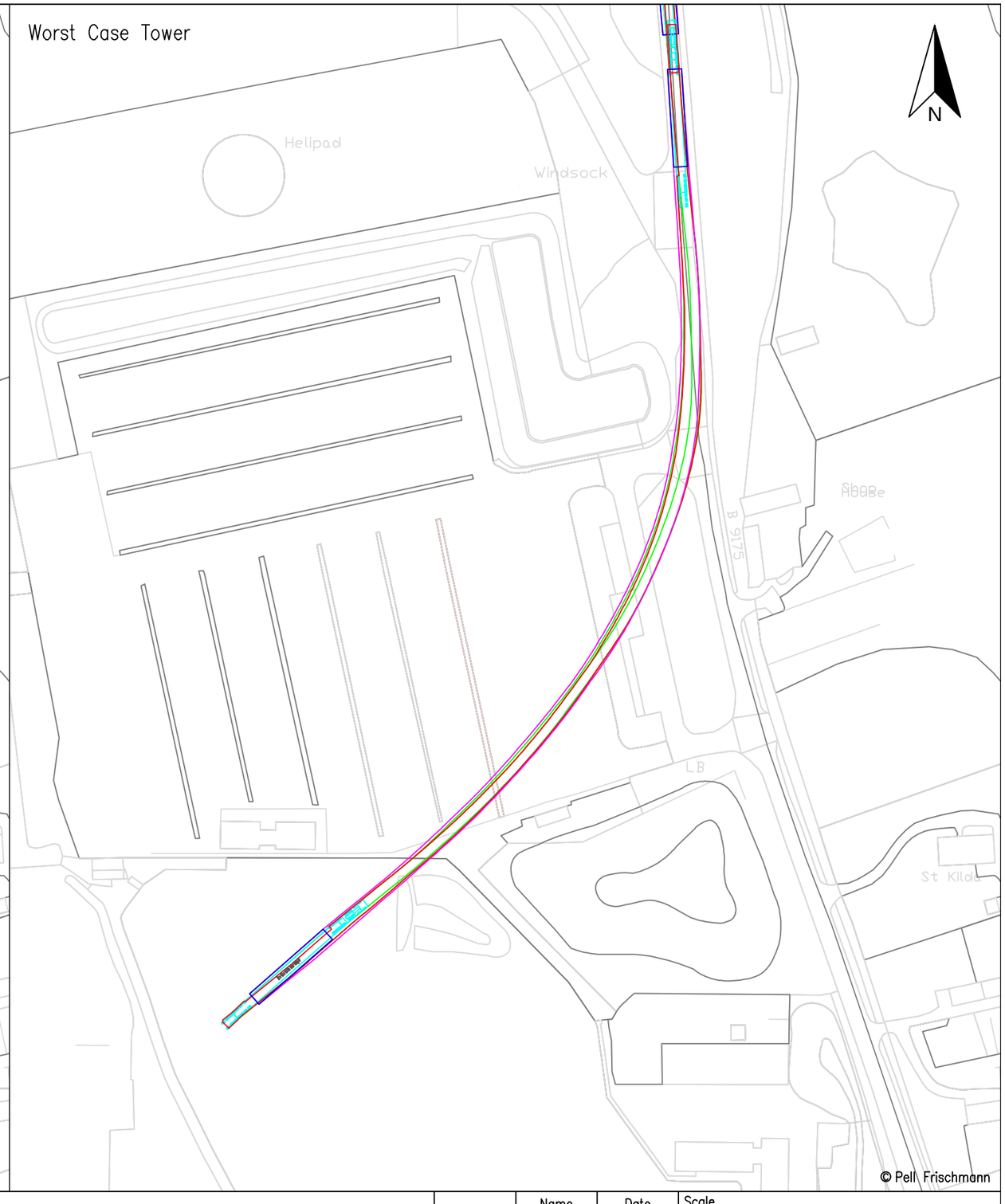

Loch Duth
42
41
Inchlumpie
River Averon
River Averon

Appendix B Swept Path Assessments

Blade
Dolly Clamp Trailer



Worst Case Tower



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Client: RWE

Key: Wheel SPA; Body SPA; Load SPA; Indicative; Over-run; Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: Exit from Port of Nigg

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		1

Scale: 1:1500 @ A3

File No.: 250829 Creachan SPA SG170.dwg

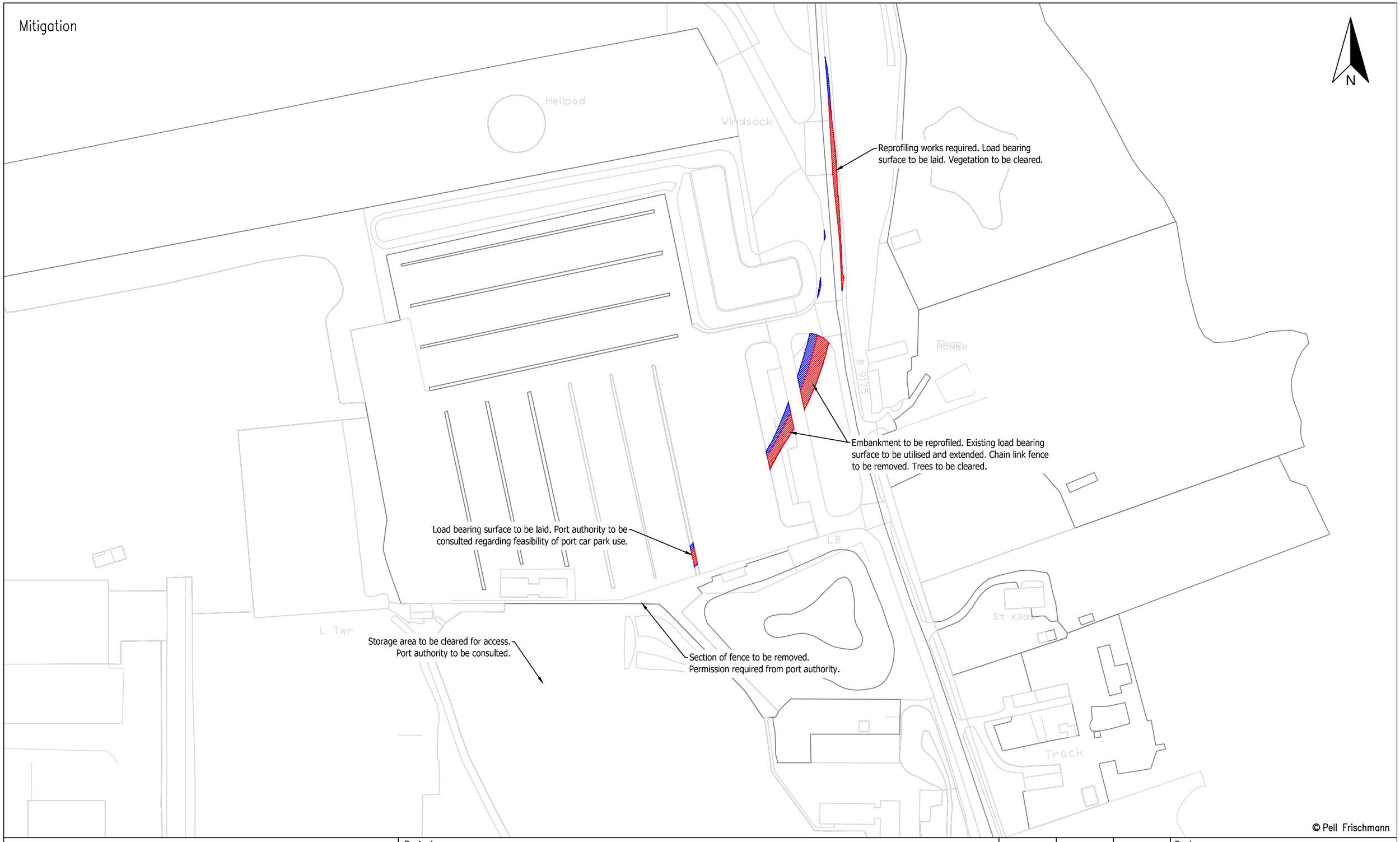
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Drawing No.: SK01

Notes:
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.

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Mitigation



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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: Exit from Port of Nigg

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		1

Scale: 1:1500 @ A3

File No.: 250829 Creachan SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK01A

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Blade
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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: B9175 Mount Canisp

	Name	Date
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Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		2

Scale: 1:1500 @ A3

File No.: 250829 Creachan SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK02

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Client: RWE

Key: Wheel SPA; Body SPA; Load SPA; Indicative; Over-run; Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: B9175 Mount Canisp

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		2

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Drawing No.: SK02A

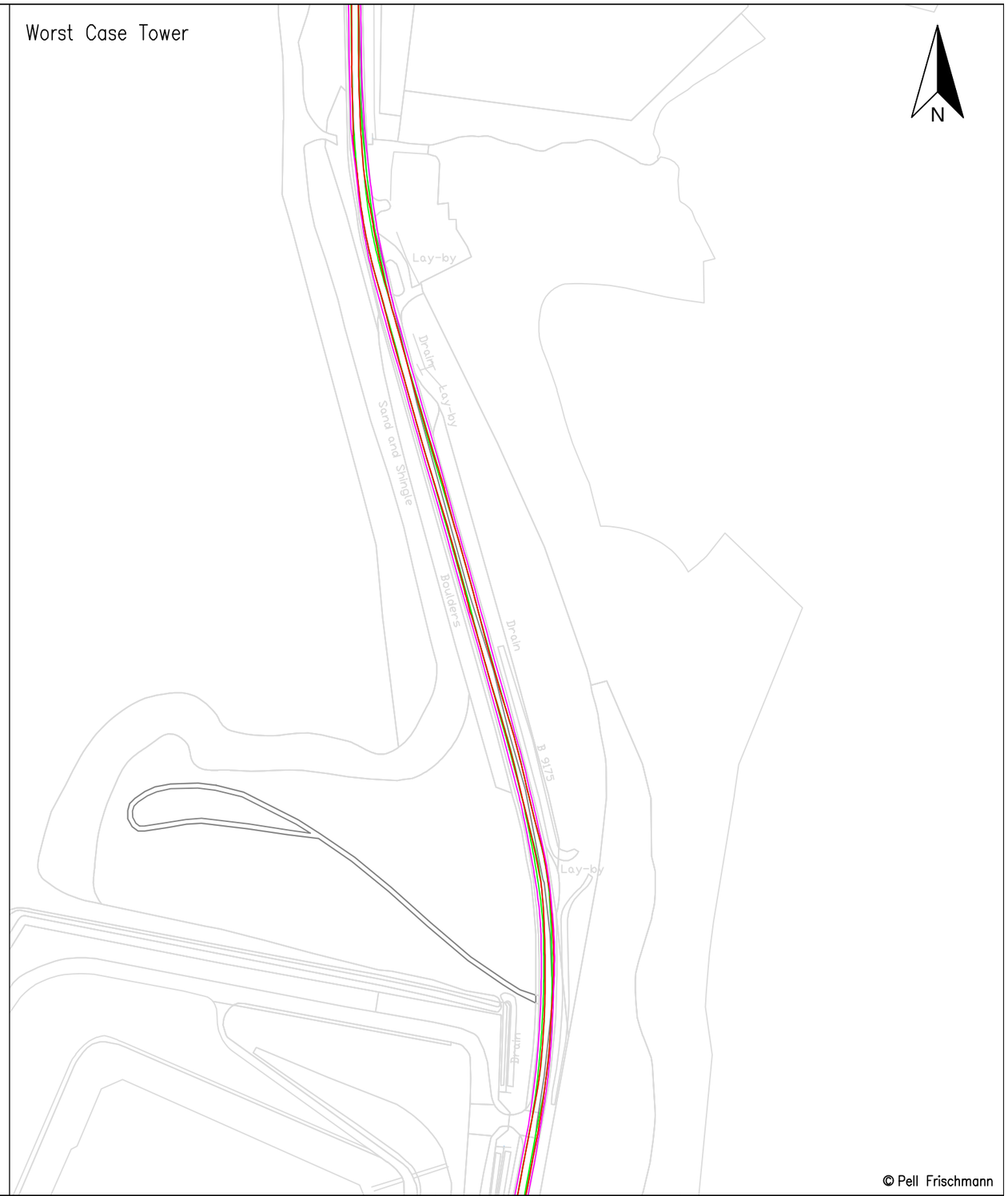
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Blade
Dolly Clamp Trailer



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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: B9175 Lower Pitcalzean

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Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		3

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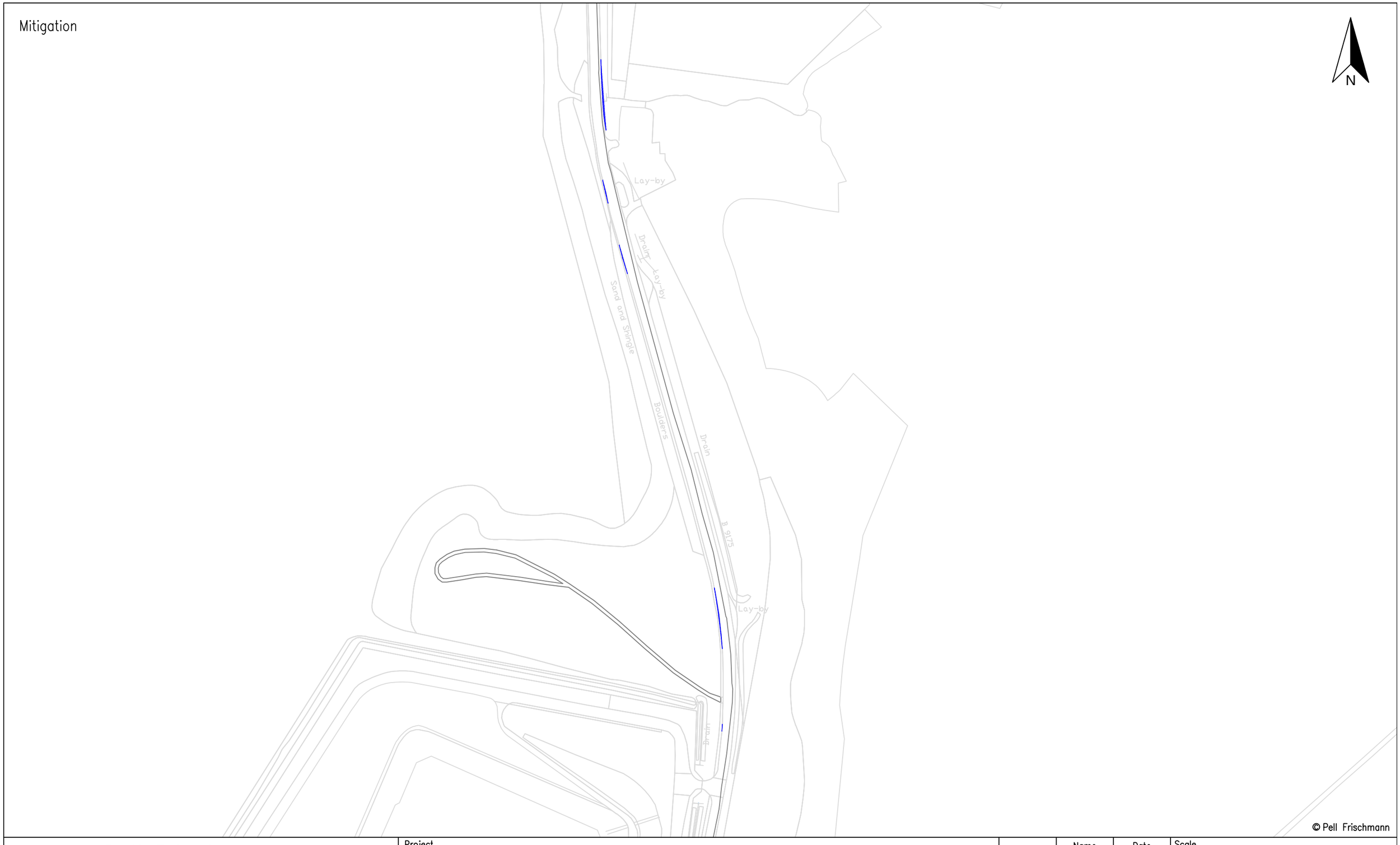
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Drawing No.: SK03

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: B9175 Lower Pitcalzean

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		3

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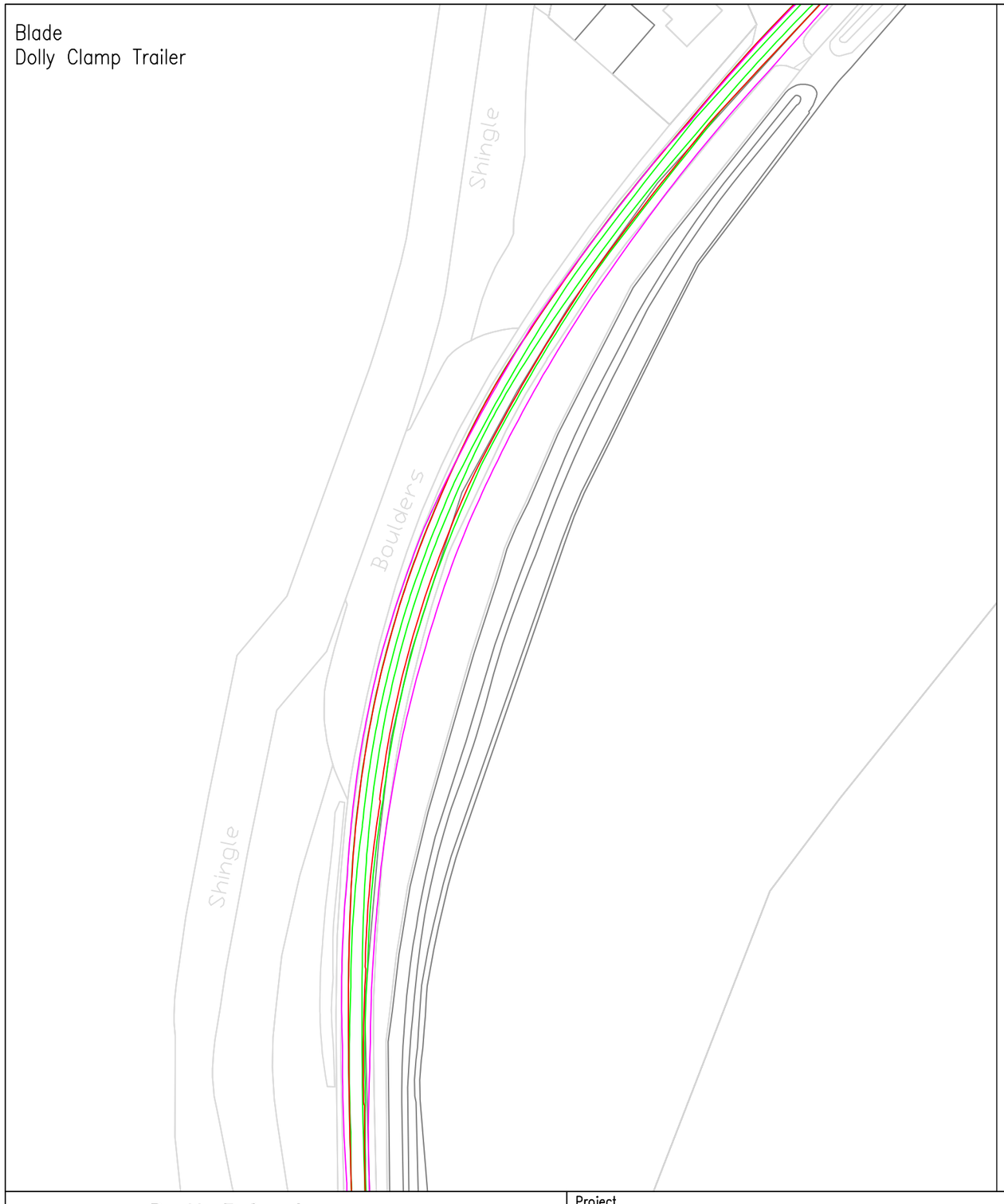
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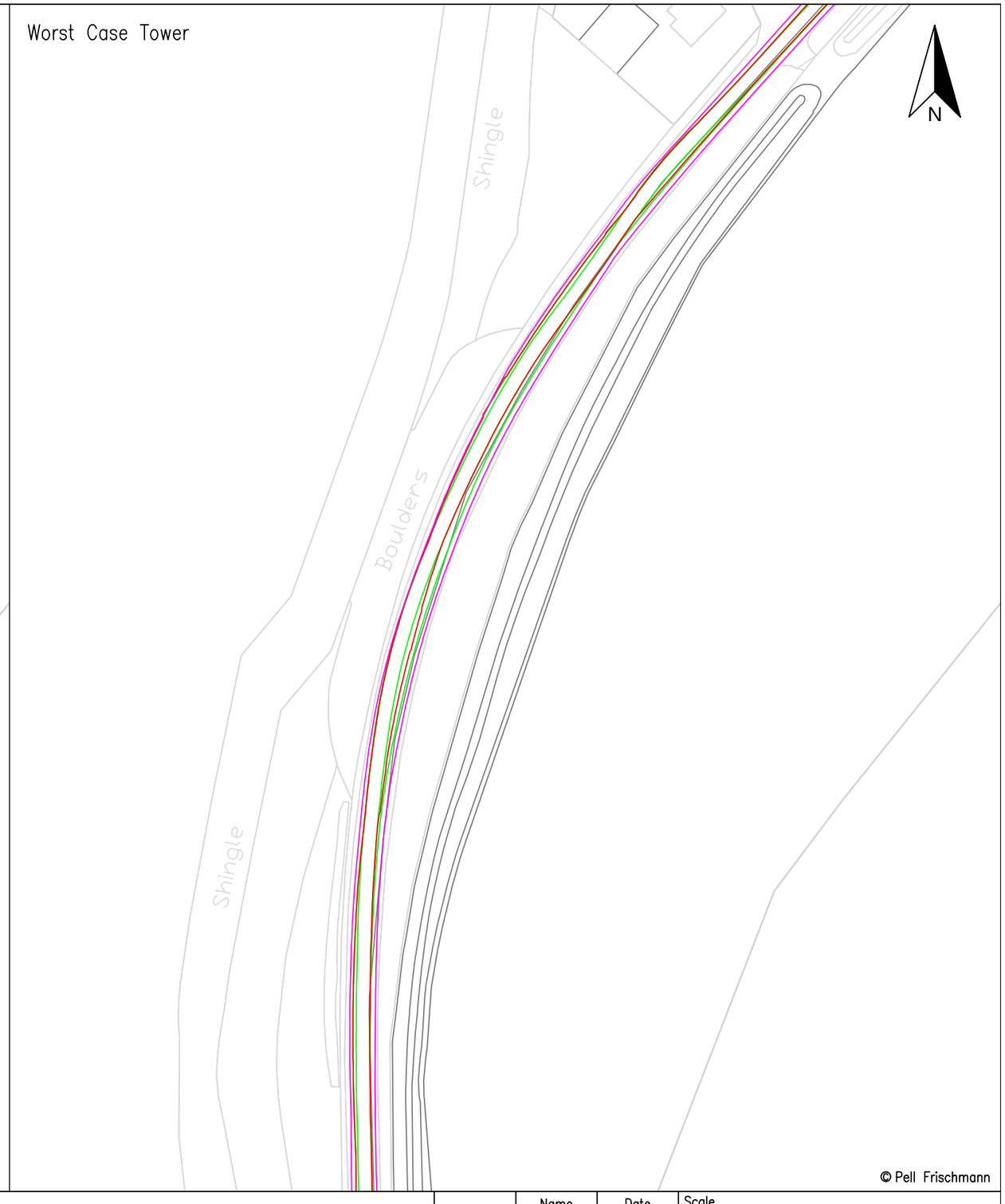
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Blade
Dolly Clamp Trailer



Worst Case Tower



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Client: RWE

Key: Wheel SPA; Body SPA; Load SPA; Indicative; Over-run; Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: B9175 West of Nigg House

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Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		4

Scale: 1:1000 @ A3

File No.: 250829 Creachan SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK04

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: B9175 West of Nigg House

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		4

Scale: 1:1000 @ A3

File No.: 250829 Creachan SPA SG170.dwg

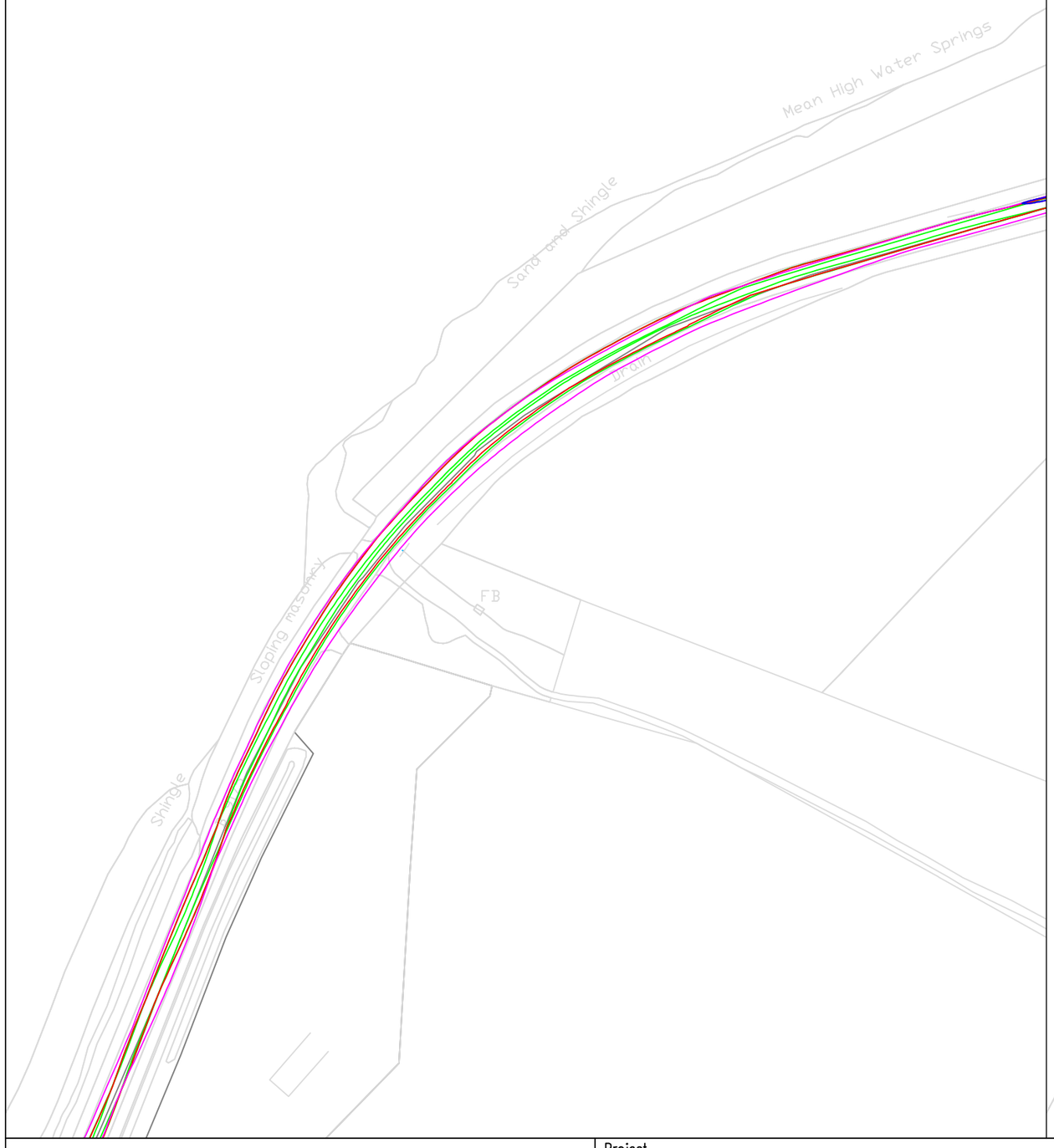
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Drawing No.: SK04A

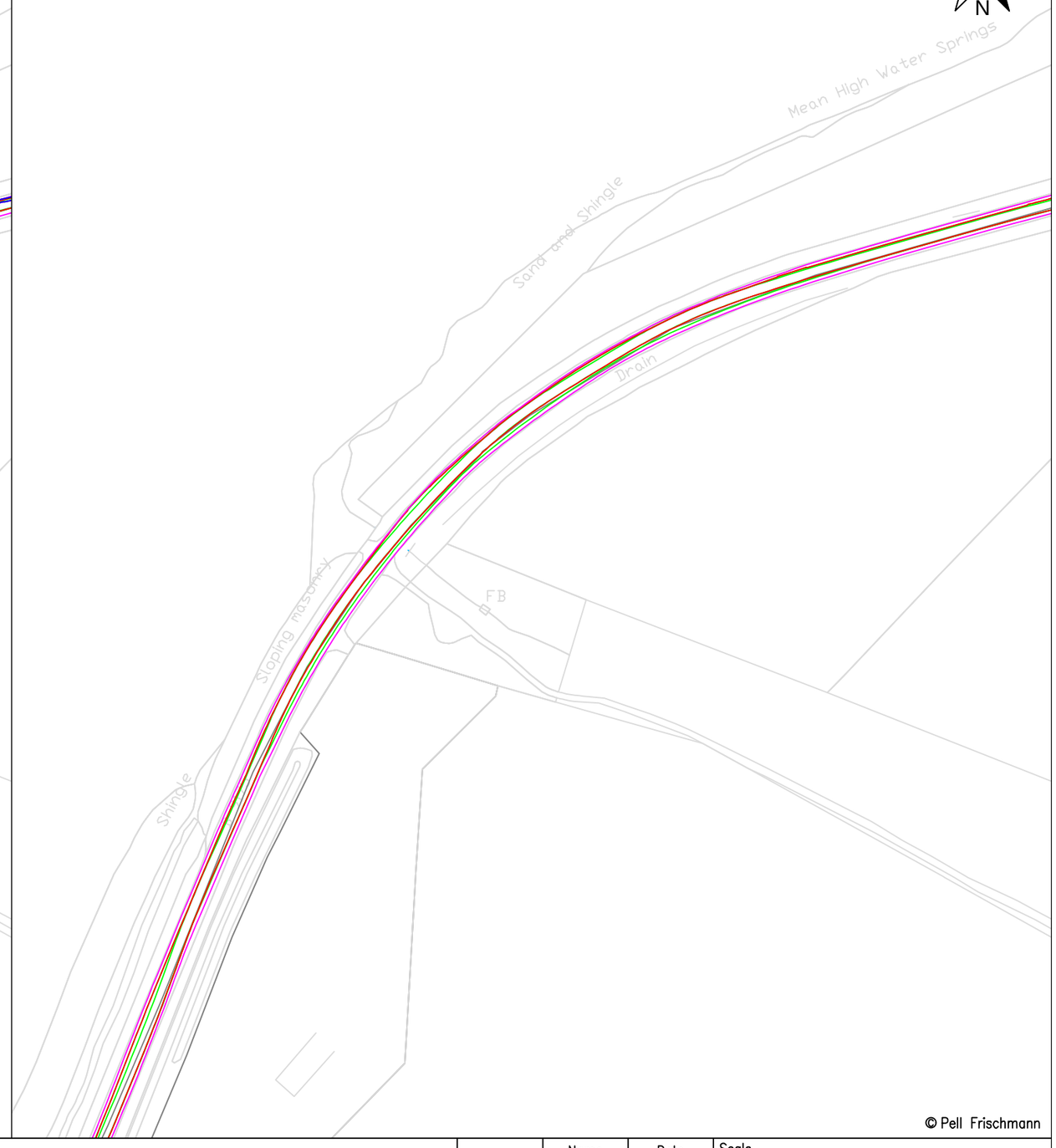
Notes:
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2. This is not a construction drawing and is intended for illustration purposes only.

Revision: 0

Blade
Dolly Clamp Trailer



Worst Case Tower



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www.pellfrischmann.com

Client: RWE

Key: Wheel SPA; Body SPA; Load SPA; Indicative; Over–run; Over–sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: B9175 Northwest of Nigg House

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		5

Scale: 1:1500 @ A3

File No.: 250829 Creachan SPA SG170.dwg

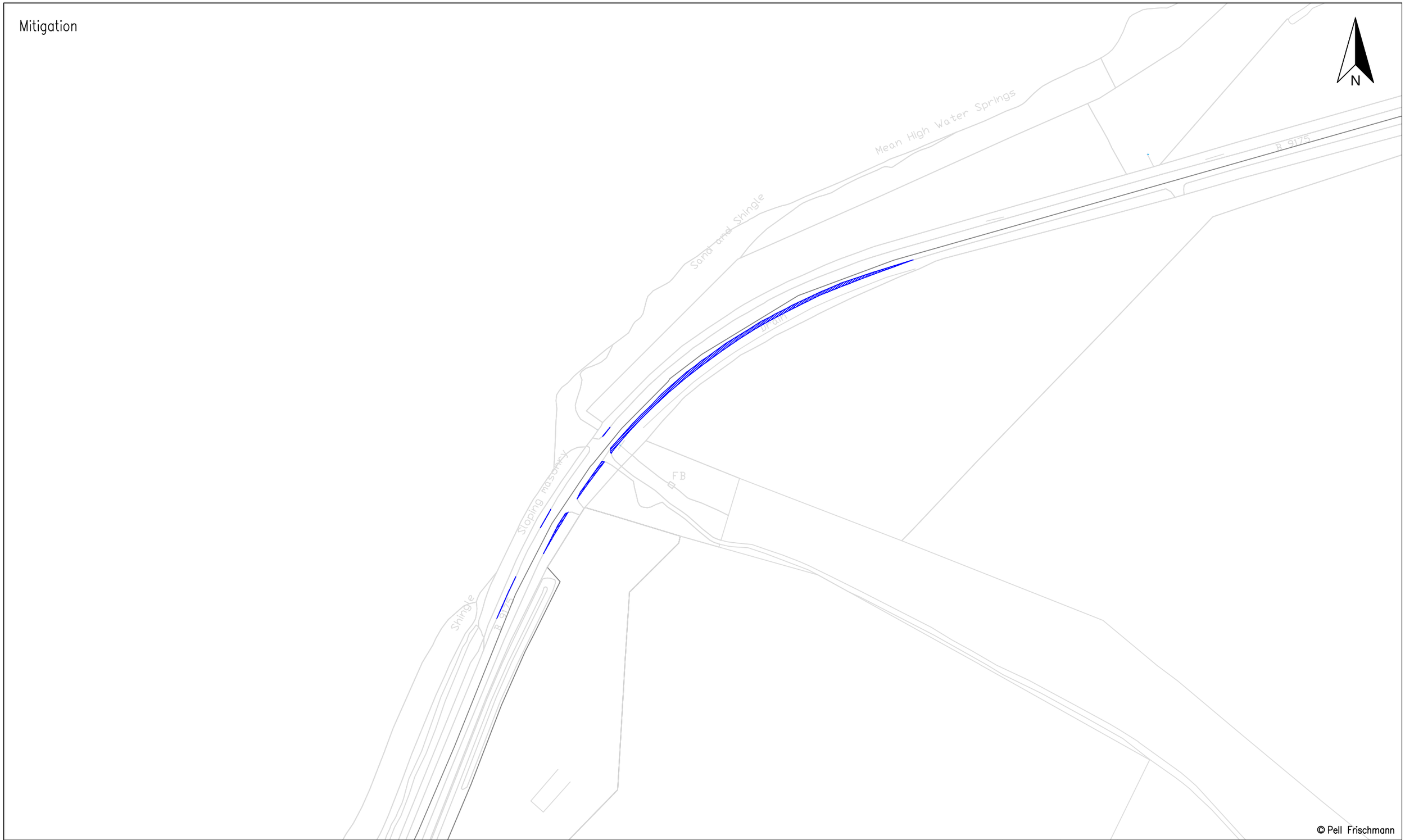
Drawing Status: Draft

Drawing No.: SK05

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: B9175 Northwest of Nigg House

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		5

Scale: 1:1500 @ A3

File No.: 250829 Creachan SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK05A

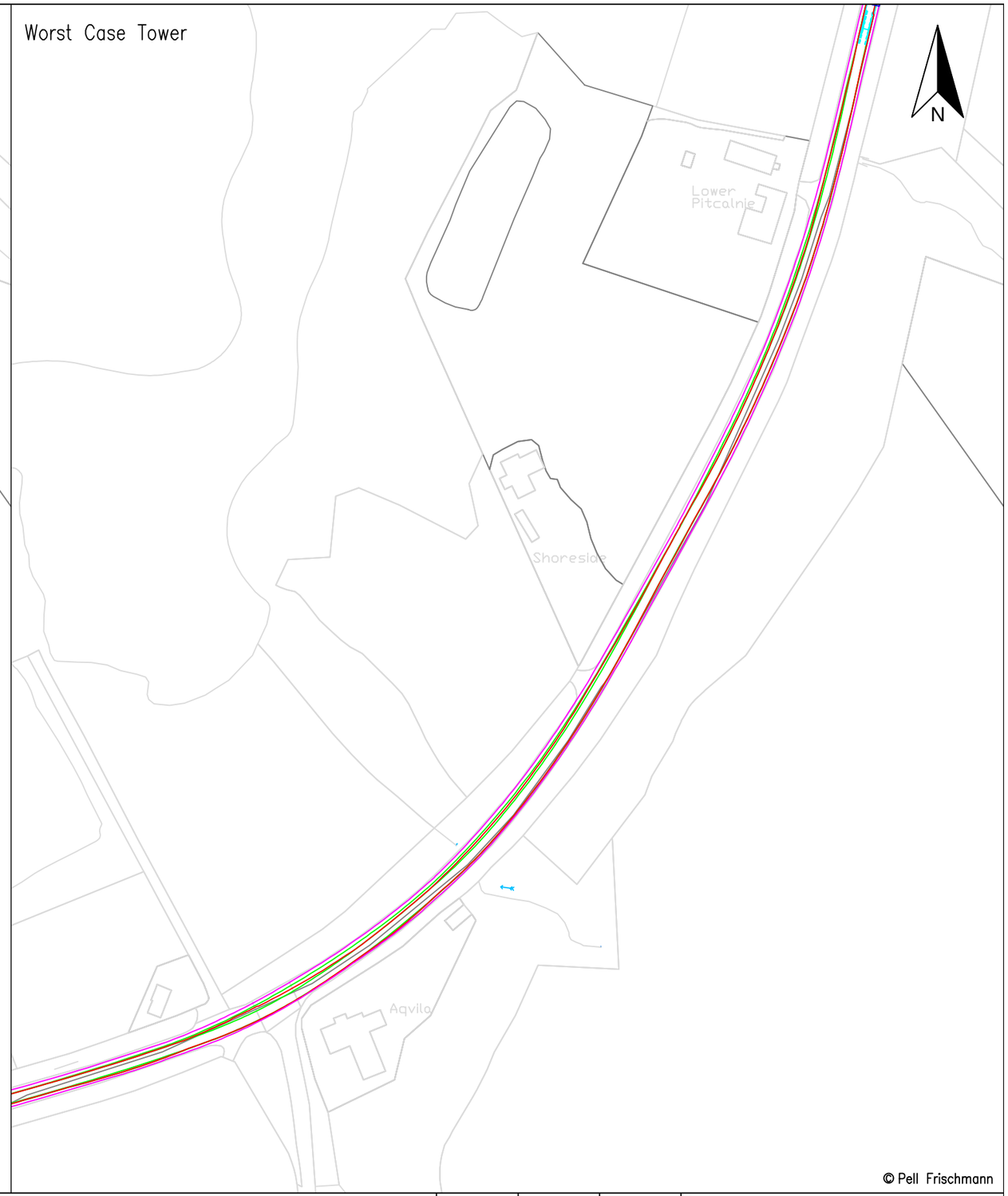
Notes:
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Revision: 0

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Worst Case Tower



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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: B9175 Pitcalnie

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		6

Scale: 1:1500 @ A3

File No.: 250829 Creachan SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK06

Notes:
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Revision: 0

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Client: RWE

Key: Wheel SPA; Body SPA; Load SPA; Indicative; Over-run; Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: B9175 Pitcalnie

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		6

Scale: 1:1500 @ A3

File No.: 250829 Creachan SPA SG170.dwg

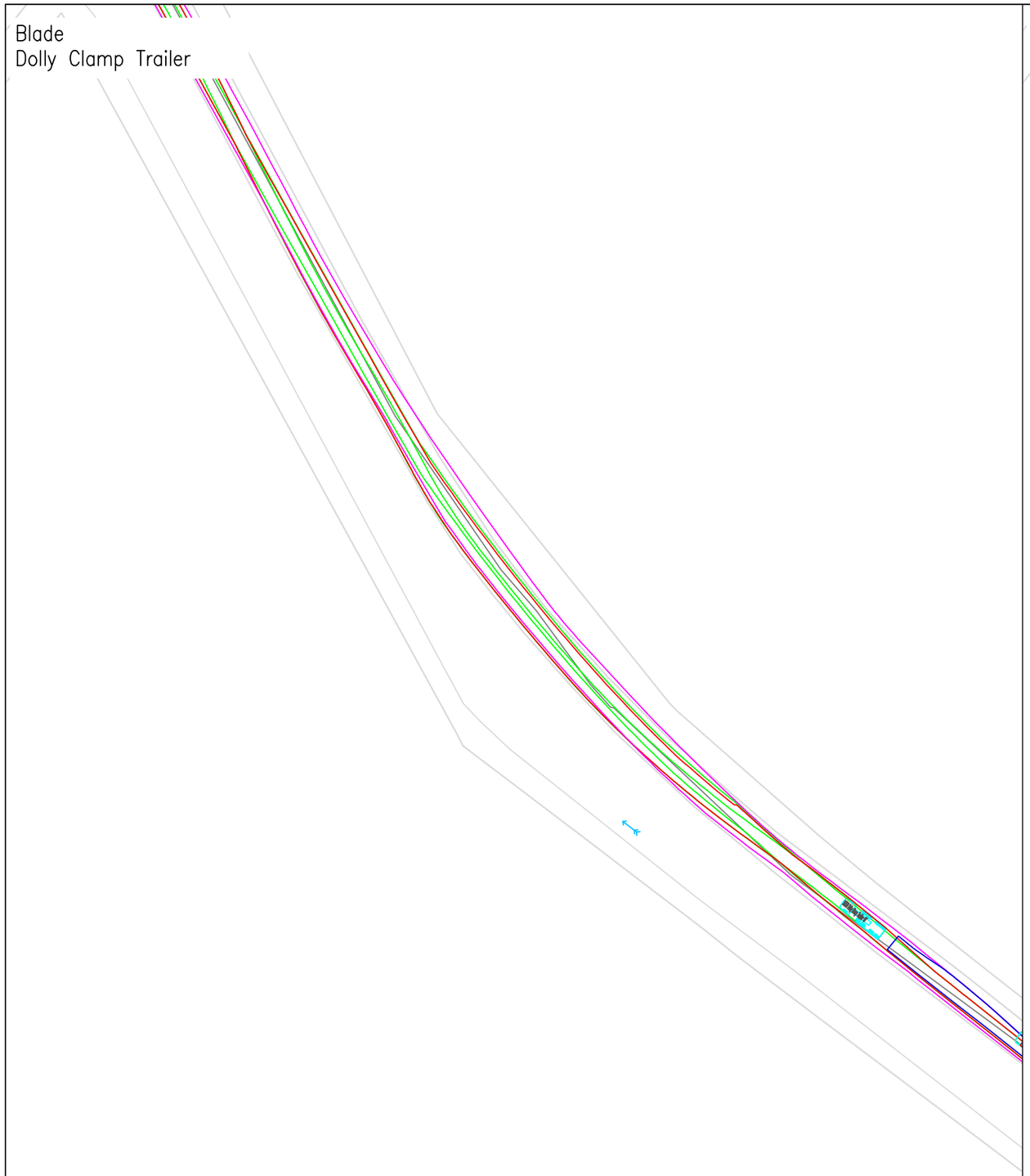
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Drawing No.: SK06A

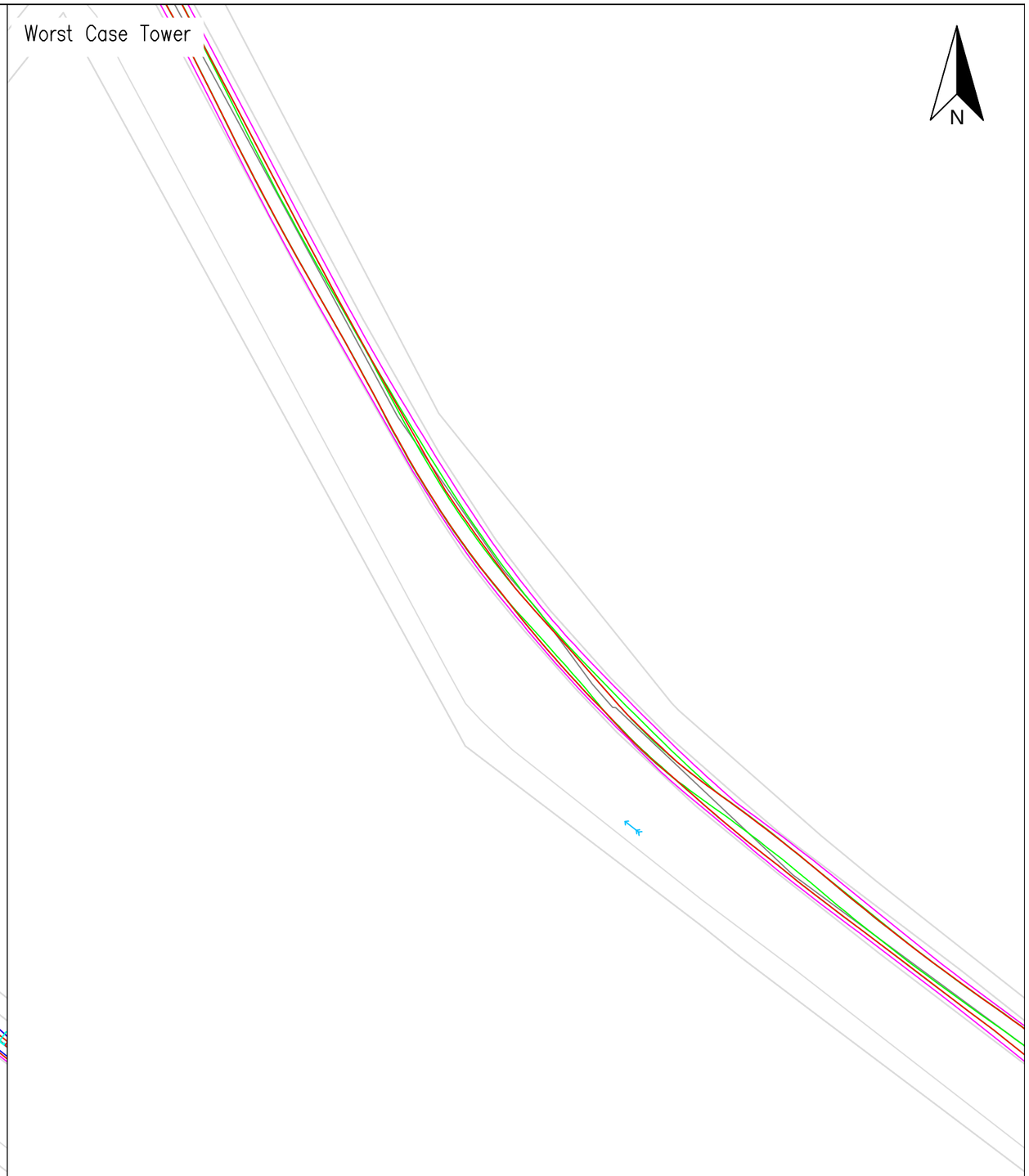
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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: B9175 Ankerville

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		7

Scale: 1:1000 @ A3

File No. 250829 Creachan SPA SG170.dwg

Drawing Status: Draft

Drawing No. SK07

Notes:
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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: B9175 Ankerville

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		7

Scale: 1:1000 @ A3

File No.: 250829 Creachan SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK07A

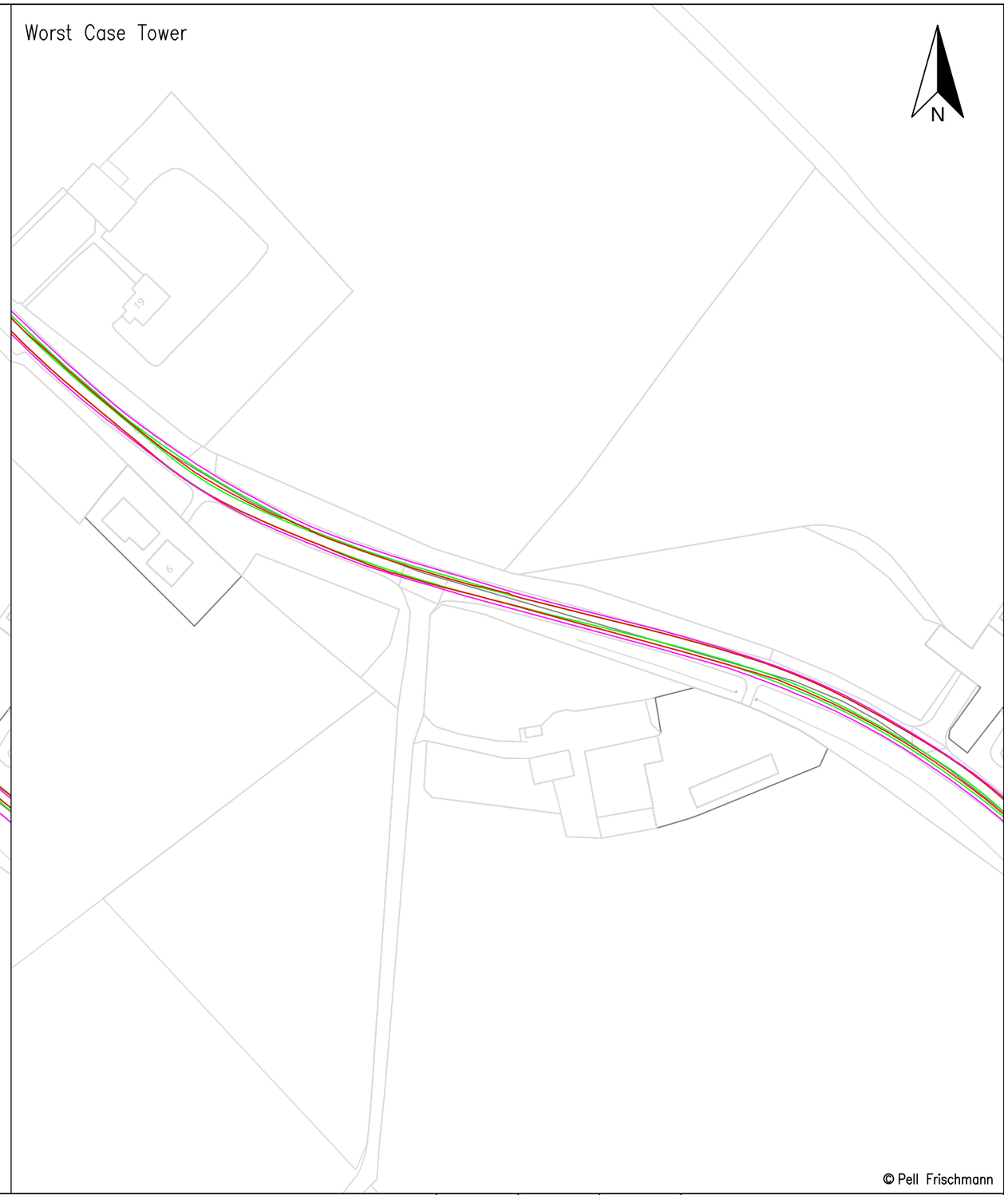
Notes:
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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: B9175 Arabella Bends

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		8

Scale: 1:1500 @ A3

File No.: 250829 Creachan SPA SG170.dwg

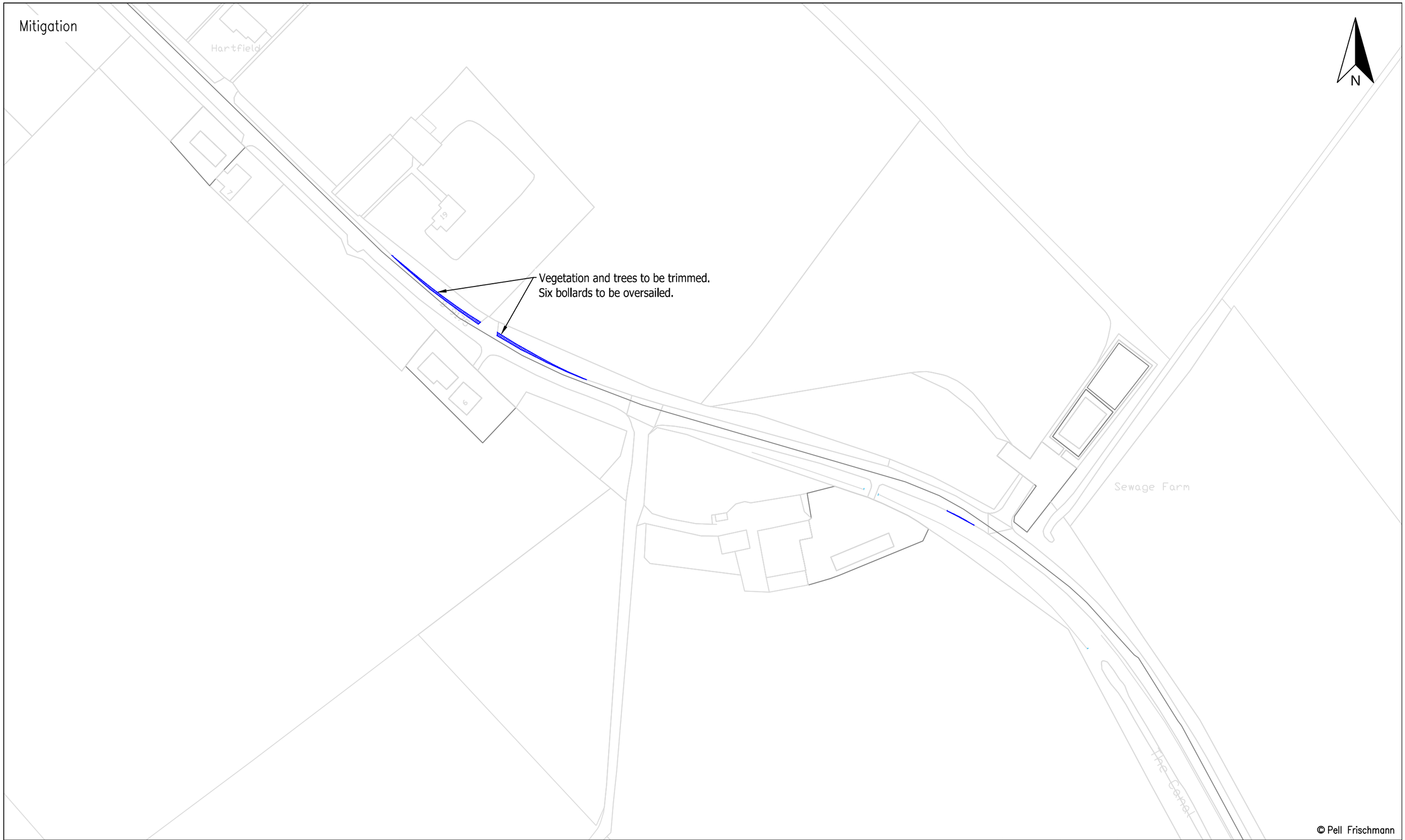
Drawing Status: Draft

Drawing No.: SK08

Notes:
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Revision: 0

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: B9175 Arabella Bends

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		8

Scale: 1:1500 @ A3

File No.: 250829 Creachan SPA SG170.dwg

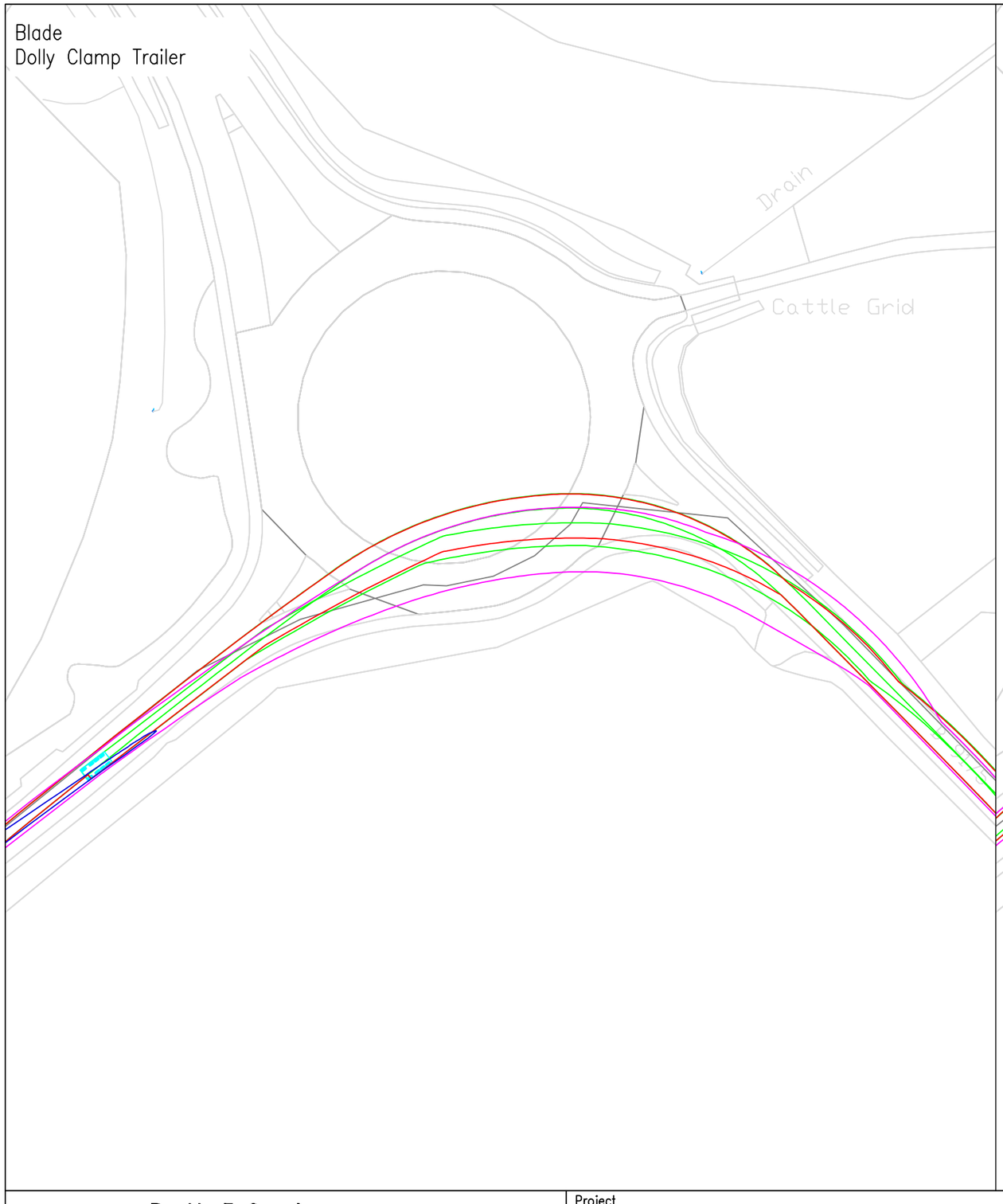
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Drawing No.: SK08A

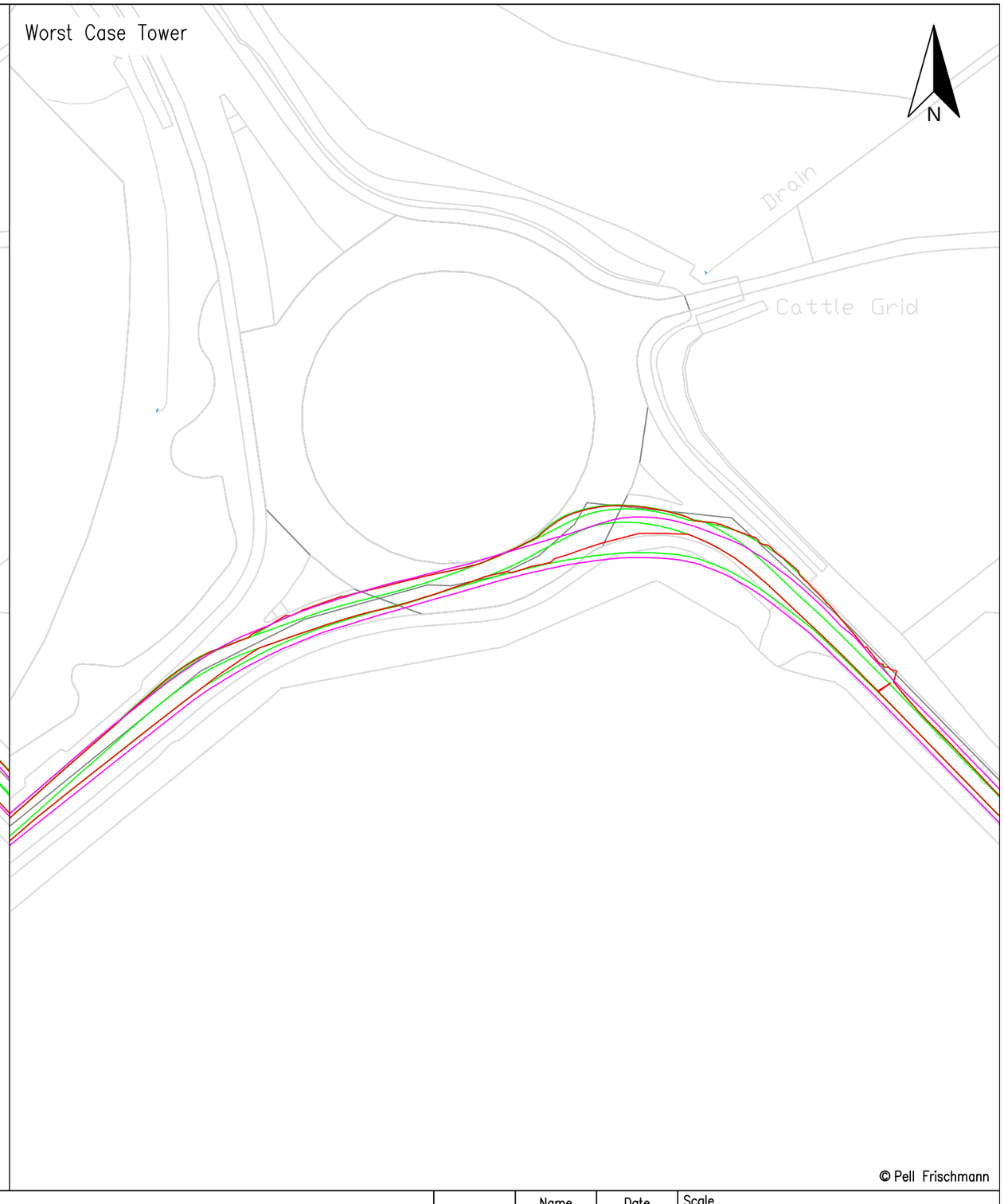
Notes:
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Blade
Dolly Clamp Trailer



Worst Case Tower



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Client: RWE

Key: Wheel SPA; Body SPA; Load SPA; Indicative; Over-run; Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: B9175 / A9 Nigg Roundabout

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		10

Scale: 1:1000 @ A3

File No.: 250829 Creachan SPA SG170.dwg

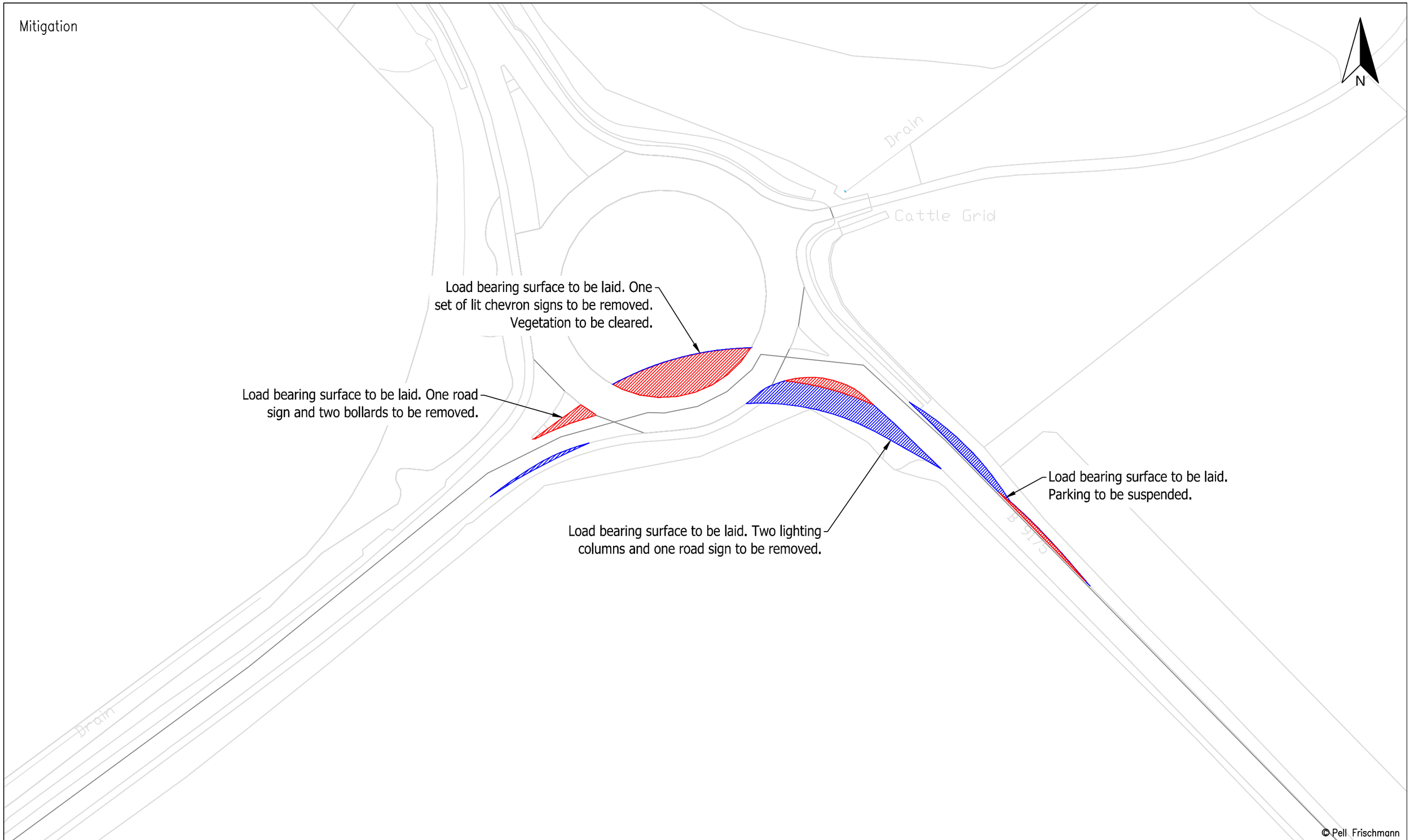
Drawing Status: Draft

Drawing No.: SK09

Notes:
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Client: RWE

Key: Wheel SPA; Body SPA; Load SPA; Indicative; Over-run; Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: B9175 / A9 Nigg Roundabout

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		10

Scale: 1:1000 @ A3

File No.: 250829 Creachan SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK09A

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: A9 / Obsdale Road Junction

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		11, 12

Scale: 1:500 @ A3

File No.: 250829 Creachan SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK10

Notes:
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Revision: 0

Mitigation

N

One road sign and one lighting column to be removed. Vegetation to be trimmed.

Blade to oversail trees, one lit road sign and lighting column.

One road sign to be removed.

Load bearing surface to be laid. One road sign and two bollards to be removed.

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: A9 / Obsdale Road Junction

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		11, 12

Scale: 1:500 @ A3

File No.: 250829 Creachan SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK10A

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: Obsdale Road / Caplich Road Junction

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		13

Scale: 1:1000 @ A3

File No.: 250829 Creachan SPA SG170.dwg

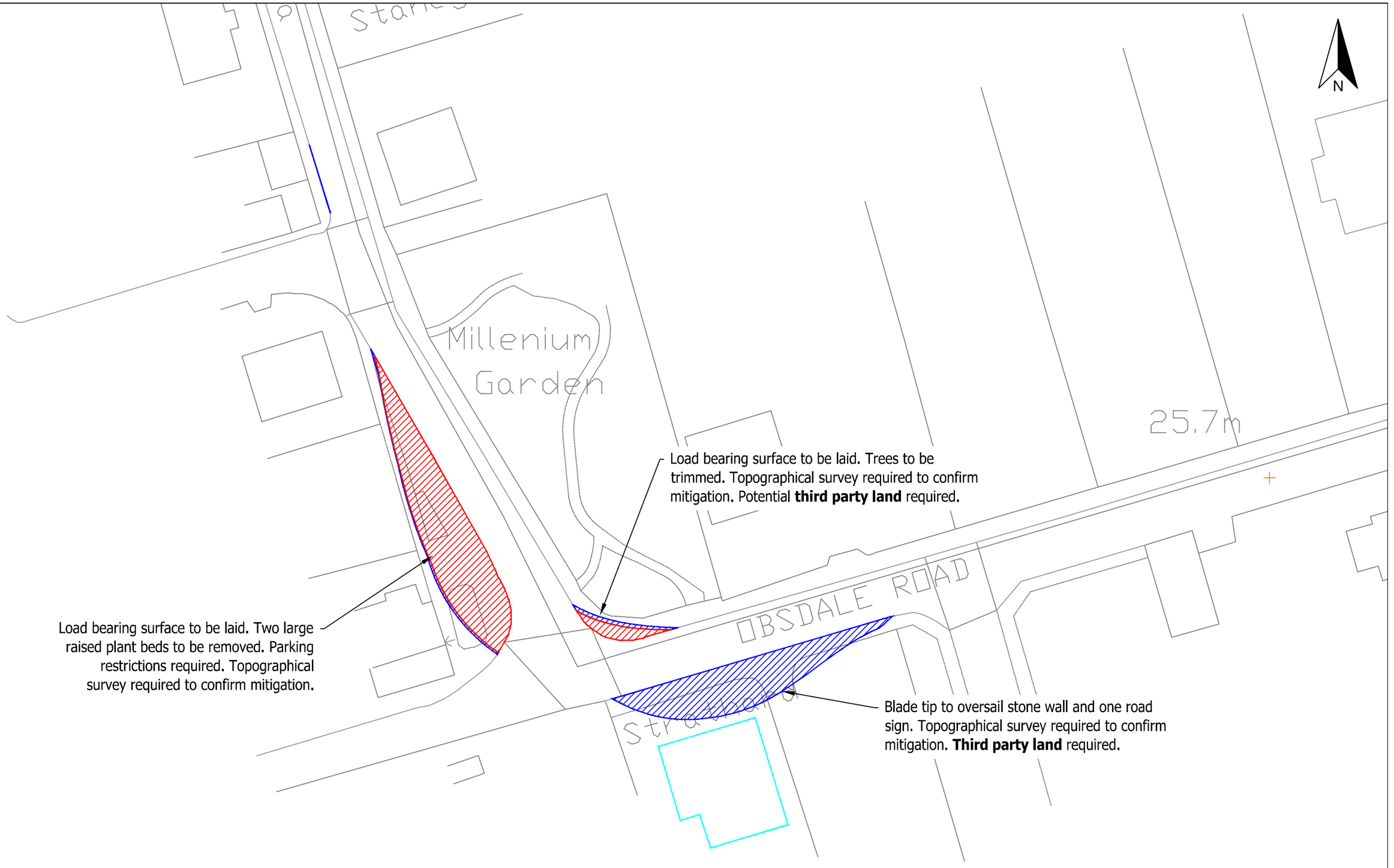
Drawing Status: Draft

Drawing No.: SK11

Notes:
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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: Obsdale Road / Caplich Road Junction

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		13

Scale: 1:500 @ A3

File No.: 250829 Creachan SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK11A

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: Left Bend, Caplich Road

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		14

Scale: 1:500 @ A3

File No.: 250829 Creachan SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK12

Notes:
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Revision: 0

Mitigation

N

Blade tip to oversail lighting column and vegetation.

Leyl

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: Left Bend, Caplich Road

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		14

Scale: 1:500 @ A3

File No.: 250829 Creachan SPA SG170.dwg

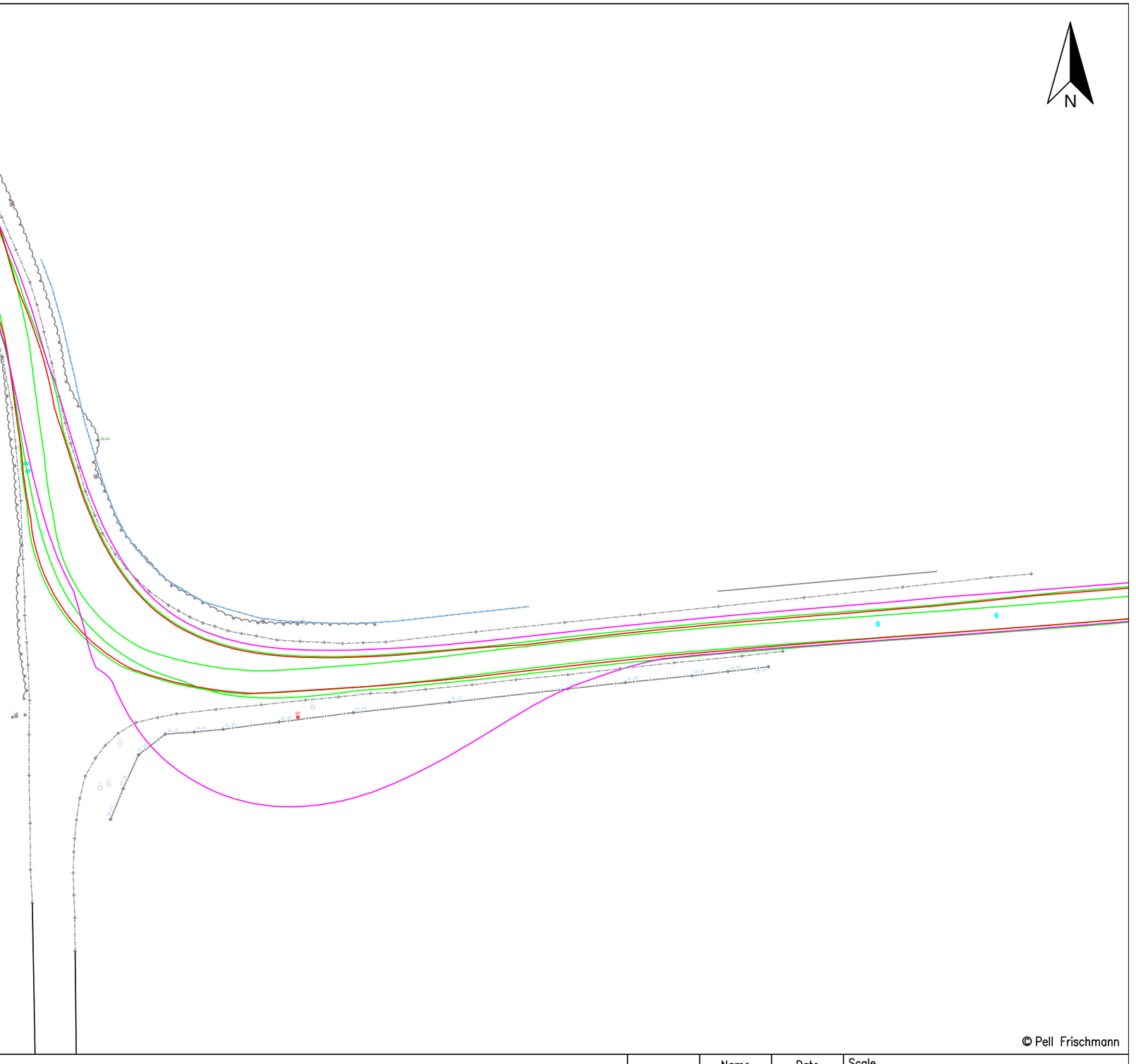
Drawing Status: Draft

Drawing No.: SK12A

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: Caplich Road / Ardross Road Junction

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		15

Scale: 1:500 @ A3

File No.: 250829 Creachan SPA SG170.dwg

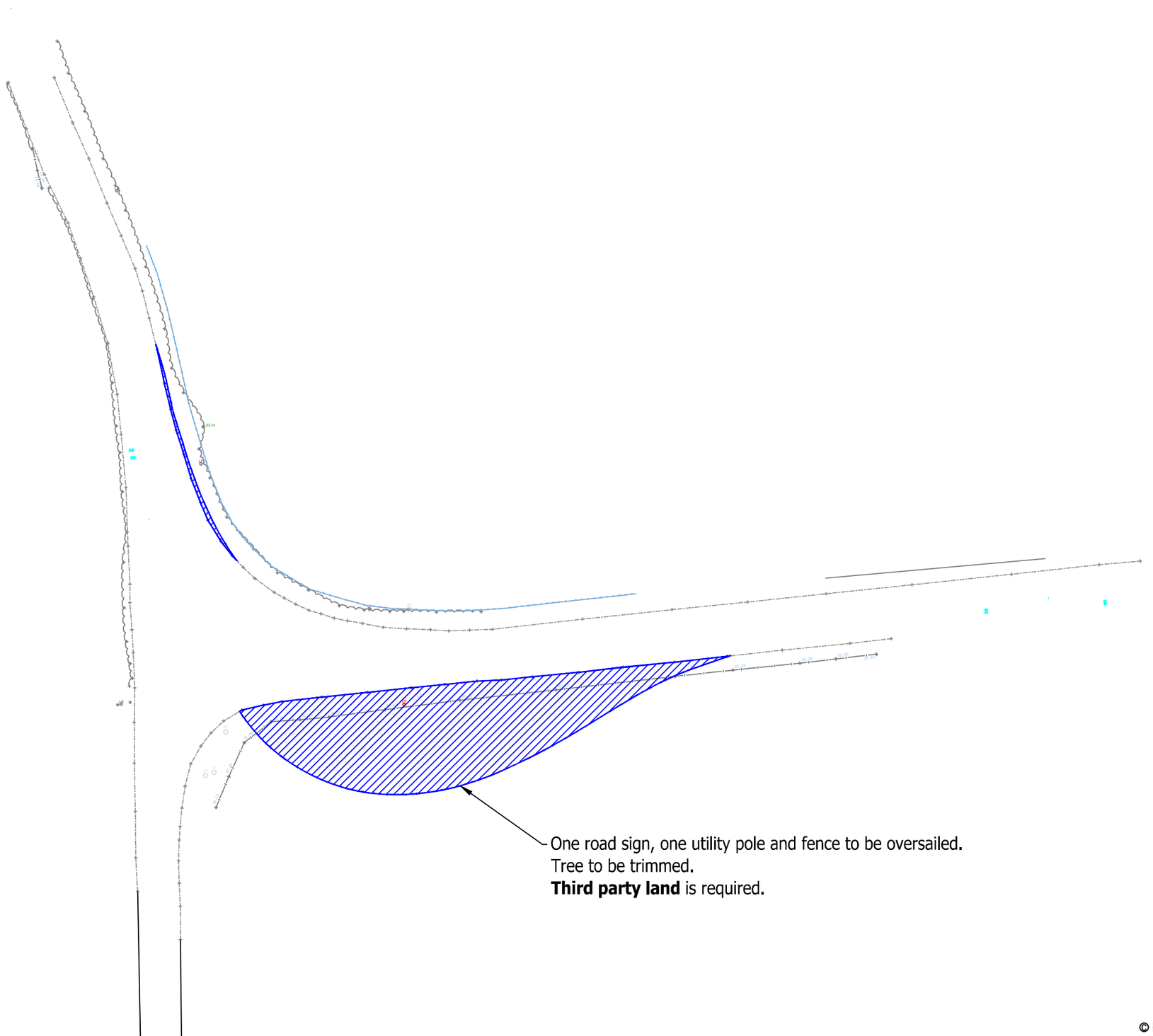
Drawing Status: Draft

Drawing No.: SK13

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Mitigation



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Client: RWE

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Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: Caplich Road / Ardross Road Junction

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		15

Scale: 1:500 @ A3

File No.: 250829 Creachan SPA SG170.dwg

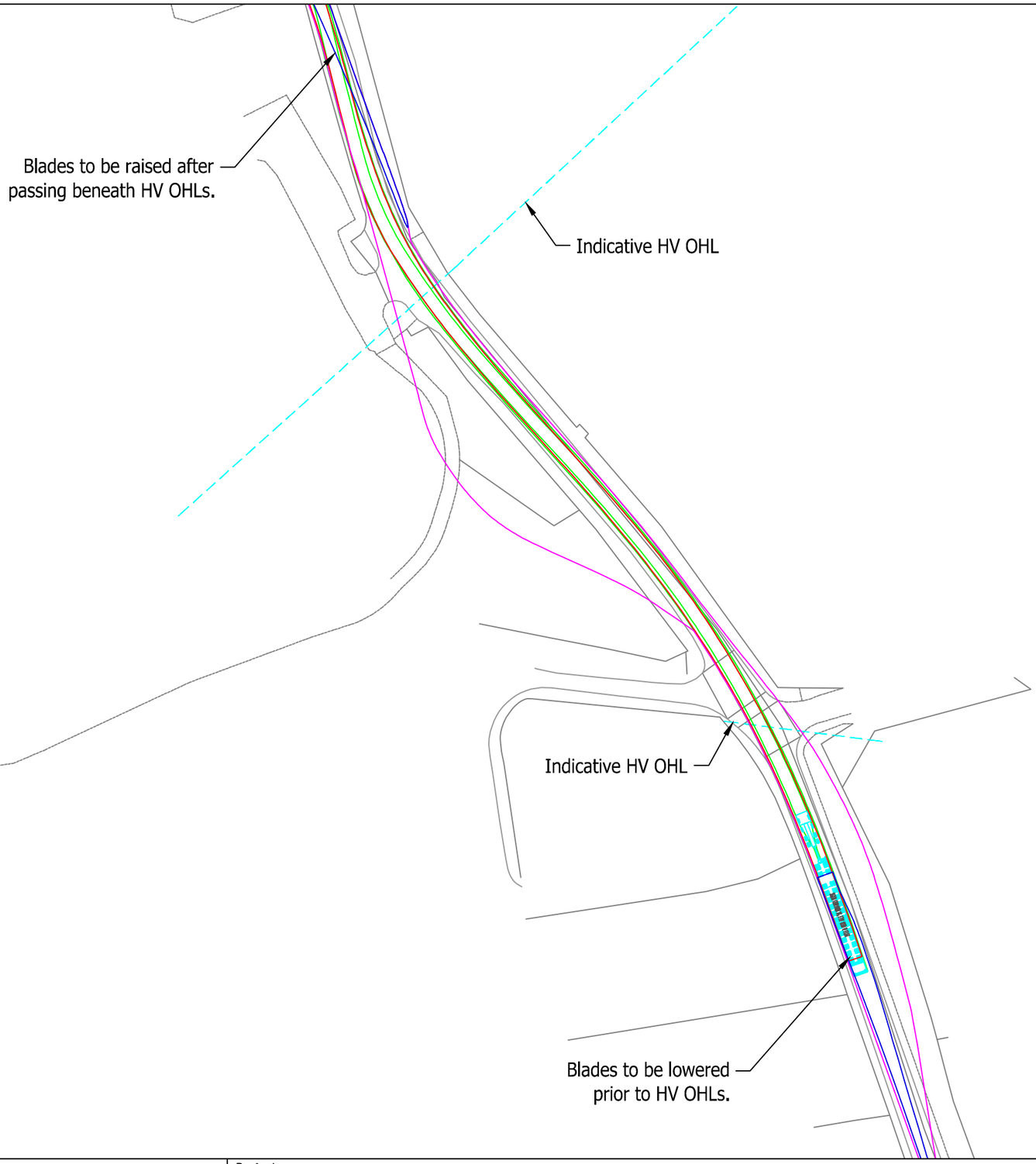
Drawing Status: Draft

Drawing No.: SK13A

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: Ardross Road, Alness

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		16

Scale: 1:1000 @ A3

File No.: 250829 Creachan SPA SG170.dwg

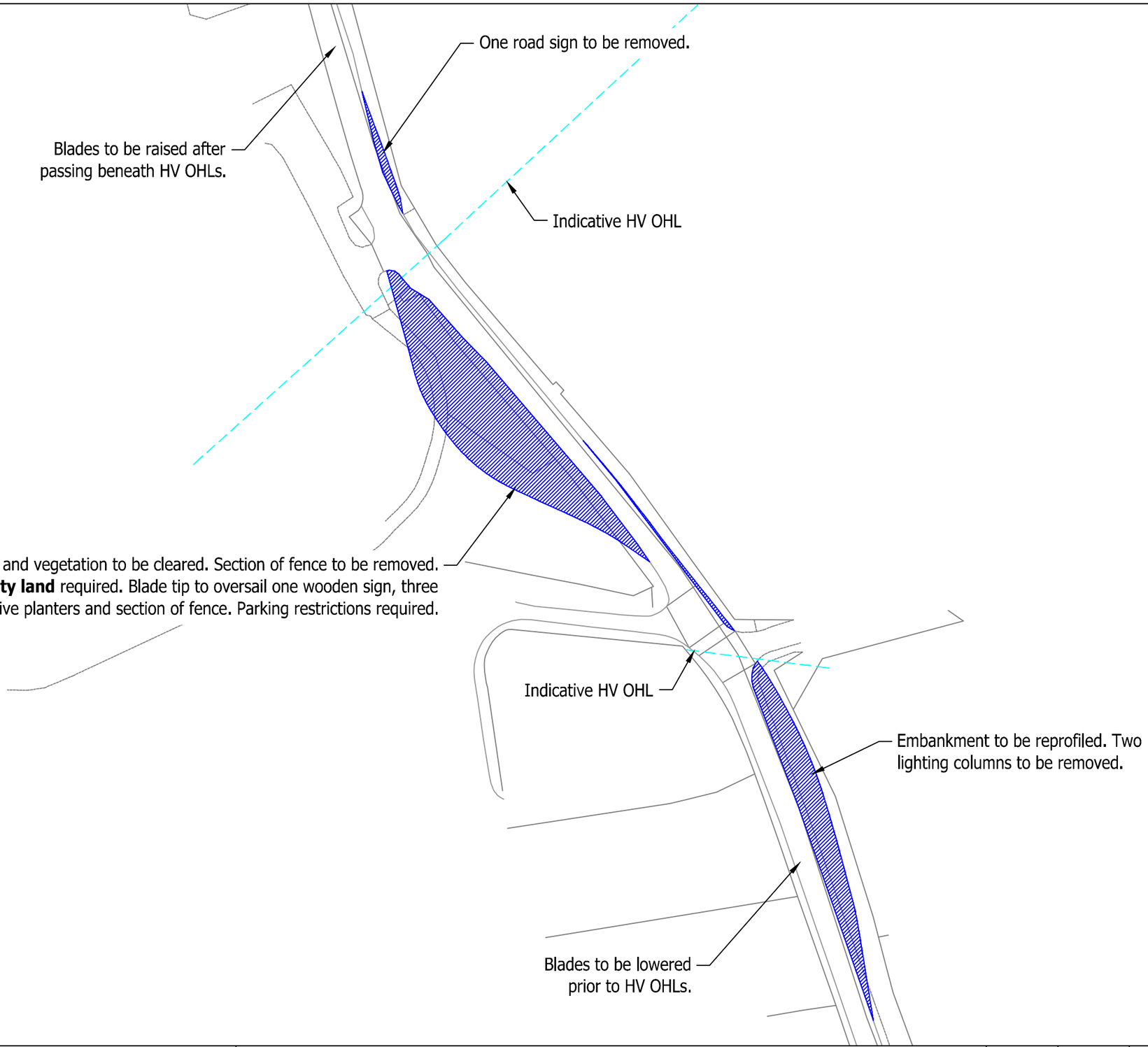
Drawing Status: Draft

Drawing No.: SK14

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Client: RWE

Key: Wheel SPA; Body SPA; Load SPA; Indicative; Over-run; Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: Ardross Road, Alness

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		16

Scale: 1:1000 @ A3

File No.: 250829 Creachan SPA SG170.dwg

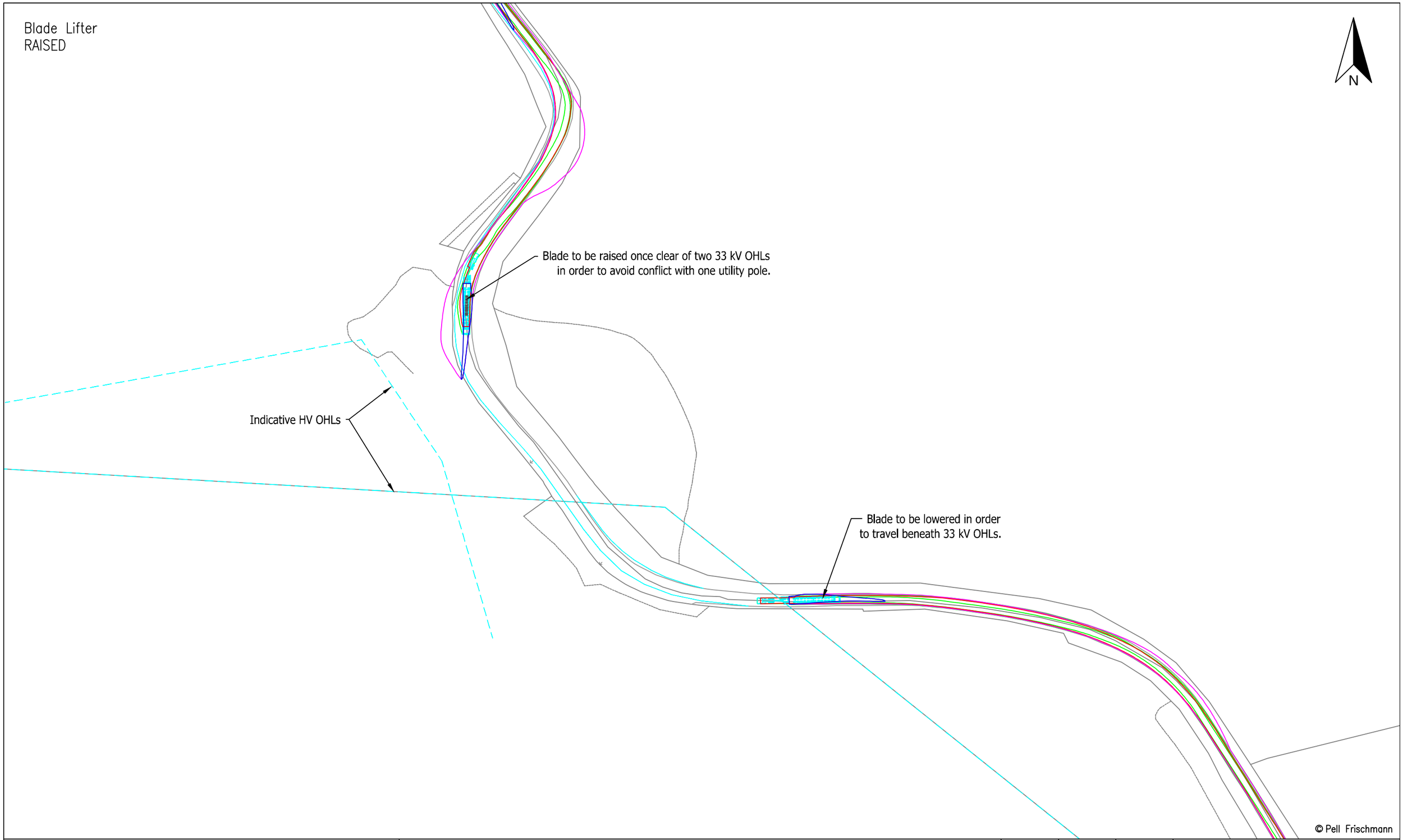
Drawing Status: Draft

Drawing No.: SK14A

Notes:
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Revision: 0

Blade Lifter
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www.pellfrischmann.com

Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: Ardross Road, South of Craig Oudag

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		17 – 19

Scale: 1:1250 @ A3

File No.: 250829 Creachan SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK15

Notes:
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.

Revision: 0

Blade Lifter
FLAT

N

Blade to be raised once clear of two 33 kV OHLs in order to avoid conflict with one utility pole.

Indicative HV OHLs

Blade to be lowered in order to travel beneath 33 kV OHLs.

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: Ardross Road, South of Craig Oudag

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		17 – 19

Scale: 1:1250 @ A3

File No.: 250829 Creachan SPA SG170.dwg

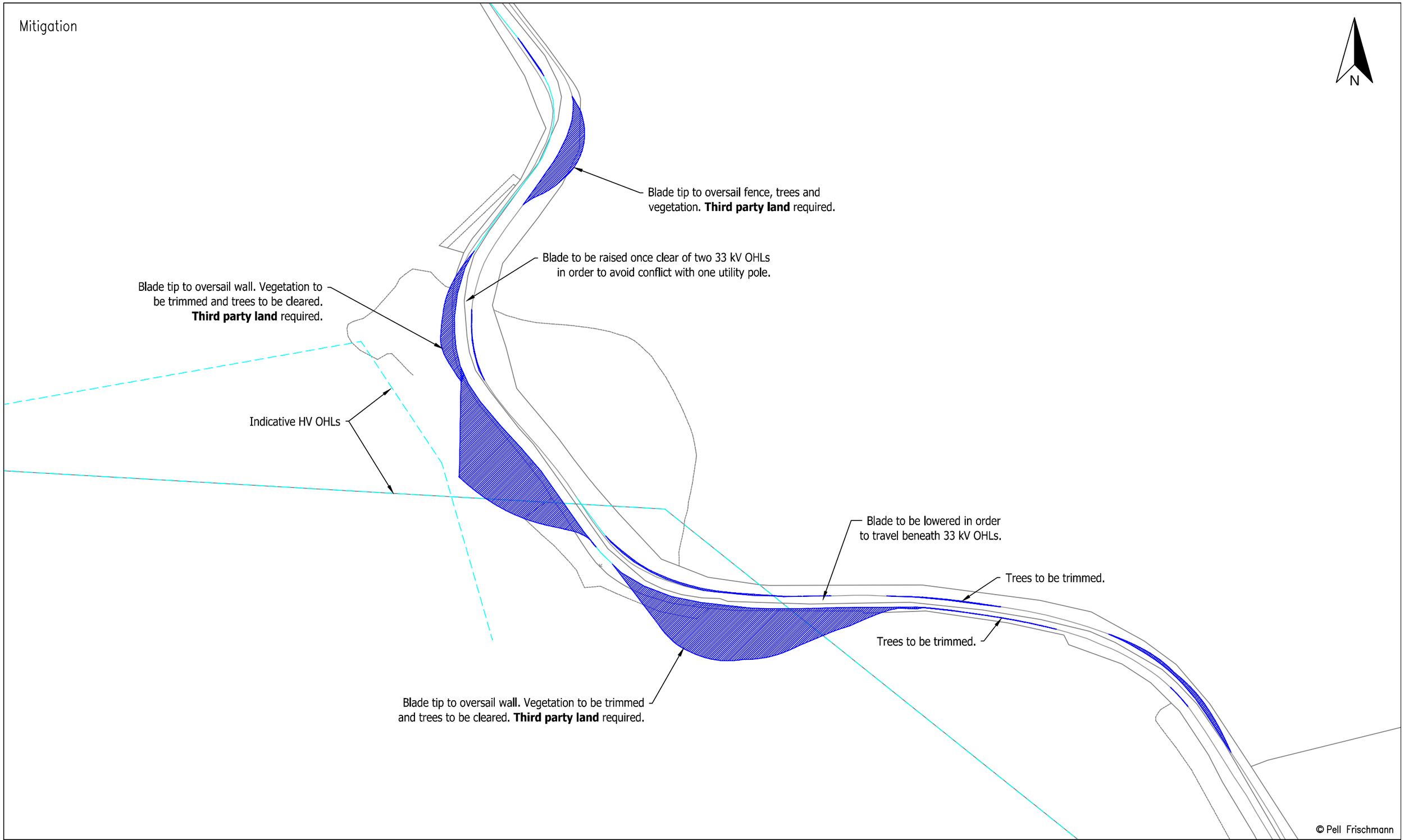
Drawing Status: Draft

Drawing No.: SK15A

Notes:
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Revision: 0

Mitigation



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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: Ardross Road, South of Craig Oudag

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		17 – 19

Scale: 1:1500 @ A3

File No.: 250829 Creachan SPA SG170.dwg

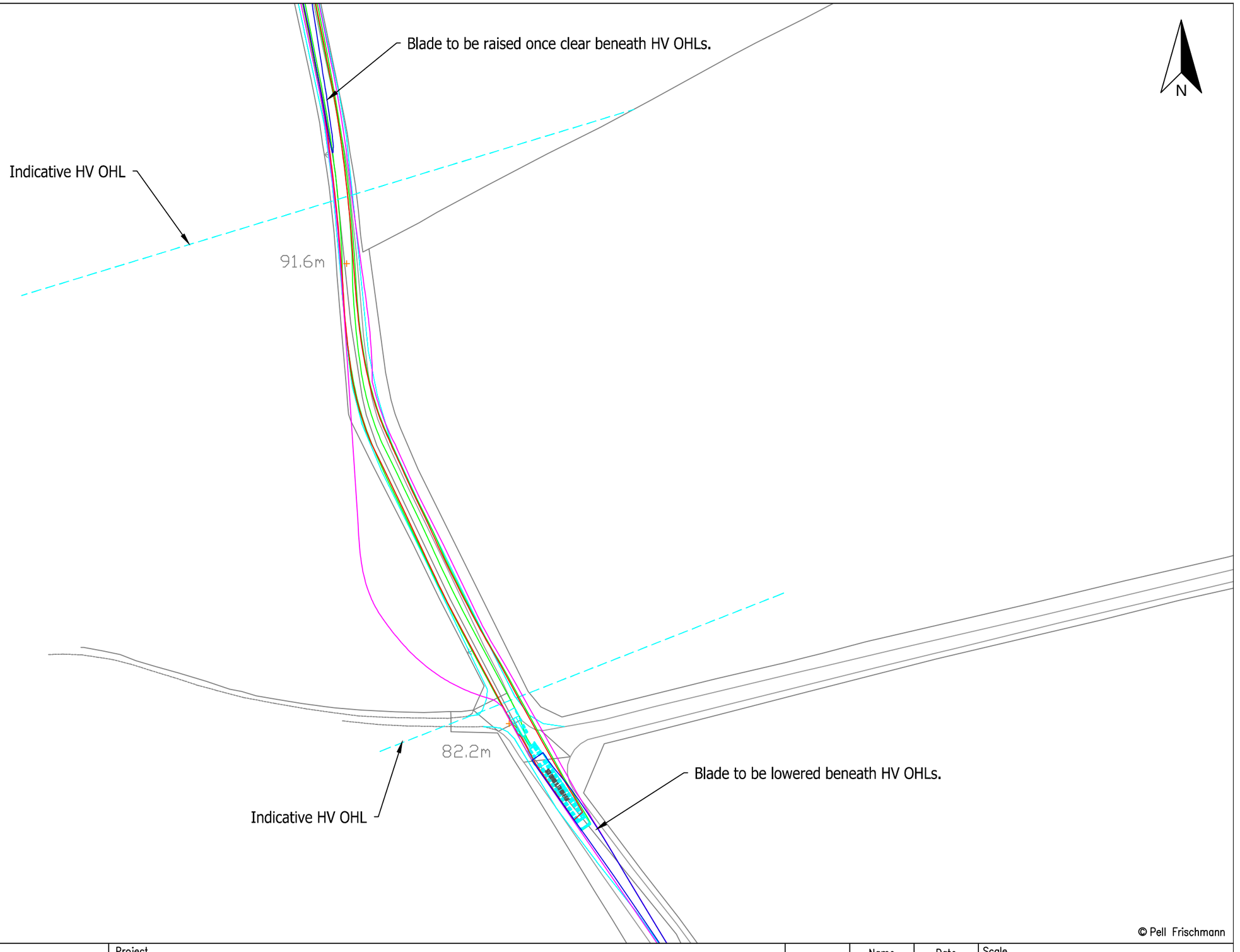
Drawing Status: Draft

Drawing No.: SK15B

Notes:
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Revision: 0

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: Ardross Road, Craig Oudag

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		20

Scale: 1:500 @ A3

File No.: 250829 Creachan SPA SG170.dwg

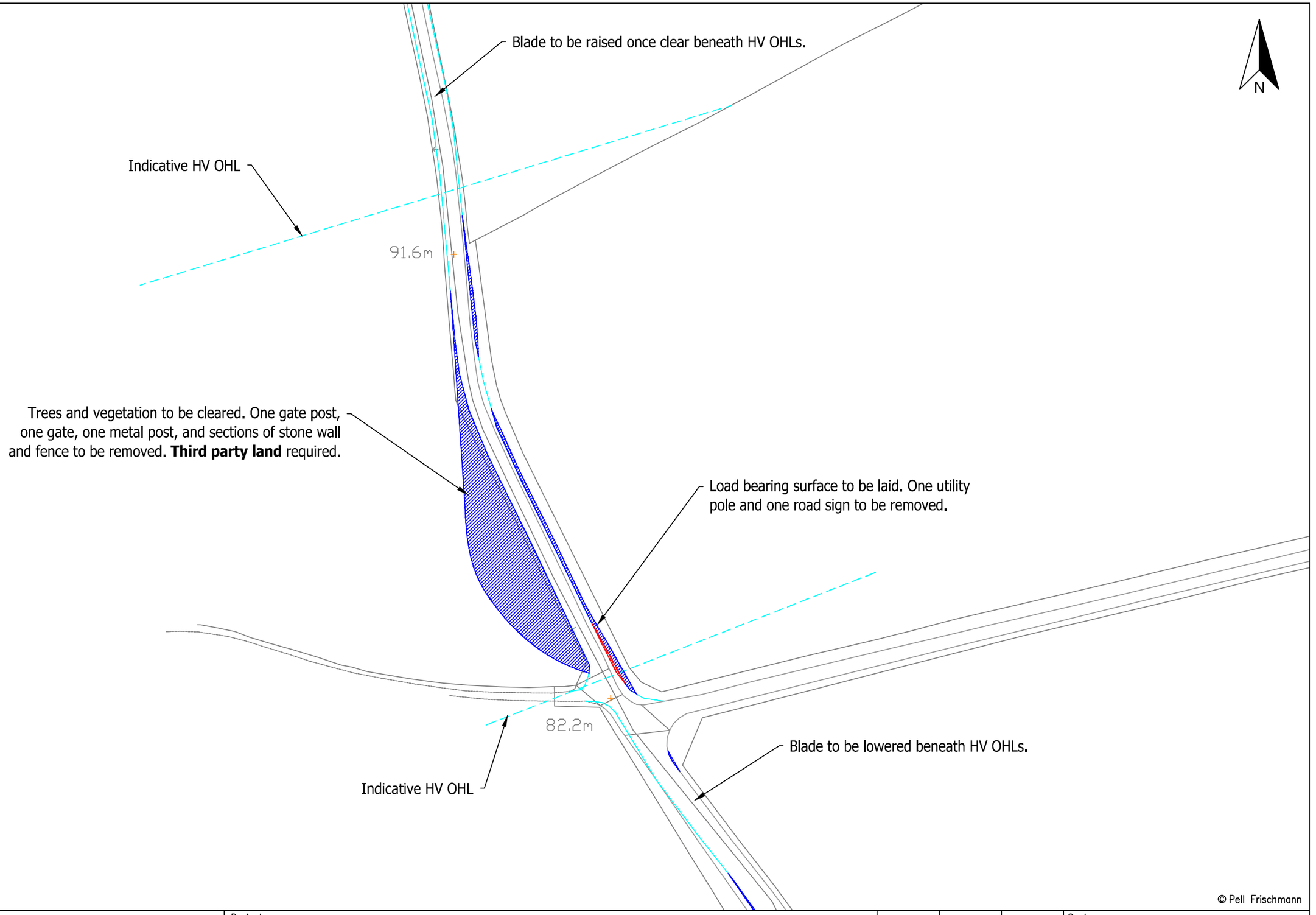
Drawing Status: Draft

Drawing No.: SK16

Notes:
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Revision: 0

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: Ardross Road, Craig Oudag

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		20

Scale: 1:1000 @ A3

File No.: 250829 Creachan SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK16A

Notes:
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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: Ardross Road, North of Craig Oudag

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		21

Scale: 1:500 @ A3

File No.: 250829 Creachan SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK17

Notes:
1. All mitigation is subject to confirmation through a test run.
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Revision: 0

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over–run | Over–sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: Ardross Road, North of Craig Oudag

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		21

Scale: 1:1000 @ A3

File No.: 250829 Creachan SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK17A

Notes:
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2. This is not a construction drawing and is intended for illustration purposes only.

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Client: RWE

Key: Wheel SPA; Body SPA; Load SPA; Indicative; Over-run; Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: Ardross Cattery, Alness

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		22

Scale: 1:1000 @ A3

File No.: 250829 Creachan SPA SG170.dwg

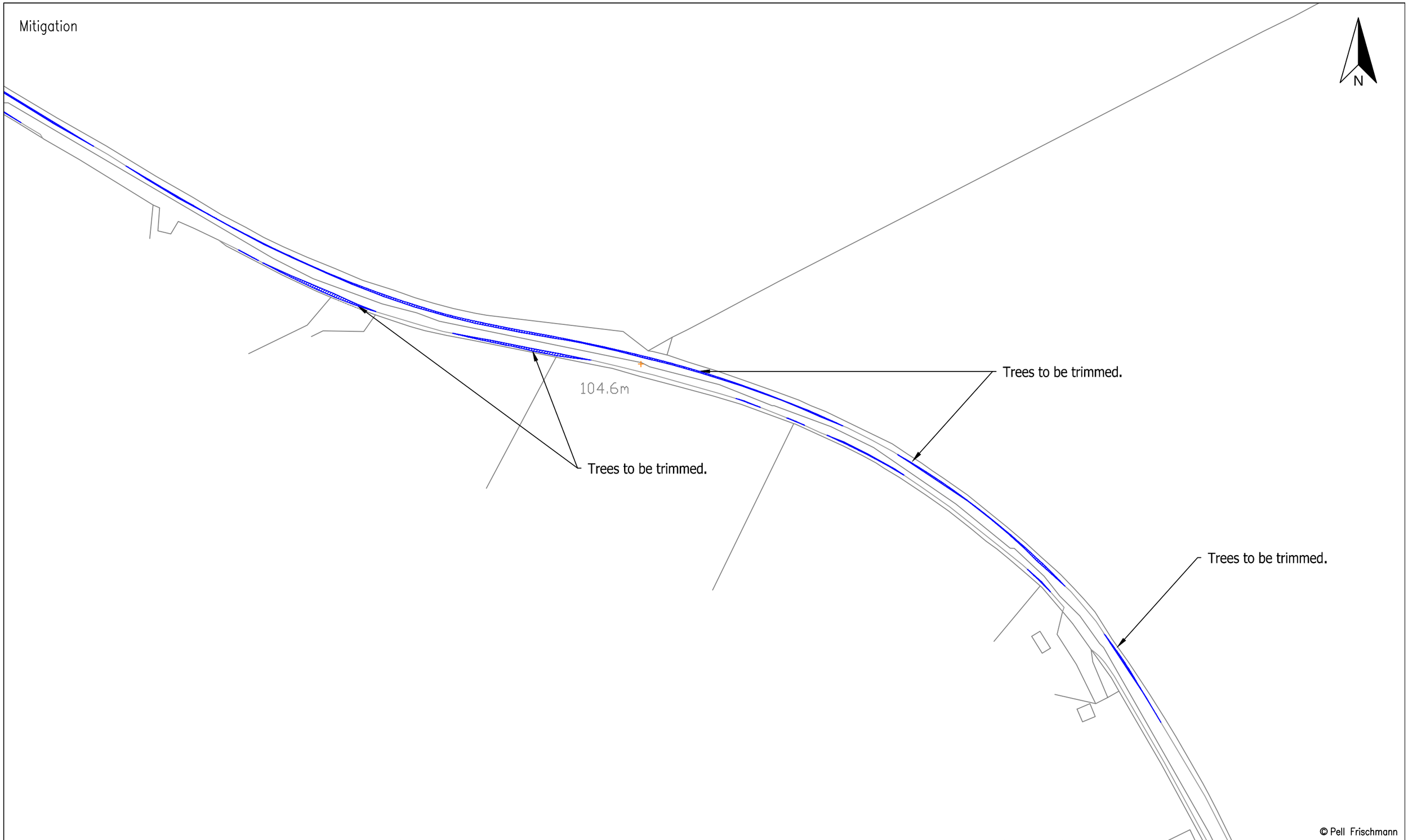
Drawing Status: Draft

Drawing No.: SK18

Notes:
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Revision: 0

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: Ardross Cattery, Alness

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		22

Scale: 1:1000 @ A3

File No.: 250829 Creachan SPA SG170.dwg

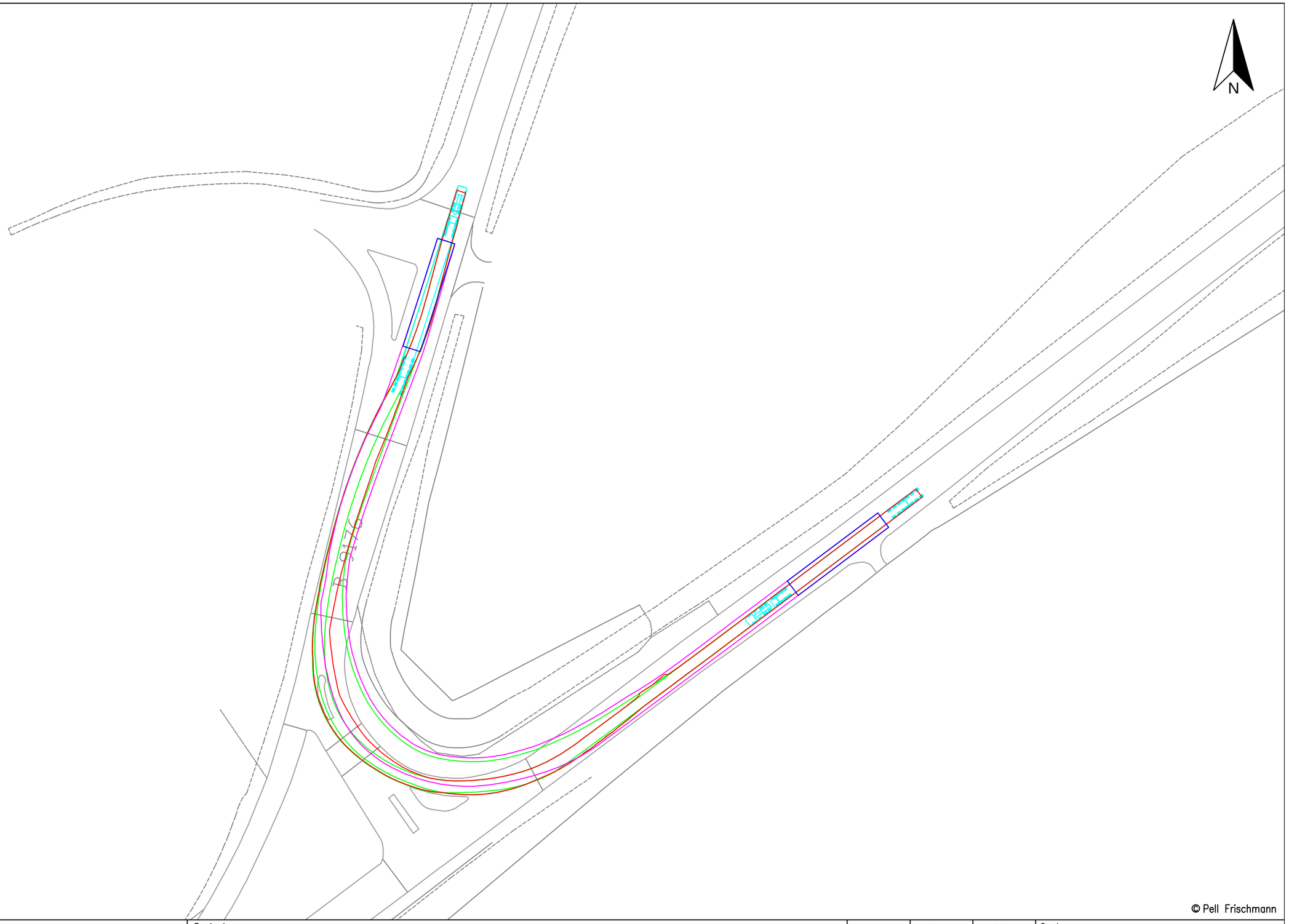
Drawing Status: Draft

Drawing No.: SK18A

Notes:
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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: A9 / B9176 Junction – Skiach Services

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		25

Scale: 1:500 @ A3

File No.: 250829 Creachan SPA SG170.dwg

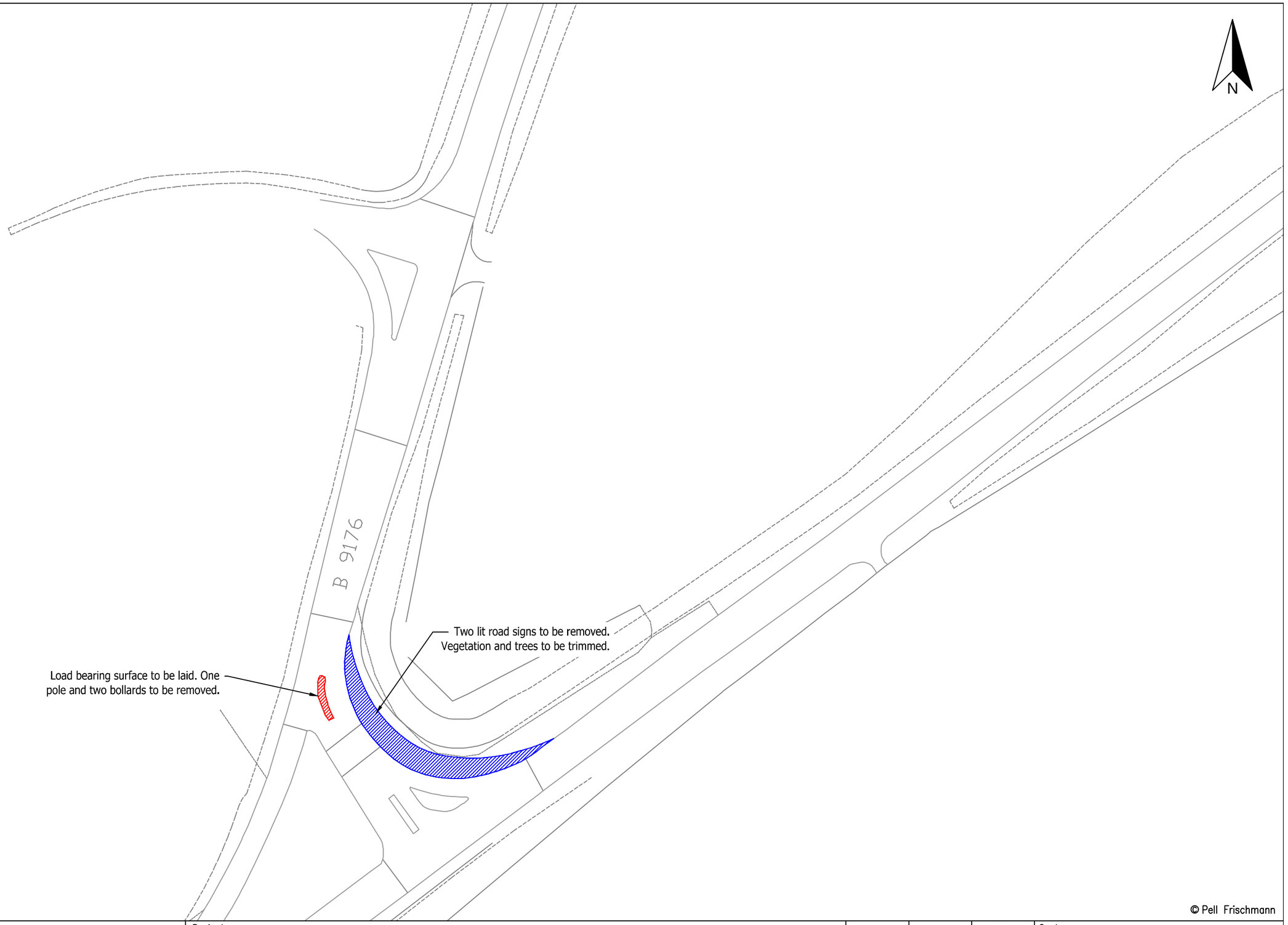
Drawing Status: Draft

Drawing No.: SK19

Notes:
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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: A9 / B9176 Junction – Skiach Services

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		25

Scale: 1:500 @ A3

File No.: 250829 Creachan SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK19A

Notes:
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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: B9176 West Contullich

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		27

Scale: 1:1500 @ A3

File No.: 250829 Creachan SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK20

Notes:
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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: B9176 West Contullich

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		27

Scale: 1:1500 @ A3

File No.: 250829 Creachan SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK20A

Notes:
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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: B9176 Craig Oudag

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		30

Scale: 1:1250 @ A3

File No.: 250829 Creachan SPA SG170.dwg

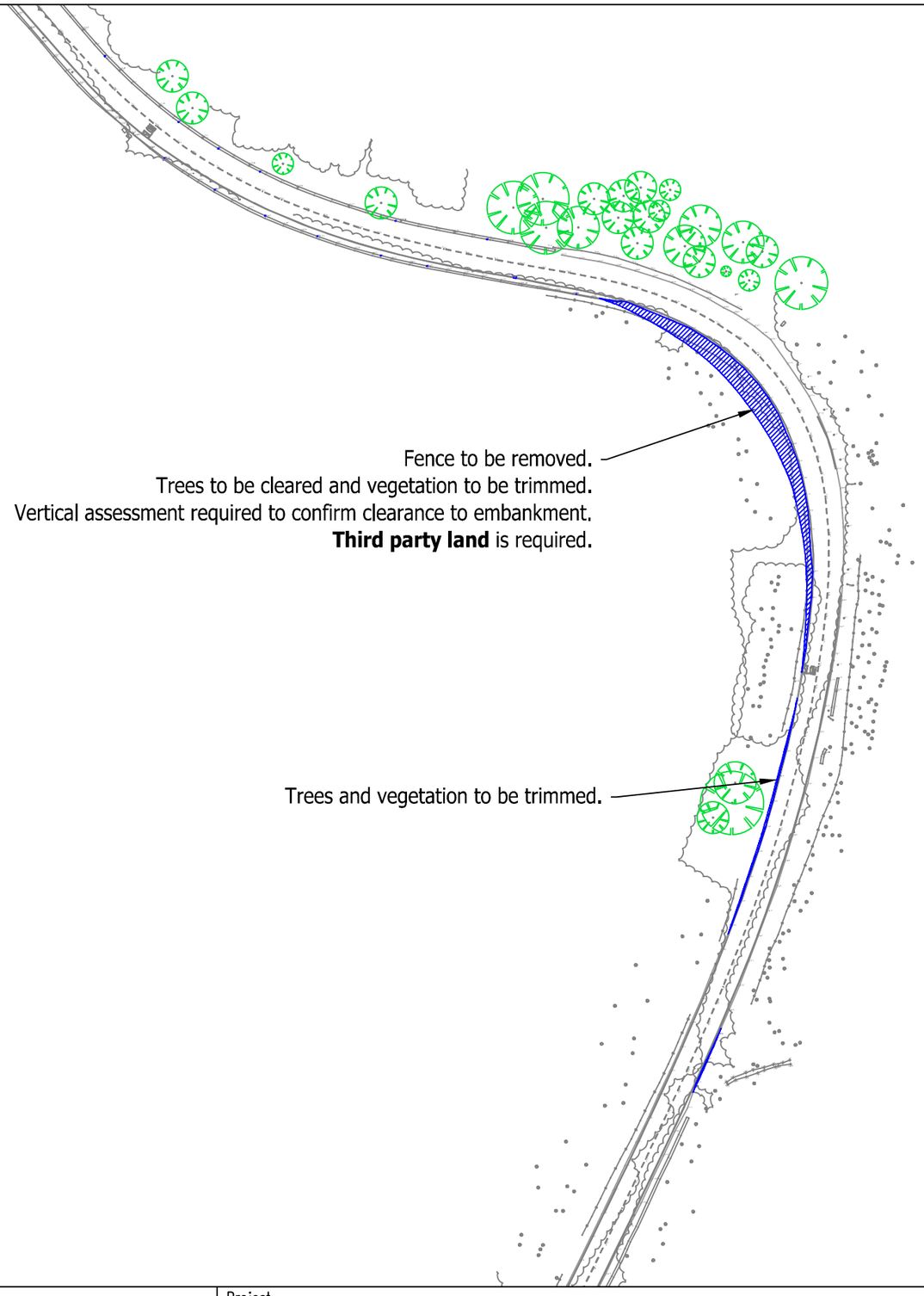
Drawing Status: Draft

Drawing No.: SK21

Notes:
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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: B9176 Craig Oudag

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		30

Scale: 1:1250 @ A3

File No.: 250829 Creachan SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK21A

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: B9176 Dalneich Bridge

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		31

Scale: 1:1000 @ A3

File No.: 250829 Creachan SPA SG170.dwg

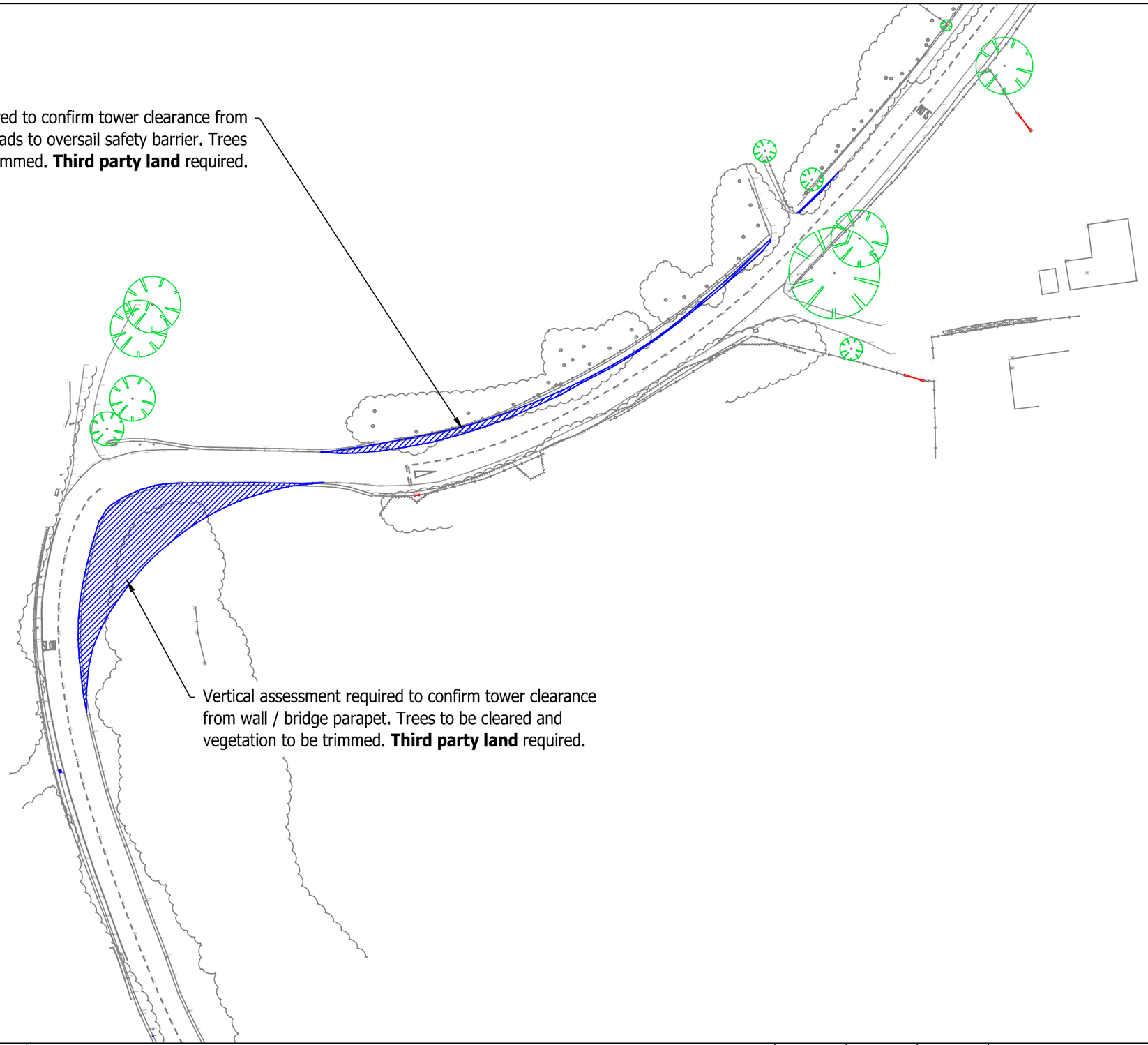
Drawing Status: Draft

Drawing No.: SK22

Notes:
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Revision: 0

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: B9176 Dalneich Bridge

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		31

Scale: 1:1000 @ A3

File No.: 250829 Creachan SPA SG170.dwg

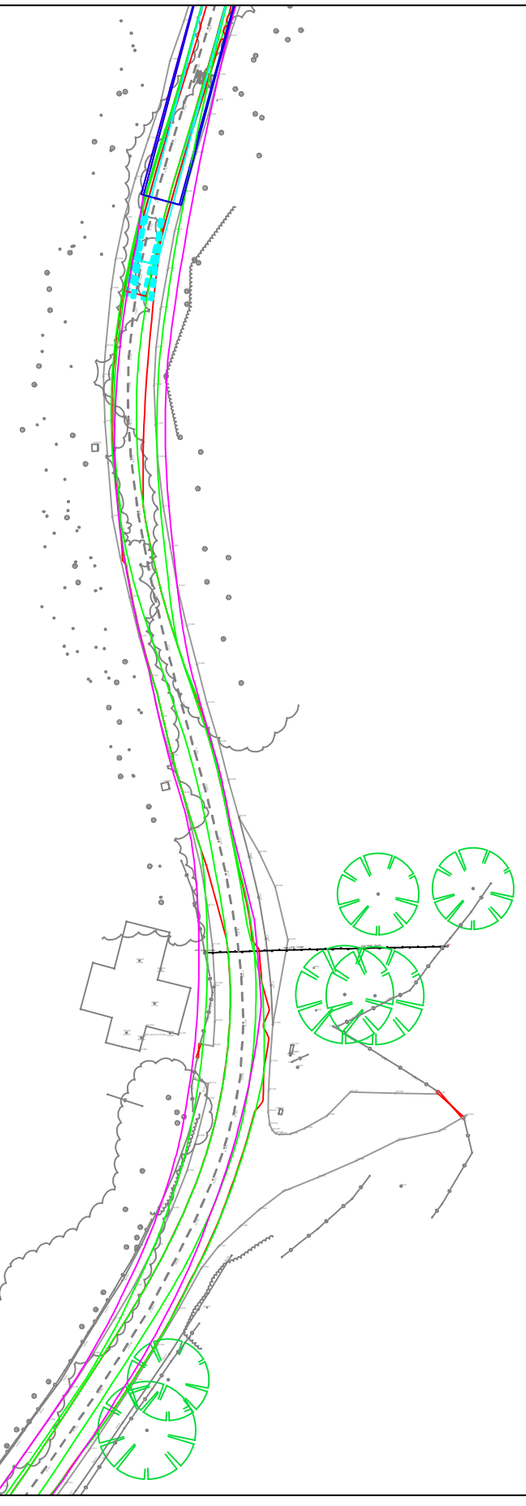
Drawing Status: Draft

Drawing No.: SK22A

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: B9176 west of Ardgowan House

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		32

Scale: 1:1250 @ A3

File No.: 250829 Creachan SPA SG170.dwg

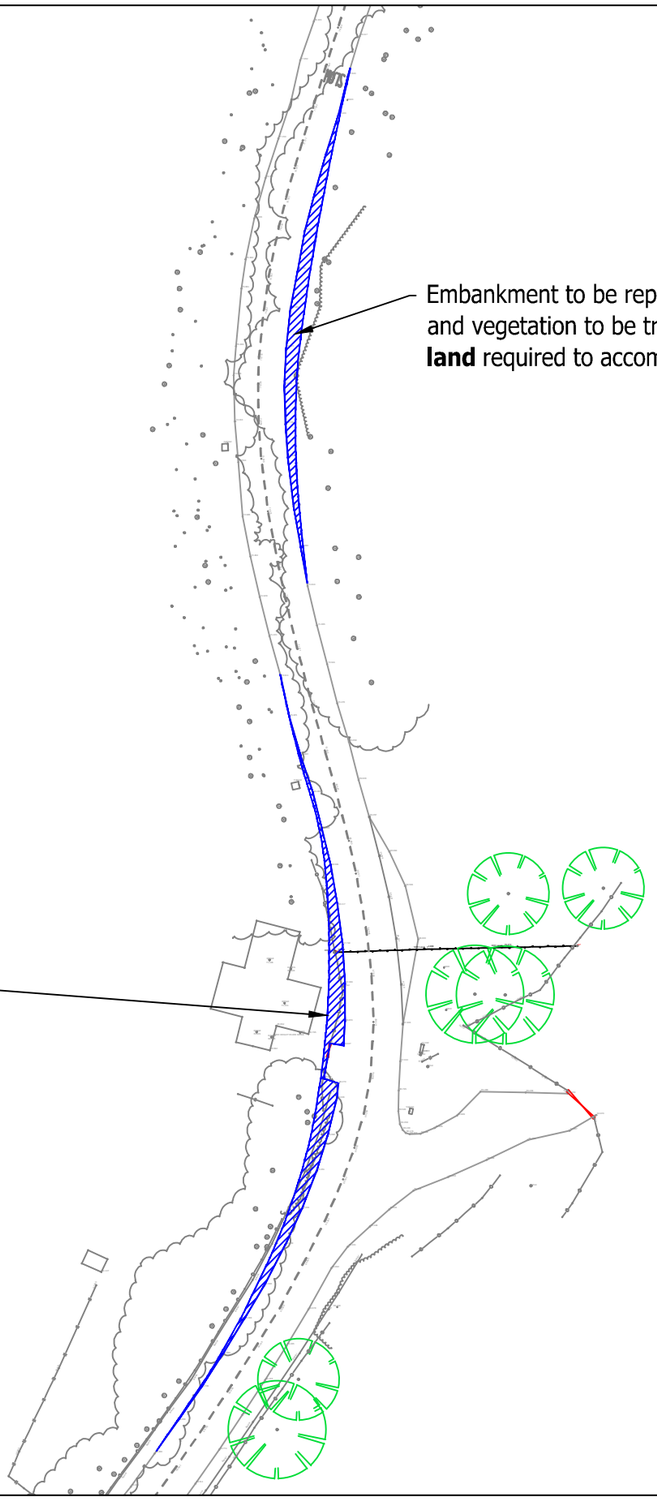
Drawing Status: Draft

Drawing No.: SK23

Notes:
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Revision: 0

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: B9176 west of Ardgowan House

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		32

Scale: 1:1250 @ A3

File No.: 250829 Creachan SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK23A

Notes:
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Revision: 0





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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: Ardross Road / B9176, Achandunie

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		23, 33

Scale: 1:1250 @ A3

File No.: 250829 Creachan SPA SG170.dwg

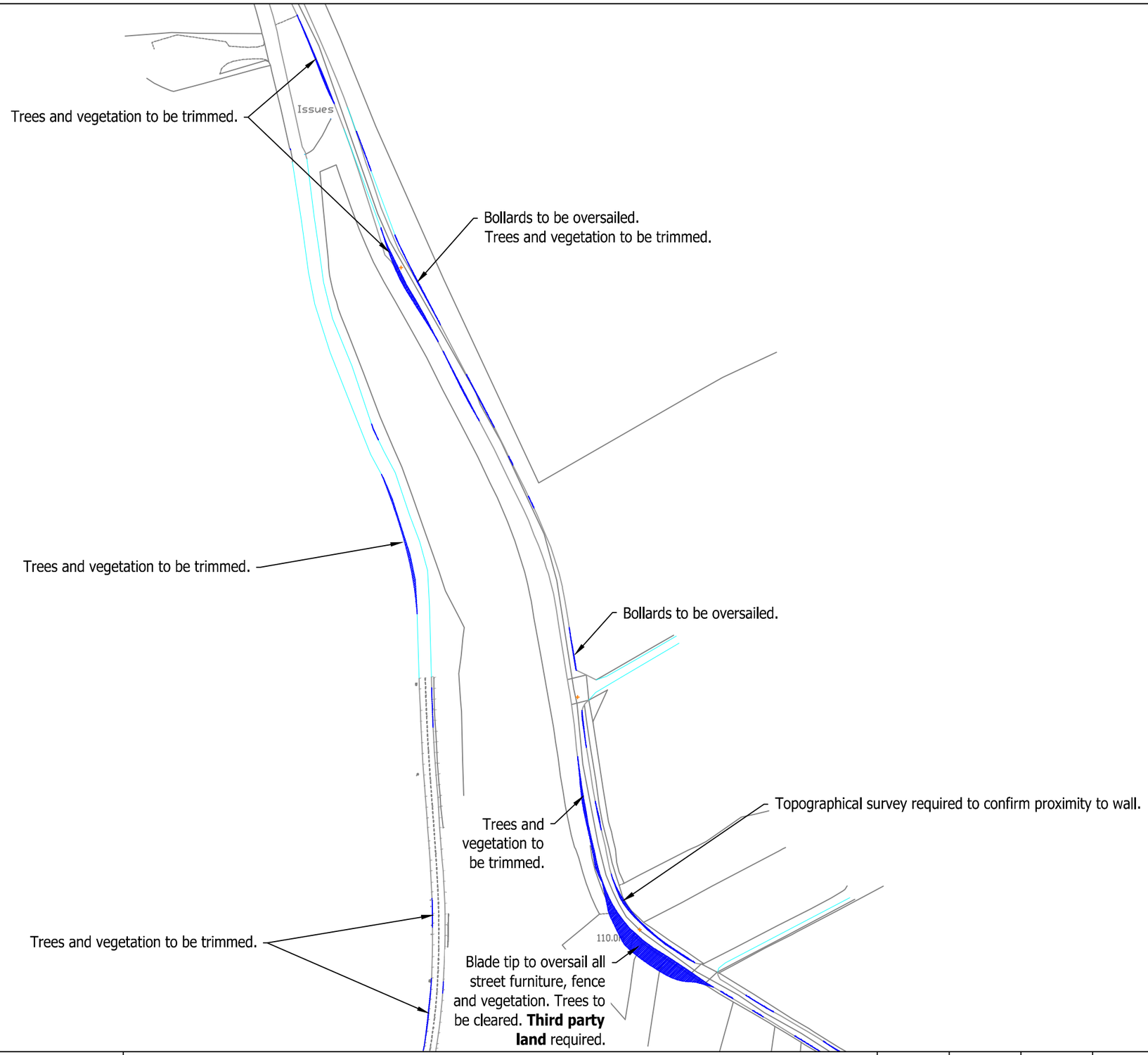
Drawing Status: Draft

Drawing No.: SK24

Notes:
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Revision: 0

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: Ardross Road / B9176, Achandunie

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		23, 33

Scale: 1:2000 @ A3

File No.: 250829 Creachan SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK24A

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Revision: 0

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Worst Case Tower



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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: B9176 East of Holly Island

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		34

Scale: 1:1000 @ A3

File No.: 250829 Creachan SPA SG170.dwg

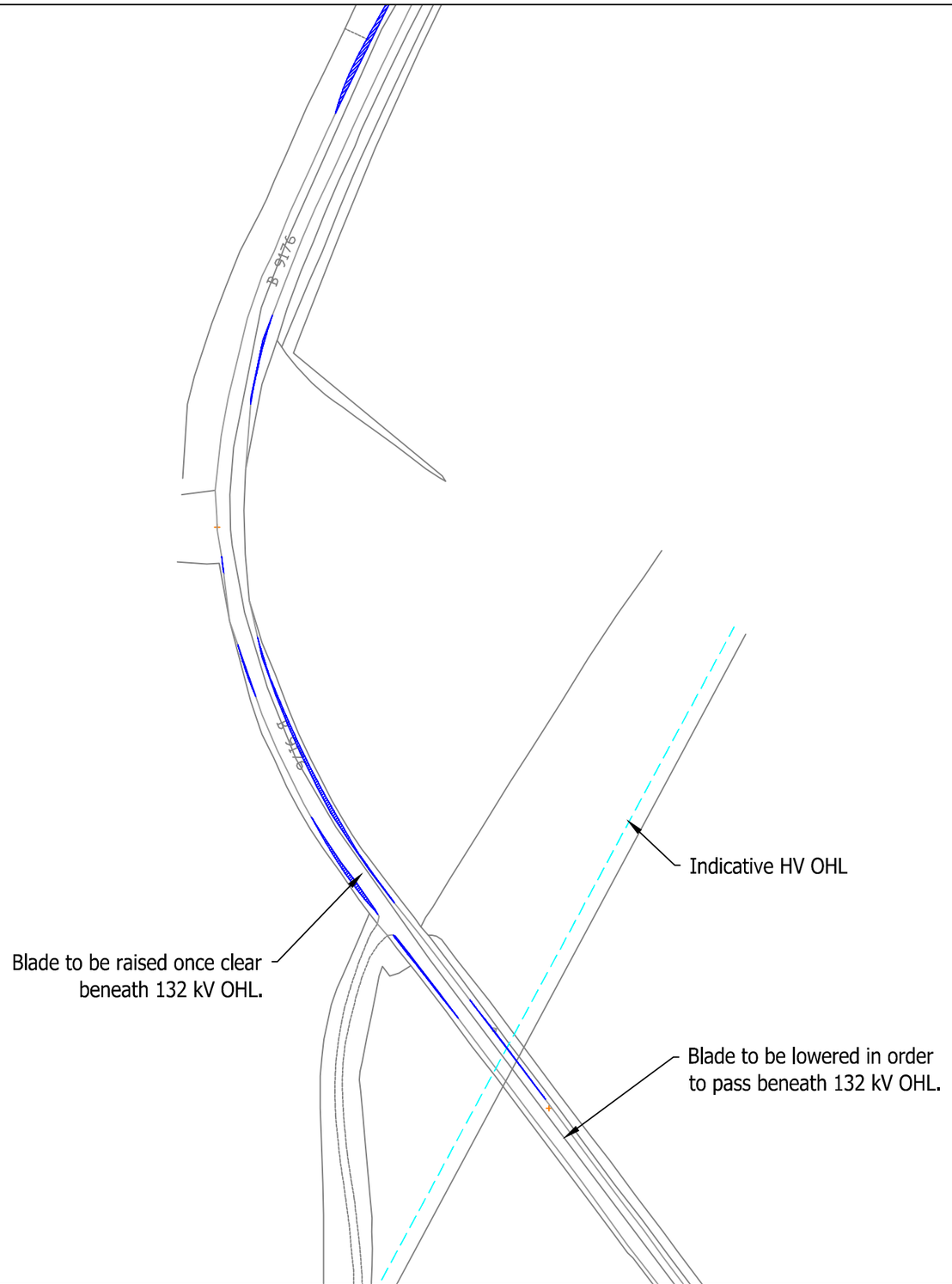
Drawing Status: Draft

Drawing No.: SK25

Notes:
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Revision: 0

Mitigation



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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: B9176 East of Holly Island

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		34

Scale: 1:1500 @ A3

File No.: 250829 Creachan SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK25A

Notes:
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.

Revision: 0

Blade Lifter
RAISED



Worst Case Tower



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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: B9176 / Pillars Road Junction, Dalnavie

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		35

Scale: 1:1000 @ A3

File No.: 250829 Creachan SPA SG170.dwg

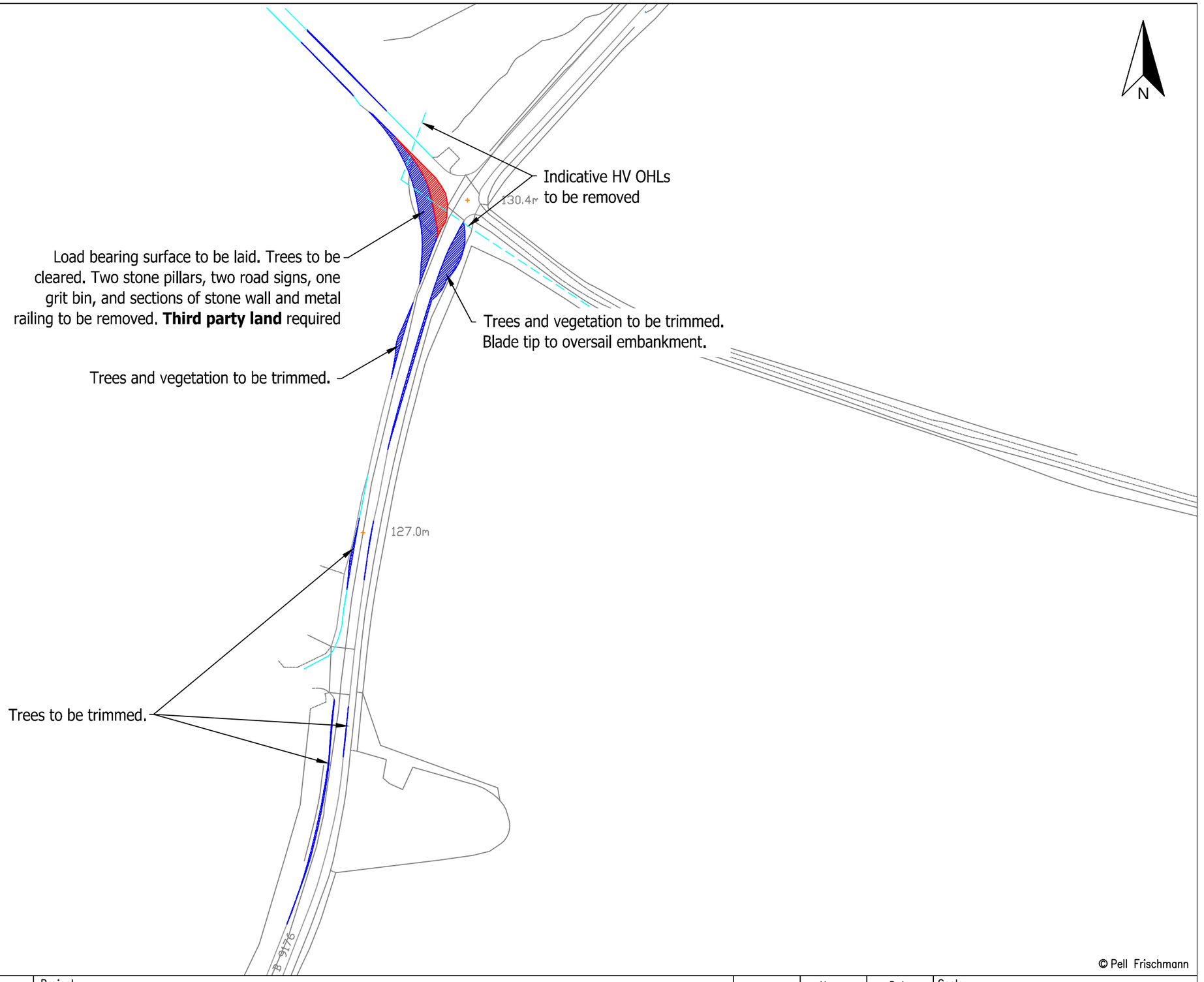
Drawing Status: Draft

Drawing No.: SK26

Notes:
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.

Revision: 0

Mitigation



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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: B9176 / Pillars Road Junction, Dalnavie

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		35

Scale: 1:1500 @ A3

File No.: 250829 Creachan SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK26A

Notes:
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.

Revision: 0

Blade Lifter
RAISED



Worst Case Tower

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over–run | Over–sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: Strath Rusdale Road North of Mackintosh's Well

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		37

Scale: 1:1000 @ A3

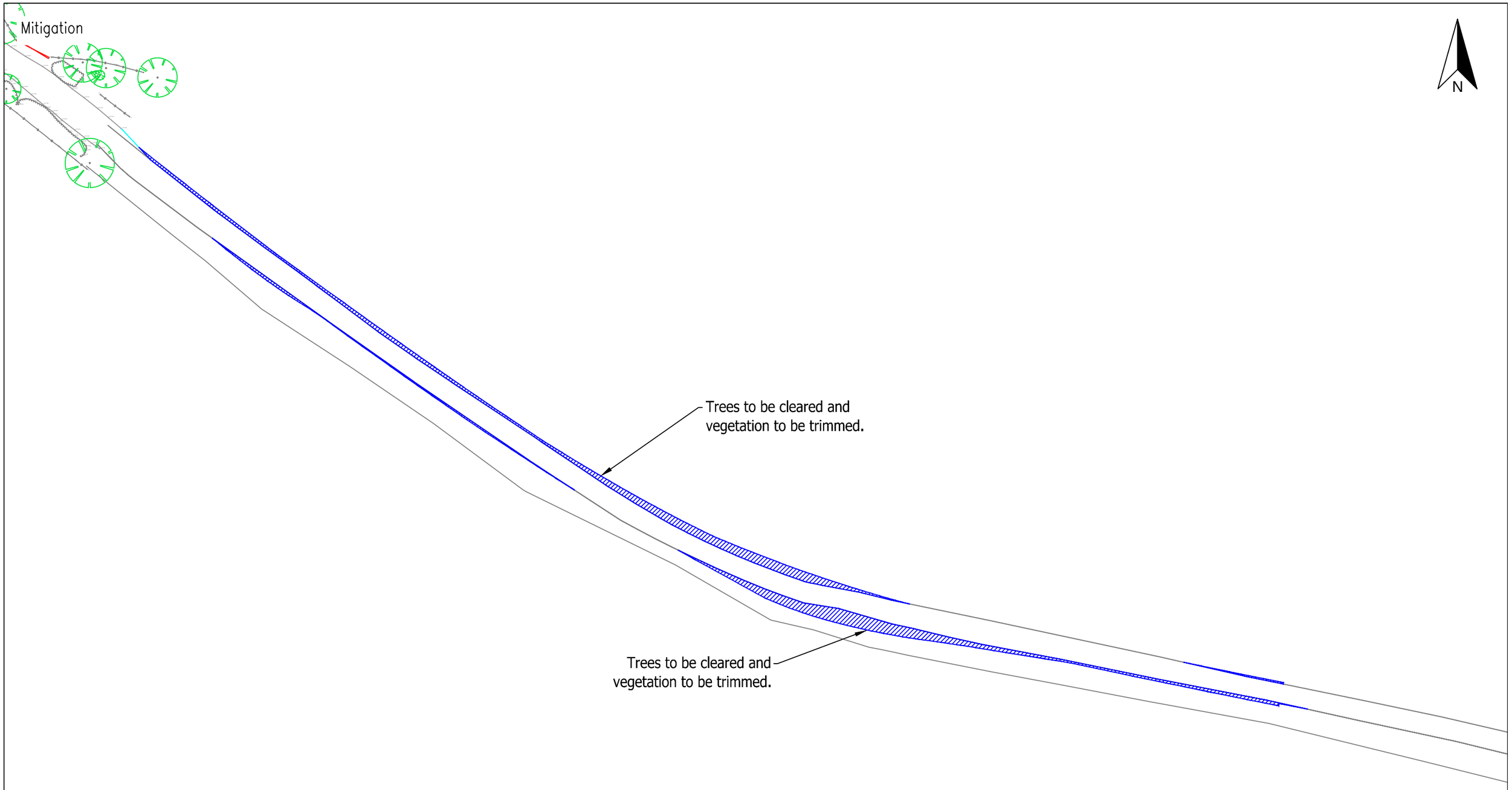
File No.: 250829 Creachan SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK27

Notes:
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2. This is not a construction drawing and is intended for illustration purposes only.

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: Strath Rusdale Road North of Mackintosh's Well

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		37

Scale: 1:750 @ A3

File No.: 250829 Creachan SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK27A

Notes:
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.

Revision: 0

Blade Lifter
FLAT & RAISED

Structural capacity of structure no. U19070000C53 to be confirmed prior to deliveries.

Blade to be raised once clear beneath HV OHL.

Blade to be lowered prior to HV OHL.

N

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: Strath Rusdale Road, Ardross

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		38

Scale: 1:1000 @ A3

File No.: 250829 Creachan SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK28

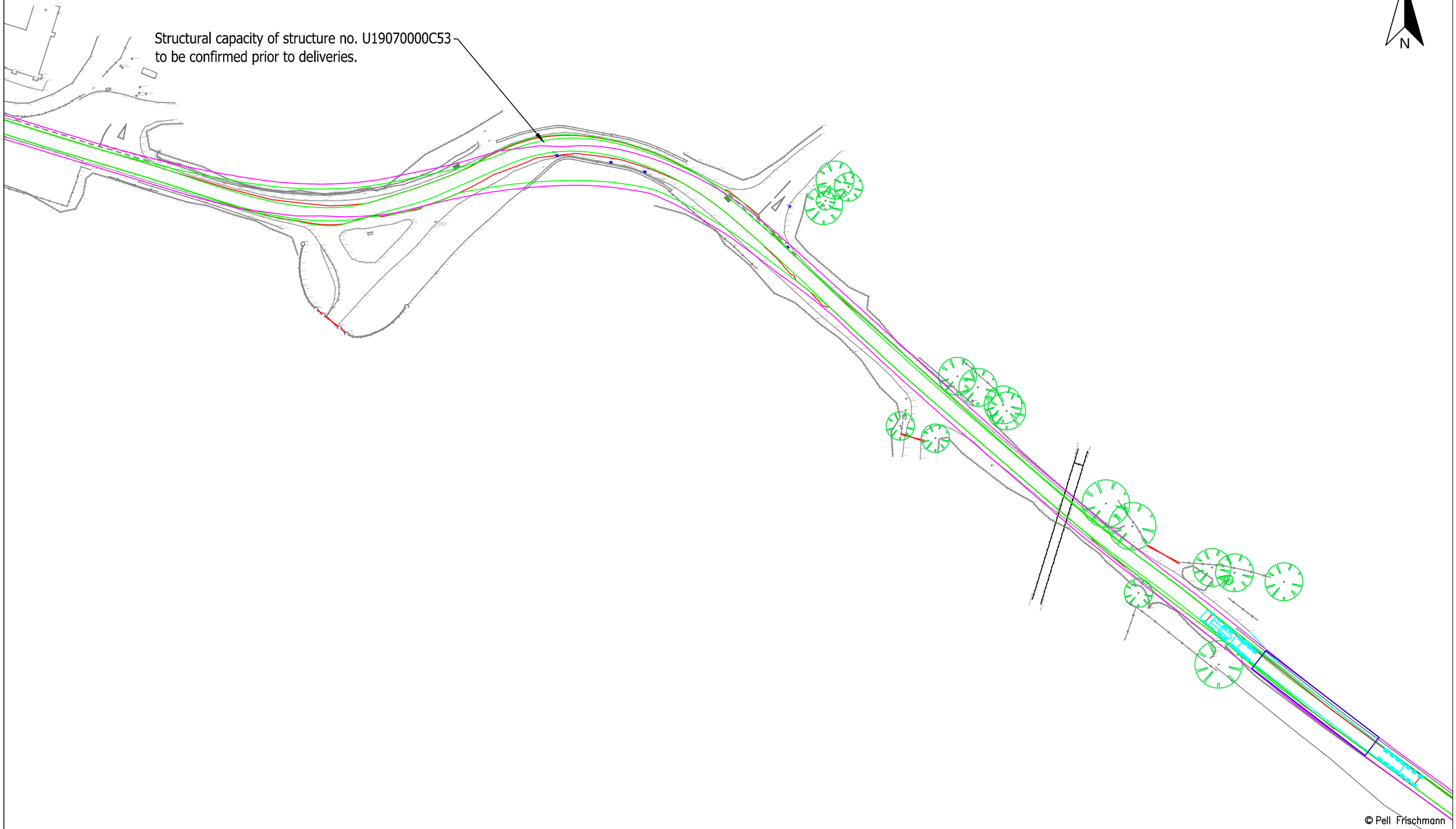
Notes:
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.

Revision: 0

Worst Case Tower

Structural capacity of structure no. U19070000C53 to be confirmed prior to deliveries.

N



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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: Strath Rusdale Road, Ardross

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		38

Scale: 1:1000 @ A3

File No.: 250829 Creachan SPA SG170.dwg

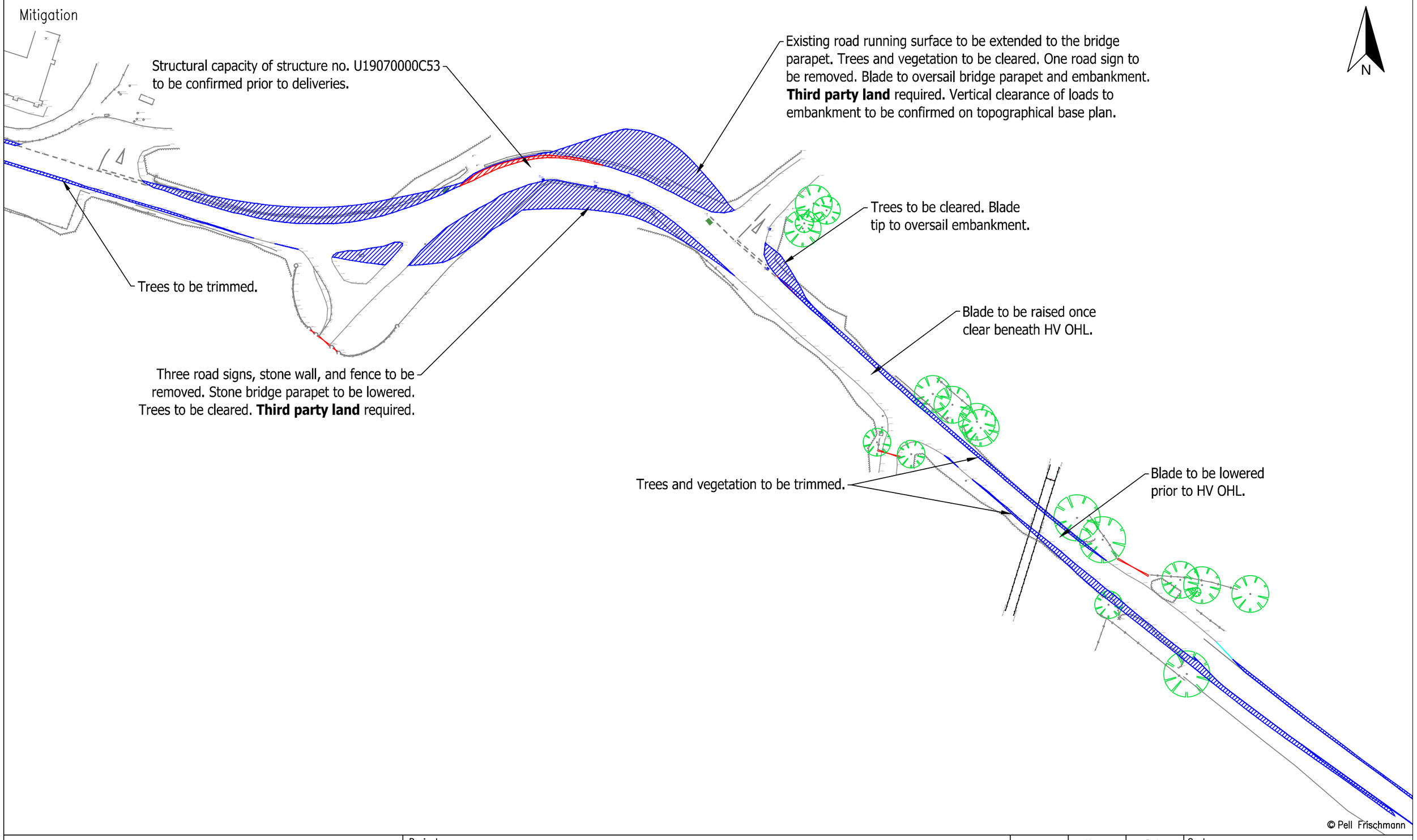
Drawing Status: Draft

Drawing No.: SK28A

Notes:
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.

Revision: 0

Mitigation



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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: 10109151 Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Worst Case Tower Section

SPA Location: Strath Rusdale Road, Ardross

	Name	Date
Drawn	NMcK	08/08/2025
Designed	JS	08/08/2025
Checked	JS	12/08/2025
Point of Interest		38

Scale: 1:750 @ A3

File No.: 250829 Creachan SPA SG170.dwg

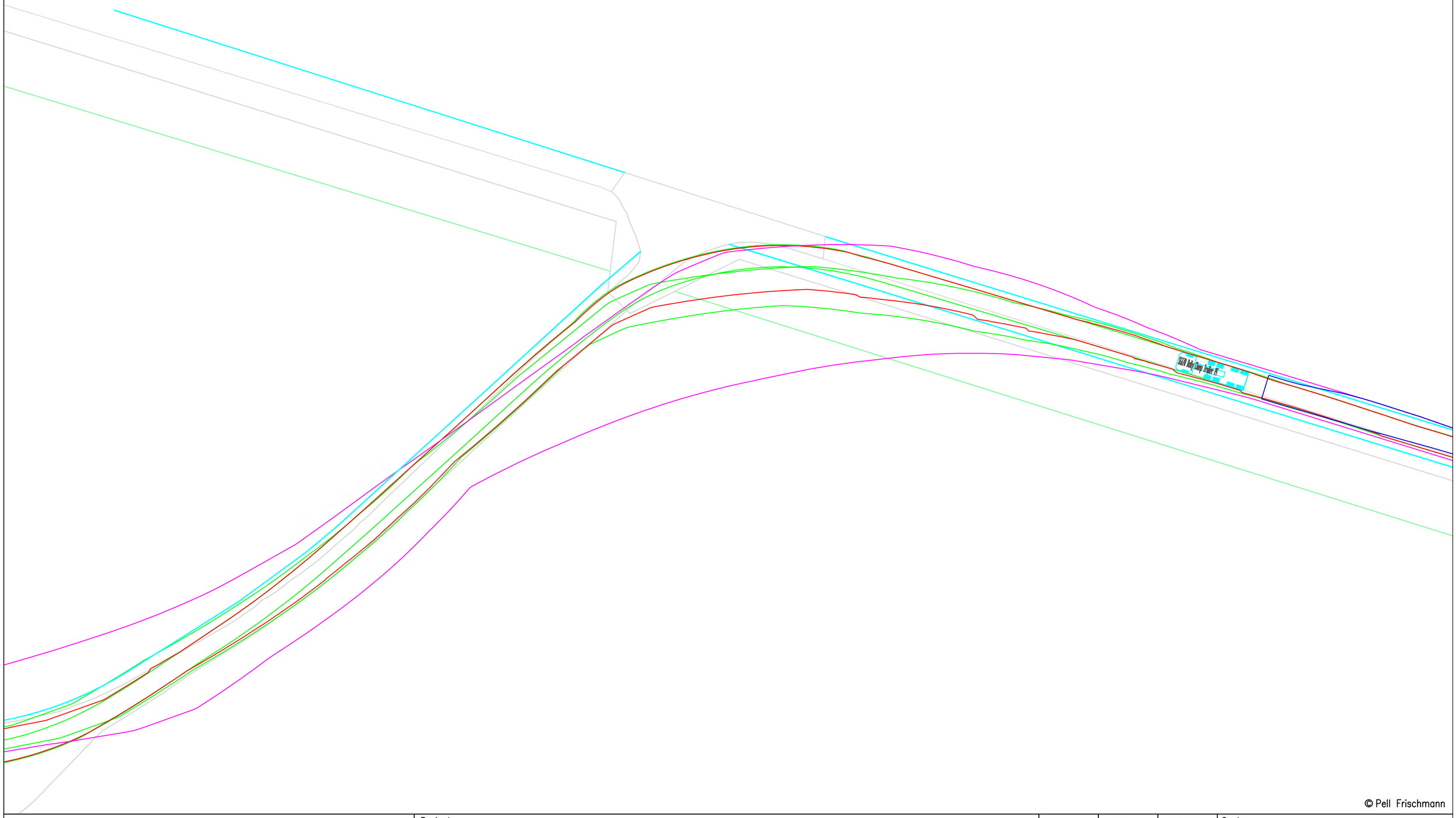
Drawing Status: Draft

Drawing No.: SK28B

Notes:
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.

Revision: 0

Blade



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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Public Road / Site Access Track Junction

	Name	Date
Drawn	NM	22/12/2025
Designed	JS	22/12/2025
Checked	SCM	22/12/2025
Point of Interest		41

Scale: 1:500 @ A3

File No: 251222 Creachan Access Junction.dwg

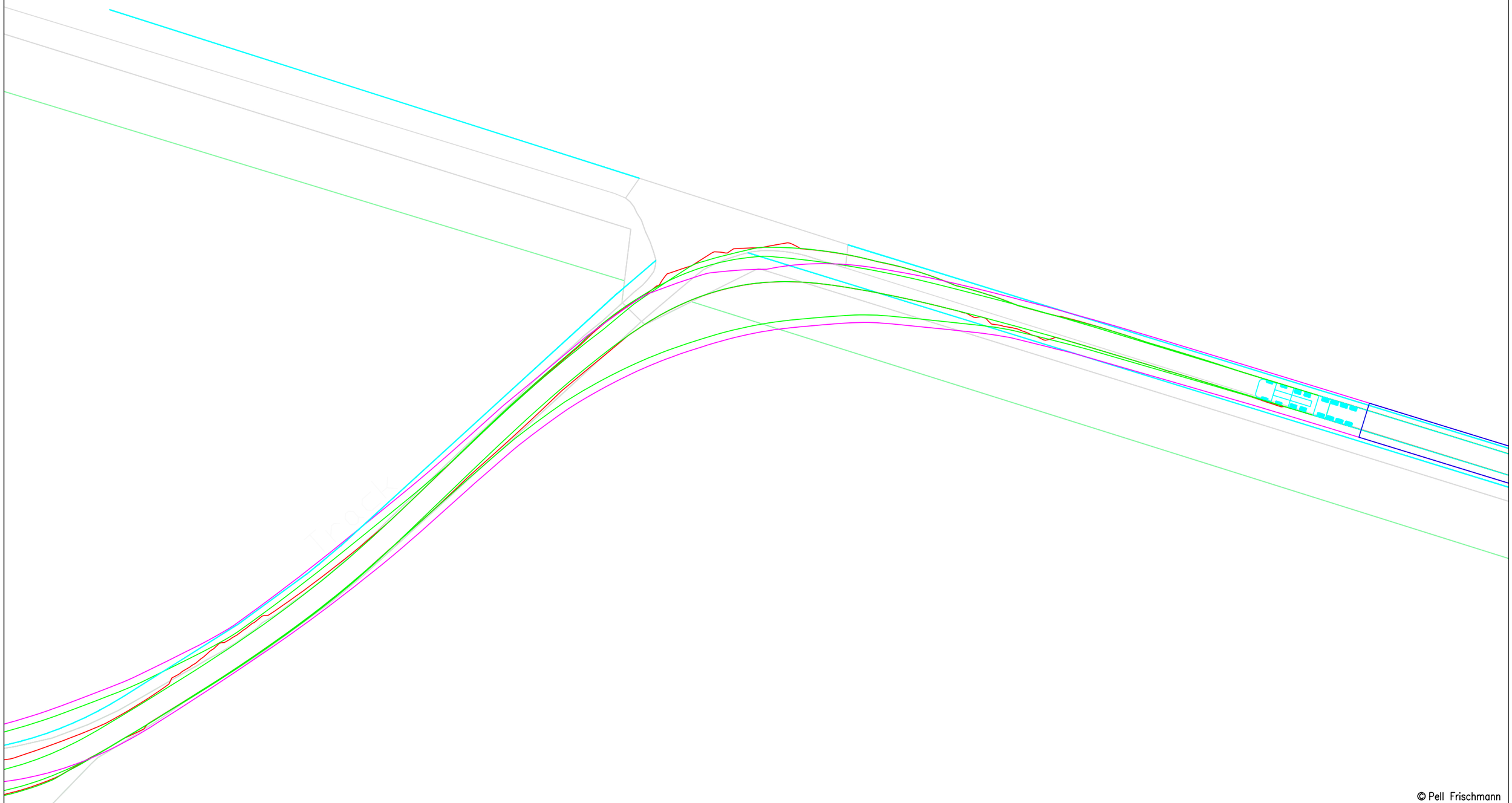
Drawing Status: Draft

Drawing No.: SK101

Notes:
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Existing road to be widened to a minimum of 5m.

Revision

Tower



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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Public Road / Site Access Track Junction

	Name	Date
Drawn	NM	22/12/2025
Designed	JS	22/12/2025
Checked	SCM	22/12/2025
Point of Interest		41

Scale: 1:500 @ A3

File No: 251222 Creachan Access Junction.dwg

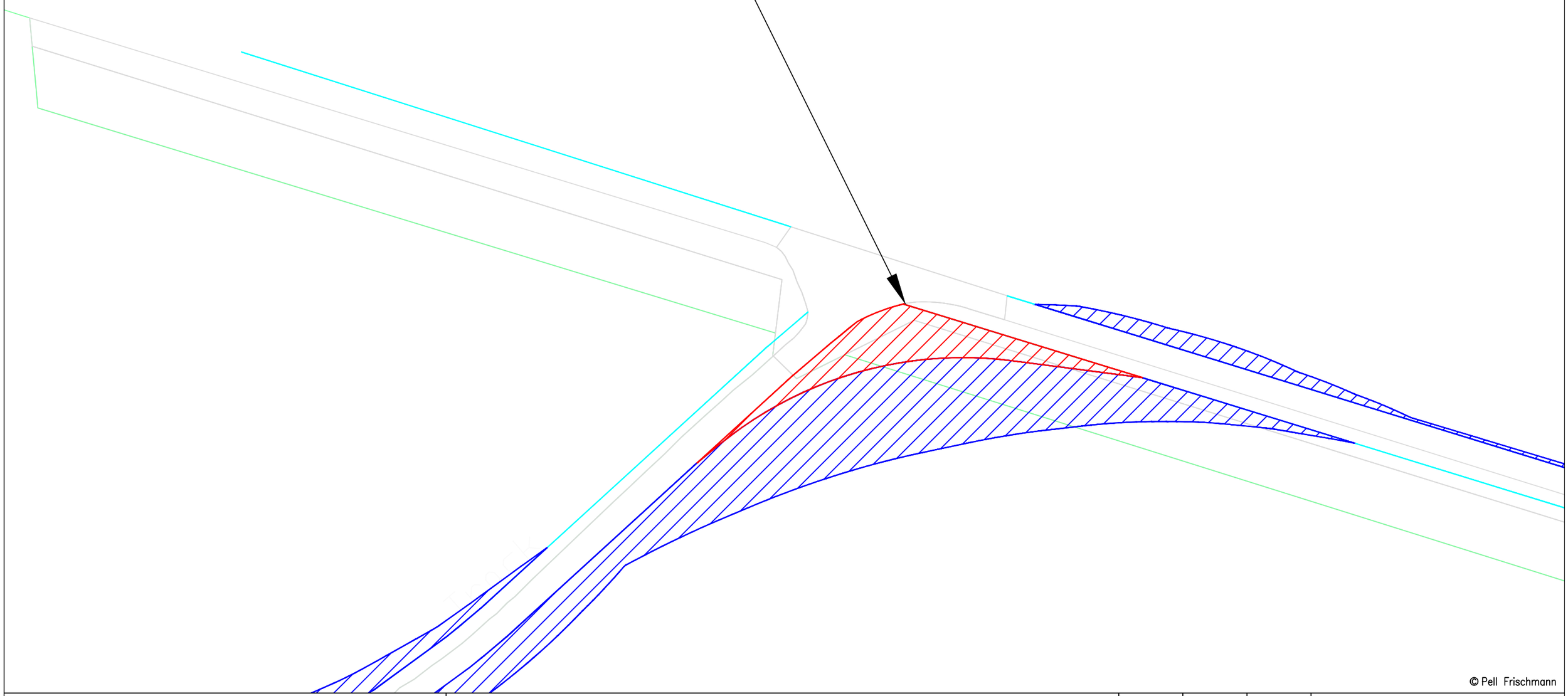
Drawing Status: Draft

Drawing No.: SK101A

Notes:
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Existing road to be widened to a minimum of 5m.

Revision

The existing junction will need to be upgraded to meet turbine manufacturer and local road authority standards.



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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Public Road / Site Access Track Junction

	Name	Date
Drawn	NM	22/12/2025
Designed	JS	22/12/2025
Checked	SCM	22/12/2025
Point of Interest		41

Scale: 1:500 @ A3

File No: 251222 Creachan Access Junction.dwg

Drawing Status: Draft

Drawing No.: SK101B

Notes:
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Existing road to be widened to a minimum of 5m.

Revision

Appendix C Access Track Swept Path Assessments

Blade

Inchlumpie Wood

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 1

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		1

Scale: 1:2500 @ A3

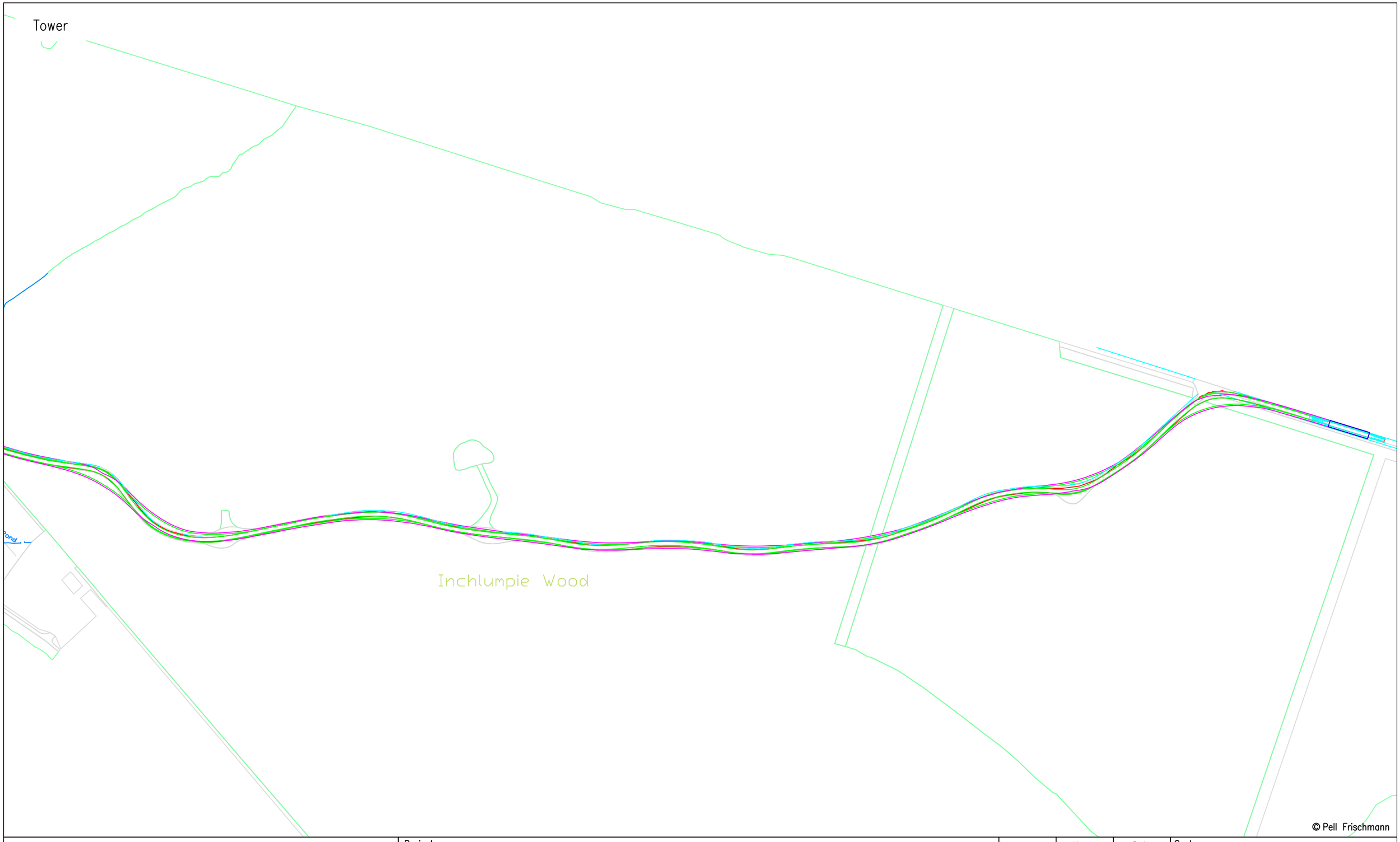
File No: 250829 Creachan Access SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK01

Notes:
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3. Existing road to be widened to a minimum of 5m.

Revision



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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 1

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		1

Scale: 1:2500 @ A3

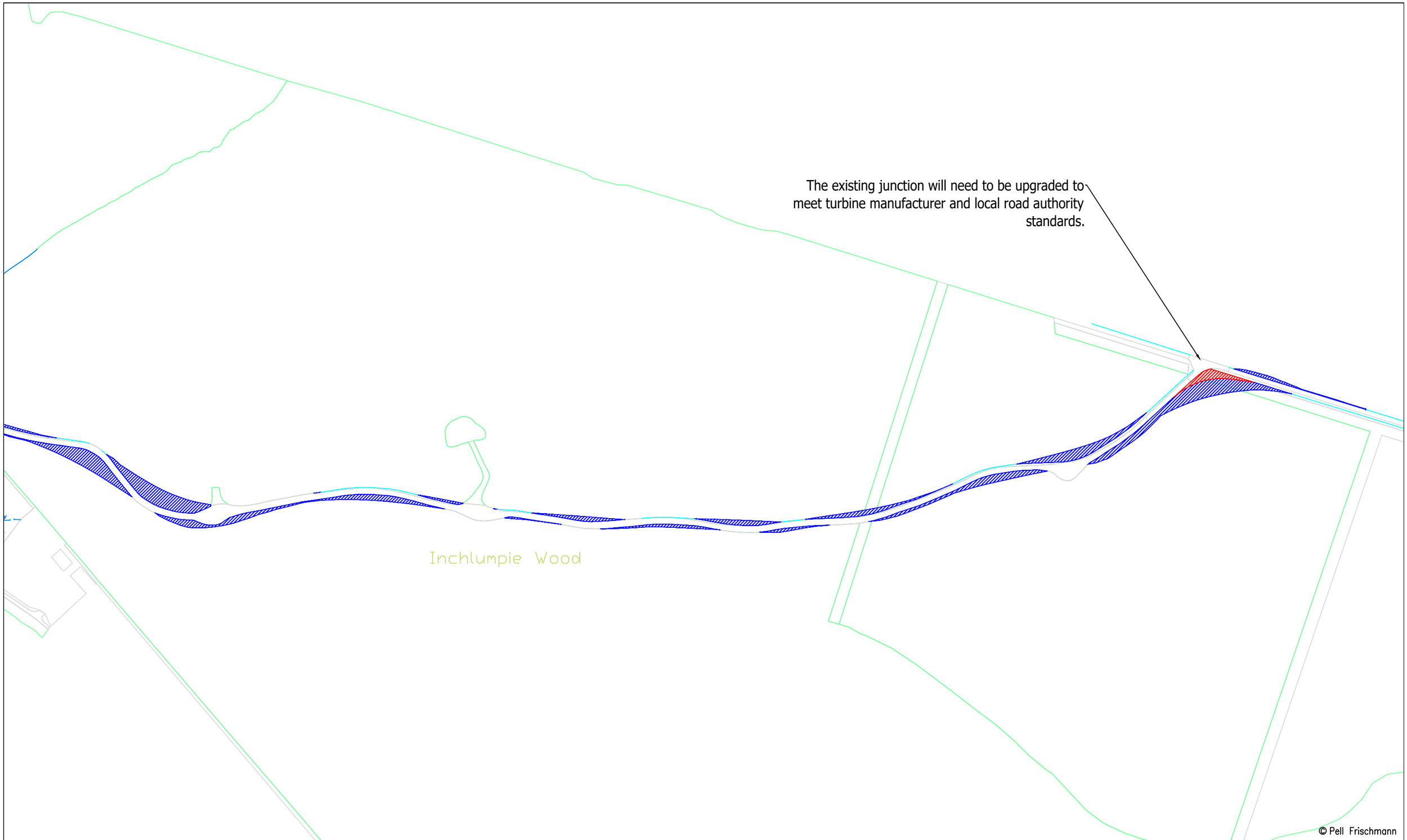
File No: 250829 Creachan Access SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK01A

Notes:
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Existing road to be widened to a minimum of 5m.

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 1

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		1

Scale: 1:2500 @ A3

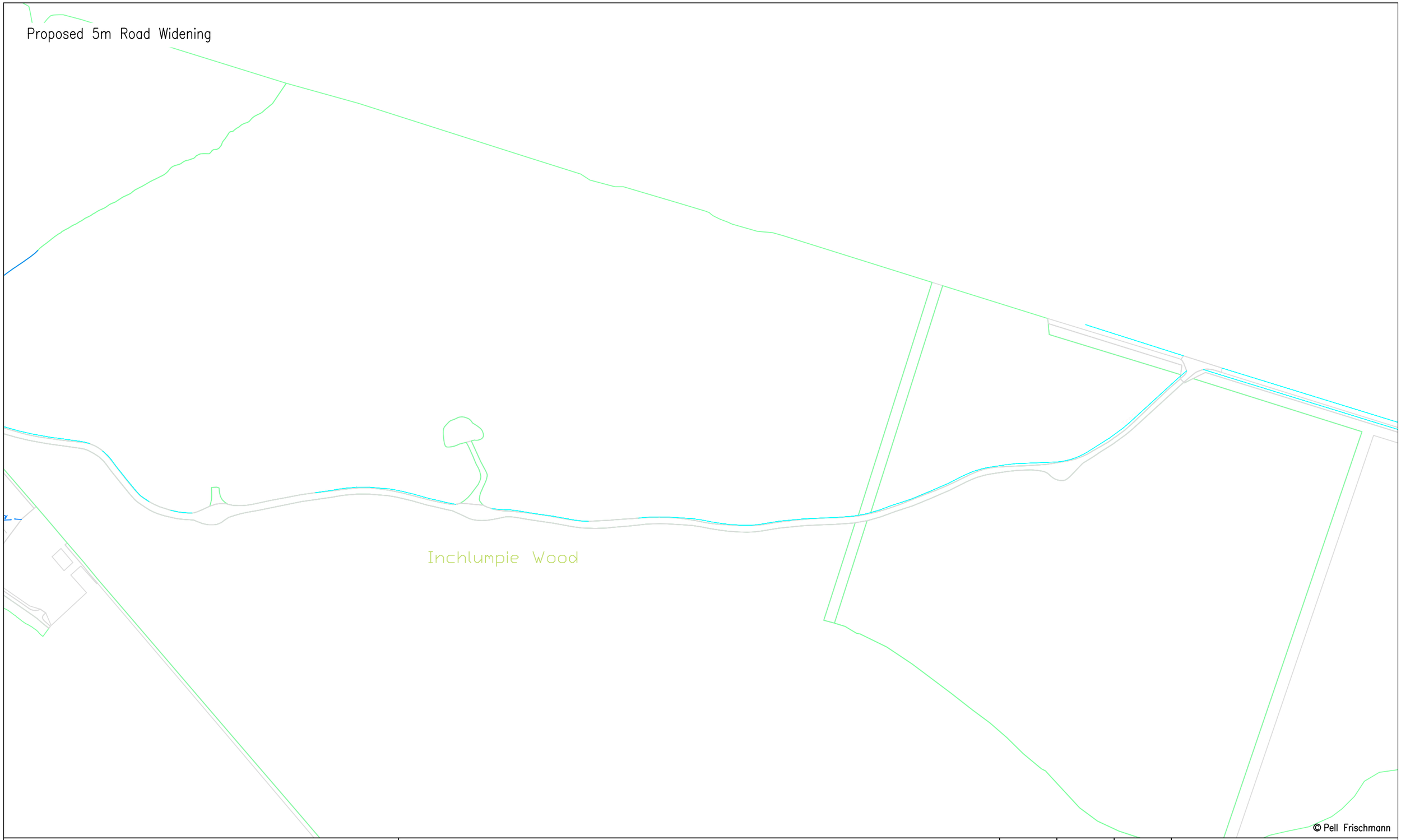
File No: 250829 Creachan Access SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK01B

Notes:
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3. Existing road to be widened to a minimum of 5m.

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 1

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		1

Scale: Custom @ A3

File No: 250829 Creachan Access SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK01C

Notes:
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Existing road to be widened to a minimum of 5m.

Revision

Blade



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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 2

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		2

Scale: 1:2500 @ A3

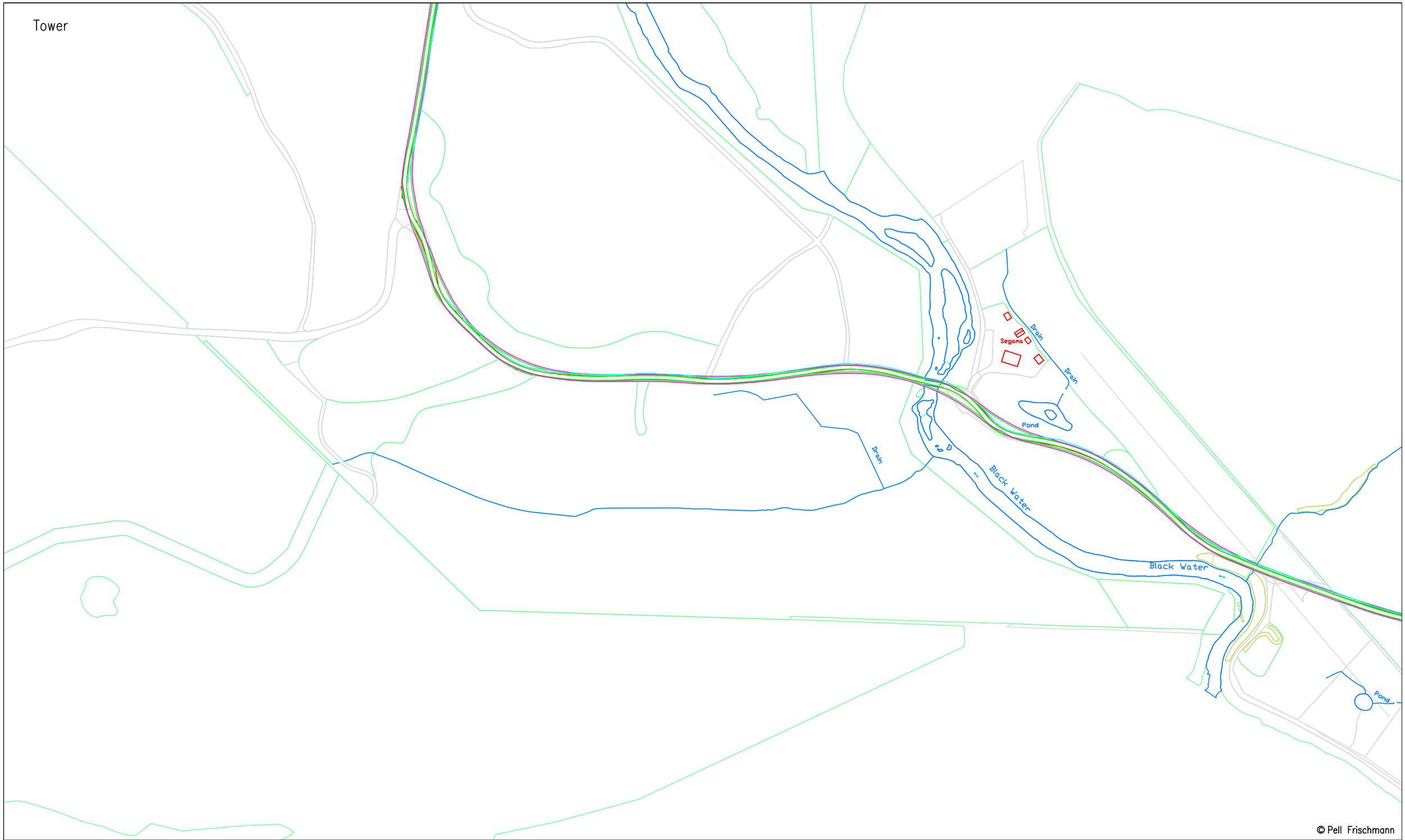
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Drawing Status: Draft

Drawing No.: SK02

Notes:
1. All mitigation is subject to confirmation through a test run.
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3. Existing road to be widened to a minimum of 5m.

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over–run | Over–sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 2

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		2

Scale: 1:2500 @ A3

File No: 250829 Creachan Access SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK02A

Notes:
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Existing road to be widened to a minimum of 5m.

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 2

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		2

Scale: 1:2500 @ A3

File No: 250829 Creachan Access SPA SG170.dwg

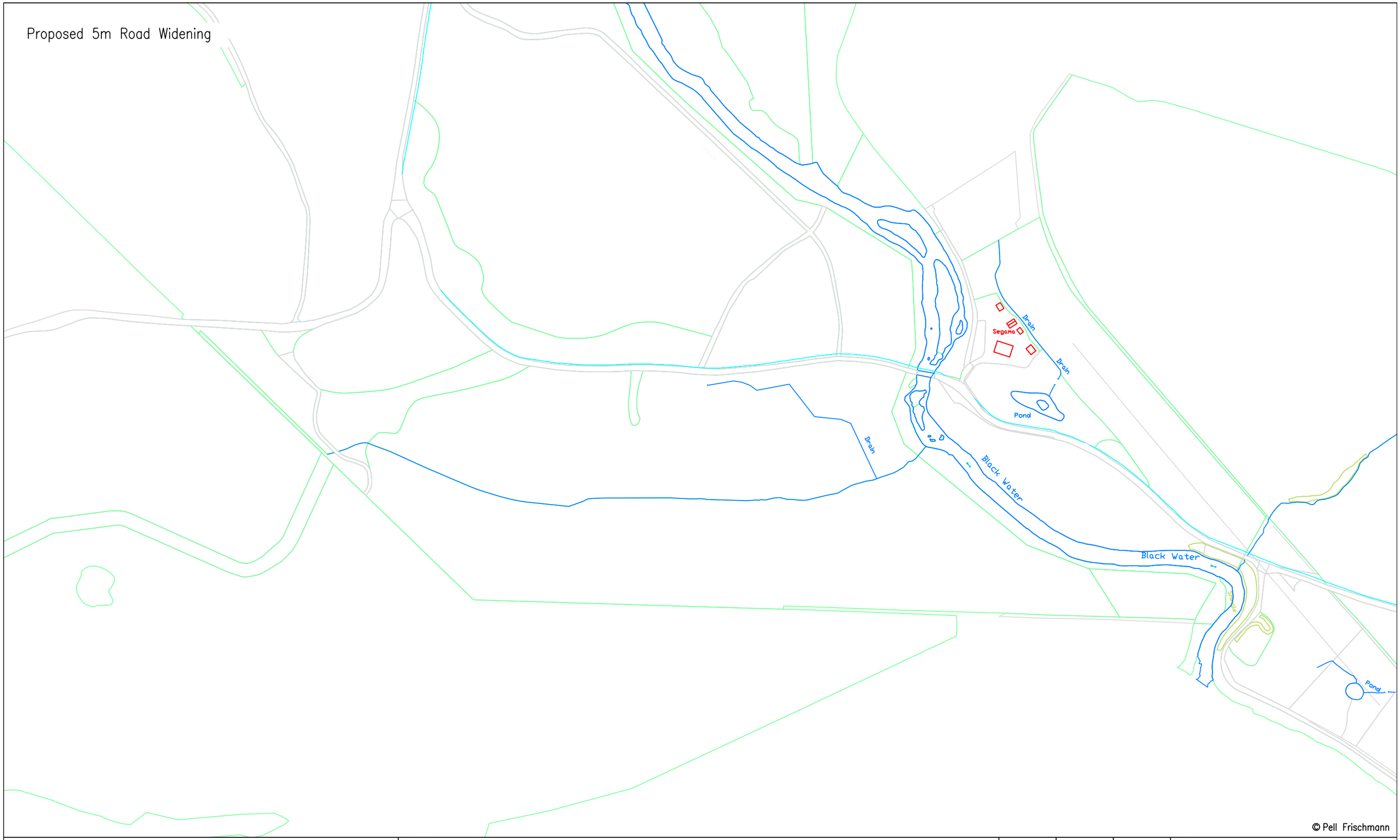
Drawing Status: Draft

Drawing No.: SK02B

Notes:
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Existing road to be widened to a minimum of 5m.

Revision

Proposed 5m Road Widening



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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 2

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		2

Scale: 1:2500 @ A3

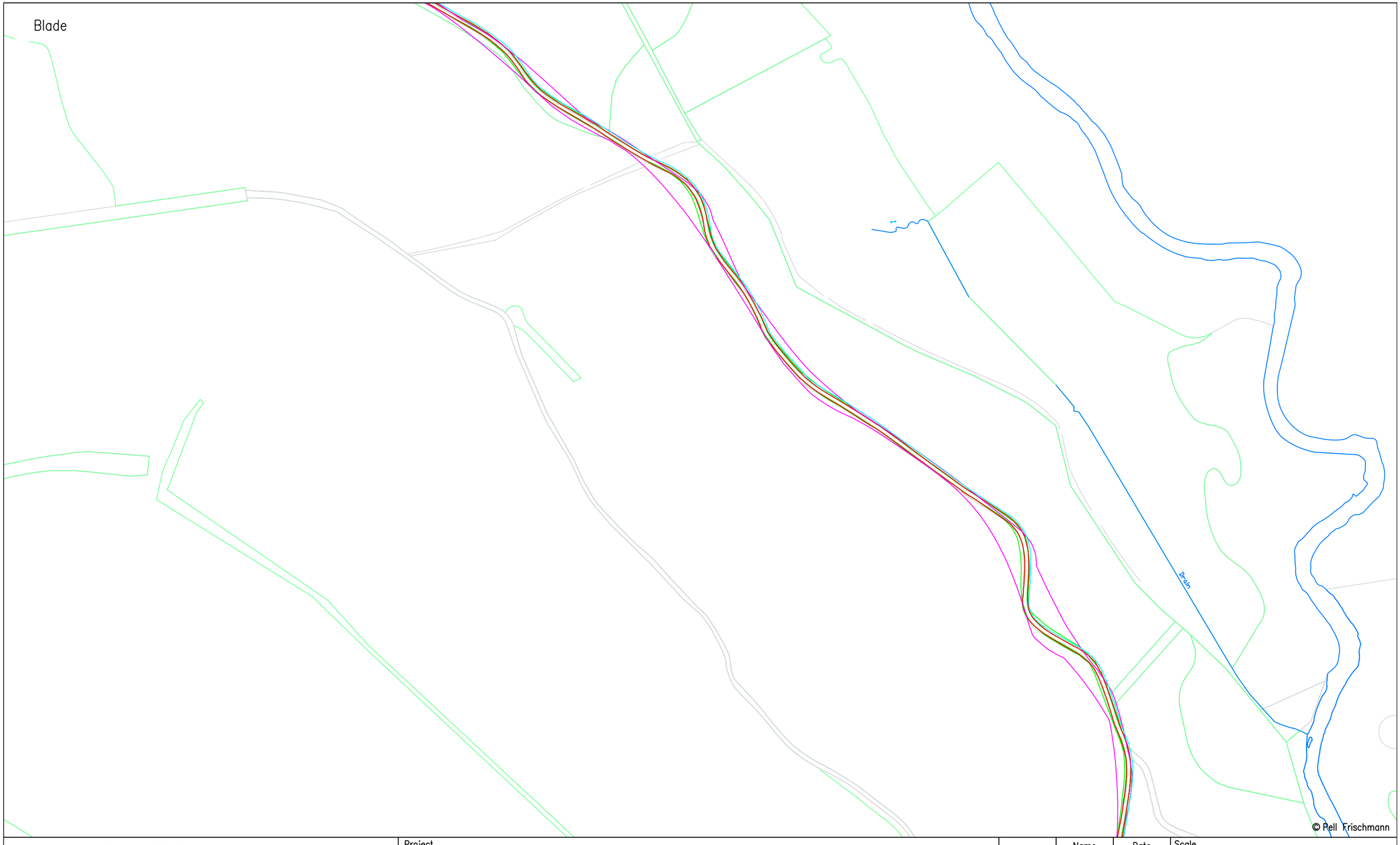
File No: 250829 Creachan Access SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK02C

Notes:
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Existing road to be widened to a minimum of 5m.

Revision



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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 3

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		3

Scale: 1:2500 @ A3

File No: 250829 Creachan Access SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK03

Notes:
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Existing road to be widened to a minimum of 5m.

Revision



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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 3

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		3

Scale: 1:2500 @ A3

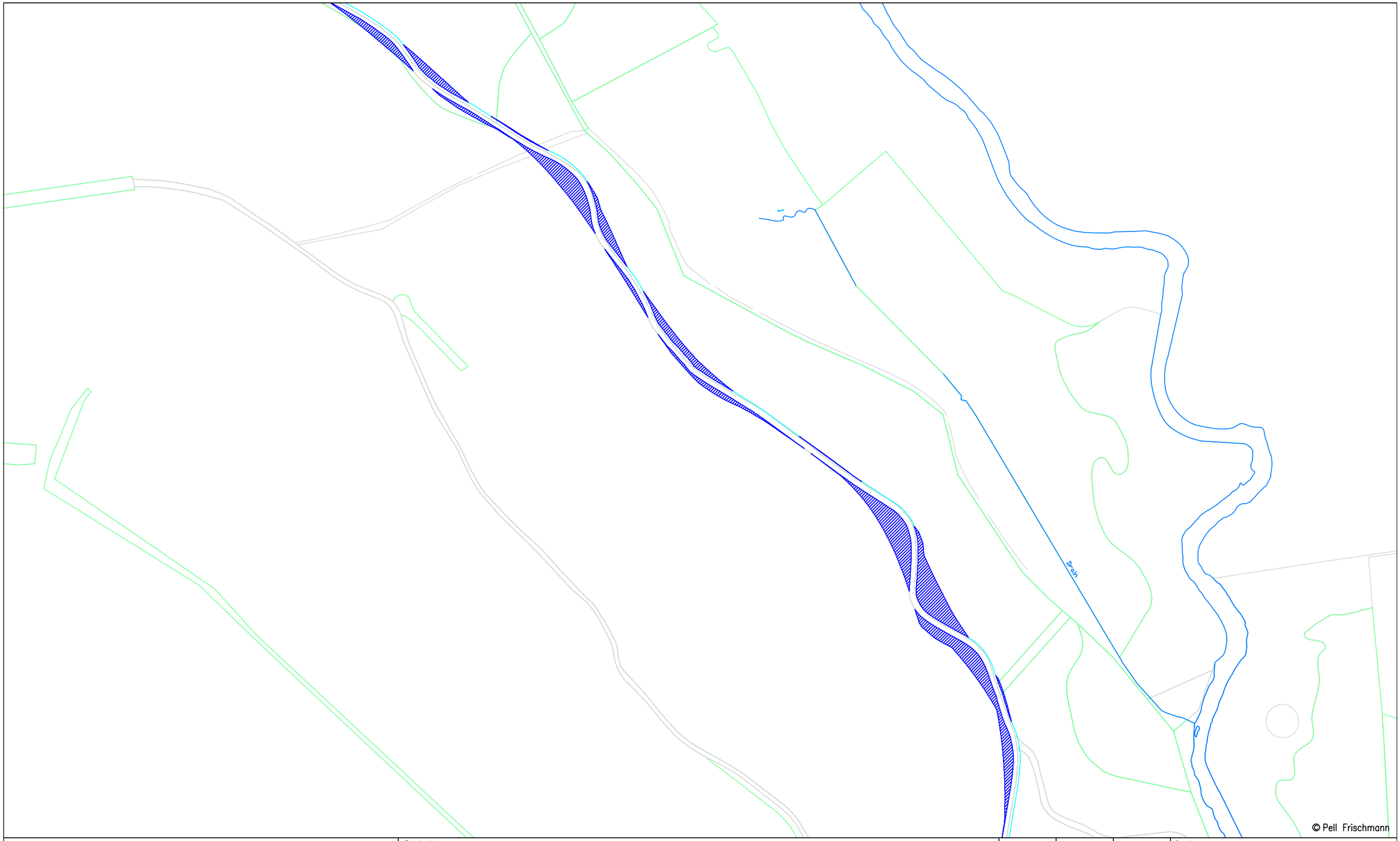
File No: 250829 Creachan Access SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK03A

Notes:
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Existing road to be widened to a minimum of 5m.

Revision



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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 3

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		3

Scale: 1:2500 @ A3

File No: 250829 Creachan Access SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK03B

Notes:
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Existing road to be widened to a minimum of 5m.

Revision

Proposed 5m Road Widening

Drain

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over–run | Over–sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 3

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		3

Scale: 1:2500 @ A3

File No: 250829 Creachan Access SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK03C

Notes:
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Existing road to be widened to a minimum of 5m.

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 4

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		4

Scale: 1:2500 @ A3

File No: 250829 Creachan Access SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK04

Notes:
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Existing road to be widened to a minimum of 5m.

Revision

Tower

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 4

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		4

Scale: 1:2500 @ A3

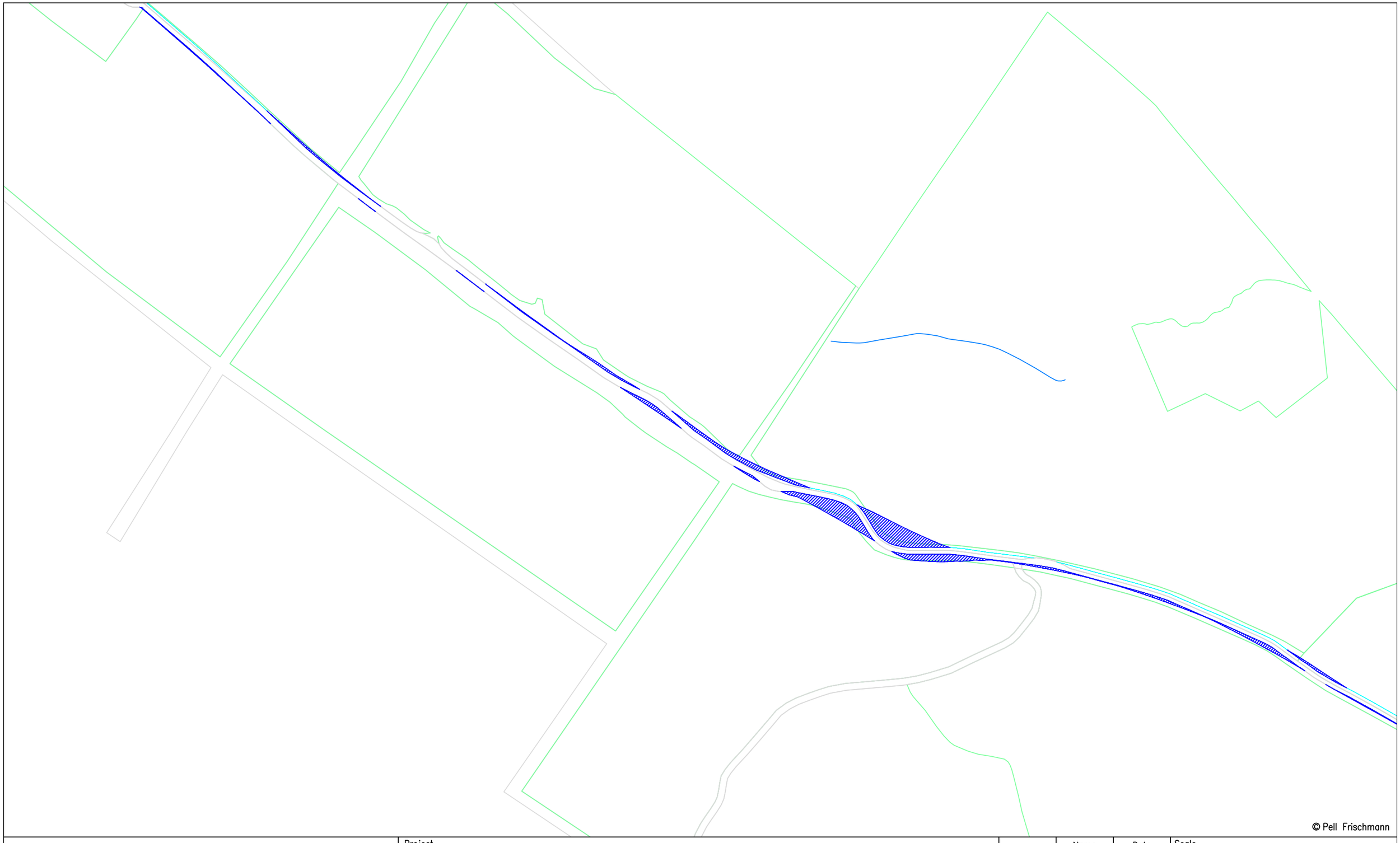
File No: 250829 Creachan Access SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK04A

Notes:
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Existing road to be widened to a minimum of 5m.

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 4

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		4

Scale: 1:2500 @ A3

File No: 250829 Creachan Access SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK04B

Notes:
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Existing road to be widened to a minimum of 5m.

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 4

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		4

Scale: 1:2500 @ A3

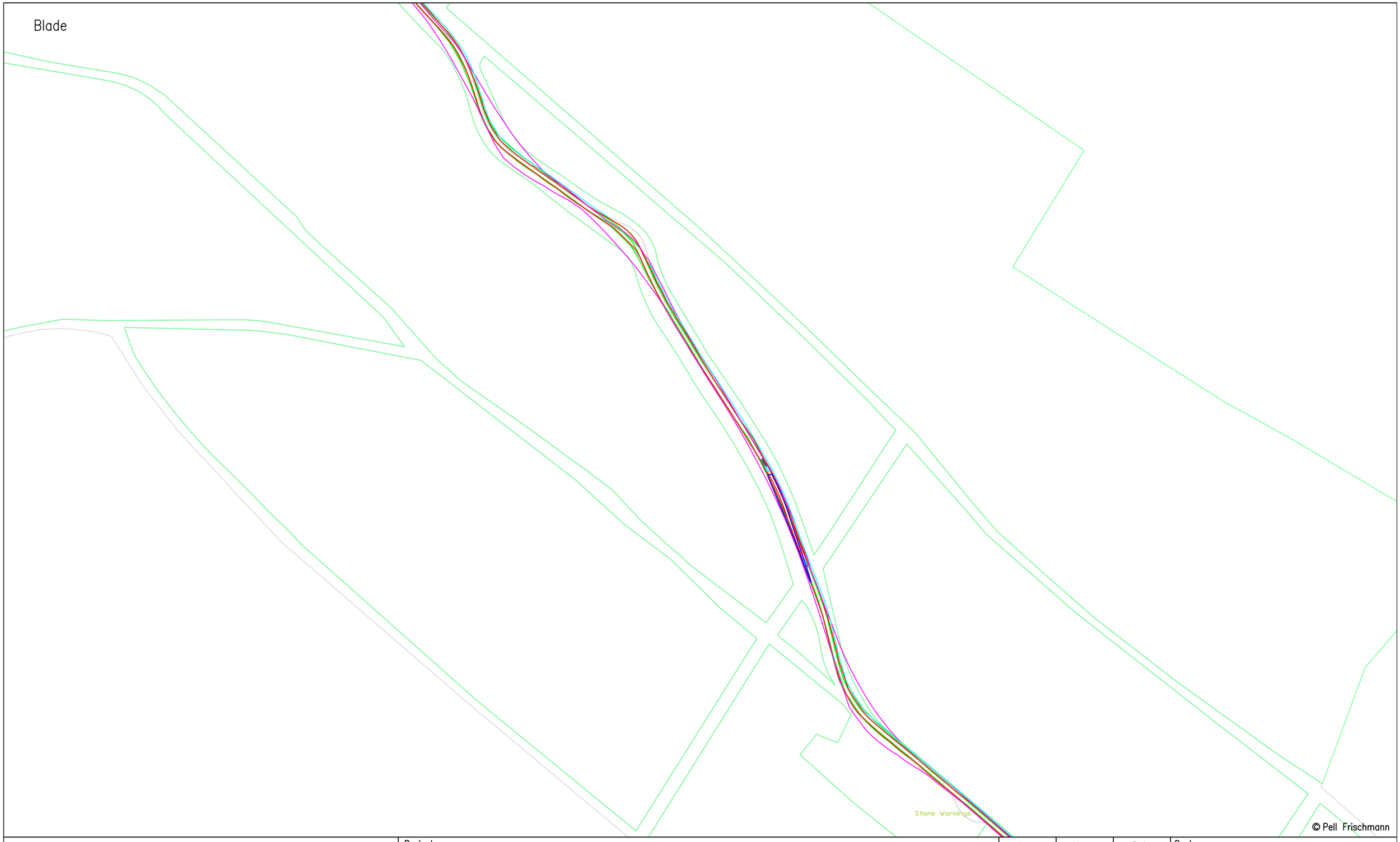
File No: 250829 Creachan Access SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK04C

Notes:
1. All mitigation is subject to confirmation through a test run.
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3. Existing road to be widened to a minimum of 5m.

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 5

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		5

Scale: 1:2500 @ A3

File No: 250829 Creachan Access SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK05

Notes:
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Existing road to be widened to a minimum of 5m.

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 5

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		5

Scale: 1:2500 @ A3

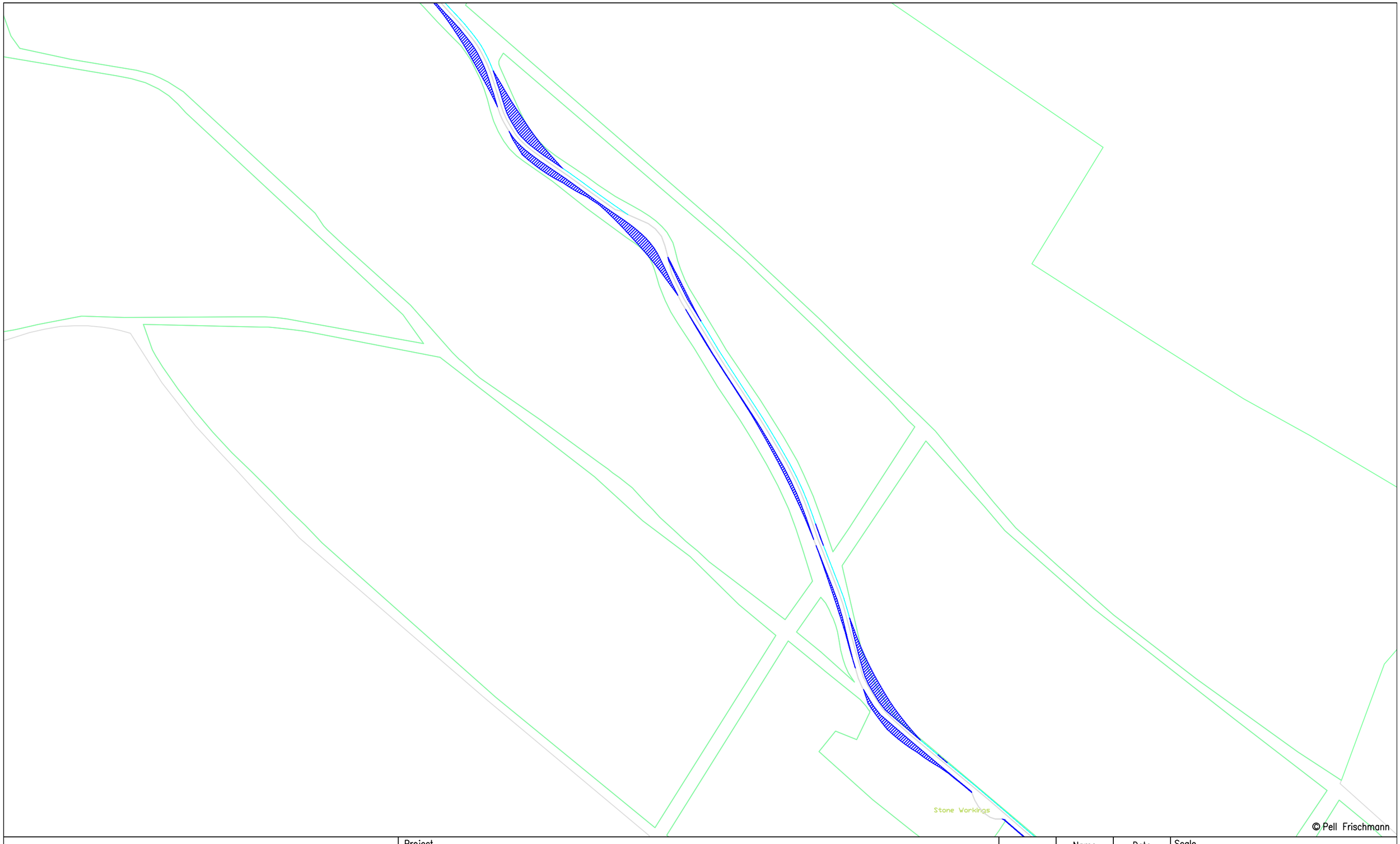
File No: 250829 Creachan Access SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK05A

Notes:
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Existing road to be widened to a minimum of 5m.

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 5

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		5

Scale: 1:2500 @ A3

File No: 250829 Creachan Access SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK05B

Notes:
1. All mitigation is subject to confirmation through a test run.
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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 5

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		5

Scale: 1:2500 @ A3

File No: 250829 Creachan Access SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK05C

Notes:
1. All mitigation is subject to confirmation through a test run.
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3. Existing road to be widened to a minimum of 5m.

Revision

Blade

Alt Baana h-Achlaise

Issues

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 6

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		6

Scale: 1:2500 @ A3

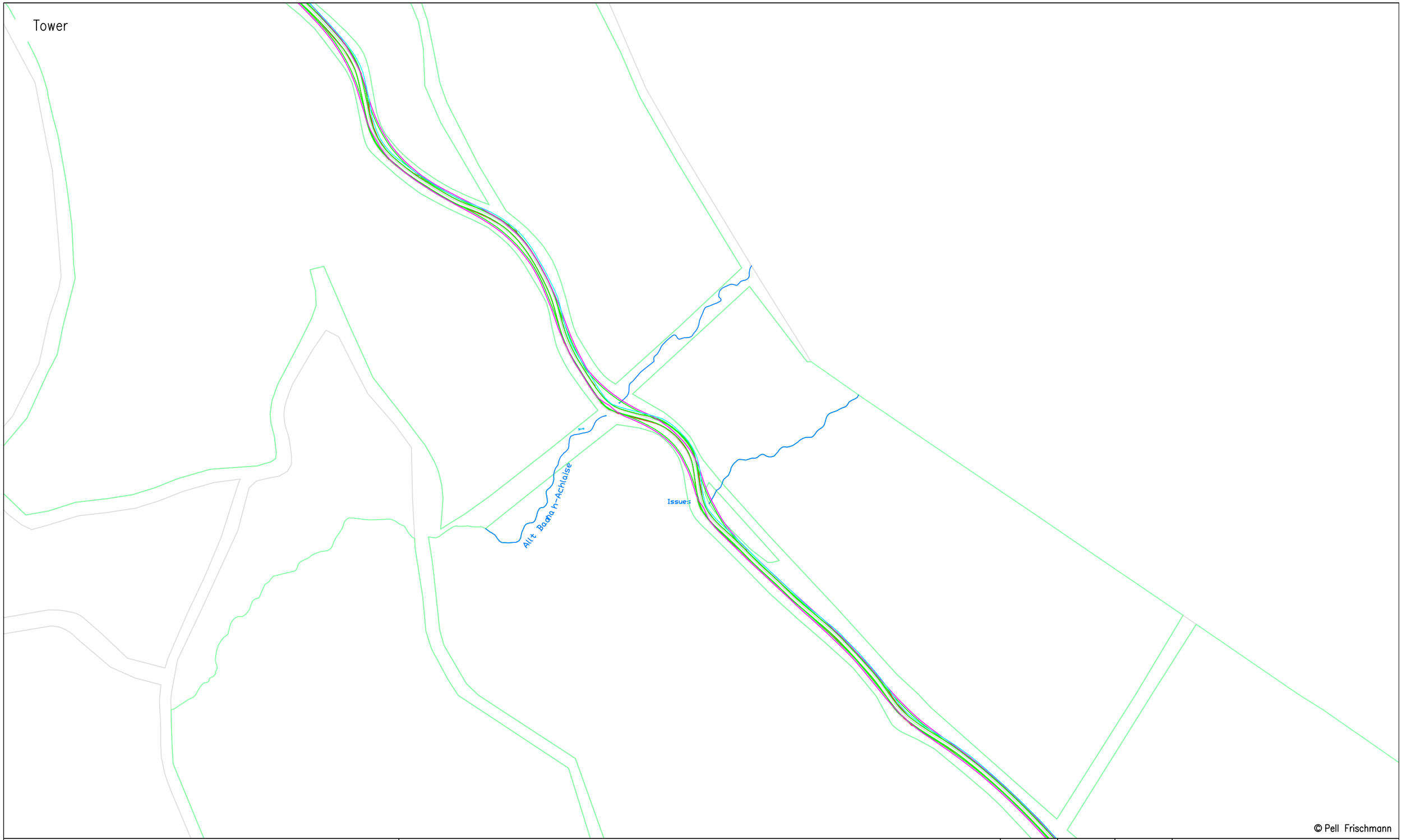
File No: 250829 Creachan Access SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK06

Notes:
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Existing road to be widened to a minimum of 5m.

Revision



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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 6

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		6

Scale: 1:2500 @ A3

File No: 250829 Creachan Access SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK06A

Notes:
1. All mitigation is subject to confirmation through a test run.
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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 6

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		6

Scale: 1:2500 @ A3

File No: 250829 Creachan Access SPA SG170.dwg

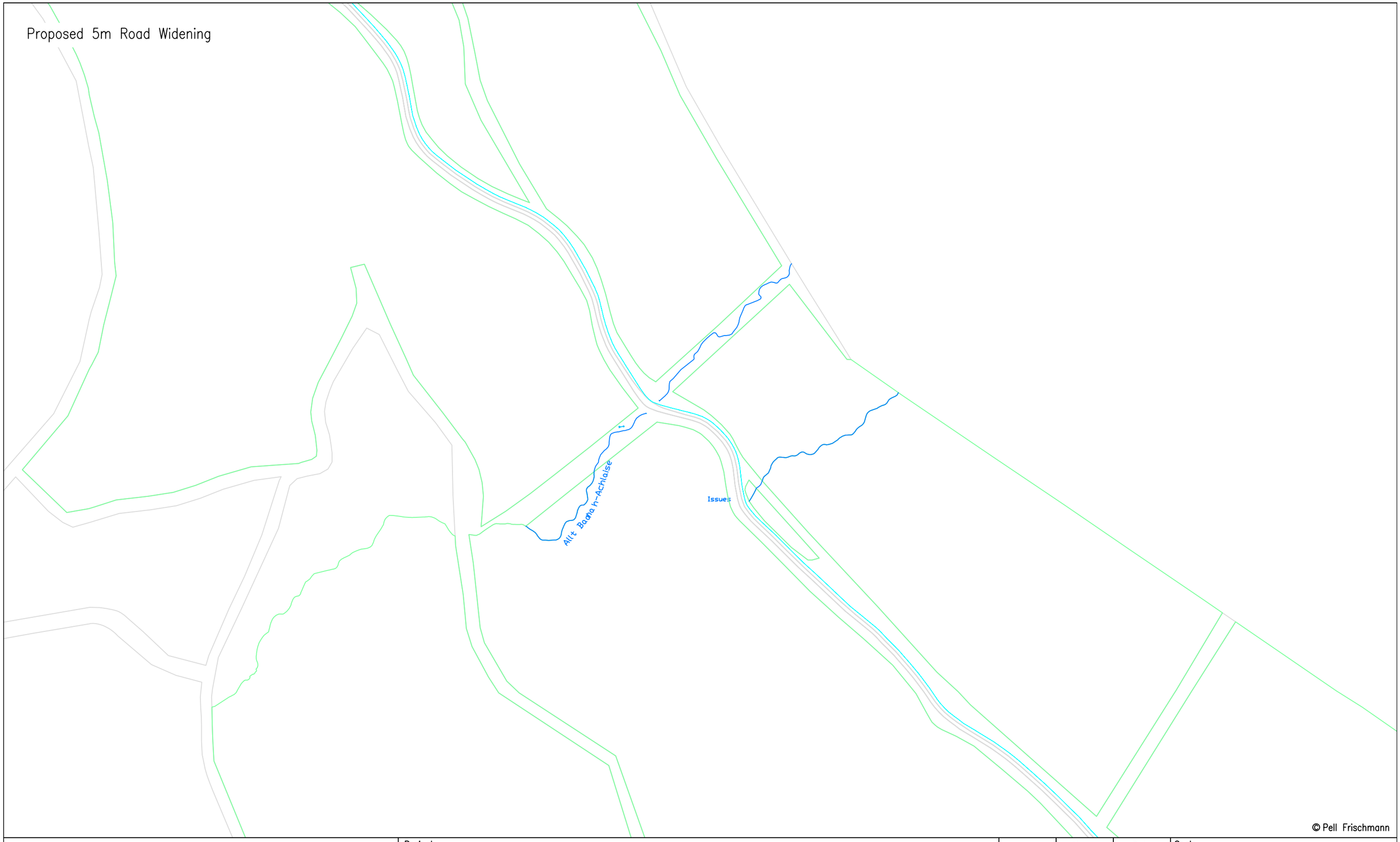
Drawing Status: Draft

Drawing No.: SK06B

Notes:
1. All mitigation is subject to confirmation through a test run.
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3. Existing road to be widened to a minimum of 5m.

Revision

Proposed 5m Road Widening



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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 6

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		6

Scale: 1:2500 @ A3

File No: 250829 Creachan Access SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK06C

Notes:
1. All mitigation is subject to confirmation through a test run.
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3. Existing road to be widened to a minimum of 5m.

Revision

Blade

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 7

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		7

Scale: 1:2500 @ A3

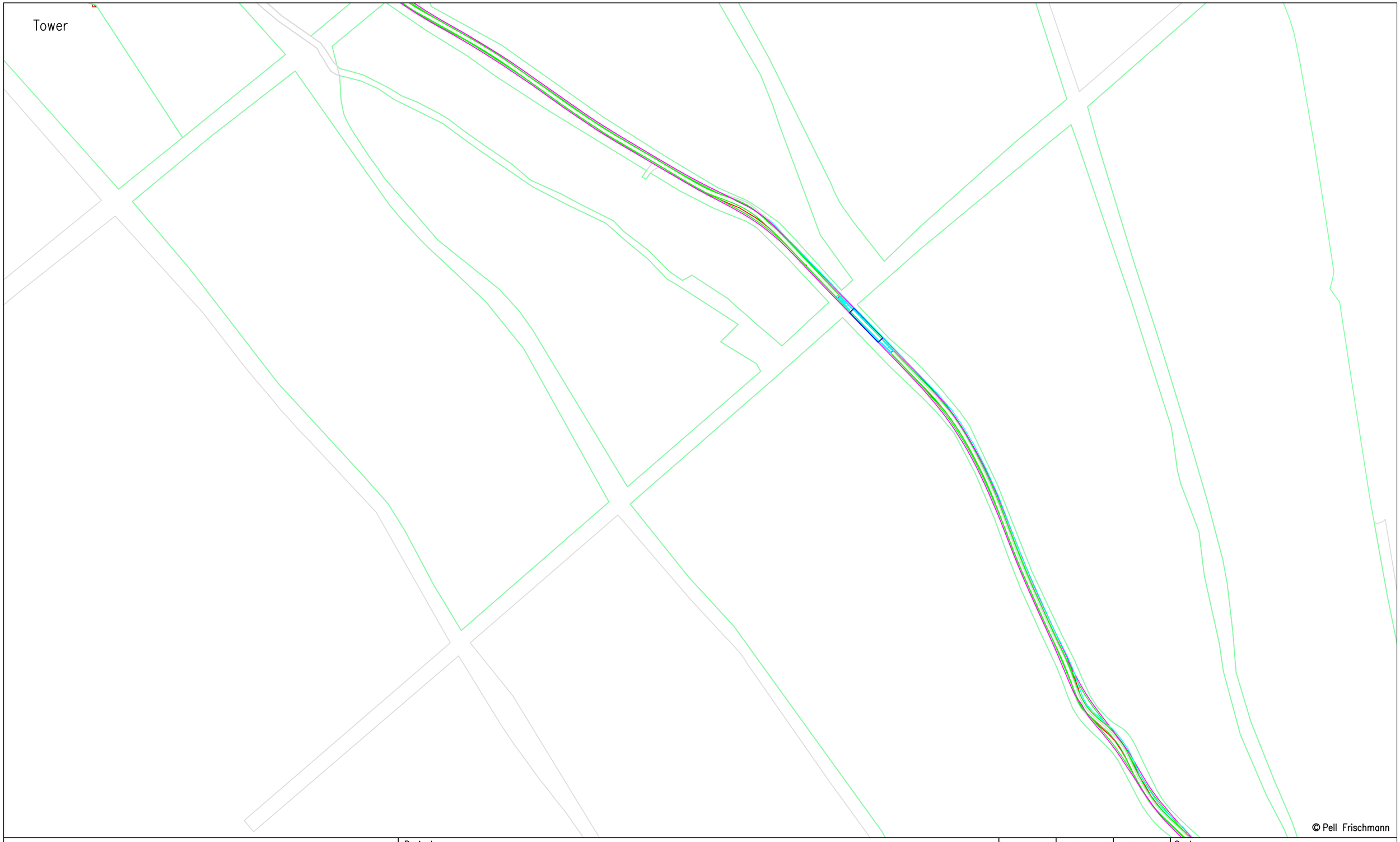
File No: 250829 Creachan Access SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK07

Notes:
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Existing road to be widened to a minimum of 5m.

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 7

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		7

Scale: 1:2500 @ A3

File No: 250829 Creachan Access SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK07A

Notes:
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Existing road to be widened to a minimum of 5m.

Revision

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 7

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		7

Scale: 1:2500 @ A3

File No: 250829 Creachan Access SPA SG170.dwg

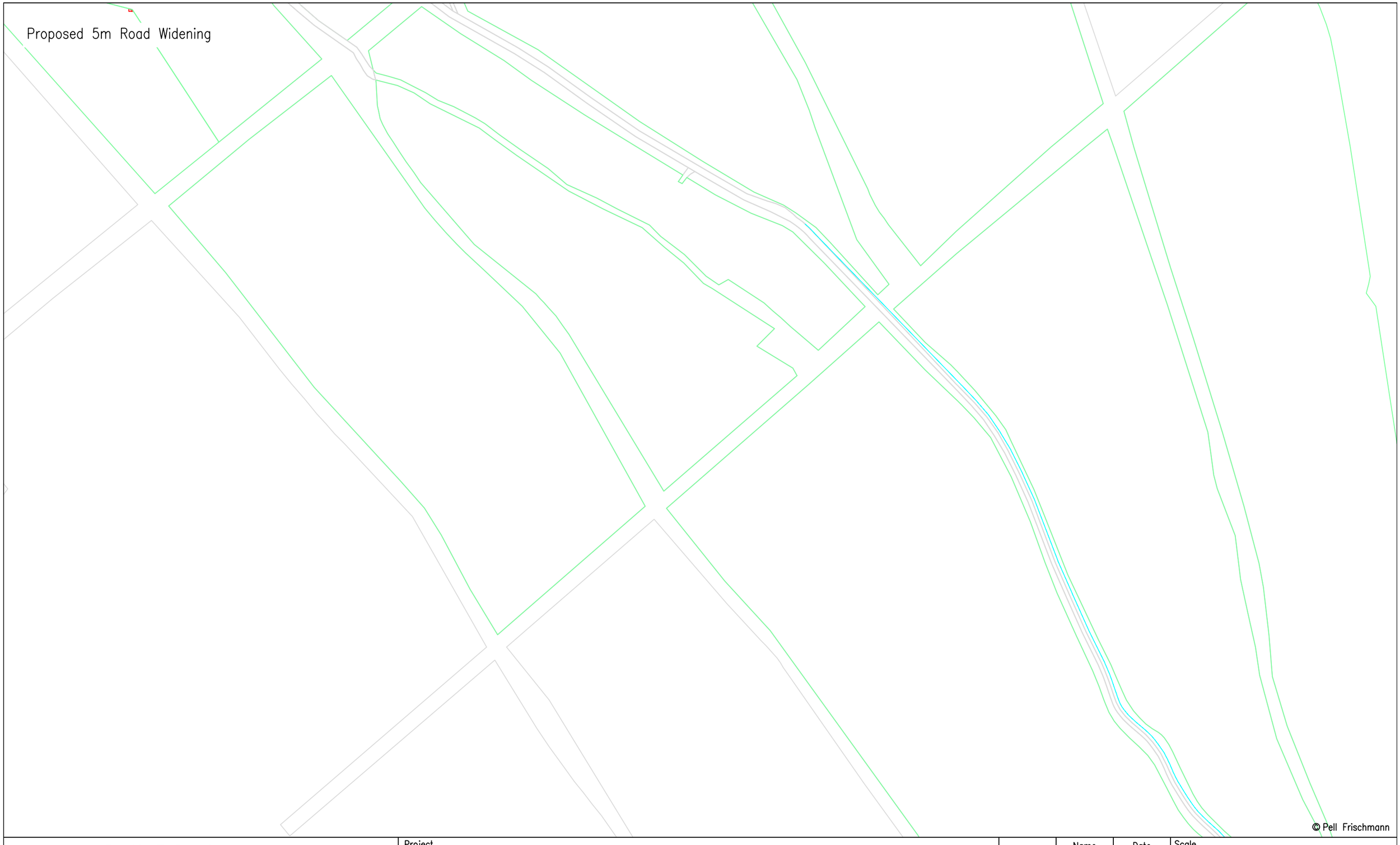
Drawing Status: Draft

Drawing No.: SK07B

Notes:
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2. This is not a construction drawing and is intended for illustration purposes only.
3. Existing road to be widened to a minimum of 5m.

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 7

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		7

Scale: 1:2500 @ A3

File No: 250829 Creachan Access SPA SG170.dwg

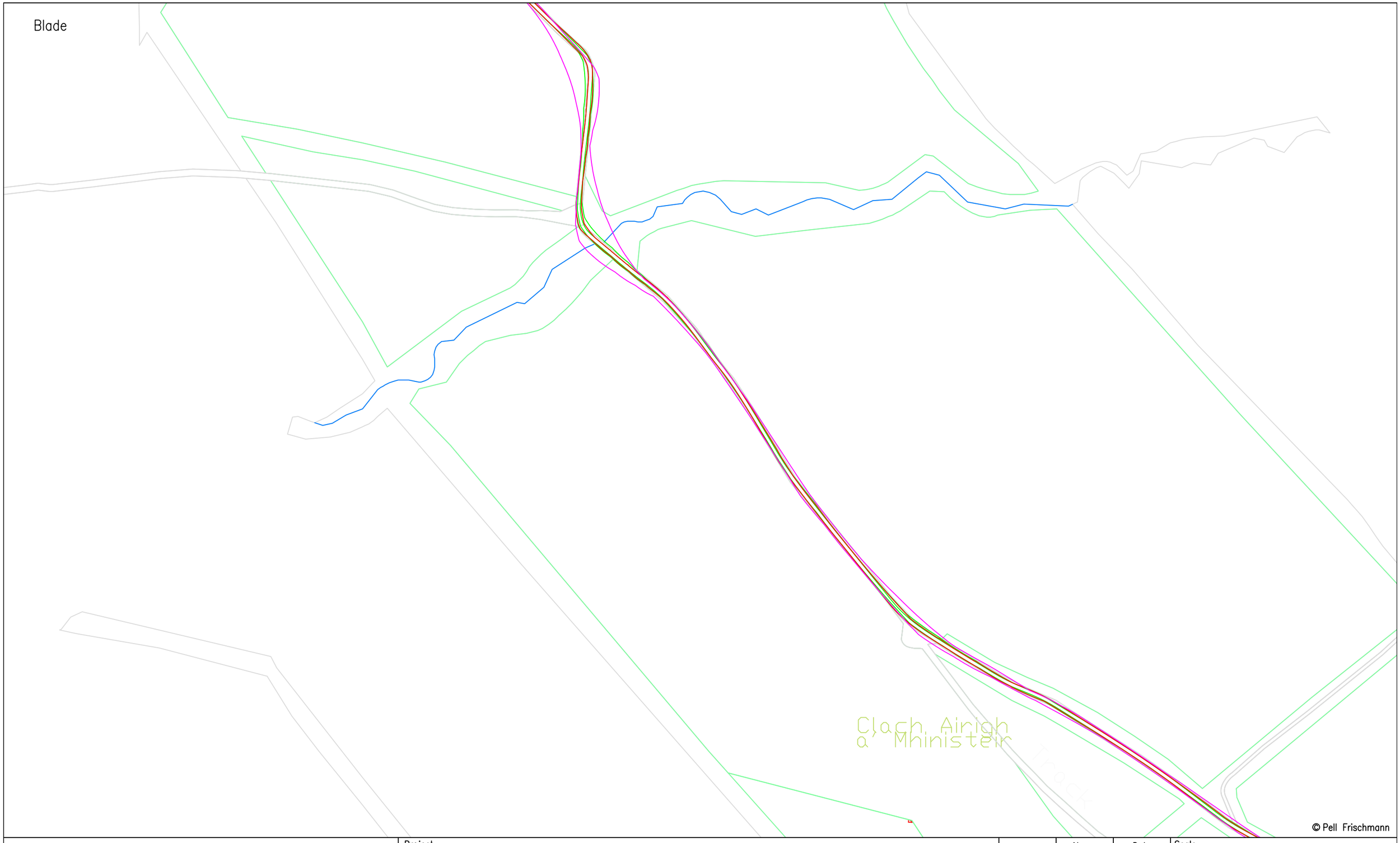
Drawing Status: Draft

Drawing No.: SK07C

Notes:
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Existing road to be widened to a minimum of 5m.

Revision

Blade



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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 8

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		8

Scale: 1:2500 @ A3

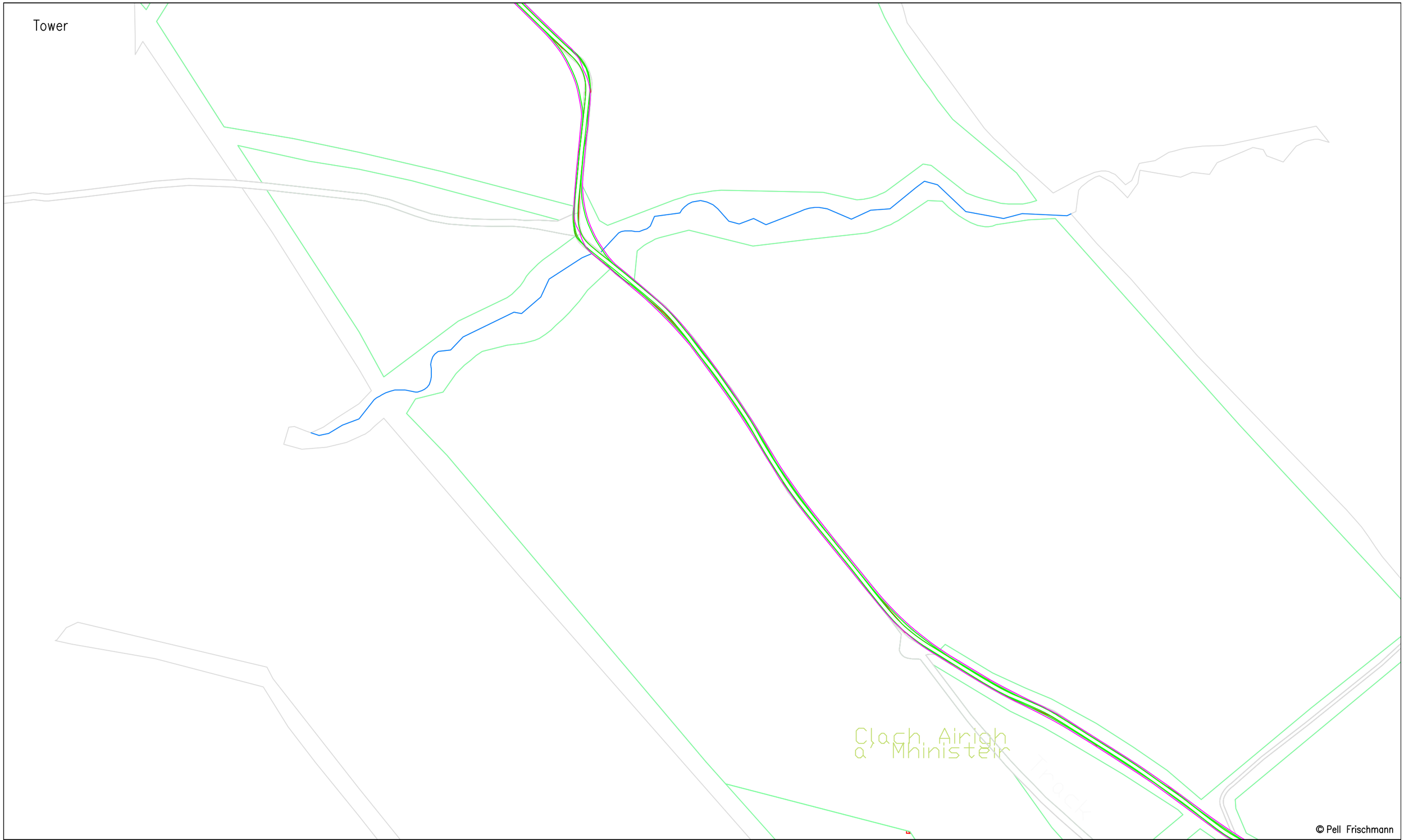
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Drawing Status: Draft

Drawing No.: SK08

Notes:
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Existing road to be widened to a minimum of 5m.

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 8

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		8

Scale: 1:2500 @ A3

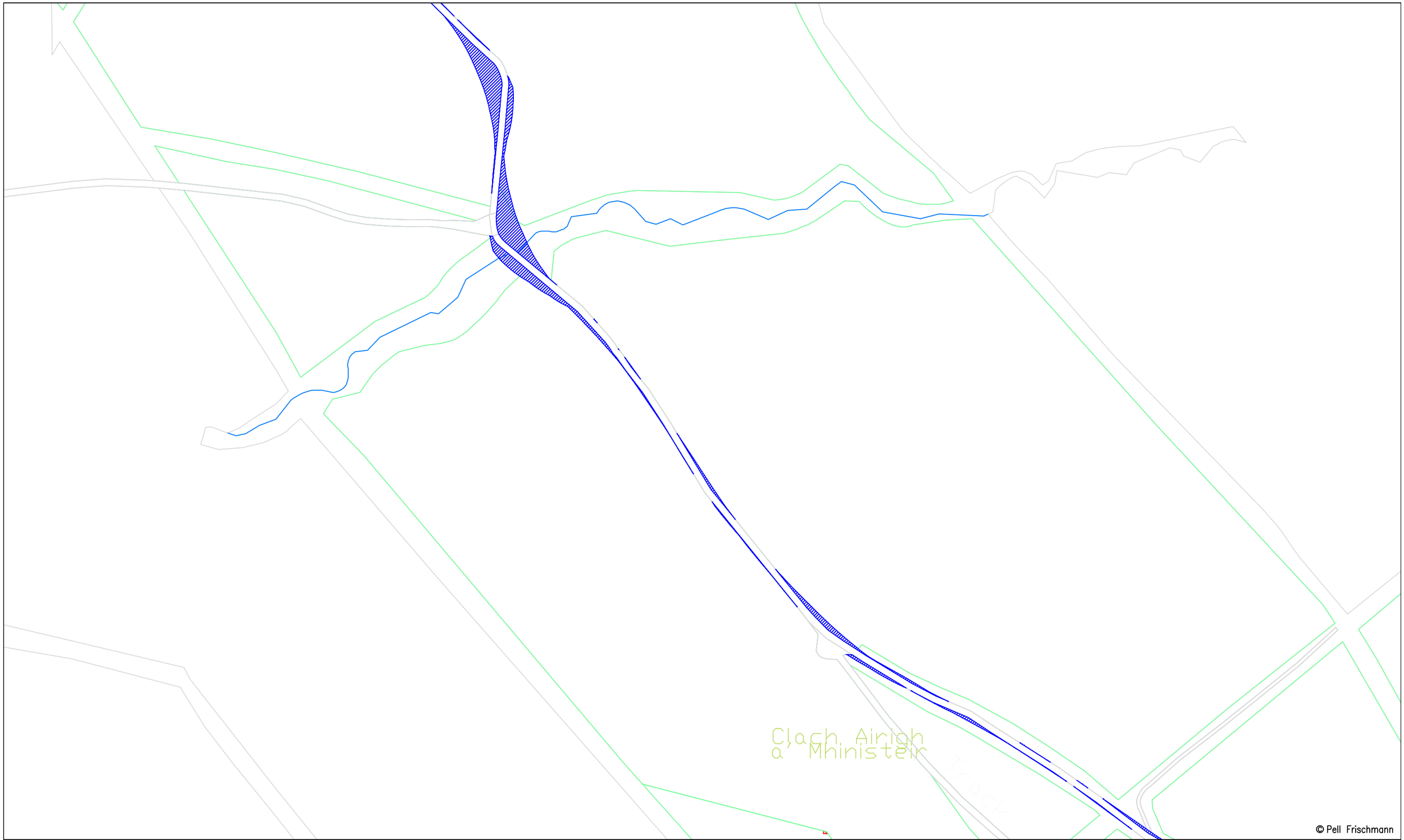
File No: 250829 Creachan Access SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK08A

Notes:
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Existing road to be widened to a minimum of 5m.

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 8

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		8

Scale: 1:2500 @ A3

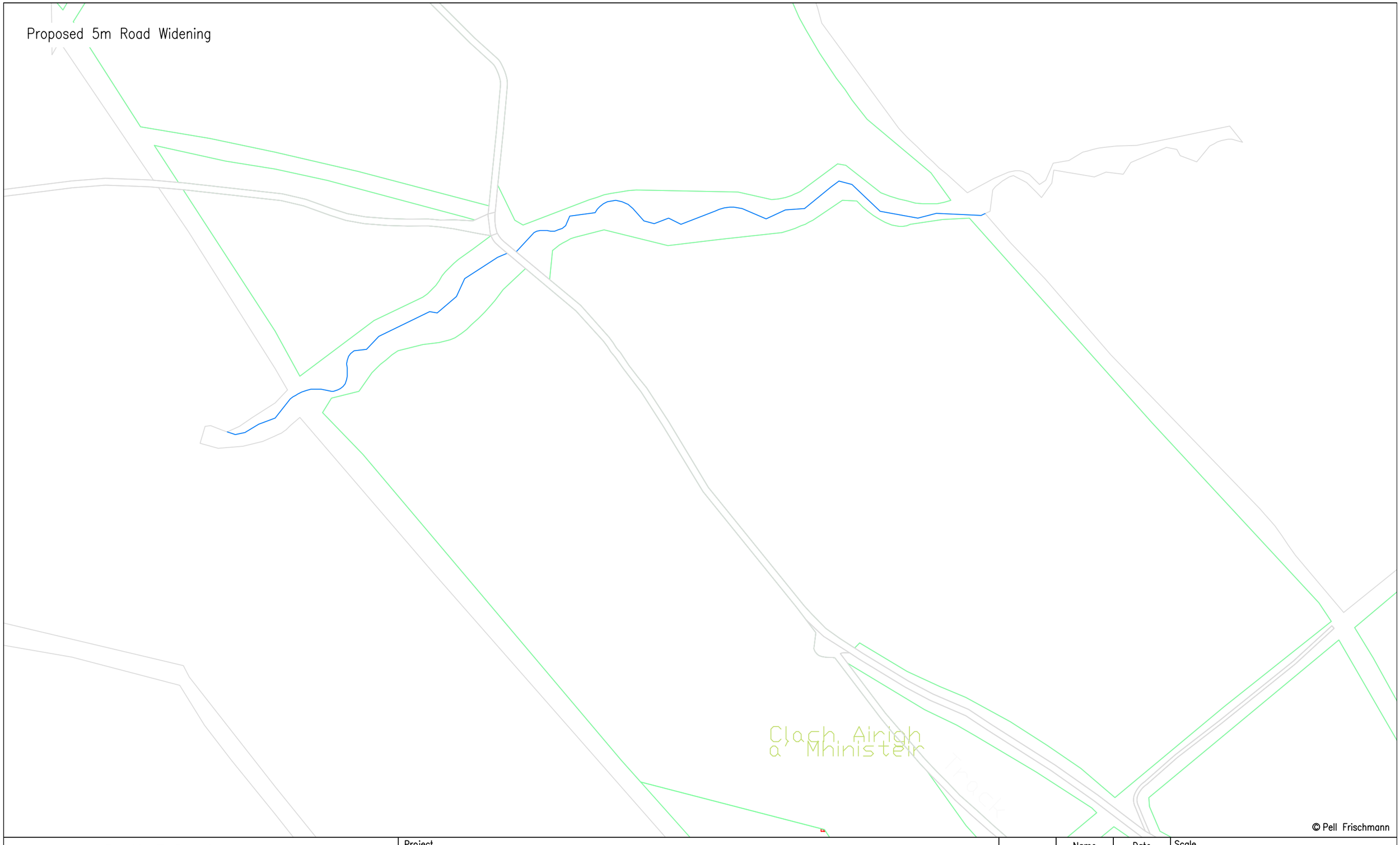
File No: 250829 Creachan Access SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK08B

Notes:
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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 8

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		8

Scale: 1:2500 @ A3

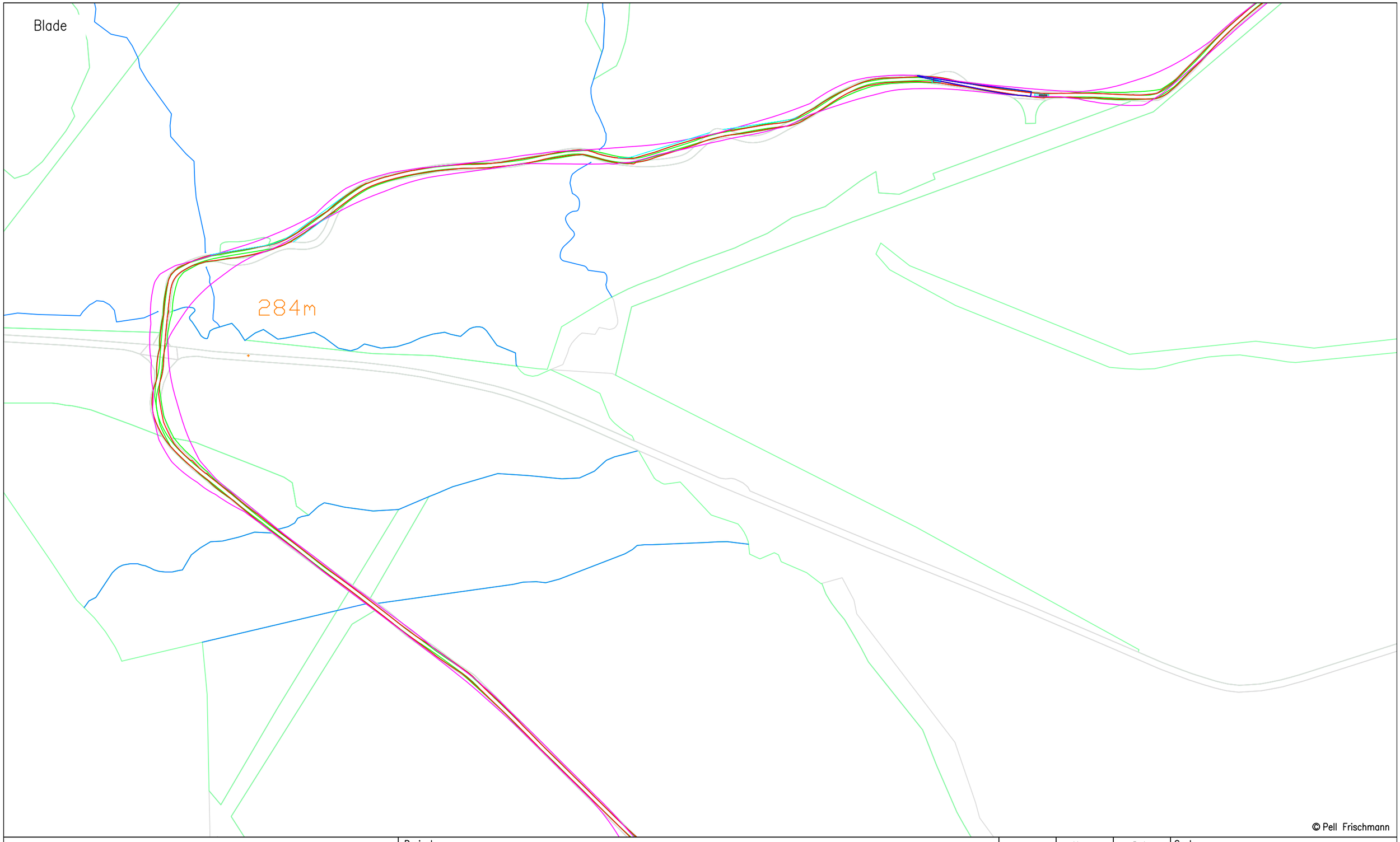
File No: 250829 Creachan Access SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK08C

Notes:
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Existing road to be widened to a minimum of 5m.

Revision



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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over–run | Over–sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 9

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		9

Scale: 1:2500 @ A3

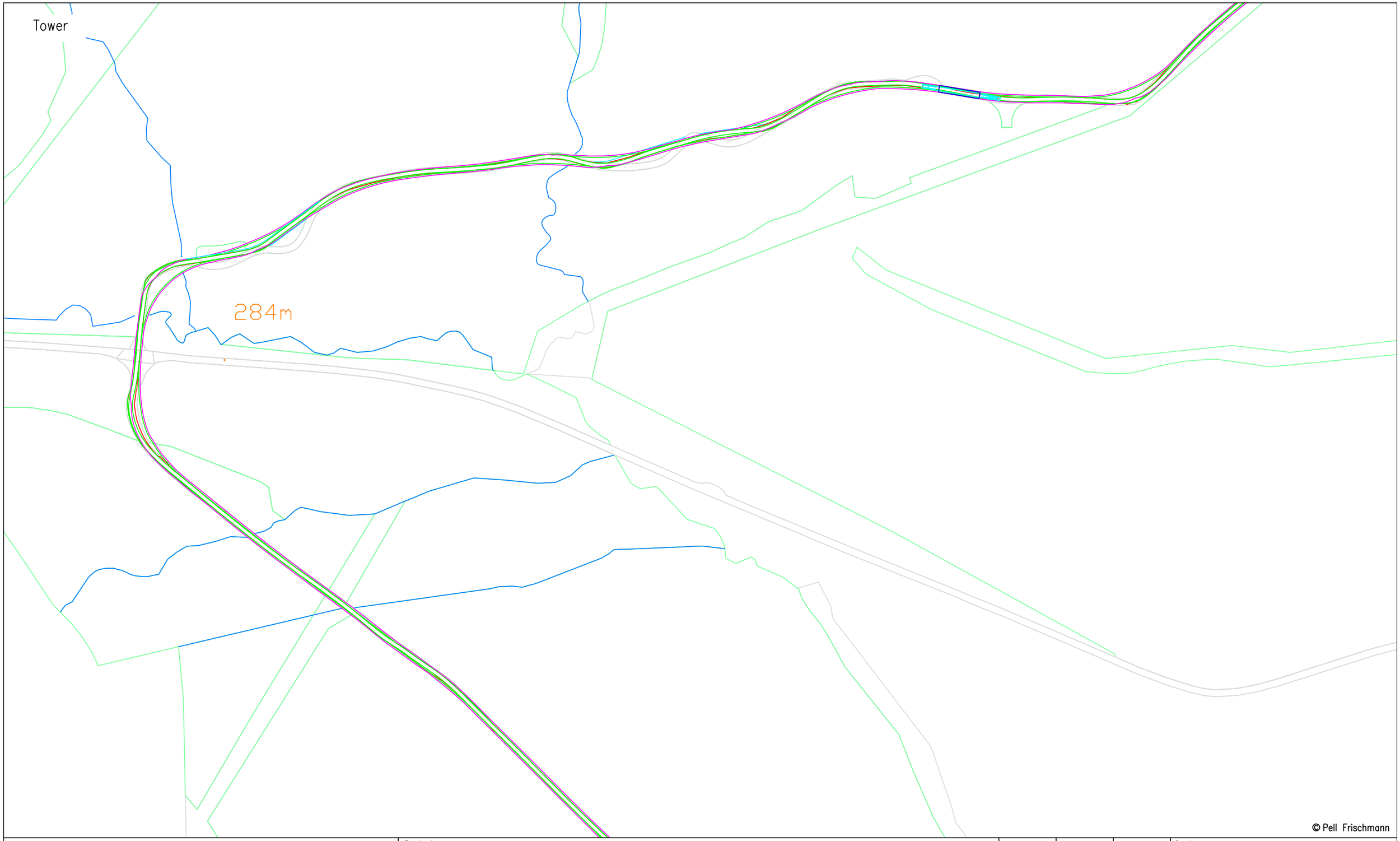
File No: 250829 Creachan Access SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK09

Notes:
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Existing road to be widened to a minimum of 5m.

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Client: RWE

Key: Wheel SPA; Body SPA; Load SPA; Indicative; Over-run; Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 9

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		9

Scale: 1:2500 @ A3

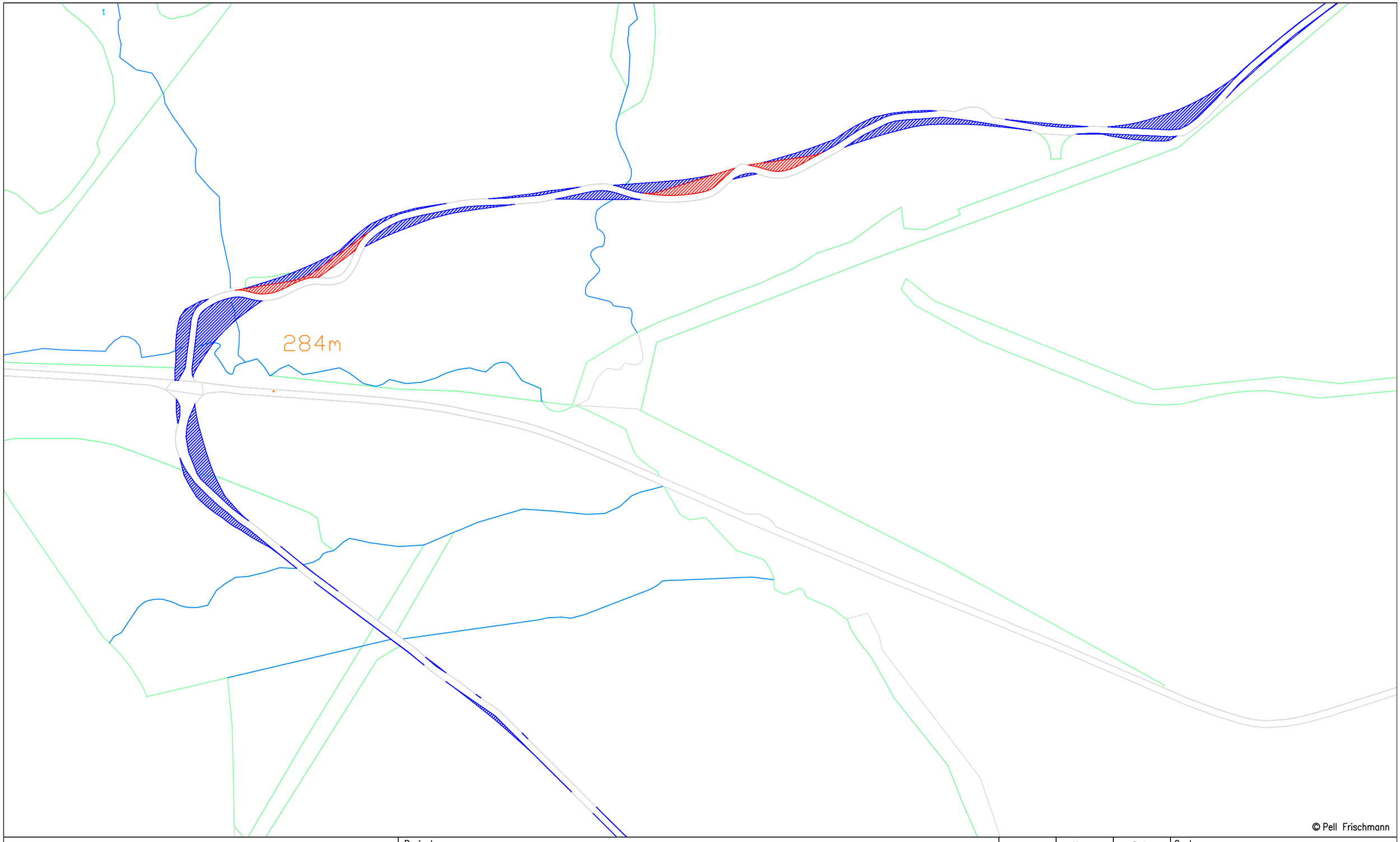
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Drawing Status: Draft

Drawing No.: SK09A

Notes:
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Existing road to be widened to a minimum of 5m.

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 9

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		9

Scale: 1:2500 @ A3

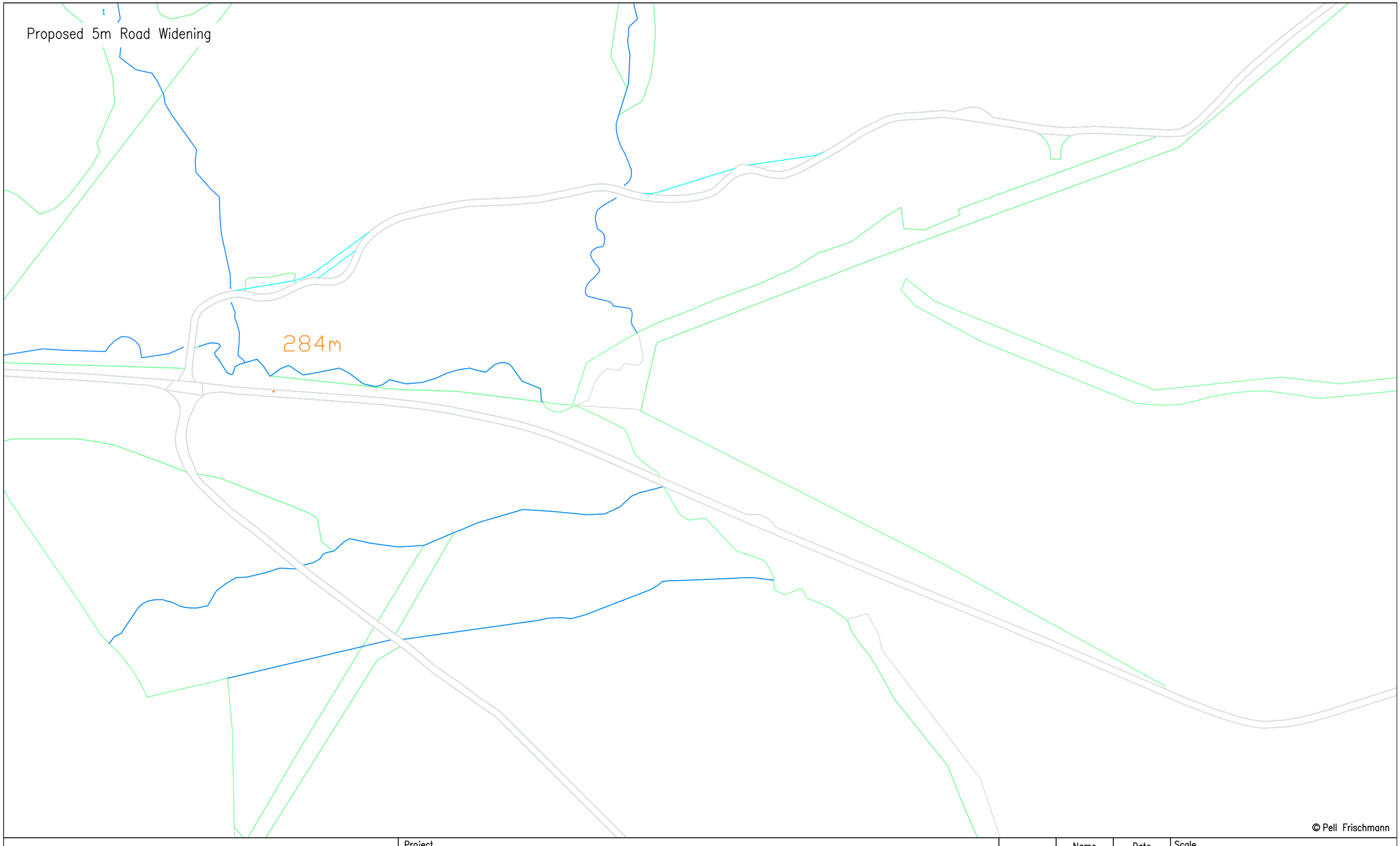
File No: 250829 Creachan Access SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK09B

Notes:
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 9

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		9

Scale: 1:2500 @ A3

File No: 250829 Creachan Access SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK09C

Notes:
1. All mitigation is subject to confirmation through a test run.
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Revision

Blade

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 10

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		10

Scale: 1:2500 @ A3

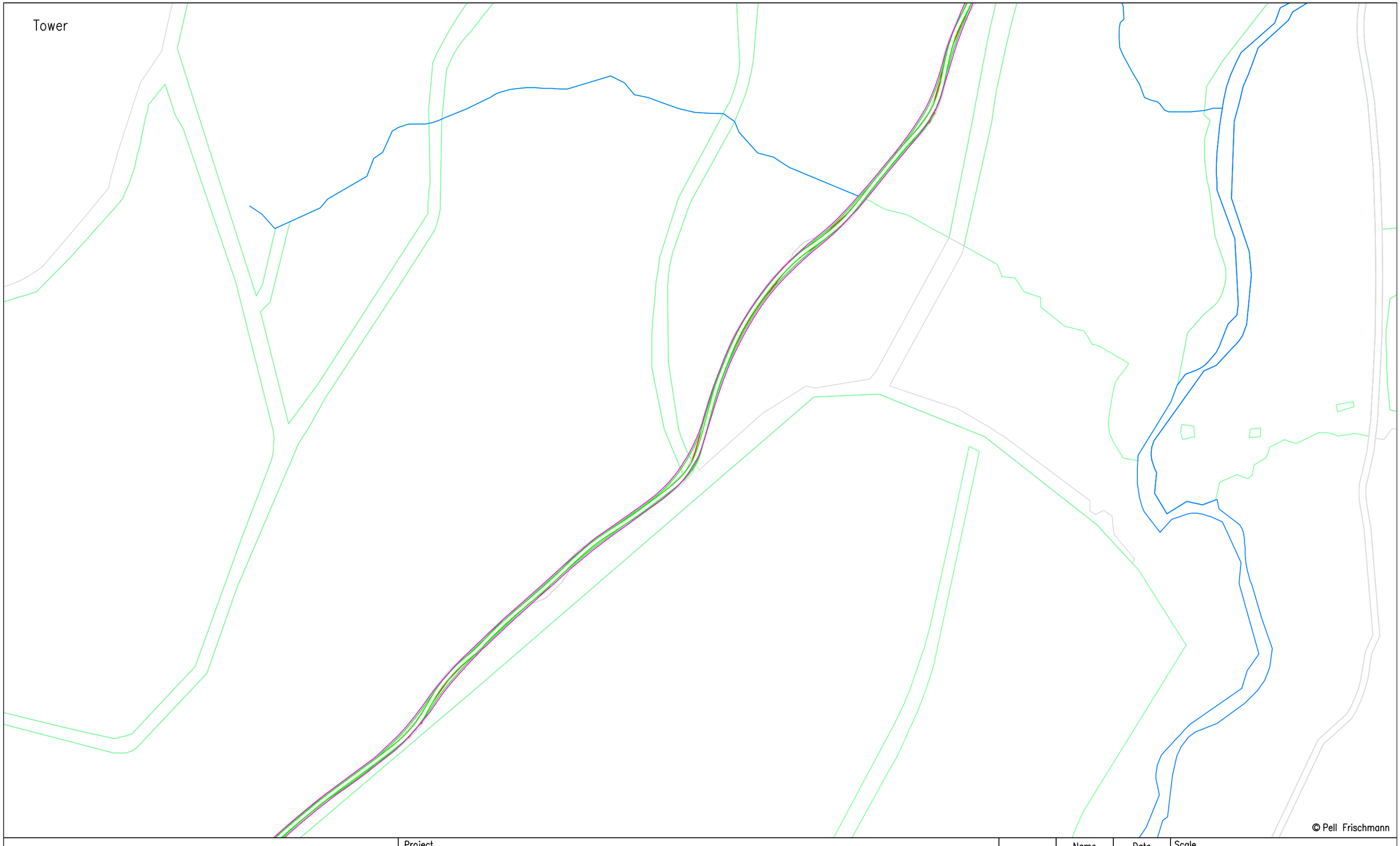
File No: 250829 Creachan Access SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK10

Notes:
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Existing road to be widened to a minimum of 5m.

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 10

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		10

Scale: 1:2500 @ A3

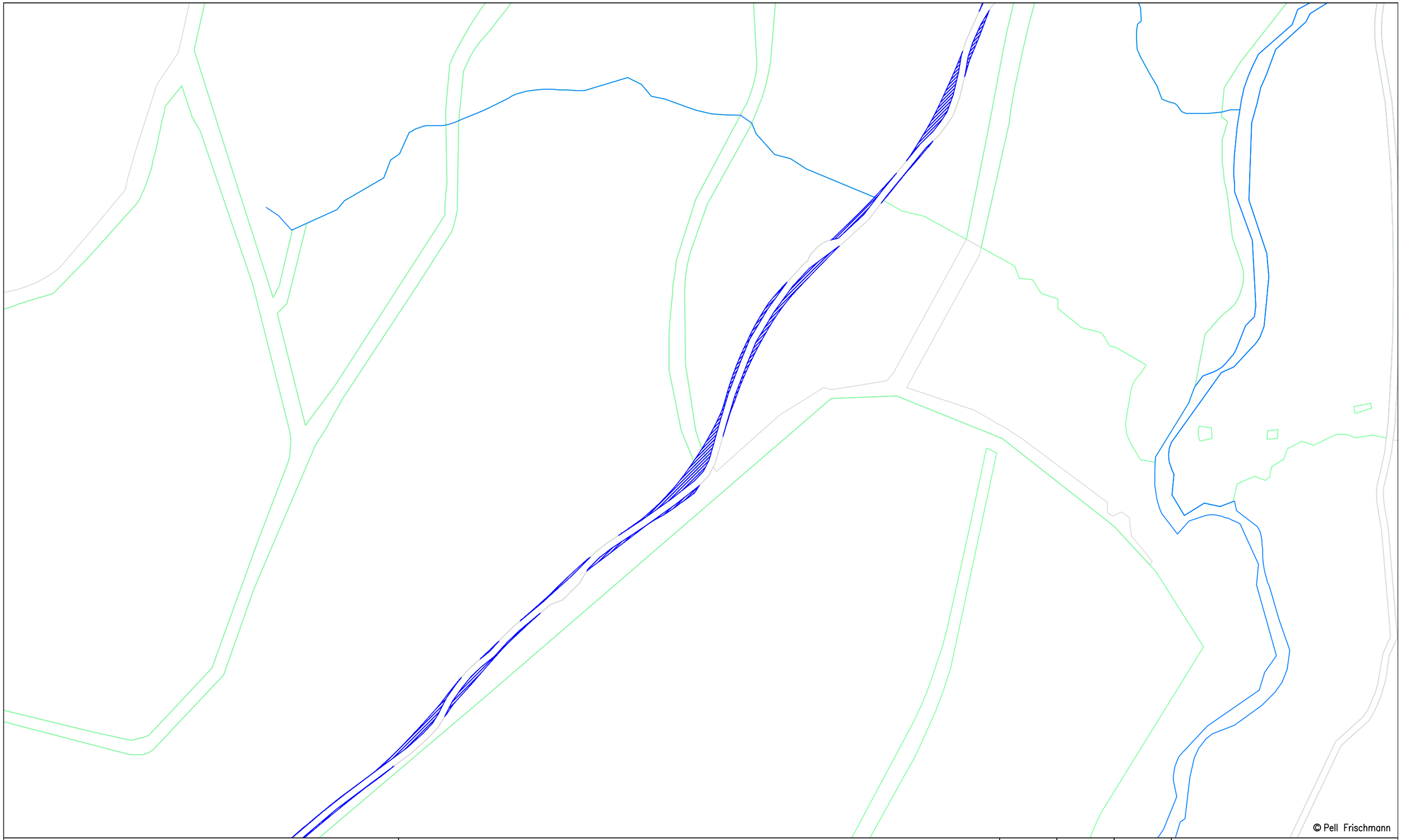
File No: 250829 Creachan Access SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK10A

Notes:
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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 10

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		10

Scale: 1:2500 @ A3

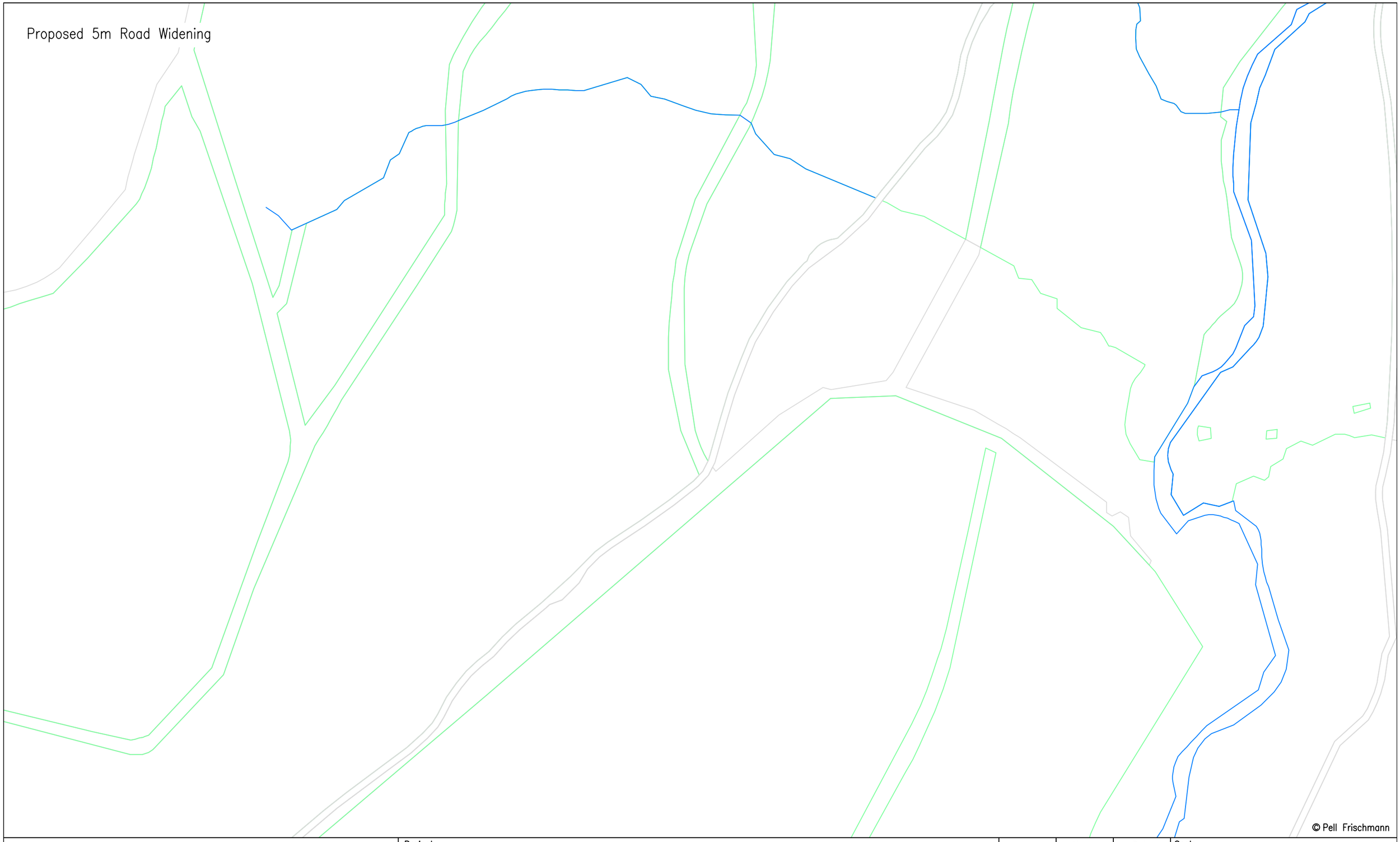
File No: 250829 Creachan Access SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK10B

Notes:
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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 10

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		10

Scale: 1:2500 @ A3

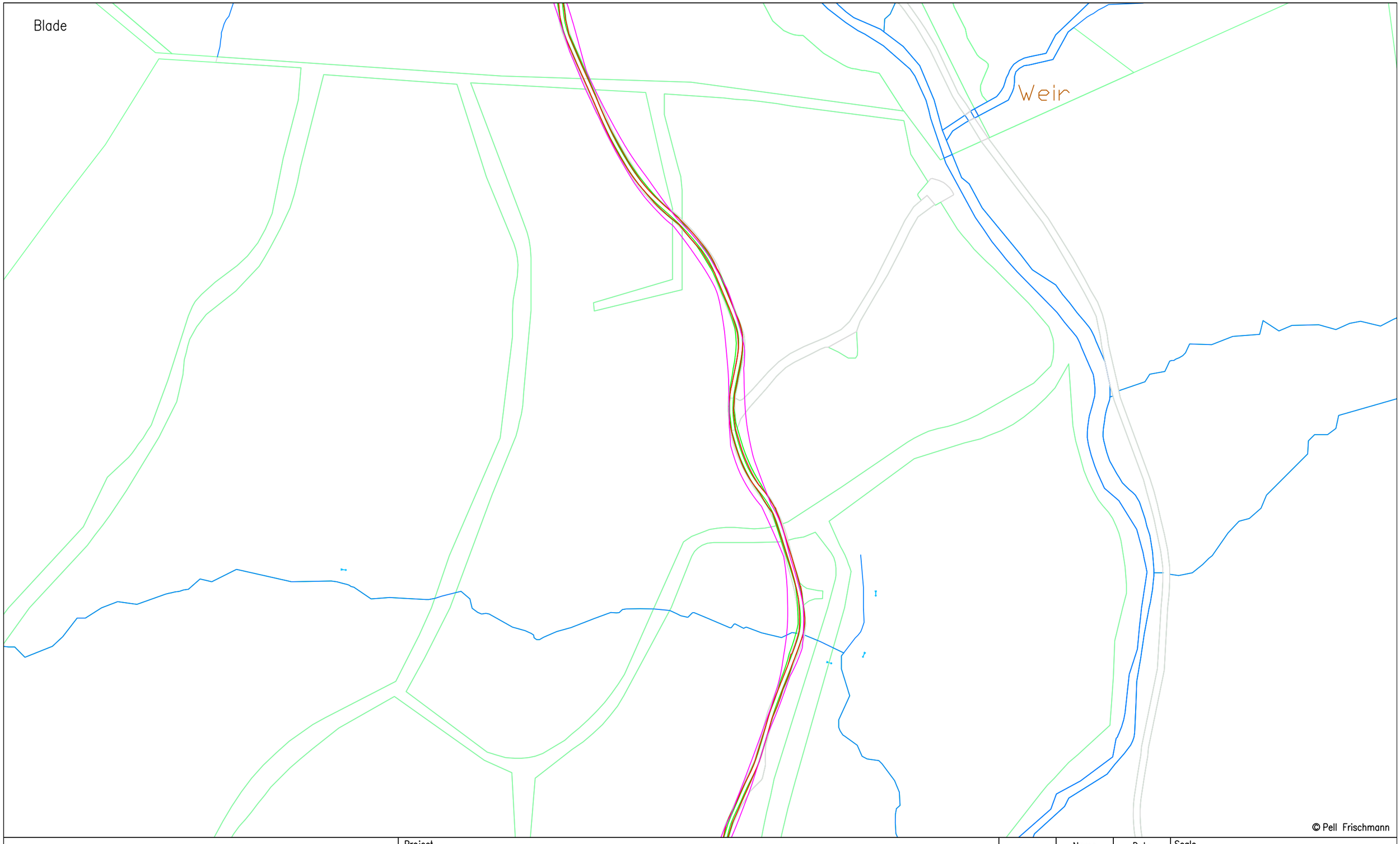
File No: 250829 Creachan Access SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK10C

Notes:
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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 11

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		11

Scale: 1:2500 @ A3

File No: 250829 Creachan Access SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK11

Notes:
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Existing road to be widened to a minimum of 5m.

Revision

Tower

Weir

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 11

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		11

Scale: 1:2500 @ A3

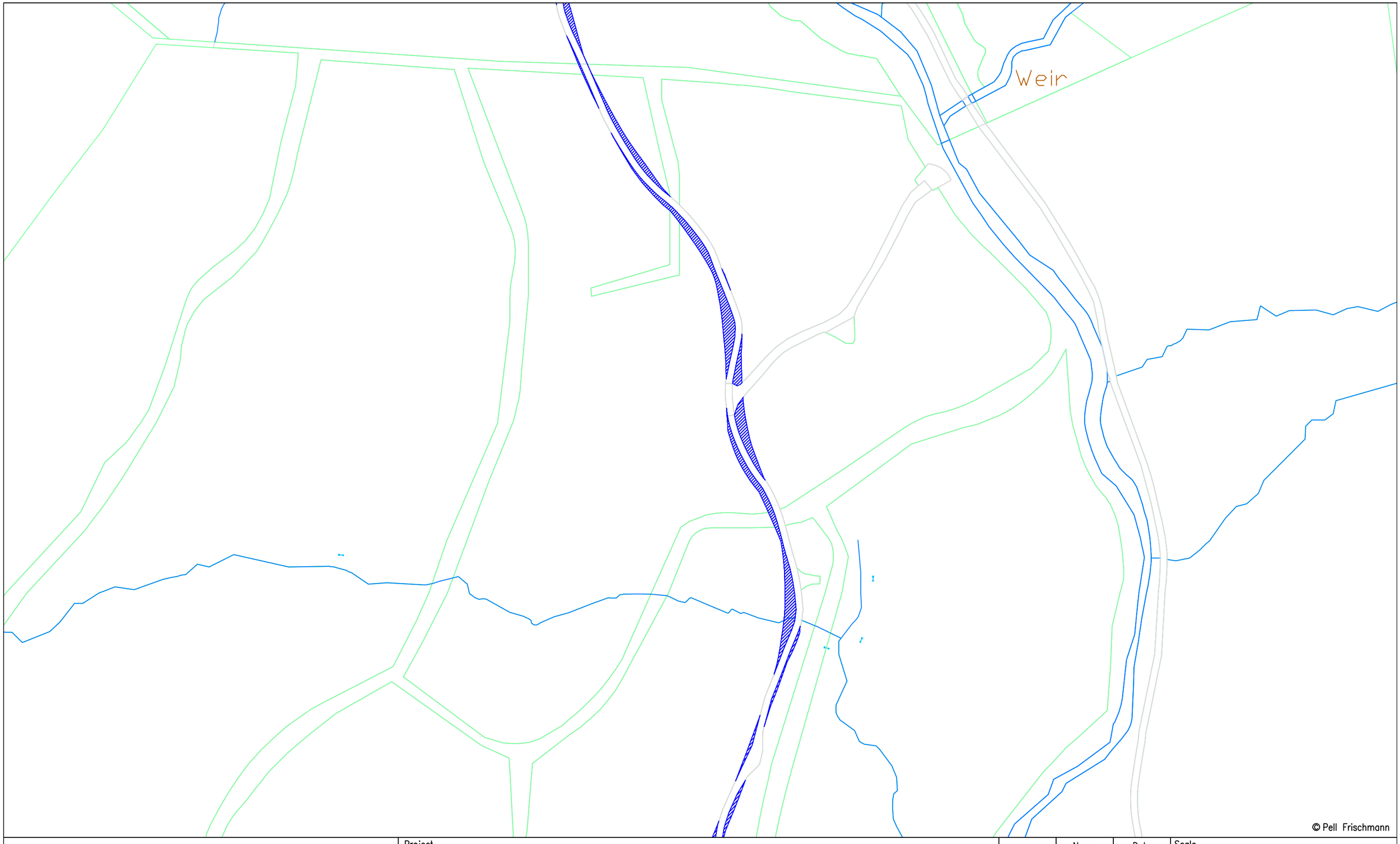
File No: 250829 Creachan Access SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK11A

Notes:
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Revision



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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over–run | Over–sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 11

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		11

Scale: 1:2500 @ A3

File No: 250829 Creachan Access SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK11B

Notes:
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Existing road to be widened to a minimum of 5m.

Revision

Proposed 5m Road Widening

Weir

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 11

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		11

Scale: 1:2500 @ A3

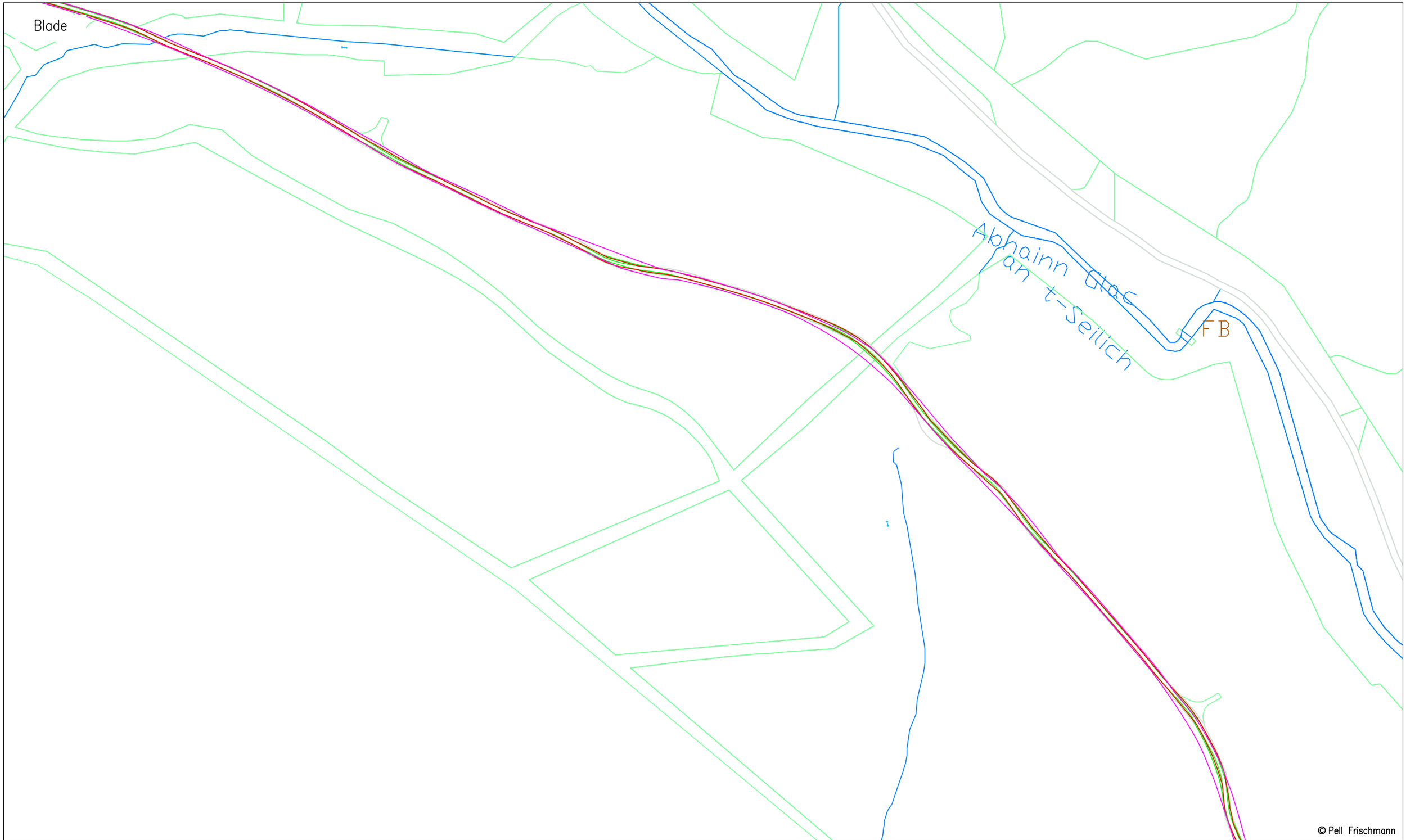
File No: 250829 Creachan Access SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK11C

Notes:
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Revision



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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 12

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		12

Scale: 1:2500 @ A3

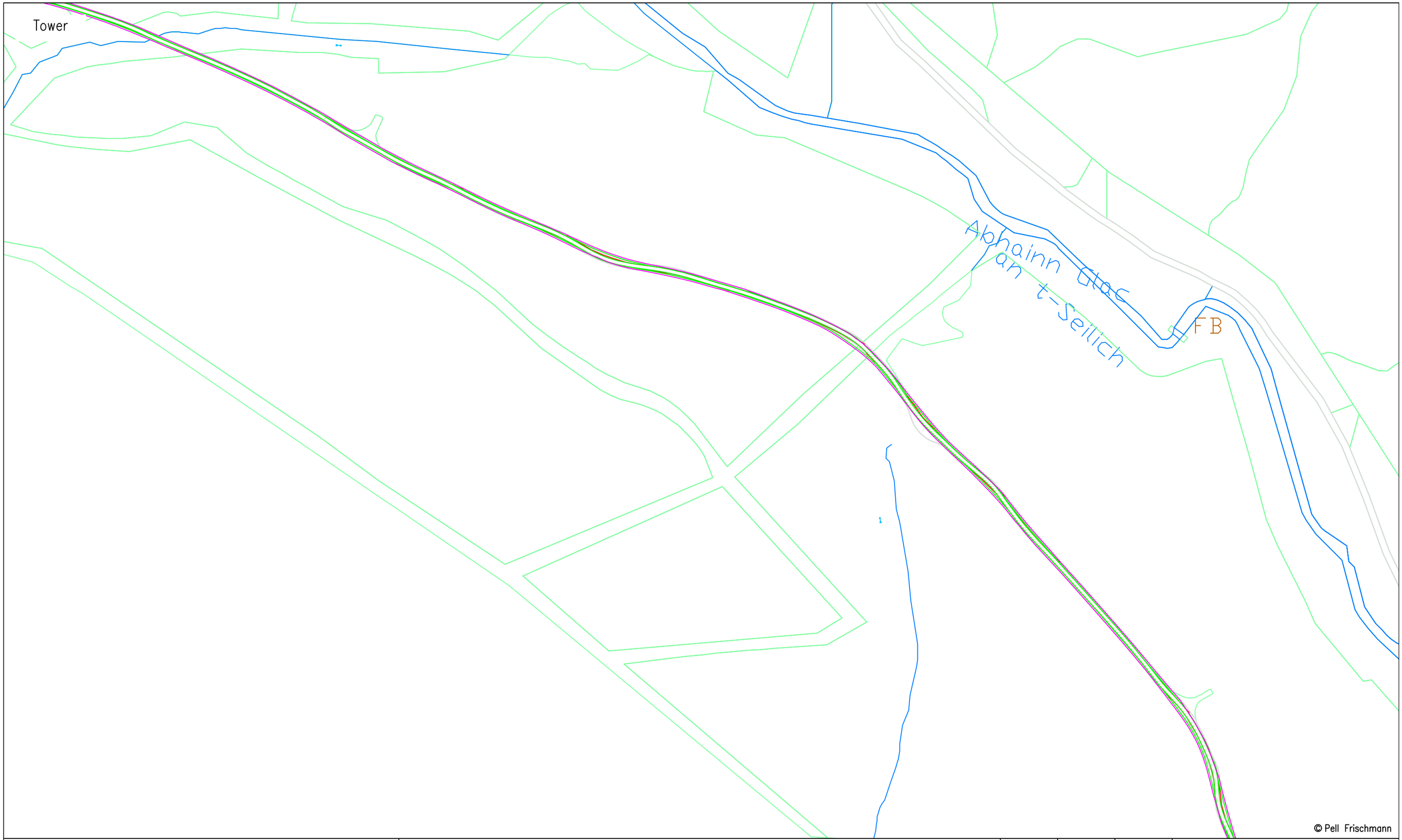
File No: 250829 Creachan Access SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK12

Notes:
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Existing road to be widened to a minimum of 5m.

Revision



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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 12

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		12

Scale: 1:2500 @ A3

File No: 250829 Creachan Access SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK12A

Notes:
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Existing road to be widened to a minimum of 5m.

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 12

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		12

Scale: 1:2500 @ A3

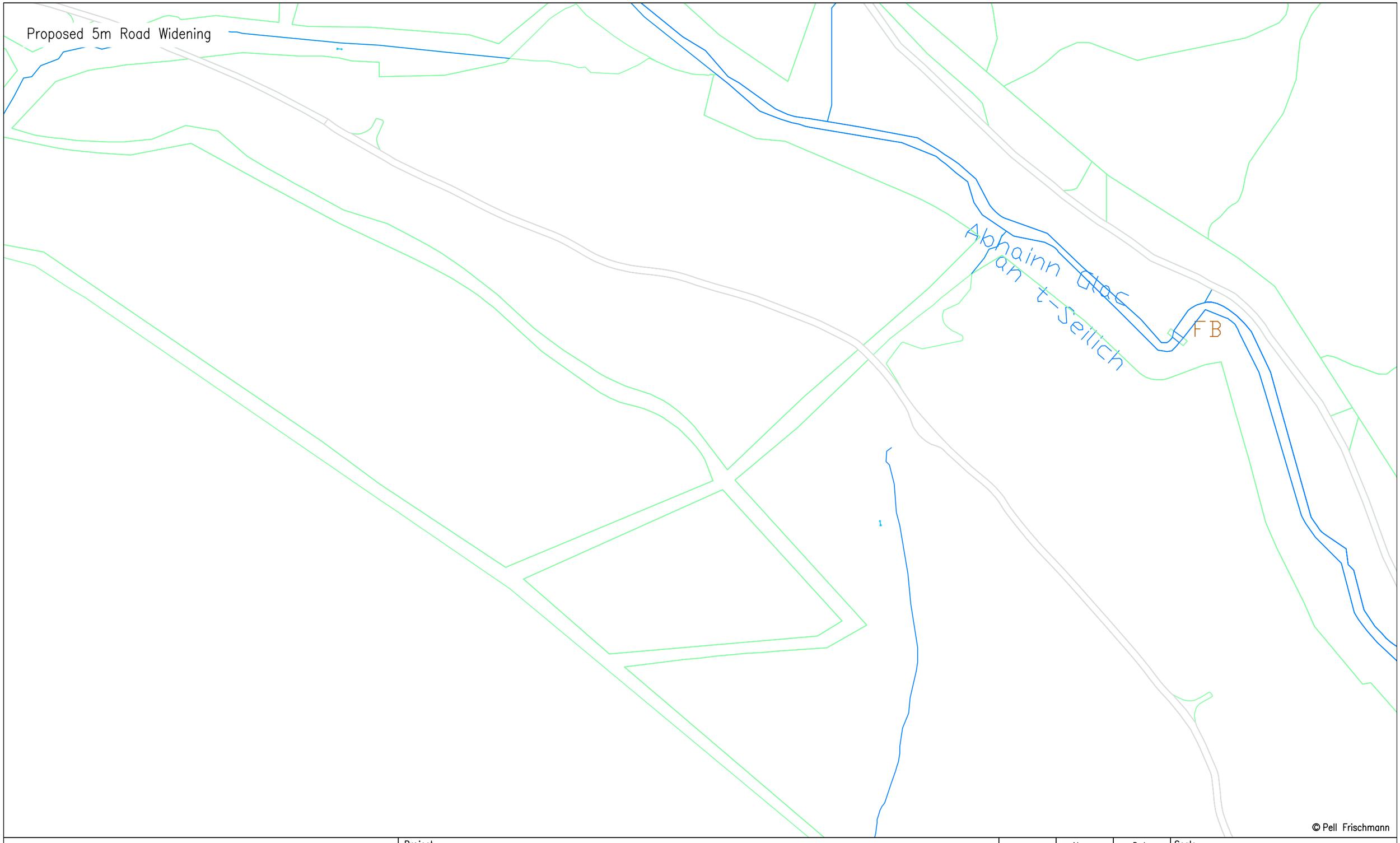
File No: 250829 Creachan Access SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK12B

Notes:
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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 12

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		12

Scale: 1:2500 @ A3

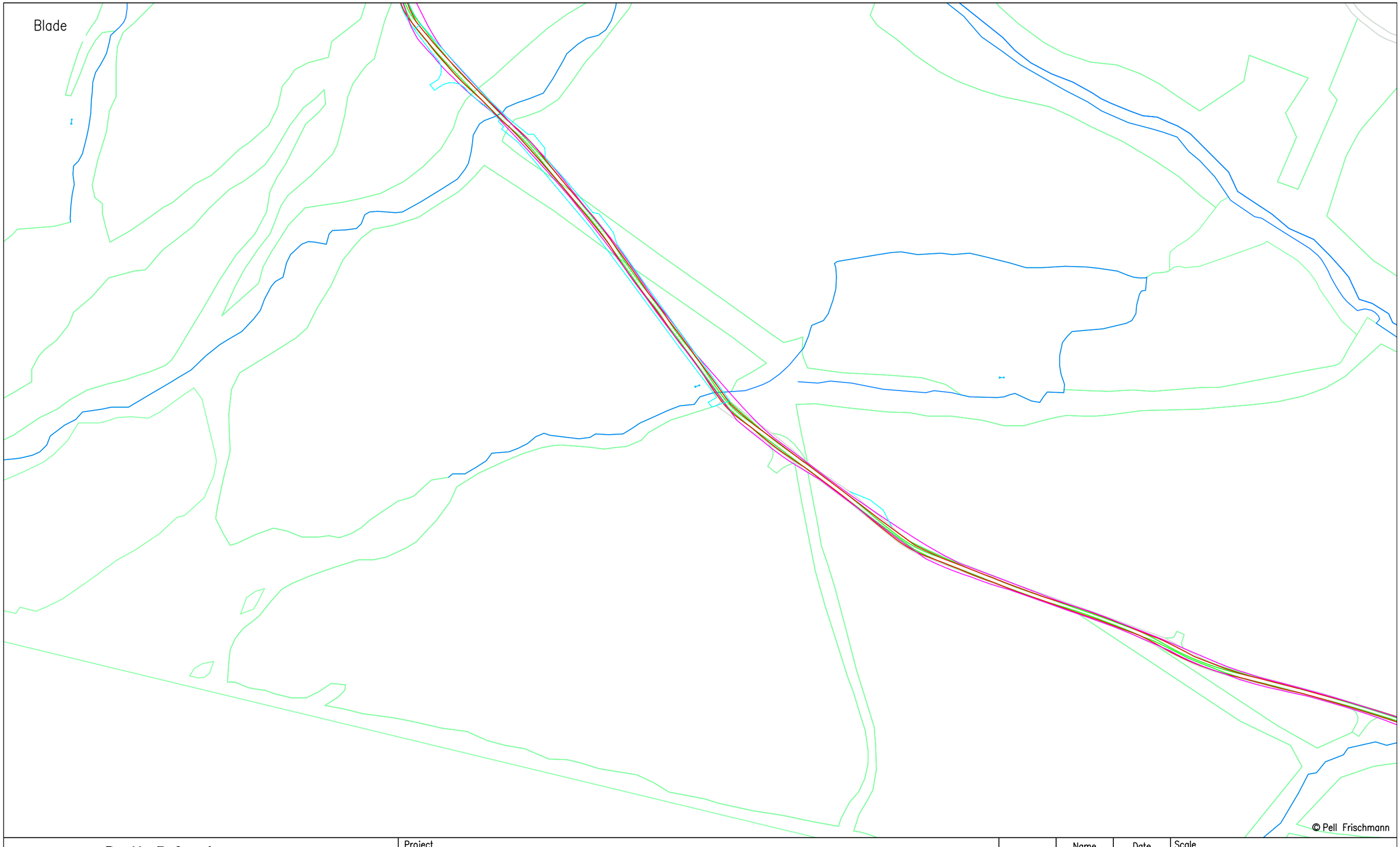
File No: 250829 Creachan Access SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK12C

Notes:
1. All mitigation is subject to confirmation through a test run.
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3. Existing road to be widened to a minimum of 5m.

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over–run | Over–sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 13

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		13

Scale: 1:2500 @ A3

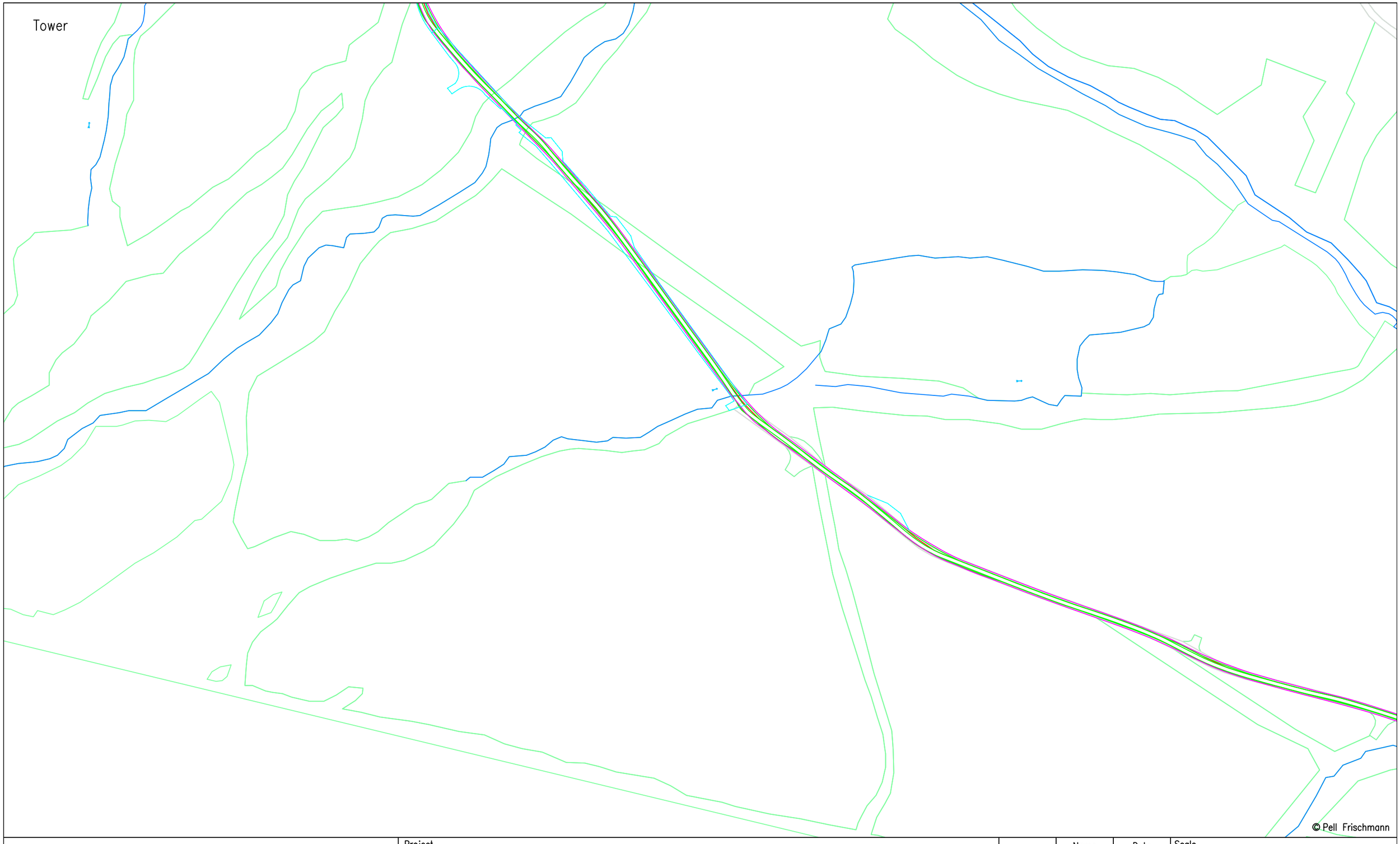
File No: 250829 Creachan Access SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK13

Notes:
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Existing road to be widened to a minimum of 5m.

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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 13

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		13

Scale: 1:2500 @ A3

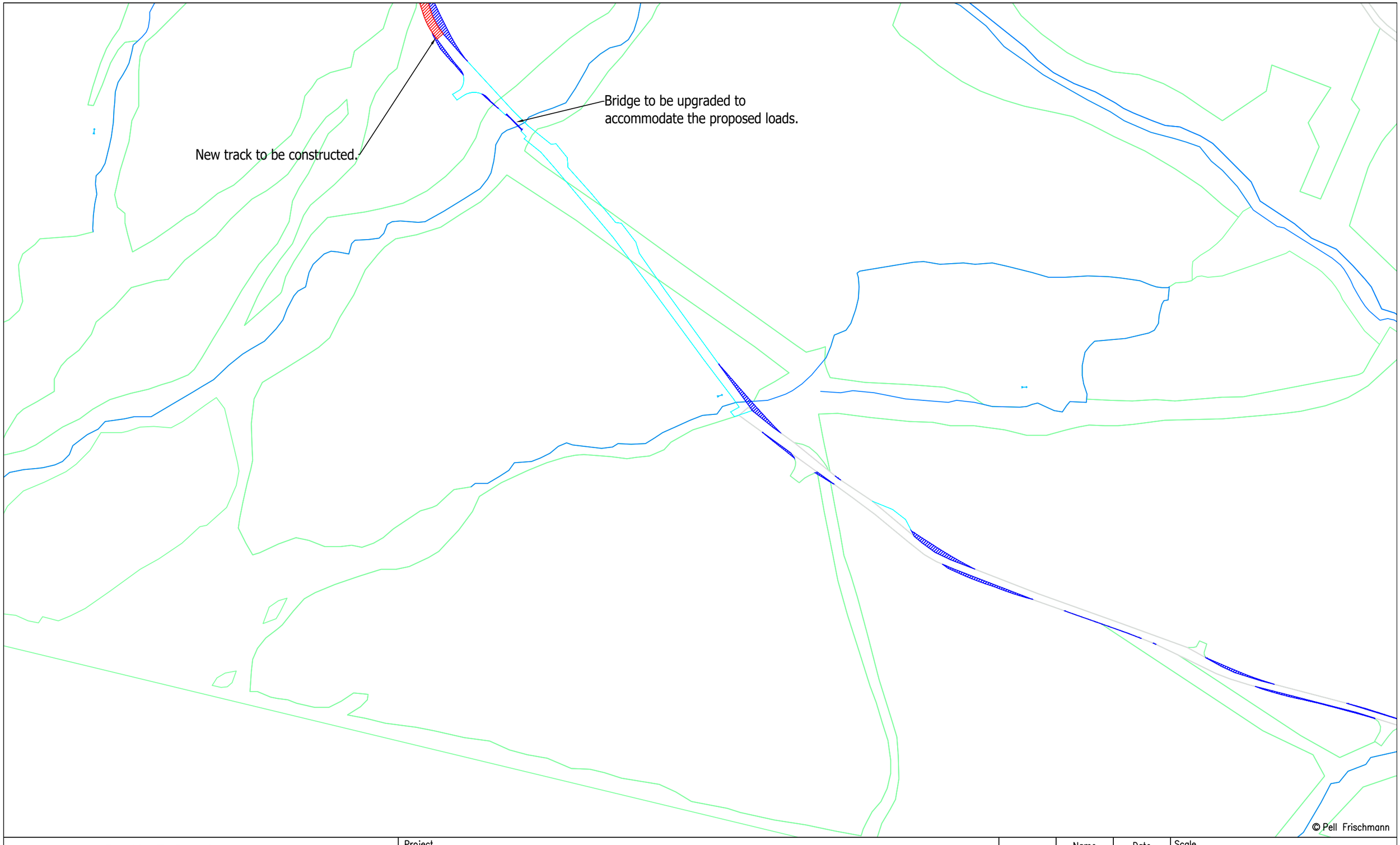
File No: 250829 Creachan Access SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK13A

Notes:
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Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 13

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		13

Scale: 1:2500 @ A3

File No: 250829 Creachan Access SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK13B

Notes:
1. All mitigation is subject to confirmation through a test run.
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Revision

Proposed 5m Road Widening

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Client: RWE

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Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 13

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		13

Scale: 1:2500 @ A3

File No: 250829 Creachan Access SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK13C

Notes:
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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 14

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		14

Scale: 1:2500 @ A3

File No: 250829 Creachan Access SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK14

Notes:
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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 14

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		14

Scale: 1:2500 @ A3

File No: 250829 Creachan Access SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK14A

Notes:
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Existing road to be widened to a minimum of 5m.

Revision



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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 14

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		14

Scale: 1:2500 @ A3

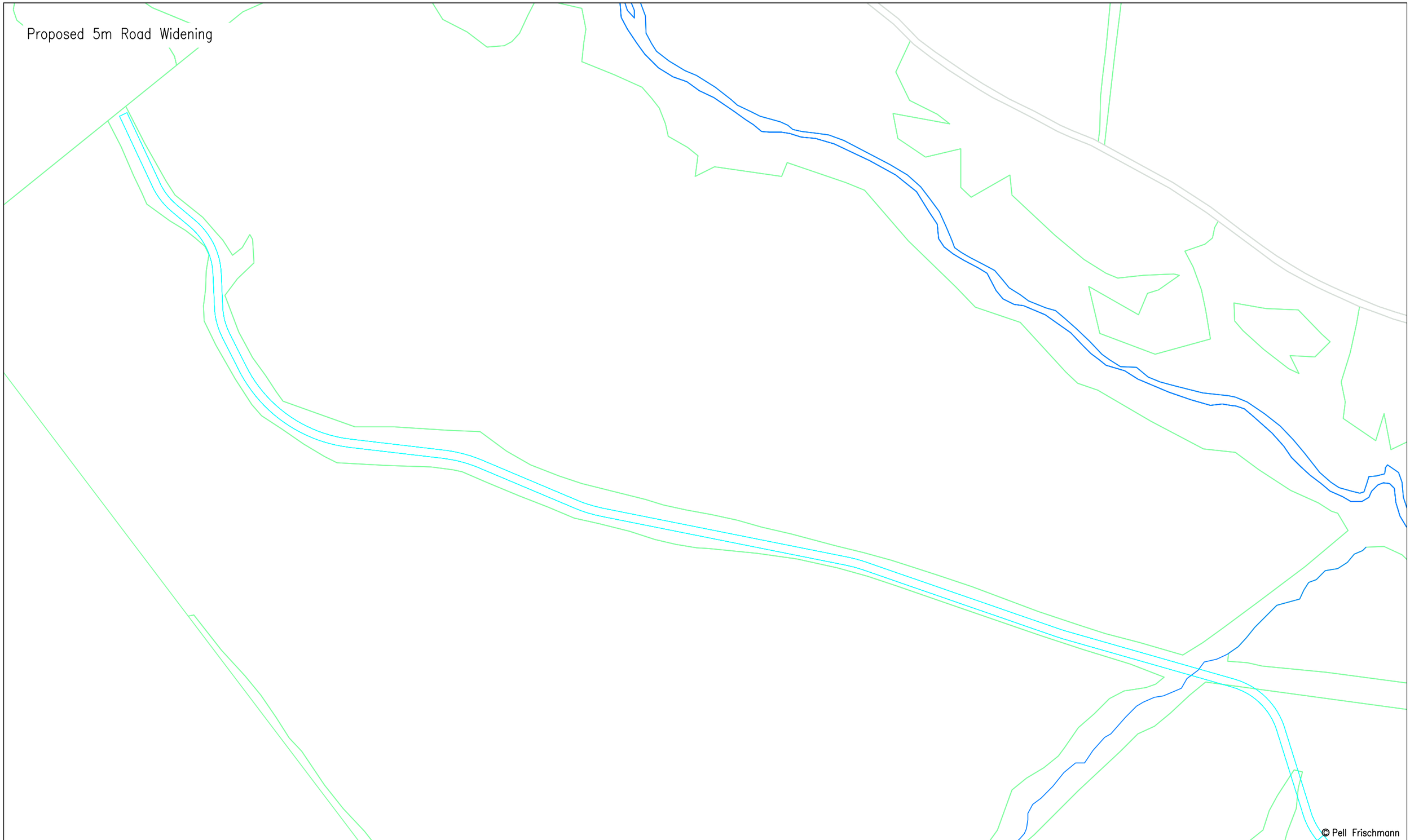
File No: 250829 Creachan Access SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK14B

Notes:
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Existing road to be widened to a minimum of 5m.

Revision



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Client: RWE

Key: Wheel SPA | Body SPA | Load SPA | Indicative | Over-run | Over-sail

Project: Creachan Wind Farm

Drawing Title: Siemens SG170 Blade and Tower

SPA Location: Section 14

	Name	Date
Drawn	NM	29/08/2025
Designed	JS	29/08/2025
Checked	SCM	29/08/2025
Point of Interest		14

Scale: 1:2500 @ A3

File No: 250829 Creachan Access SPA SG170.dwg

Drawing Status: Draft

Drawing No.: SK14C

Notes:
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Existing road to be widened to a minimum of 5m.

Revision: