

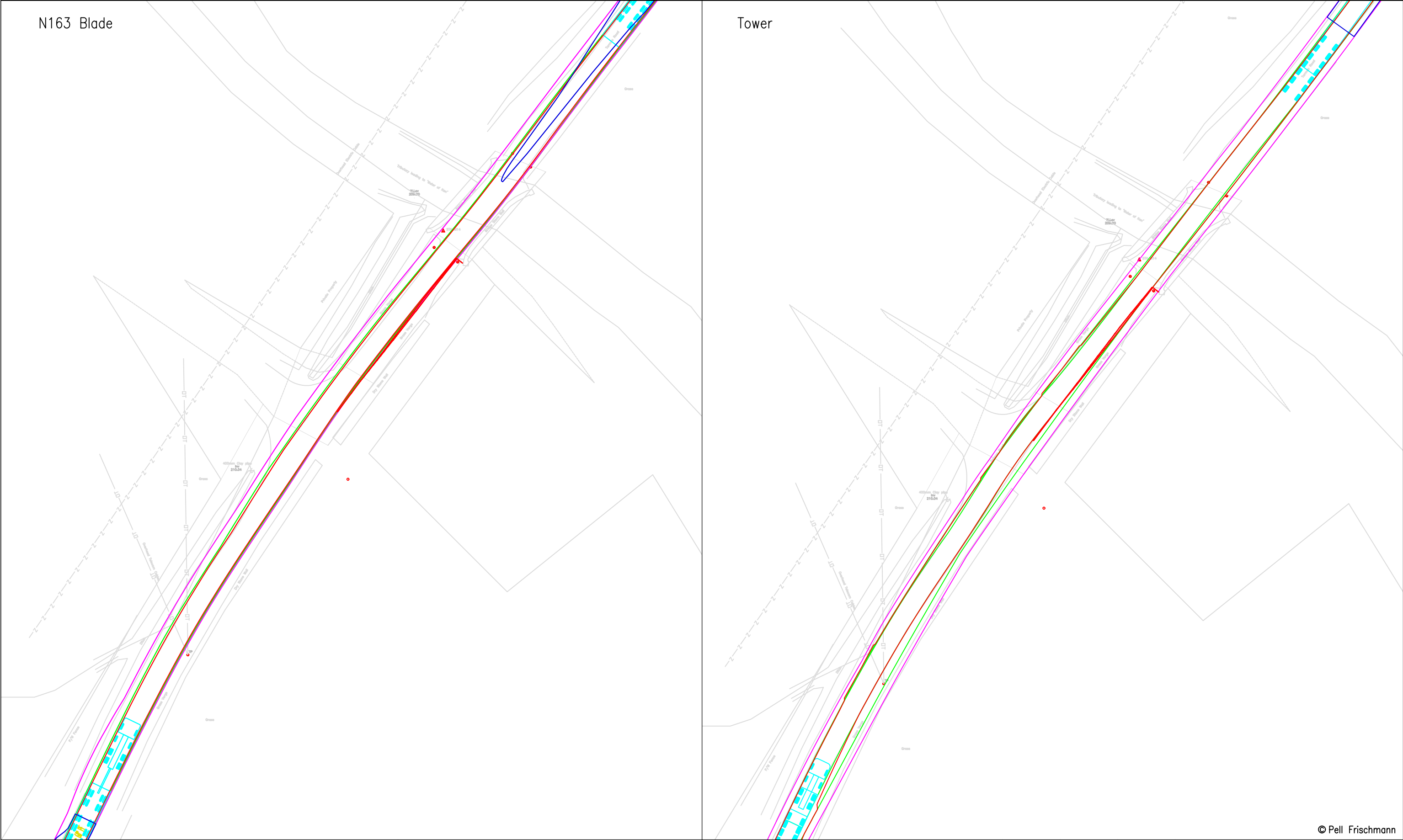
Load bearing surface to be laid. All obstacles to be removed.
Ground clearance over bridge parapet to be confirmed.

Load bearing surface to be laid. All obstacles to be removed.
Ground clearance over bridge parapet to be confirmed.

As built drawings have not been provided and as such indicative road edges have been provided however mitigation may have already been provided.

© Pell Frischmann

<div><div>Pell Frischmann</div><div>93 GEORGE STREET, EDINBURGH, EH2 3ES</div><div>Tel: +44 (0)131 240 1270</div><div>Email: p.fedinburgh@pellfrischmann.com</div><div>www.pellfrischmann.com</div></div>	Project	Appin Wind Farm			Name	Date	Scale		Custom @ A3	
				Drawn	GLJ	15/07/2022	20620 - Appin Tracking [SG155 N163 SG170]_Part2			
				Designed	GLJ	15/07/2022	Final.dwg			
				Checked	GB	15/07/2022	Drawing Status		Draft	
Client	Statkraft		Drawing Title	SG155 / N163 / SG170 Blades & 29.977 x 4.8 x 4.793 Tower			Point of Interest		93	
<div>Key</div> <div><div><div></div>Wheel SPA</div><div><div></div>Body SPA</div><div><div></div>Load SPA</div><div><div></div>Indicative</div><div><div></div>Over-run</div><div><div></div>Over-sail</div></div>			SPA Location	Water of Ken Road Polifferie Burn			Drawing No.		Notes:	
							SK58A		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	
									1	



<div><div>Pell Frischmann</div><div>93 GEORGE STREET, EDINBURGH, EH2 3ES</div><div>Tel: +44 (0)131 240 1270</div><div>Email: pfredinburgh@pellfrischmann.com</div><div>www.pellfrischmann.com</div></div>	Project		Name		Date	Scale		
	Appin Wind Farm		GLJ		15/07/2022	1:500 @ A3		
			GLJ		15/07/2022	200620 - Appin Tracking [SG155 N163 SG170]_Part2		
			GB		15/07/2022	Final.dwg		
Client	Statkraft		Drawing Title		Point of Interest		Drawing Status	
			SG155 / N163 / SG170 Blades & 29.977 x 4.8 x 4.793 Tower		93		Draft	
Key			SPA Location		Drawing No.		Notes:	
			Water of Ken Road Polifferie Burn		SK58B		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		
						1		

Load bearing surface to be laid. All obstacles to be removed. Ground clearance over bridge parapet to be confirmed.

Load bearing surface to be laid. All obstacles to be removed. Ground clearance over bridge parapet to be confirmed.

As built drawings have not been provided and as such indicative road edges have been provided however mitigation may have already been provided.

© Pell Frischmann

<div><div>Pell Frischmann</div><div>93 GEORGE STREET, EDINBURGH, EH2 3ES</div><div>Tel: +44 (0)131 240 1270</div><div>Email: p.fedinburgh@pellfrischmann.com</div><div>www.pellfrischmann.com</div></div>	Project	Appin Wind Farm			Name	Date	Scale		
				Drawn	GLJ	15/07/2022	Custom @ A3		
				Designed	GLJ	15/07/2022	220622 - Appin Tracking [SG155 N163 SG170]_Part2		
				Checked	GB	15/07/2022	Final.dwg		
Client	Drawing Title	SG155 / N163 / SG170 Blades & 29.977 x 4.8 x 4.793 Tower		Point of Interest		93		Drawing Status	
						Draft			
Key	SPA Location	Water of Ken Road Polifferie Burn		Drawing No.	SK58C	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	
								1	

Wheel SPA

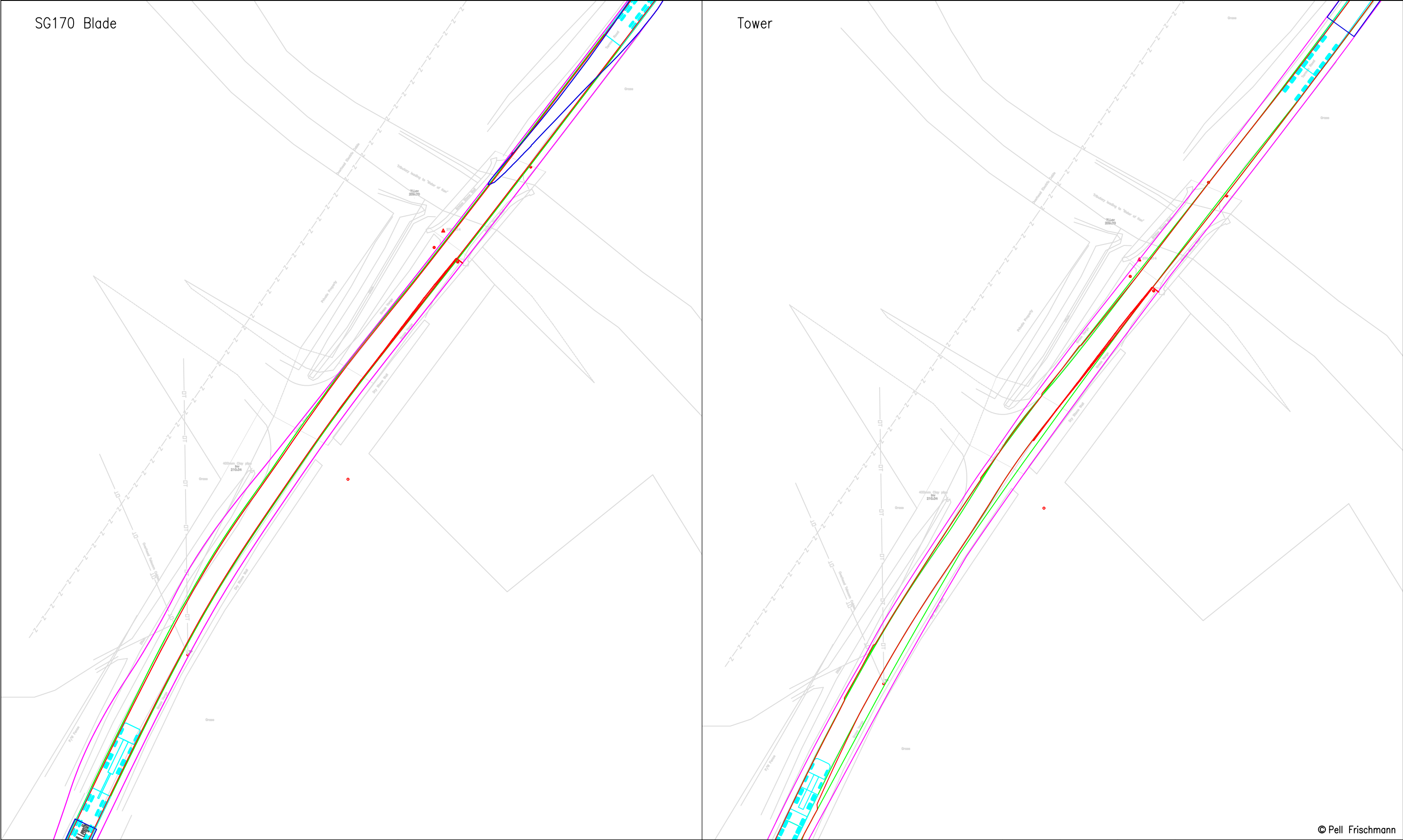
Body SPA

Load SPA

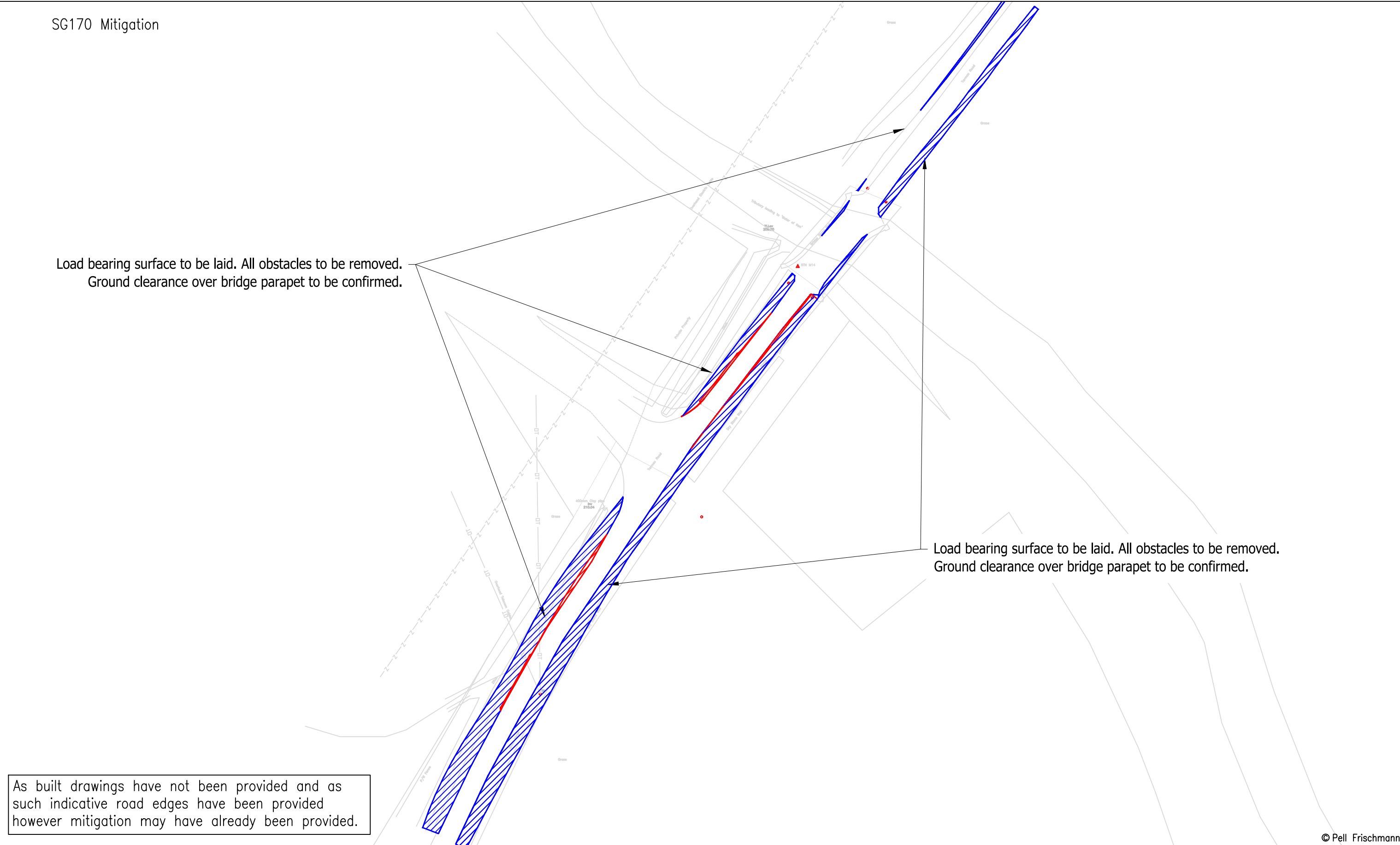
Indicative

Over-run

Over-sail

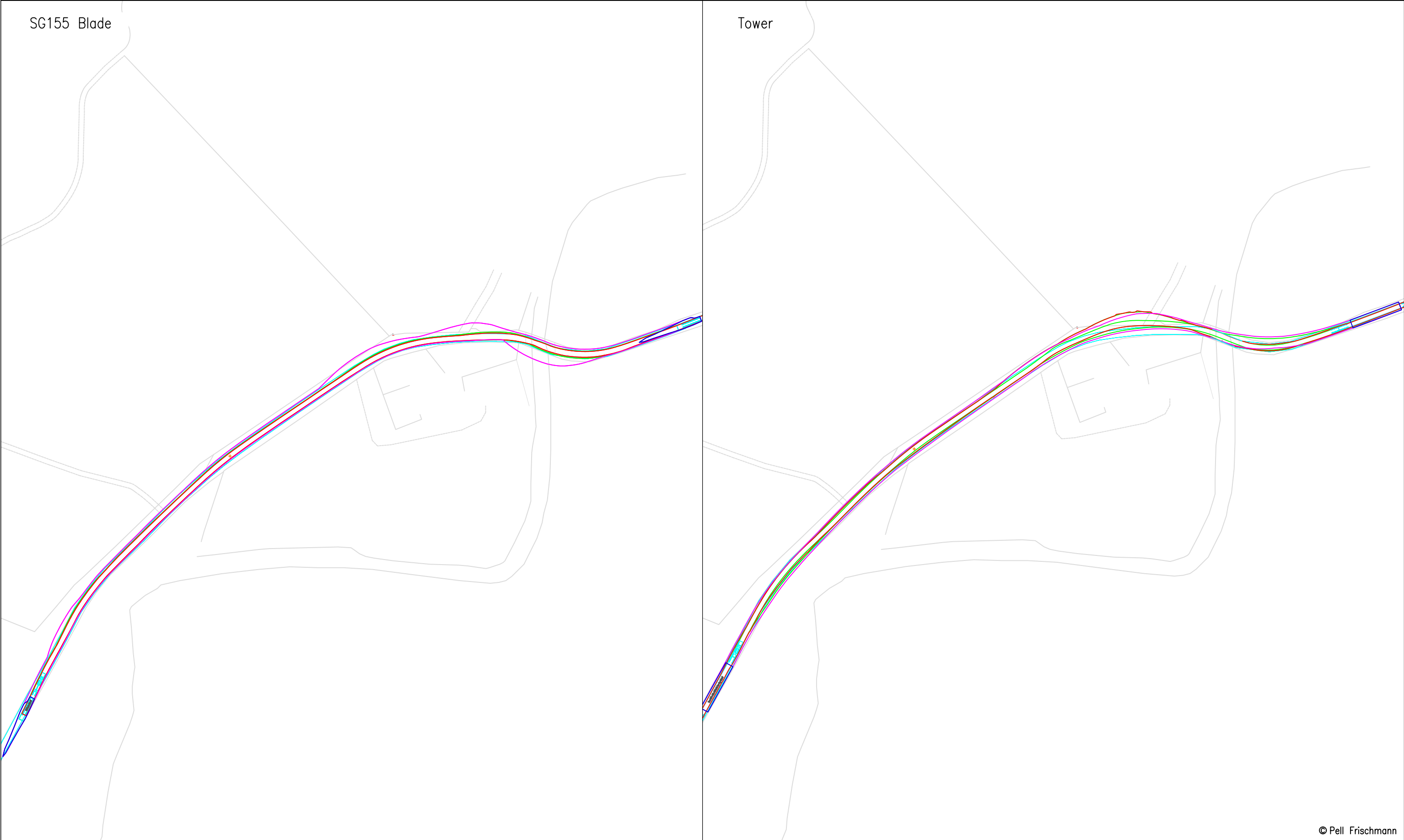


<div><div>Pell Frischmann</div><div>93 GEORGE STREET, EDINBURGH, EH2 3ES</div><div>Tel: +44 (0)131 240 1270</div><div>Email: pfredinburgh@pellfrischmann.com</div><div>www.pellfrischmann.com</div></div>	Project		Appin Wind Farm			Name	Date	Scale		1:500 @ A3		
					Drawn	GLJ	15/07/2022	210622-Appin Tracking [SG155 N163 SG170]_Part2				
					Designed	GLJ	15/07/2022	Final.dwg				
					Checked	GB	15/07/2022	Drawing Status				
Client	Statkraft		Drawing Title		SG155 / N163 / SG170 Blades & 29.977 x 4.8 x 4.793 Tower		Point of Interest		93		Draft	
Key	<div><div></div>Wheel SPA</div> <div><div></div>Body SPA</div> <div><div></div>Load SPA</div> <div><div></div>Indicative</div> <div><div></div>Over-run</div> <div><div></div>Over-sail</div>	SPA Location		Water of Ken Road Polifferie Burn		Drawing No.		Notes:		Revision		
						SK58D		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.		1		



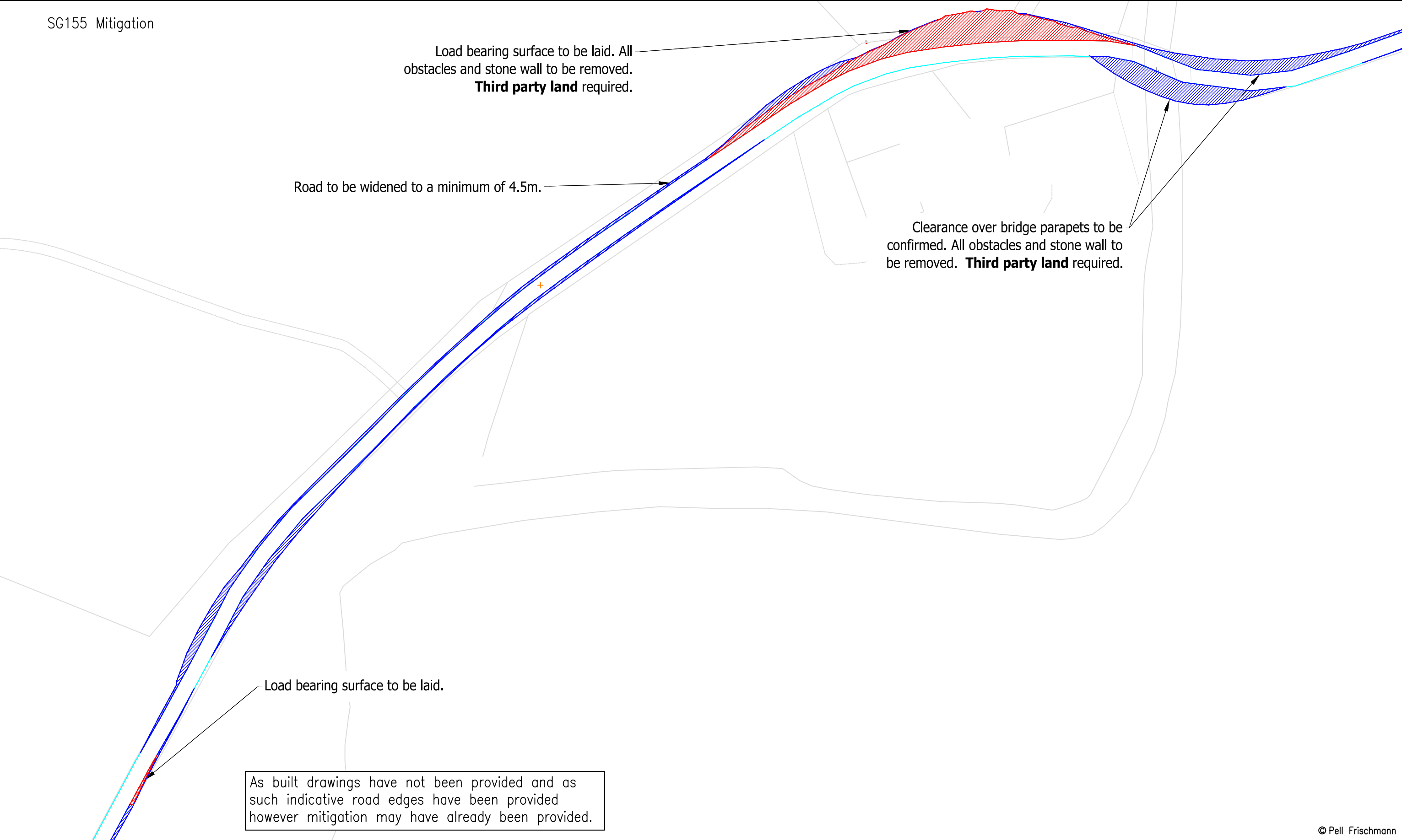
© Pell Frischmann

<div><div>Pell Frischmann</div><div>93 GEORGE STREET, EDINBURGH, EH2 3ES</div><div>Tel: +44 (0)131 240 1270</div><div>Email: p.fedinburgh@pellfrischmann.com</div><div>www.pellfrischmann.com</div></div>	Project		Name		Date	Scale					
	Appin Wind Farm		Drawn	GLJ	15/07/2022	1:500 @ A3					
			Designed	GLJ	15/07/2022	20620 - Appin Tracking [SG155 N163 SG170]_Part2					
			Checked	GB	15/07/2022	Final.dwg					
Client	Statkraft		Drawing Title			Point of Interest		Date	Drawing Status		
			SG155 / N163 / SG170 Blades & 29.977 x 4.8 x 4.793 Tower			93		Draft			
<div>Key</div> <div><div><div></div>Wheel SPA</div><div><div></div>Body SPA</div><div><div></div>Load SPA</div><div><div></div>Indicative</div><div><div></div>Over-run</div><div><div></div>Over-sail</div></div>			SPA Location			Drawing No.		Notes:		Revision	
			Water of Ken Road Polifferie Burn			SK58E		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.		1	



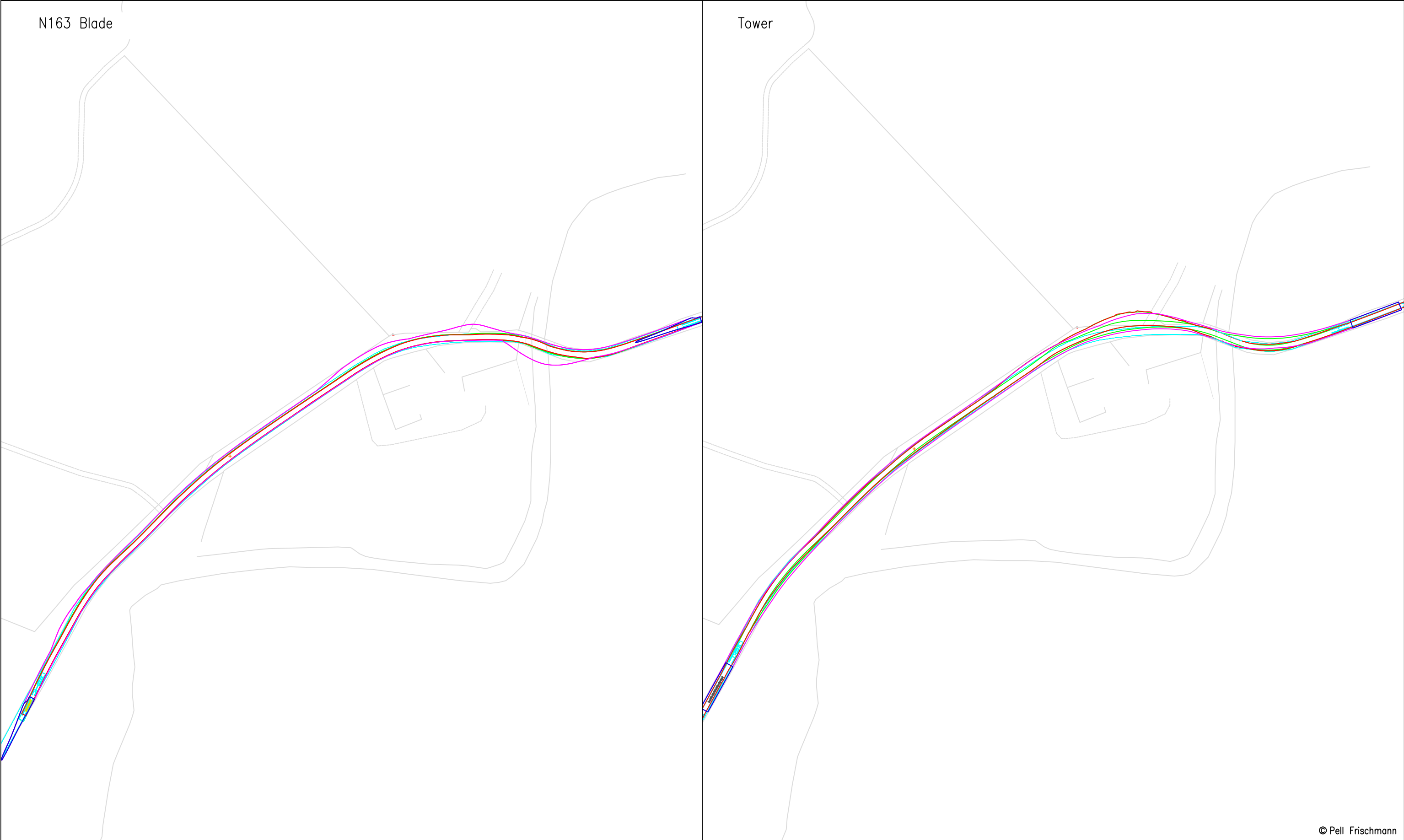
© Pell Frischmann

<div><div>Pell Frischmann</div><div>93 GEORGE STREET, EDINBURGH, EH2 3ES</div><div>Tel: +44 (0)131 240 1270</div><div>Email: pfedinburgh@pellfrischmann.com</div><div>www.pellfrischmann.com</div></div>	Project Appin Wind Farm			Name	Date	Scale 1:2_1 @ A3	
			Drawn	GLJ	15/07/2022	220622 - Appin Tracking [SG155 N163 SG170]_Part2	
			Designed	GLJ	15/07/2022	Final.dwg	
			Checked	GB	15/07/2022	Drawing Status	
Client Statkraft	Drawing Title SG155 / N163 / SG170 Blades & 29.977 x 4.8 x 4.793 Tower		Point of Interest		94	Draft	
			Drawing No. SK59		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.		
Key <div><div></div> Wheel SPA</div> <div><div></div> Body SPA</div> <div><div></div> Load SPA</div> <div><div></div> Indicative</div> <div><div></div> Over-run</div> <div><div></div> Over-sail</div>	SPA Location Water of Ken Road Strahanna Bridge				Revision 1		



© Pell Frischmann

<div><div>Pell Frischmann</div><div>93 GEORGE STREET, EDINBURGH, EH2 3ES</div><div>Tel: +44 (0)131 240 1270</div><div>Email: p.fedinburgh@pellfrischmann.com</div><div>www.pellfrischmann.com</div></div>		Project		Name		Date	Scale	
		Appin Wind Farm		GLJ		15/07/2022	1:1000 @ A3	
		Drawing Title		GLJ		15/07/2022	220622 - Appin Tracking [SG155 N163 SG170]_Part2	
		SPA Location		GB		15/07/2022	Final.dwg	
Client		Statkraft		Point of Interest		94	Drawing Status	
Key		SG155 / N163 / SG170 Blades & 29.977 x 4.8 x 4.793 Tower		Drawing No.		SK59A	Notes:	
Wheel SPA		Water of Ken Road Strahanna Bridge		Revision		1	1. All mitigation is subject to confirmation through a test run.	
Body SPA							2. This is not a construction drawing and is intended for illustration purposes only.	
Load SPA								
Indicative								
Over-run								
Over-sail								



© Pell Frischmann

<div><div>Pell Frischmann</div><div>93 GEORGE STREET, EDINBURGH, EH2 3ES</div><div>Tel: +44 (0) 131 240 1270</div><div>Email: pfedinburgh@pellfrischmann.com</div><div>www.pellfrischmann.com</div></div>	Project Appin Wind Farm			Name	Date	Scale 1:2_1 @ A3	
			Drawn	GLJ	15/07/2022	220622 - Appin Tracking [SG155 N163 SG170]_Part2	
			Designed	GLJ	15/07/2022	Final.dwg	
			Checked	GB	15/07/2022	Drawing Status	
Client Statkraft	Drawing Title SG155 / N163 / SG170 Blades & 29.977 x 4.8 x 4.793 Tower		Point of Interest		94	Draft	
			Drawing No. SK59B		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.		
Key <div><div>Wheel SPA</div><div>Body SPA</div><div>Load SPA</div><div>Indicative</div><div>Over-run</div><div>Over-sail</div></div>	SPA Location Water of Ken Road Strahanna Bridge						Revision 1

Load bearing surface to be laid. All obstacles and stone wall to be removed.
Third party land required.

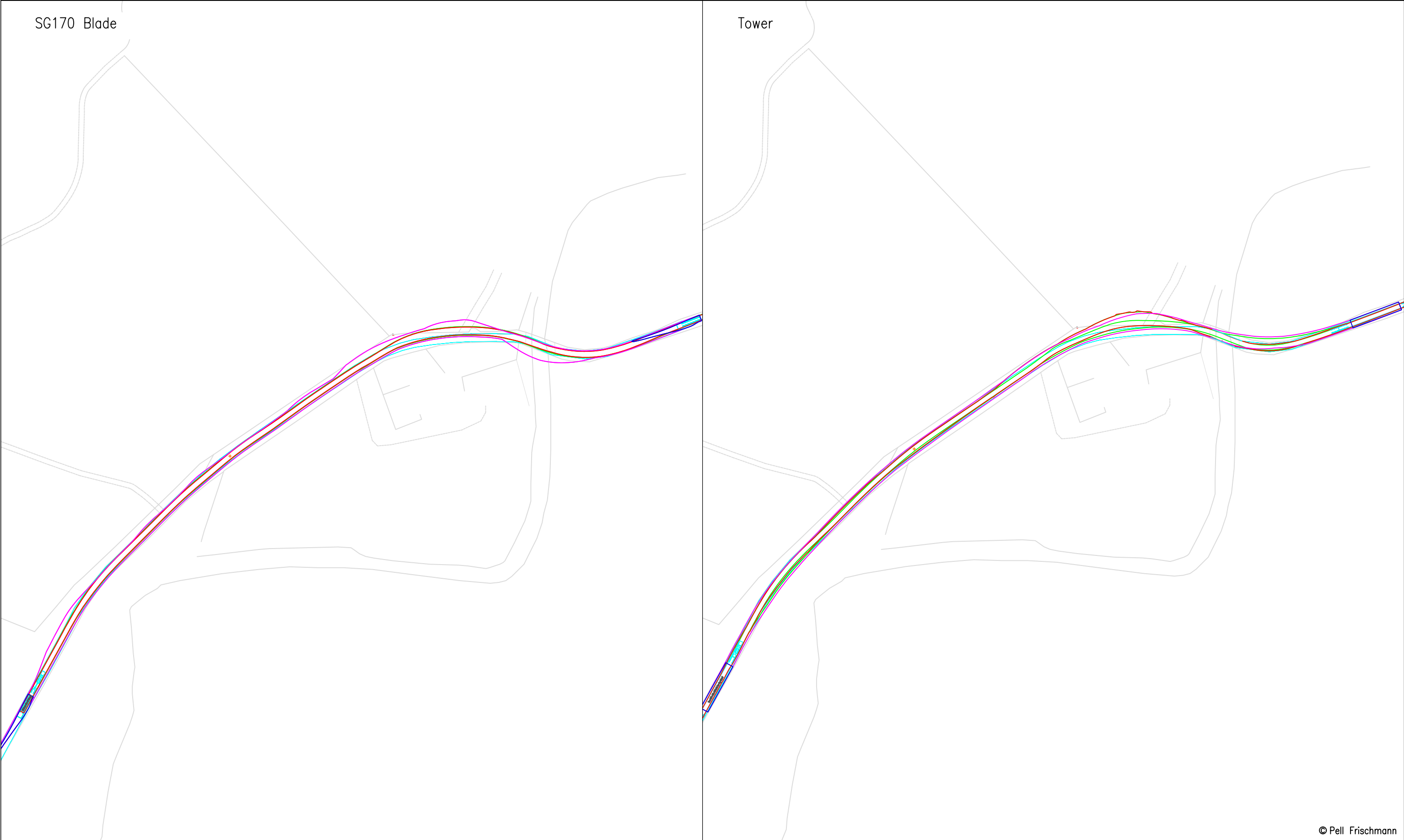
Road to be widened to a minimum of 4.5m.

Clearance over bridge parapets to be confirmed. All obstacles and stone wall to be removed. **Third party land** required.

As built drawings have not been provided and as such indicative road edges have been provided however mitigation may have already been provided.

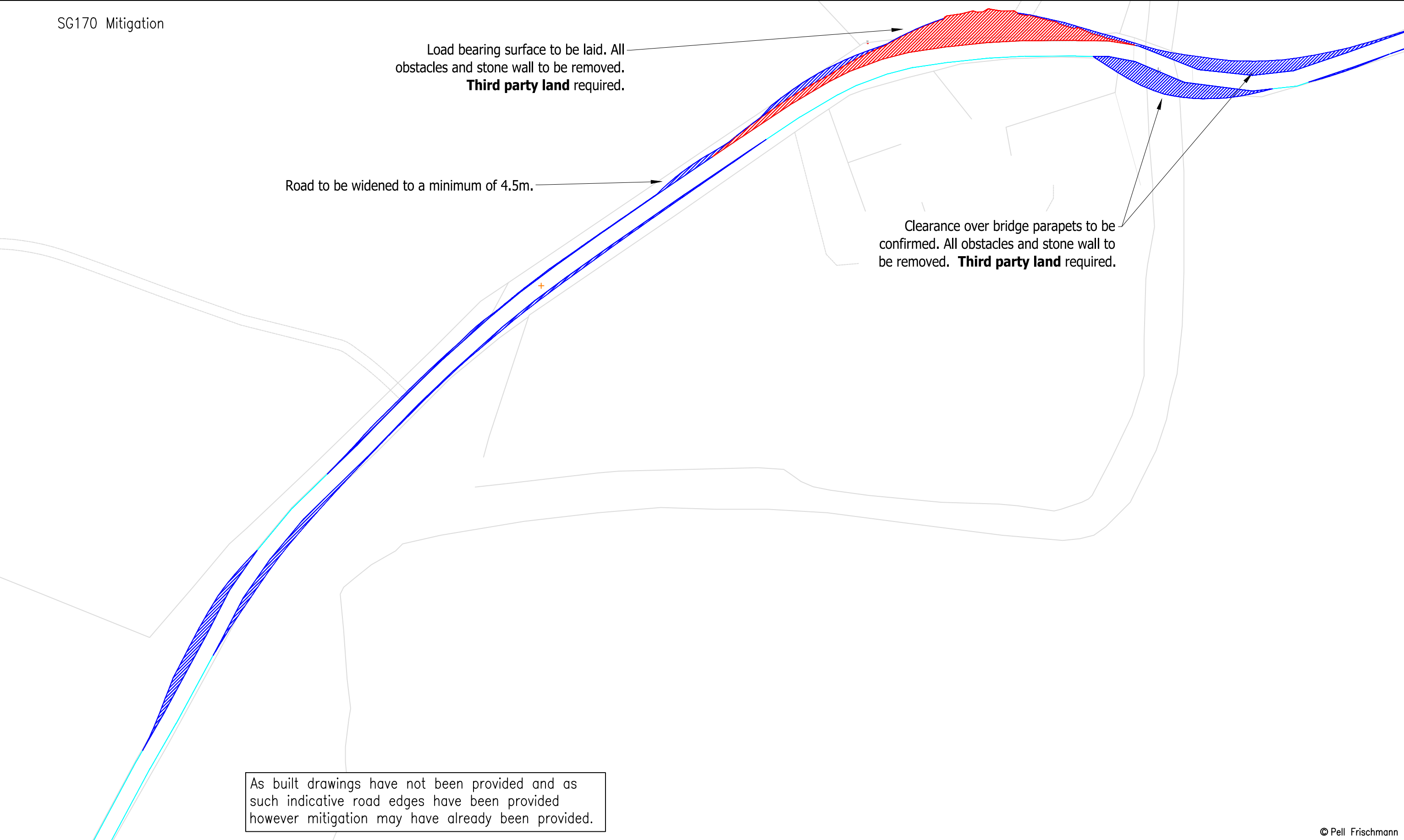
© Pell Frischmann

<div><div>Pell Frischmann</div><div>93 GEORGE STREET, EDINBURGH, EH2 3ES</div><div>Tel: +44 (0)131 240 1270</div><div>Email: pfedinburgh@pellfrischmann.com</div><div>www.pellfrischmann.com</div></div>	Project	Appin Wind Farm		Name	Date	Scale	
			Drawn	GLJ	15/07/2022	1:1000 @ A3	
			Designed	GLJ	15/07/2022	220622 - Appin Tracking [SG155 N163 SG170]_Part2	
			Checked	GB	15/07/2022	Final.dwg	
Client	Statkraft	Drawing Title	SG155 / N163 / SG170 Blades & 29.977 x 4.8 x 4.793 Tower			Drawing Status	
			SPA Location			Draft	
Key	<div><div></div>Wheel SPA</div> <div><div></div>Body SPA</div> <div><div></div>Load SPA</div> <div><div></div>Indicative</div> <div><div></div>Over-run</div> <div><div></div>Over-sail</div>		Drawing No.		Notes:		Revision
			SK59C		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.		1



© Pell Frischmann

<div><div>Pell Frischmann</div><div>93 GEORGE STREET, EDINBURGH, EH2 3ES</div><div>Tel: +44 (0)131 240 1270</div><div>Email: pfedinburgh@pellfrischmann.com</div><div>www.pellfrischmann.com</div></div>	Project	Appin Wind Farm		Name	Date	Scale	
			Drawn	GLJ	15/07/2022	1:2_1 @ A3	
			Designed	GLJ	15/07/2022	220622 - Appin Tracking [SG155 N163 SG170]_Part2	
			Checked	GB	15/07/2022	Final.dwg	
Client	Drawing Title	SG155 / N163 / SG170 Blades & 29.977 x 4.8 x 4.793 Tower	Point of Interest		94	Drawing Status	
						Draft	
Key	SPA Location	Water of Ken Road Strahanna Bridge	Drawing No.	SK59D	Notes:		Revision
					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.		1



© Pell Frischmann

<div><div>Pell Frischmann</div><div>93 GEORGE STREET, EDINBURGH, EH2 3ES</div><div>Tel: +44 (0)131 240 1270</div><div>Email: p.fedinburgh@pellfrischmann.com</div><div>www.pellfrischmann.com</div></div>	Project	Appin Wind Farm			Name	Date	Scale		1:1000 @ A3		
				Drawn	GLJ	15/07/2022	22/06/2022		Appin Tracking [SG155 N163 SG170]_Part2		
				Designed	GLJ	15/07/2022			Final.dwg		
				Checked	GB	15/07/2022	Drawing Status		Draft		
Client	Statkraft	Drawing Title		Point of Interest		94					
		SG155 / N163 / SG170 Blades & 29.977 x 4.8 x 4.793 Tower		Drawing No.		SK59E		Notes:		Revision	
Key		SPA Location						1. All mitigation is subject to confirmation through a test run.		1	
		Water of Ken Road Strahanna Bridge						2. This is not a construction drawing and is intended for illustration purposes only.			
Wheel SPA											
Body SPA											
Load SPA											
Indicative											
Over-run											
Over-sail											

Appendix C ESDAL Correspondence

From: Paul.Winn@transport.gov.scot
Sent: 28 April 2021 16:07
To: Jordan Stirrat
Subject: RE: Appin Wind Farm ESDAL

Hi

We would prefer Ayr to be used for both the blades and towers but if this is not possible we would be OK for KGV to be used.

Regards
Paul

Paul Winn
Network Administrator
Administration Team
Roads Directorate
[transport.gov.scot](mailto:Paul.Winn@transport.gov.scot)

I normally work from Monday to Wednesday

Transport Scotland, Buchanan House, 58 Port Dundas Road, Glasgow, G4 0HF



Transport Scotland, the national transport agency
Còmhdaill Alba, buidheann nàiseanta na còmhdaill

Strike it Out: [preventing bridge strikes](#)

- Plan your route to avoid low bridges www.freightscotland.org/lowbridges or 0800 028 1414

Do not rely upon SAT NAV – it may not hold accurate bridge height information.

Please see our [privacy policy](#) to find out why we collect personal information and how we use it

From: Jordan Stirrat <JStirrat@pellfrischmann.com>
Sent: 28 April 2021 15:57
To: abnormalloadscontact@networkrail.co.uk; rsgbrb@jacobs.com; SCAbnormal.Loads@scottishcanals.co.uk; abloads@ayrshireroadsalliance.org; Winn P (Paul) <Paul.Winn@transport.gov.scot>; esdal@dumgal.gov.uk; OSDAbnormalLoadsScotland@scotland.pnn.police.uk; abnormalloadrouting@scotlandtranserv.co.uk; abnormalloads@glasgow.gov.uk; m8dbfo.abloads@amey.co.uk; M77DBFOAbnormalLoads@balfourbeatty.com
Subject: Appin Wind Farm ESDAL

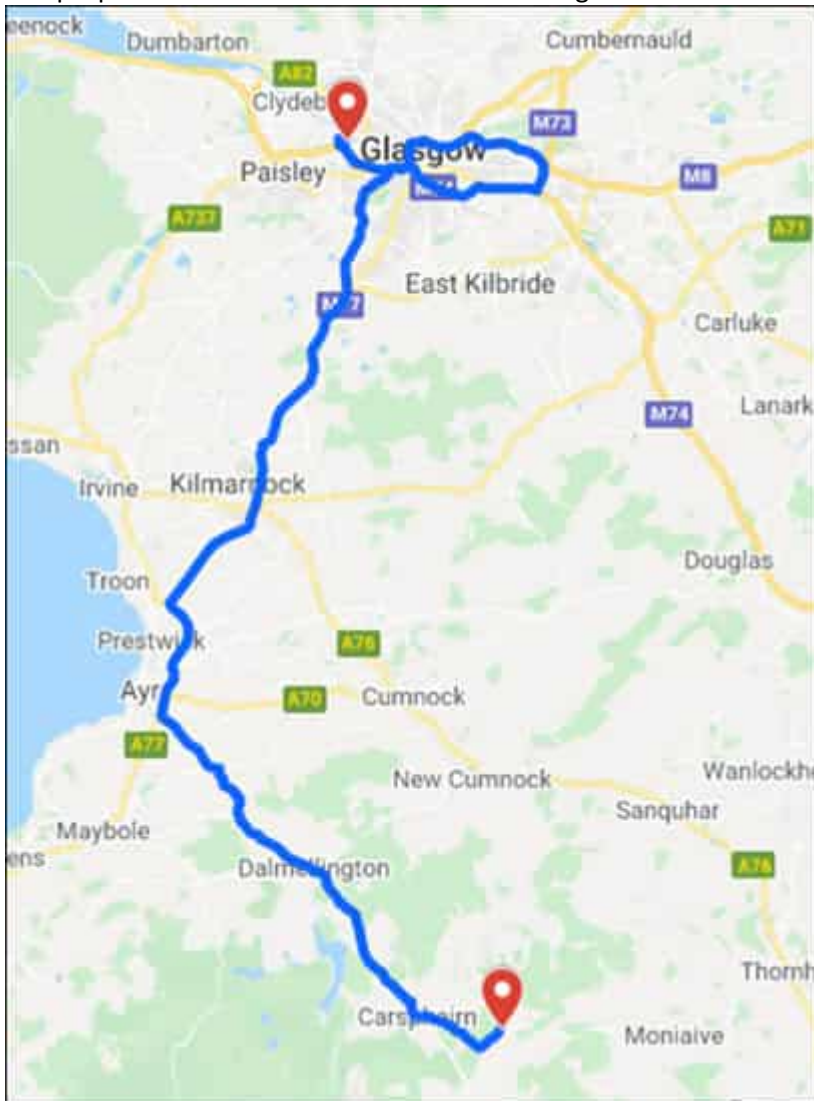
Dear All

We have been commissioned to undertake a route review for the proposed Appin Wind Farm, located to the west of Auchenbrack, Thornhill. The proposed Port of Entry is in Glasgow for blade loads and Ayr for towers.

The proposed access route to site is as follows:

- Loads would depart KGV Dock and travel west on Kings Inch Drive before turning left onto Mayo Avenue;
- Loads would join the eastbound M8 and continue to Junction 8;
- Loads would leave the M8 and join the M73 travelling south;
- At Junction 4, loads would join the westbound M74;
- Loads would depart the M74 at Junction 1 and join the M8 westbound before leaving at Junction 22 and join the M77 travelling southbound;
- Loads would continue southbound on the M77 / A77 until Bankfield Roundabout south of Ayr, where they would turn left onto the A713;
- Loads would proceed southbound on the A713 to the south of Carsphairn, where they would turn left onto the B729; and
- Loads would proceed southeast on the B729. At the junction with the Lorg Forest road, loads would turn north and would continue through to the site access junction.

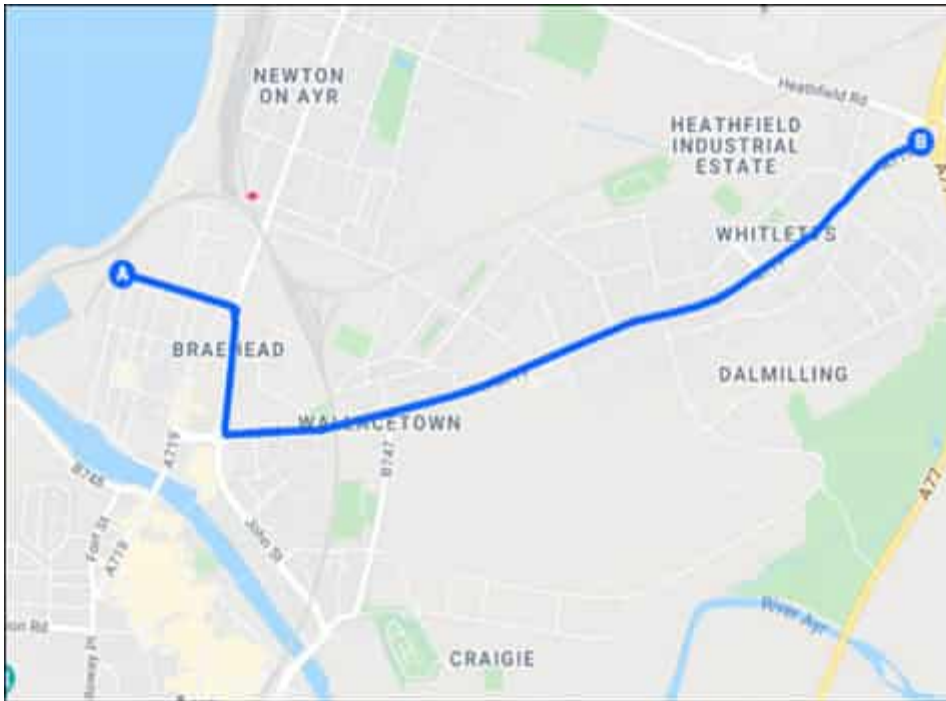
The proposed access route is illustrated in the figure below:



The proposed tower access route is as follows:

- Loads would depart the Port of Ayr and continue east on Waggon Road;
- Loads would turn right onto Allison Street and then left onto Whitletts Road; and
- Loads would continue east on Whitletts Road to Whitletts Roundabout where they would turn right onto the A77 and join the main route.

The proposed tower route is illustrated in the figure below:



The maximum axle load is 12tonnes, with the gross vehicle weight for the heaviest load expected to be in the region of 130tonnes. The maximum height is 4.9m, with the widest load at 4.8m. The longest loads will have a rigid length of 76m. The assessment is at an early stage at present, however I would be grateful if you could confirm if there are any structures along the route that may present a particular issue. A further, more detailed assessment will be undertaken once the turbine haulier and turbine model have been selected by the developer.

Kind regards,
Jordan

Jordan Stirrat
Assistant Engineer
93 George Street
Edinburgh
EH2 3ES

Pell Frischmann
Excellence through innovation

www.pellfrischmann.com

CORONAVIRUS (COVID 19): In order to protect our colleagues, we have temporarily closed our offices until it is confirmed by the government that it is safe to re-open. Further information can be found **HERE**.

This communication is confidential and is intended only for the use of the addressee(s) designated above. If you are not an addressee, you are hereby expressly forbidden to copy, disseminate, distribute or in any other way use this communication. If you have received this communication in error please email us at Administrator@PellFrischmann.com or telephone +44 (0) 2027 486 3661. We reserve any and all possible rights to privilege in respect of this communication. We do not accept service by email. Unless explicitly and conspicuously designated as "E-Contract Intended" and confirmed in subsequent communication with a director of Pell Frischmann that the correspondence is intended to have binding effect, this e-mail together with any attachments or documents referred to herein does not constitute a contract offer, a contract amendment, or an acceptance of a contract offer. Pell Frischmann does not authorise any employee or agent to conclude any binding contract or amend any existing contract on behalf of Pell Frischmann with any other party by email. We accept no liability for communications that are either personal in nature or do not relate to the business of Pell Frischmann. Any file attachments to this communication will have been virus checked prior to transmission, however you should carry out your own virus check before opening. Accordingly we do not accept liability for any damage or loss that may occur from software viruses that may be attached to this communication. Pell Frischmann Registered Office: 5 Manchester Square London W1U 3PD "Pell Frischmann" is the trading name of Pell Frischmann Consulting Engineers Ltd (No. 4403030), Pell Frischmann Consultants Ltd (No. 1777946) and Pell Frischmann Ltd (No. 2750217)

This email has been scanned for email related threats by Mimecast.

[REDACTED]

From: SC Abnormal Loads <SCAbnormal.Loads@scottishcanals.co.uk>
Sent: 29 April 2021 21:17
To: Jordan Stirrat
Subject: RE: Appin Wind Farm ESDAL

Good evening,

No Scottish Canals structures affected.

Thanks,
Brian.

From: Jordan Stirrat <JStirrat@pellfrischmann.com>
Sent: 28 April 2021 15:57
To: abnormalloadscontact@networkrail.co.uk; rsgbrb@jacobs.com; SC Abnormal Loads <SCAbnormal.Loads@scottishcanals.co.uk>; abloads@ayrshireroadsalliance.org; Paul.Winn@transport.gov.scot; esdal@dumgal.gov.uk; OSDAbnormalLoadsScotland@scotland.pnn.police.uk; abnormalloadrouting@scotlandtranserv.co.uk; abnormalloads@glasgow.gov.uk; m8dbfo.abloads@amey.co.uk; M77DBFOAbnormalLoads@balfourbeatty.com
Subject: Appin Wind Farm ESDAL

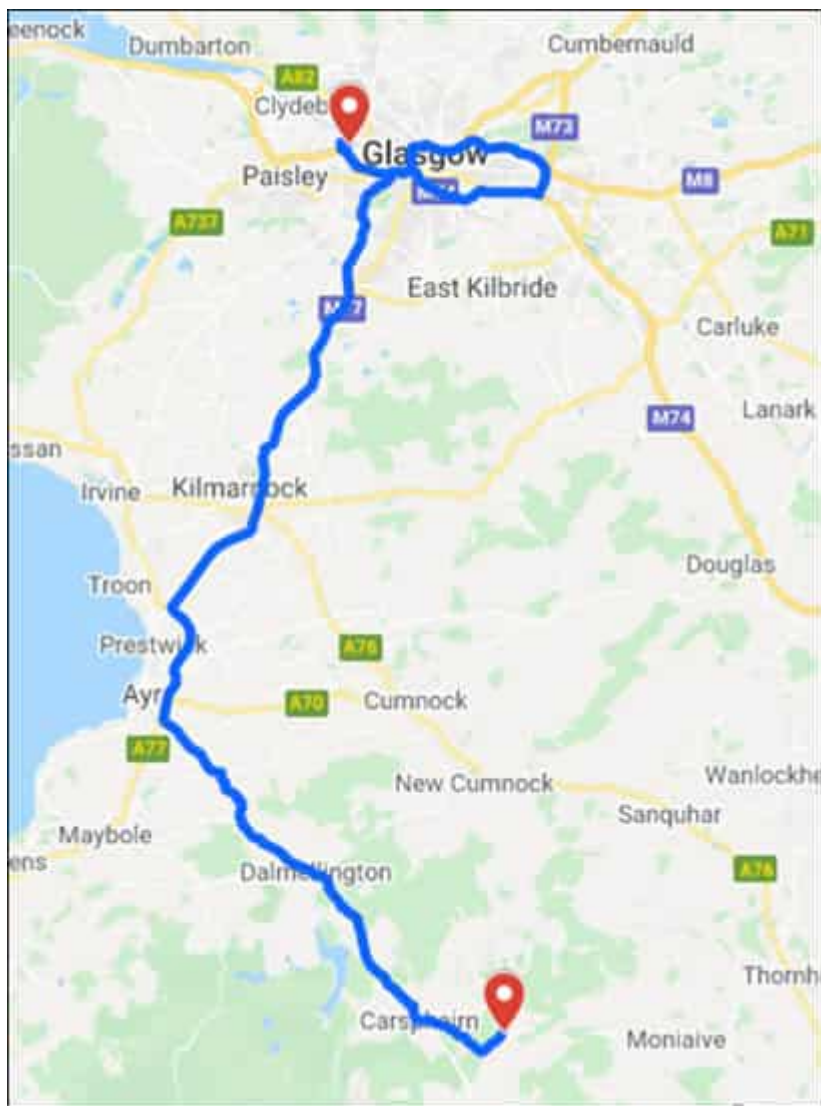
Dear All

We have been commissioned to undertake a route review for the proposed Appin Wind Farm, located to the west of Auchenbrack, Thornhill. The proposed Port of Entry is in Glasgow for blade loads and Ayr for towers.

The proposed access route to site is as follows:

- Loads would depart KGV Dock and travel west on Kings Inch Drive before turning left onto Mayo Avenue;
- Loads would join the eastbound M8 and continue to Junction 8;
- Loads would leave the M8 and join the M73 travelling south;
- At Junction 4, loads would join the westbound M74;
- Loads would depart the M74 at Junction 1 and join the M8 westbound before leaving at Junction 22 and join the M77 travelling southbound;
- Loads would continue southbound on the M77 / A77 until Bankfield Roundabout south of Ayr, where they would turn left onto the A713;
- Loads would proceed southbound on the A713 to the south of Carsphairn, where they would turn left onto the B729; and
- Loads would proceed southeast on the B729. At the junction with the Lorg Forest road, loads would turn north and would continue through to the site access junction.

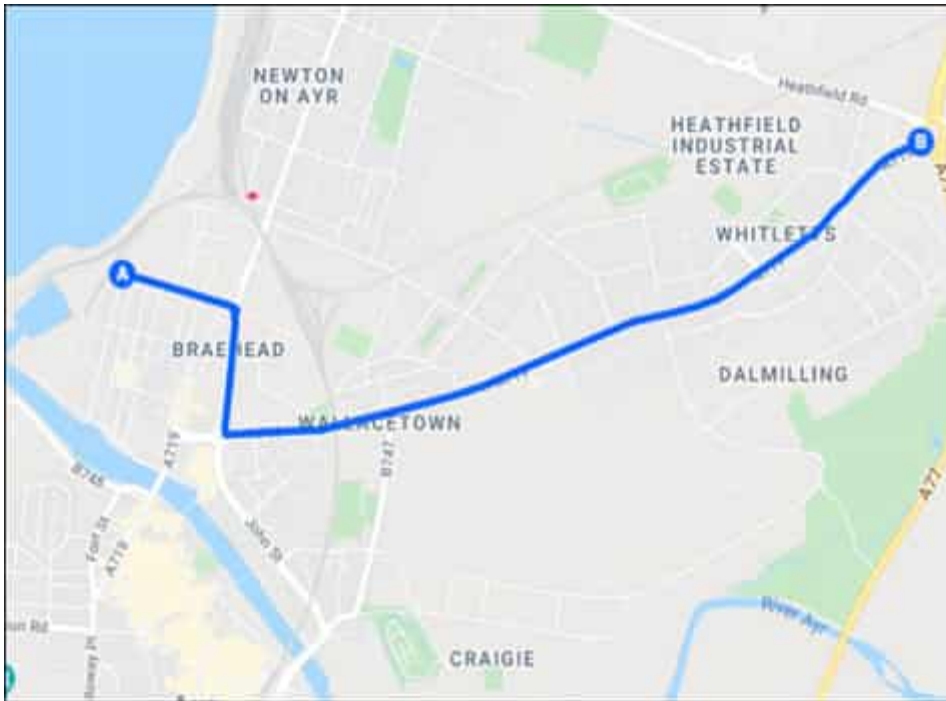
The proposed access route is illustrated in the figure below:



The proposed tower access route is as follows:

- Loads would depart the Port of Ayr and continue east on Waggon Road;
- Loads would turn right onto Allison Street and then left onto Whitletts Road; and
- Loads would continue east on Whitletts Road to Whitletts Roundabout where they would turn right onto the A77 and join the main route.

The proposed tower route is illustrated in the figure below:



The maximum axle load is 12tonnes, with the gross vehicle weight for the heaviest load expected to be in the region of 130tonnes. The maximum height is 4.9m, with the widest load at 4.8m. The longest loads will have a rigid length of 76m. The assessment is at an early stage at present, however I would be grateful if you could confirm if there are any structures along the route that may present a particular issue. A further, more detailed assessment will be undertaken once the turbine haulier and turbine model have been selected by the developer.

Kind regards,
Jordan

Jordan Stirrat
Assistant Engineer
93 George Street
Edinburgh
EH2 3ES

Pell Frischmann
Excellence through innovation

www.pellfrischmann.com

CORONAVIRUS (COVID 19): In order to protect our colleagues, we have temporarily closed our offices until it is confirmed by the government that it is safe to re-open. Further information can be found **HERE**.

This communication is confidential and is intended only for the use of the addressee(s) designated above. If you are not an addressee, you are hereby expressly forbidden to copy, disseminate, distribute or in any other way use this communication. If you have received this communication in error please email us at Administrator@PellFrischmann.com or telephone +44 (0) 0207 486 3661. We reserve any and all possible rights to privilege in respect of this communication. We do not accept service by email. Unless explicitly and conspicuously designated as "E-Contract Intended" and confirmed in subsequent communication with a director of Pell Frischmann that the correspondence is intended to have binding effect, this e-mail together with any attachments or documents referred to herein does not constitute a contract offer, a contract amendment, or an acceptance of a contract offer. Pell Frischmann does not authorise any employee or agent to conclude any binding contract or amend any existing contract on behalf of Pell Frischmann with any other party by email. We accept no liability for communications that are either personal in nature or do not relate to the business of Pell Frischmann. Any file attachments to this communication will have been virus checked prior to transmission, however you should carry out your own virus check before opening. Accordingly we do not accept liability for any damage or loss that may occur from software viruses that may be attached to this communication. Pell Frischmann Registered Office: 5 Manchester Square London W1U 3PD "Pell Frischmann" is the trading name of Pell Frischmann Consulting Engineers Ltd (No. 4403030), Pell Frischmann Consultants Ltd (No. 1777946) and Pell Frischmann Ltd (No. 2750217)

This email has been scanned for email related threats by Mimecast.

From: OSD Abnormal Loads Scotland
<OSDAbnormalLoadsScotland@scotland.pnn.police.uk>
Sent: 29 April 2021 10:05
To: Jordan Stirrat
Subject: RE: Appin Wind Farm ESDAL [OFFICIAL]

OFFICIAL

Good Morning,

In response to your email enquiry dated 28th April 2021, I can provide the following information on behalf of Police Scotland.

When a haulier has been selected for a particular project and they have been furnished with precise dimensions of the load to be transported by road, thereafter as part of the planning process a detailed route survey is produced by the haulier identifying all potential issues often referred to as “pinch points” along the entire proposed route. The route is then examined and commented upon by Transport Scotland /Transerv and the relevant Local Council amongst other partners.

Police Scotland consider the proposed route primarily from a road safety perspective .If due to the abnormal dimensions it is apparent other road users will be required to be directed to stop along the route by police in order to safely facilitate the movement or encroachment into an opposing undivided carriageway will occur, then police officers will be deployed to warn other road users of the presence of the abnormal load. The timings of the movements are dependent on many factors dependant on the route and Transport Scotland may place restrictions on travel during peak times to ensure journey time reliability along their trunk road network.

In general terms the movement of Abnormal Indivisible Loads (A.I.L) along most if not all routes in more rural areas, from my experience has an impact on the infrastructure of the general area and local community although Police Scotland are not best placed to comment in detail on this subject. Examples of this from previous projects could include, delays to freight traffic travelling to or from ferry ports, delays experienced by bus services including tourist bus tours operated in the area (Invergordon Port being a cruise ship port), delays to teachers and or pupils attending for scheduled school start times and delays to staff and the public attending hospital or medical appointments.

Regards

Frankie Anderson
Business Support Administrator
Vehicle Recovery & Abnormal Loads
Police Scotland
Fife Divisional HQ
Detroit Road
Glenrothes
Fife
KY6 2RJ

(not monitored 24/7 if no response call 101 or send email)

Email: OSDAbnormalLoadsScotland@scotland.pnn.police.uk

Website: <http://www.scotland.police.uk/>

Twitter: @policescotland

Facebook: www.facebook.com/policescotland

It is the responsibility of the Haulier to check for any roadworks that affect your route as there may be planned or emergency works

A7 Hawick. Due to ongoing repairs and investigations on the A7 at Hawick, this route is not suitable to any Abnormal Load of 3.2m or wider. There are no holding points suitable within the vicinity and Hauliers are to review their route and avoid this section of the journey. Works are currently due to be completed 16 Apr 2021.

*****A83 – Rest and be Thankful & OMR (Old Military Road) Diversion.** Due to ongoing repairs and investigations on the A83 at the Rest and be Thankful, this route is not suitable to any Abnormal Load of 2.9m or wider. Hauliers are to review their route and avoid this section of the journey. ***

A9 Luncarty to Birnam – A 3m width restriction is in place through the roadworks from 5 Feb 19 until further notice. All abnormal Loads that exceed 3m are to pull into the designated wide load holding bays and are to contact 07525 838 026, to await to be escorted through the roadworks by the Traffic Management Team. Any Haulier not adhering to this notice could be committing a Road Traffic Offence and could be reported to the Procurator Fiscal and Traffic Commissioner.

From: Jordan Stirrat [mailto:JStirrat@pellfrischmann.com]

Sent: 28 April 2021 15:57

To: abnormalloadscontact@networkrail.co.uk; rsgbrb@jacobs.com; SCAbnormal.Loads@scottishcanals.co.uk; abloads@ayrshireroadsalliance.org; Paul.Winn@transport.gov.scot; esdal@dumgal.gov.uk; OSD Abnormal Loads Scotland; abnormalloadrouting@scotlandtranserv.co.uk; abnormalloads@glasgow.gov.uk; m8dbfo.abloads@amey.co.uk; M77DBFOAbnormalLoads@balfourbeatty.com

Subject: Appin Wind Farm ESDAL

Dear All

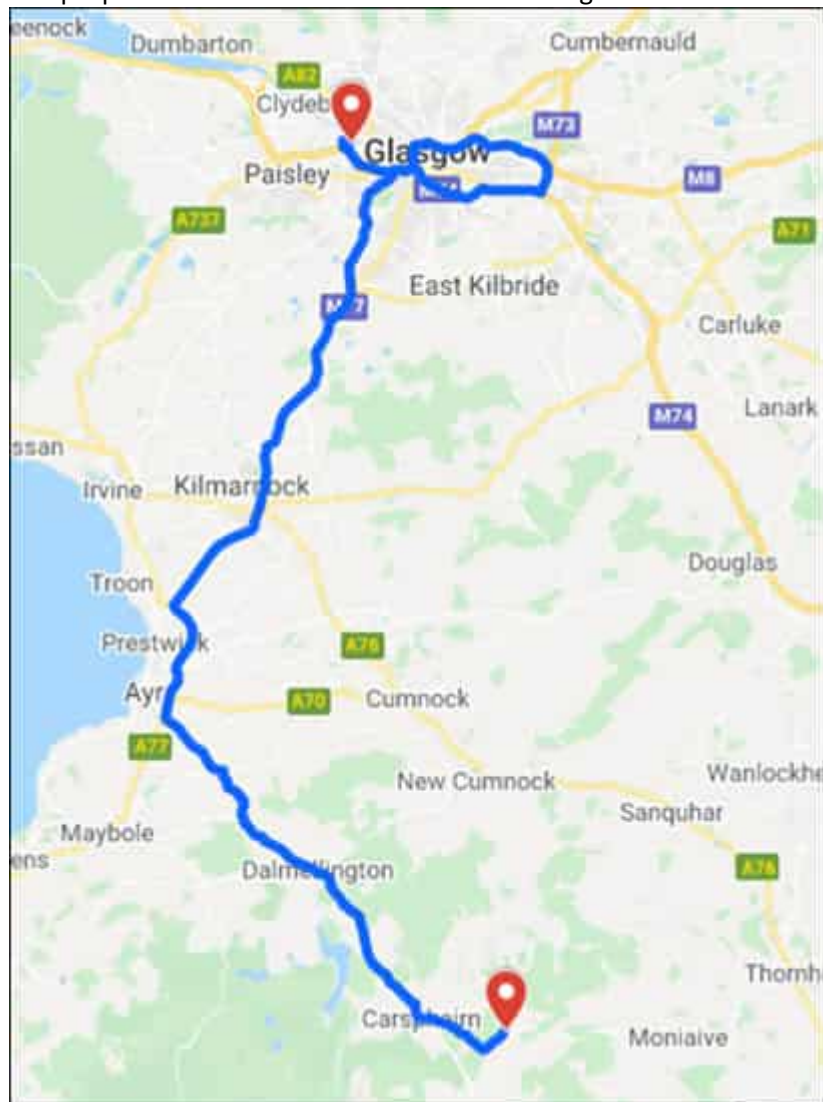
We have been commissioned to undertake a route review for the proposed Appin Wind Farm, located to the west of Auchenbrack, Thornhill. The proposed Port of Entry is in Glasgow for blade loads and Ayr for towers.

The proposed access route to site is as follows:

- Loads would depart KGV Dock and travel west on Kings Inch Drive before turning left onto Mayo Avenue;
- Loads would join the eastbound M8 and continue to Junction 8;
- Loads would leave the M8 and join the M73 travelling south;
- At Junction 4, loads would join the westbound M74;
- Loads would depart the M74 at Junction 1 and join the M8 westbound before leaving at Junction 22 and join the M77 travelling southbound;
- Loads would continue southbound on the M77 / A77 until Bankfield Roundabout south of Ayr, where they would turn left onto the A713;

- Loads would proceed southbound on the A713 to the south of Carsphairn, where they would turn left onto the B729; and
- Loads would proceed southeast on the B729. At the junction with the Lorg Forest road, loads would turn north and would continue through to the site access junction.

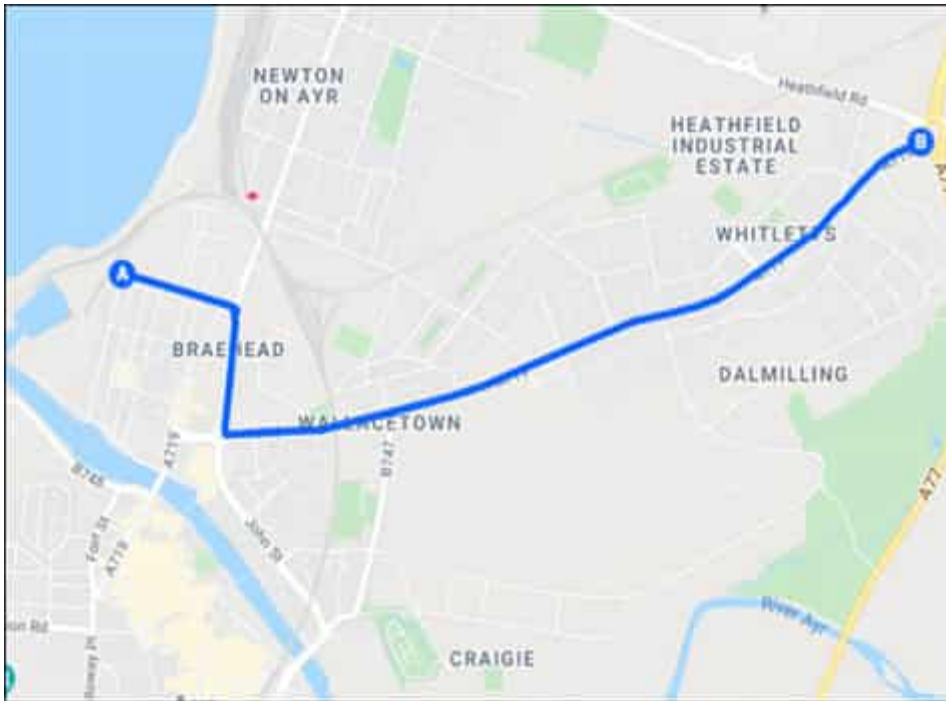
The proposed access route is illustrated in the figure below:



The proposed tower access route is as follows:

- Loads would depart the Port of Ayr and continue east on Waggon Road;
- Loads would turn right onto Allison Street and then left onto Whitletts Road; and
- Loads would continue east on Whitletts Road to Whitletts Roundabout where they would turn right onto the A77 and join the main route.

The proposed tower route is illustrated in the figure below:



The maximum axle load is 12tonnes, with the gross vehicle weight for the heaviest load expected to be in the region of 130tonnes. The maximum height is 4.9m, with the widest load at 4.8m. The longest loads will have a rigid length of 76m. The assessment is at an early stage at present, however I would be grateful if you could confirm if there are any structures along the route that may present a particular issue. A further, more detailed assessment will be undertaken once the turbine haulier and turbine model have been selected by the developer.

Kind regards,
Jordan

Jordan Stirrat
Assistant Engineer
93 George Street
Edinburgh
EH2 3ES

Pell Frischmann
Excellence through innovation

www.pellfrischmann.com

CORONAVIRUS (COVID 19): In order to protect our colleagues, we have temporarily closed our offices until it is confirmed by the government that it is safe to re-open. Further information can be found **HERE**.

This communication is confidential and is intended only for the use of the addressee(s) designated above. If you are not an addressee, you are hereby expressly forbidden to copy, disseminate, distribute or in any other way use this communication. If you have received this communication in error please email us at Administrator@PellFrischmann.com or telephone +44 (0) 2027 486 3661. We reserve any and all possible rights to privilege in respect of this communication. We do not accept service by email. Unless explicitly and conspicuously designated as "E-Contract Intended" and confirmed in subsequent communication with a director of Pell Frischmann that the correspondence is intended to have binding effect, this e-mail together with any attachments or documents referred to herein does not constitute a contract offer, a contract amendment, or an acceptance of a contract offer. Pell Frischmann does not authorise any employee or agent to conclude any binding contract or amend any existing contract on behalf of Pell Frischmann with any other party by email. We accept no liability for communications that are either personal in nature or do not relate to the business of Pell Frischmann. Any file attachments to this communication will have been virus checked prior to transmission, however you should carry out your own virus check before opening. Accordingly we do not accept liability for any damage or loss that may occur from software viruses that may be attached to this communication. Pell Frischmann Registered Office: 5 Manchester Square London W1U 3PD "Pell Frischmann" is the trading name of Pell Frischmann Consulting Engineers Ltd (No. 4403030), Pell Frischmann Consultants Ltd (No. 1777946) and Pell Frischmann Ltd (No. 2750217)

This email has been scanned for email related threats by Mimecast.

From: M8DBFO Abloads <M8DBFOAbloads@amey.co.uk>
Sent: 23 July 2021 15:01
To: Tim Lockett
Cc: M8DBFO Abloads
Subject: RE: Potential Impact on Infrastructure - Appin

Importance: High

Commenting on behalf of Scottish Roads Partnership which is responsible for only the following section of the route.

M8 J10 to J8, M73 J2 to J1 and M74 J4 to J3A

There are no issues with your proposed movements on this part of the route.

Regards

Iain Franklin BSc. Hons C.Eng. MICE MCIHT
Principal Engineer | Structures | Amey Consulting

[Redacted] | e: iain.franklin@amey.co.uk
Amey | Precision house | McNeil Drive | Motherwell | ML1 4UR

ameyconsulting

Personal pride in our public service | **EMPOWER** | **ENGAGE** | **EXCEL**



From: Tim Lockett <TLockett@pellfrischmann.com>

Sent: 23 July 2021 14:52

To: abnormalloadscontact@networkrail.co.uk; rsgbrb@jacobs.com; SCAbnormal.Loads@scottishcanals.co.uk; abloads@ayrshireroadsalliance.org; paul.winn@transport.gov.scot; esdal@dumgal.gov.uk; OSDAbnormalLoadsScotland@scotland.pnn.police.uk; abnormalloadrouting@scotlandtranserv.co.uk; abnormalloads@glasgow.gov.uk; M8DBFO Abloads <M8DBFOAbloads@amey.co.uk>; M77DBFOAbnormalLoads@balfourbeatty.com

Subject: Potential Impact on Infrastructure - Appin

CAUTION: This email originated from outside of the organisation. Do not click links or open attachments unless you recognise the sender and know the content is safe.

Dear Sir / Madam

We have been commissioned to undertake a route review for a proposed wind farm site located to the west of Auchenbrack, Thornhill.

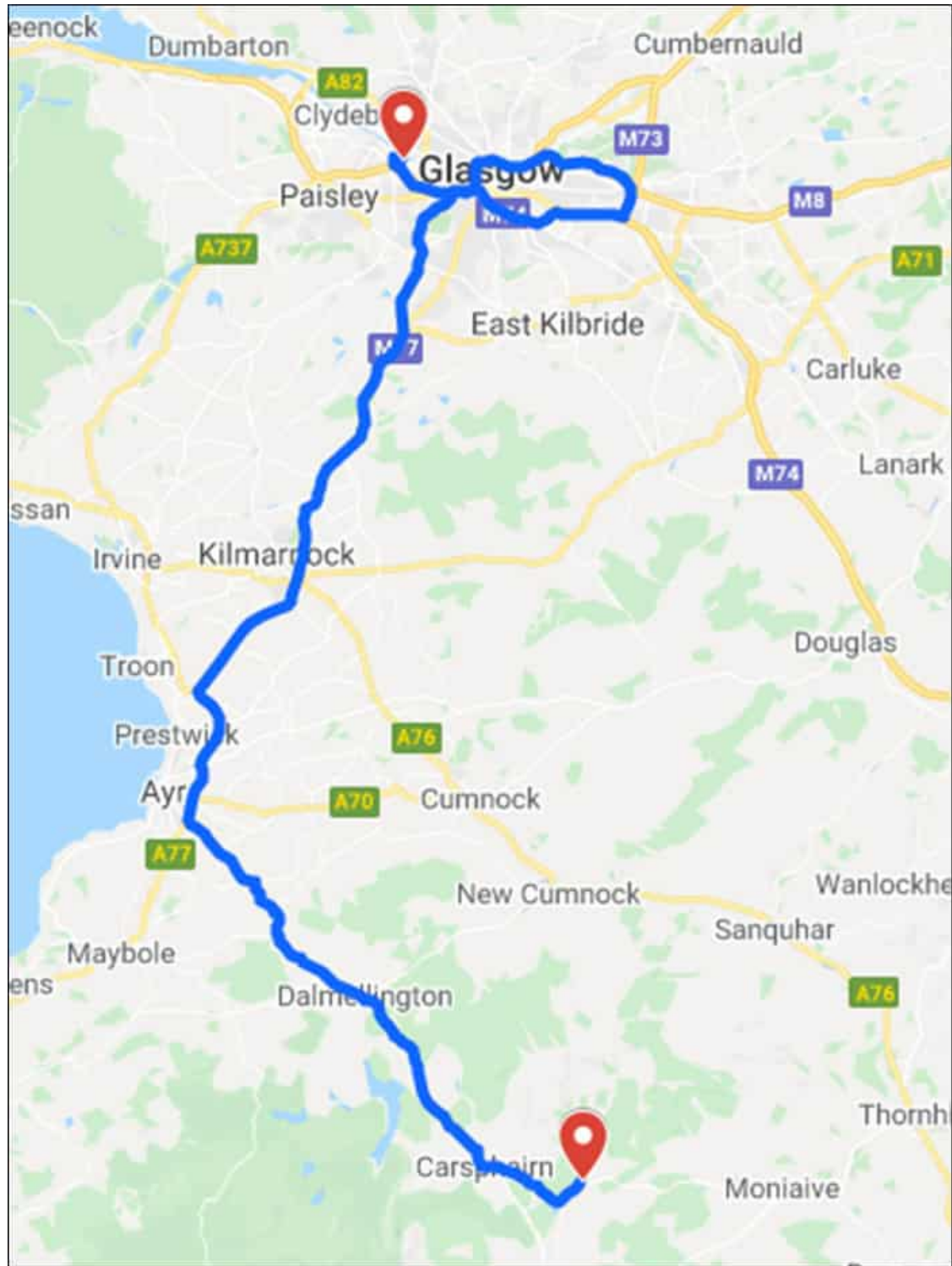
The proposed blade access route to site is as follows:

- Loads would depart KGV Dock and travel west on Kings Inch Drive before turning left onto Mayo Avenue;

- Loads would join the eastbound M8 and continue to Junction 8;
- Loads would leave the M8 and join the M73 travelling south;
- At Junction 4, loads would join the westbound M74;
- Loads would depart the M74 at Junction 1 and join the M8 westbound before leaving at Junction 22 and join the M77 travelling southbound;
- Loads would continue southbound on the M77 / A77 until Bankfield Roundabout south of Ayr, where they would turn left onto the A713;
- Loads would proceed southbound on the A713 to the south of Carsphairn, where they would turn left onto the B729; and
- Loads would proceed southeast on the B729. At the junction with the Lorg Forest road, loads would turn north and would continue through to the site access junction.

The proposed access route is illustrated in Figure 4.

Figure 4: Proposed Access Route



The proposed tower access route is as follows;

- Loads would depart the Port of Ayr and continue east on Waggon Road;
- Loads would turn right onto Allison Street and then left onto Whitletts Road; and
- Loads would continue east on Whitletts Road to Whitletts Roundabout where they would turn right onto the A77 and join the main route.

The proposed access route is illustrated in Figure 5.

Figure 5: Proposed Tower Access Route



The maximum axle load is 12tonnes, with the gross vehicle weight for the heaviest load expected to be in the region of 140 tonnes. The maximum height is 4.9m, with the widest load at 4.8m. The longest loads will have a rigid length of 76m. The assessment is at an early stage at present, however I would be grateful if you could confirm if there are any structures along the route that may present a particular issue. A further, more detailed assessment will be undertaken once the turbine haulier and turbine model have been selected by the developer.

Kind regards,

Tim

Timothy Lockett

Principal Transport Consultant

93 George Street

Edinburgh

EH2 3ES

Pell Frischmann
Excellence through innovation



www.pellfrischmann.com

This communication is confidential and is intended only for the use of the addressee(s) designated above. If you are not an addressee, you are hereby expressly forbidden to copy, disseminate, distribute or in any other way use this communication. If you have received this communication in error please email us at Administrator@PellFrischmann.com or telephone +44 (0) 0207 486 3661. We reserve any and all possible rights to privilege in respect of this communication. We do not accept service by email. Unless explicitly and conspicuously designated as "E-Contract Intended" and confirmed in subsequent communication with a director of Pell Frischmann that the correspondence is intended to have binding effect, this e-mail together with any attachments or documents referred to herein does not constitute a contract offer, a contract amendment, or an acceptance of a contract offer. Pell Frischmann does not authorise any employee or agent to conclude any binding contract or amend any existing contract on behalf of Pell Frischmann with any other party by email. We accept no liability for communications that are either personal in nature or do not relate to the business of Pell Frischmann. Any file attachments to this communication will have been virus checked prior to transmission, however you should carry out your own virus check before opening. Accordingly we do not accept liability for any damage or loss that may occur from software viruses that may be attached to this communication. Pell Frischmann Registered Office: 5 Manchester Square London W1U 3PD "Pell Frischmann" is the trading name of Pell Frischmann Consulting Engineers Ltd (No. 4403030), Pell Frischmann Consultants Ltd (No. 1777946) and Pell Frischmann Ltd (No. 2750217)

From: M8DBFO Abloads <M8DBFOAbloads@amey.co.uk>
Sent: 28 April 2021 17:02
To: Jordan Stirrat
Cc: M8DBFO Abloads
Subject: RE: Appin Wind Farm ESDAL

Importance: High

On behalf of Scottish Roads Partnership

We have no issues with your proposed route in our area which comprises of;
M8 J10 to J8
M73 J2 to J1
M74 J4 to J3A

Regards

Iain Franklin

Principal Project Manager | M8 DBFO | Transport Infrastructure

[REDACTED] | e: iain.franklin@amey.co.uk
Amey | Bargeddie Office | Langmuir Road | Bargeddie | G69 7TU



Personal pride in our public service
EMPOWER | ENGAGE | EXCEL

From: Jordan Stirrat <JStirrat@pellfrischmann.com>
Sent: 28 April 2021 15:57
To: abnormalloadscontact@networkrail.co.uk; rsgbrb@jacobs.com; SCAbnormal.Loads@scottishcanals.co.uk; abloads@ayrshireroadsalliance.org; Paul.Winn@transport.gov.scot; esdal@dumgal.gov.uk; OSDAbnormalLoadsScotland@scotland.pnn.police.uk; abnormalloadrouting@scotlandtranserv.co.uk; abnormalloads@glasgow.gov.uk; M8DBFO Abloads <M8DBFOAbloads@amey.co.uk>; M77DBFOAbnormalLoads@balfourbeatty.com
Subject: Appin Wind Farm ESDAL

CAUTION: This email originated from outside of the organisation. Do not click links or open attachments unless you recognise the sender and know the content is safe.

Dear All

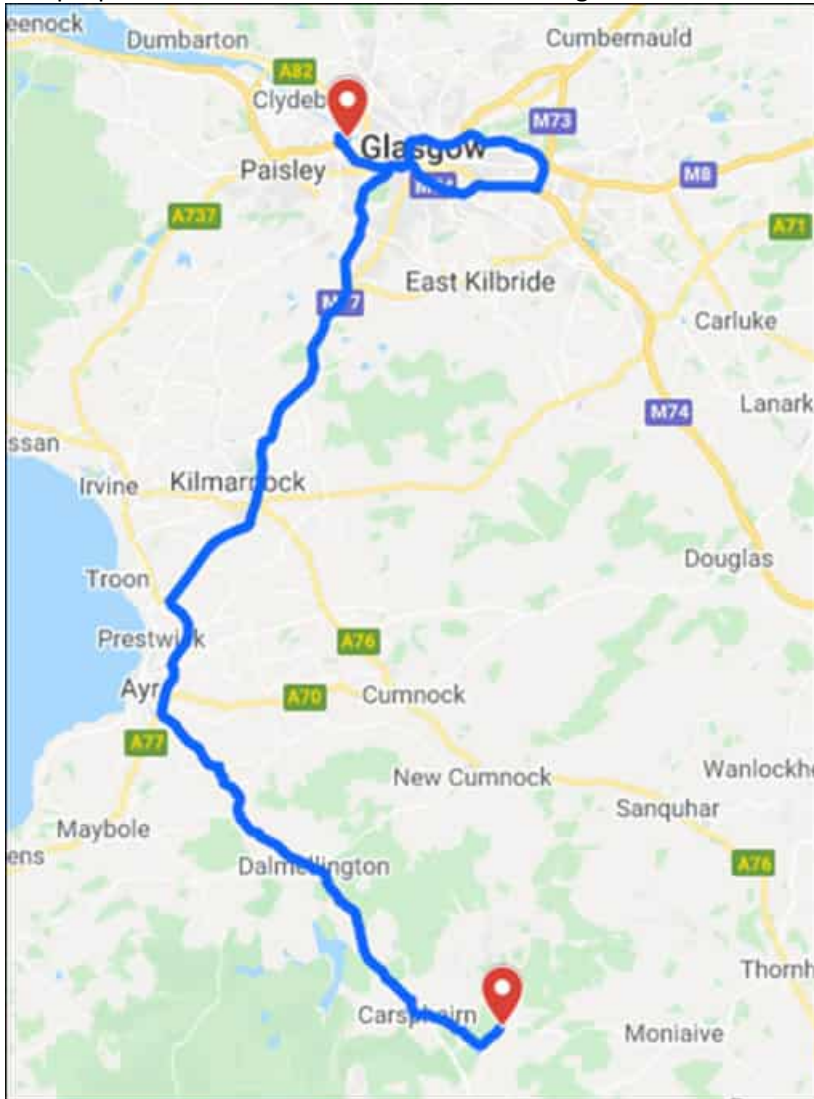
We have been commissioned to undertake a route review for the proposed Appin Wind Farm, located to the west of Auchenbrack, Thornhill. The proposed Port of Entry is in Glasgow for blade loads and Ayr for towers.

The proposed access route to site is as follows:

- Loads would depart KGV Dock and travel west on Kings Inch Drive before turning left onto Mayo Avenue;
- Loads would join the eastbound M8 and continue to Junction 8;
- Loads would leave the M8 and join the M73 travelling south;
- At Junction 4, loads would join the westbound M74;
- Loads would depart the M74 at Junction 1 and join the M8 westbound before leaving at Junction 22 and join the M77 travelling southbound;

- Loads would continue southbound on the M77 / A77 until Bankfield Roundabout south of Ayr, where they would turn left onto the A713;
- Loads would proceed southbound on the A713 to the south of Carsphairn, where they would turn left onto the B729; and
- Loads would proceed southeast on the B729. At the junction with the Lorg Forest road, loads would turn north and would continue through to the site access junction.

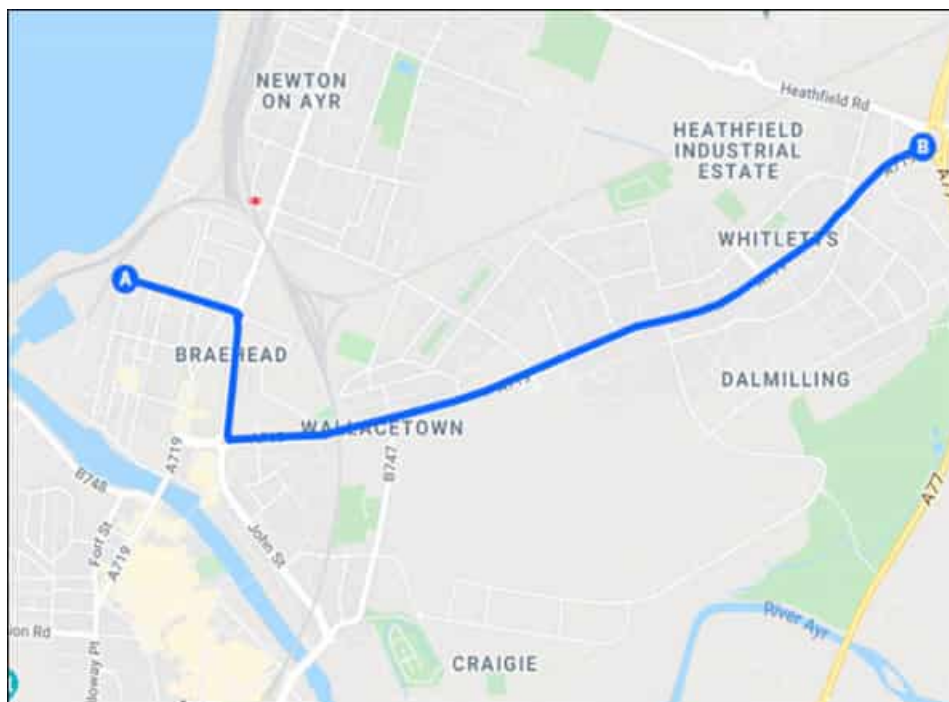
The proposed access route is illustrated in the figure below:



The proposed tower access route is as follows:

- Loads would depart the Port of Ayr and continue east on Waggon Road;
- Loads would turn right onto Allison Street and then left onto Whitletts Road; and
- Loads would continue east on Whitletts Road to Whitletts Roundabout where they would turn right onto the A77 and join the main route.

The proposed tower route is illustrated in the figure below:



The maximum axle load is 12tonnes, with the gross vehicle weight for the heaviest load expected to be in the region of 130tonnes. The maximum height is 4.9m, with the widest load at 4.8m. The longest loads will have a rigid length of 76m. The assessment is at an early stage at present, however I would be grateful if you could confirm if there are any structures along the route that may present a particular issue. A further, more detailed assessment will be undertaken once the turbine haulier and turbine model have been selected by the developer.

Kind regards,
Jordan

Jordan Stirrat
Assistant Engineer
93 George Street
Edinburgh
EH2 3ES

Pell Frischmann
Excellence through innovation

www.pellfrischmann.com

CORONAVIRUS (COVID 19): In order to protect our colleagues, we have temporarily closed our offices until it is confirmed by the government that it is safe to re-open. Further information can be found **HERE**.

This communication is confidential and is intended only for the use of the addressee(s) designated above. If you are not an addressee, you are hereby expressly forbidden to copy, disseminate, distribute or in any other way use this communication. If you have received this communication in error please email us at Administrator@PellFrischmann.com or telephone +44 (0) 0207 486 3661. We reserve any and all possible rights to privilege in respect of this communication. We do not accept service by email. Unless explicitly and conspicuously designated as "E-Contract Intended" and confirmed in subsequent communication with a director of Pell Frischmann that the correspondence is intended to have binding effect, this e-mail together with any attachments or documents referred to herein does not constitute a contract offer, a contract amendment, or an acceptance of a contract offer. Pell Frischmann does not authorise any employee or agent to conclude any binding contract or amend any existing contract on behalf of Pell Frischmann with any other party by email. We accept no liability for communications that are either personal in nature or do not relate to the business of Pell Frischmann. Any file attachments to this communication will have been virus checked prior to transmission, however you should carry out your own virus check before opening. Accordingly we do not accept liability for any damage or loss that may occur from software viruses that may be attached to this communication. Pell Frischmann Registered Office: 5 Manchester Square London W1U 3PD "Pell Frischmann" is the trading name of Pell Frischmann Consulting Engineers Ltd (No. 4403030), Pell Frischmann Consultants Ltd (No. 1777946) and Pell Frischmann Ltd (No. 2750217)

This email has been scanned for email related threats by Mimecast.

[REDACTED]

From: rsgbrb <rsgbrb@jacobs.com>
Sent: 29 April 2021 14:14
To: Jordan Stirrat
Subject: RE: Appin Wind Farm ESDAL

Dear Jordan,

Thank you for your enquiry.

I have assessed the routes on behalf of Highways England Historical Railways Estate, and can confirm that no structures belonging to that authority will be affected by either.

Regards
Tania

Tania Howell
Abnormal Loads Officer (on behalf of Highways England Historical Railways Estate)
Jacobs
DDI: [REDACTED]

If your mail concerns abnormal load movements, please reply to RSGBRB@jacobs.com

From: Jordan Stirrat <JStirrat@pellfrischmann.com>
Sent: 28 April 2021 15:57
To: abnormalloadscontact@networkrail.co.uk; rsgbrb <rsgbrb@jacobs.com>; SCAbnormal.Loads@scottishcanals.co.uk; abloads@ayrshireroadsalliance.org; Paul.Winn@transport.gov.scot; esdal@dumgal.gov.uk; OSDAbnormalLoadsScotland@scotland.pnn.police.uk; abnormalloadrouting@scotlandtranserv.co.uk; abnormalloads@glasgow.gov.uk; m8dbfo.abloads@amey.co.uk; M77DBFOAbnormalLoads@balfourbeatty.com
Subject: [EXTERNAL] Appin Wind Farm ESDAL

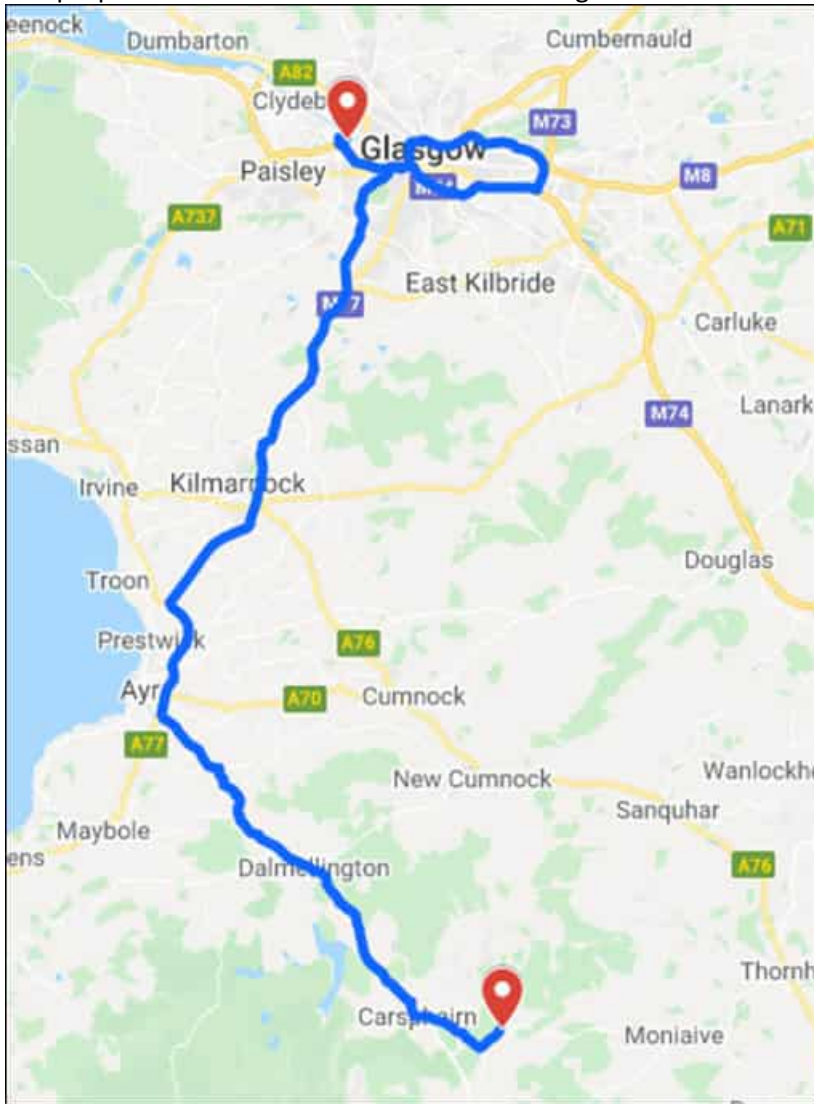
Dear All

We have been commissioned to undertake a route review for the proposed Appin Wind Farm, located to the west of Auchenbrack, Thornhill. The proposed Port of Entry is in Glasgow for blade loads and Ayr for towers.

The proposed access route to site is as follows:

- Loads would depart KGV Dock and travel west on Kings Inch Drive before turning left onto Mayo Avenue;
- Loads would join the eastbound M8 and continue to Junction 8;
- Loads would leave the M8 and join the M73 travelling south;
- At Junction 4, loads would join the westbound M74;
- Loads would depart the M74 at Junction 1 and join the M8 westbound before leaving at Junction 22 and join the M77 travelling southbound;
- Loads would continue southbound on the M77 / A77 until Bankfield Roundabout south of Ayr, where they would turn left onto the A713;
- Loads would proceed southbound on the A713 to the south of Carsphairn, where they would turn left onto the B729; and
- Loads would proceed southeast on the B729. At the junction with the Lorg Forest road, loads would turn north and would continue through to the site access junction.

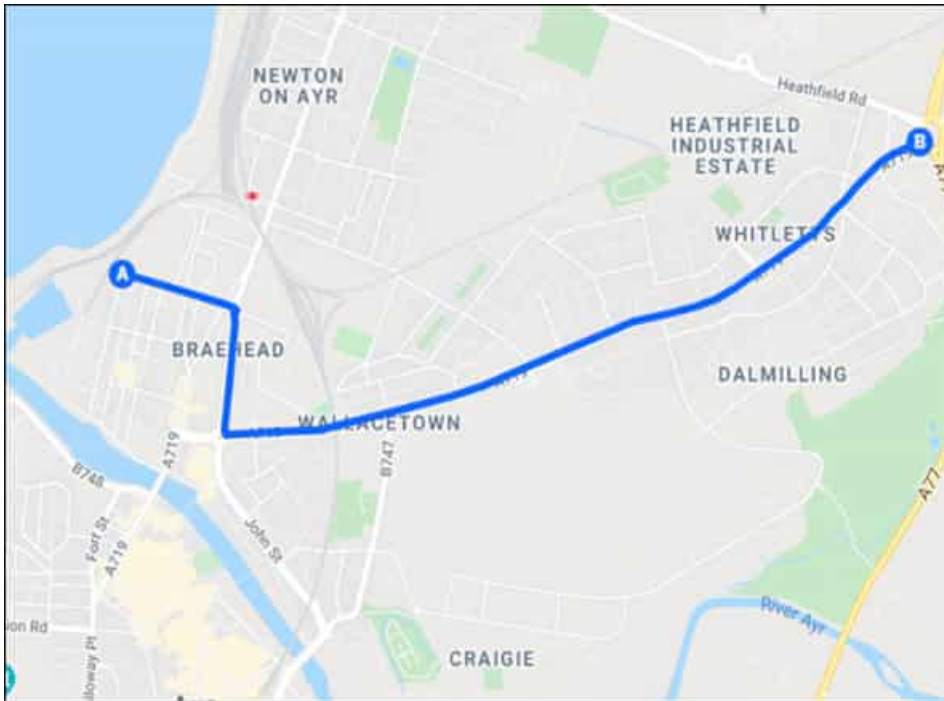
The proposed access route is illustrated in the figure below:



The proposed tower access route is as follows:

- Loads would depart the Port of Ayr and continue east on Waggon Road;
- Loads would turn right onto Allison Street and then left onto Whitletts Road; and
- Loads would continue east on Whitletts Road to Whitletts Roundabout where they would turn right onto the A77 and join the main route.

The proposed tower route is illustrated in the figure below:



The maximum axle load is 12tonnes, with the gross vehicle weight for the heaviest load expected to be in the region of 130tonnes. The maximum height is 4.9m, with the widest load at 4.8m. The longest loads will have a rigid length of 76m. The assessment is at an early stage at present, however I would be grateful if you could confirm if there are any structures along the route that may present a particular issue. A further, more detailed assessment will be undertaken once the turbine haulier and turbine model have been selected by the developer.

Kind regards,
Jordan

Jordan Stirrat
Assistant Engineer
93 George Street
Edinburgh
EH2 3ES

Pell Frischmann
Excellence through innovation

www.pellfrischmann.com

CORONAVIRUS (COVID 19): In order to protect our colleagues, we have temporarily closed our offices until it is confirmed by the government that it is safe to re-open. Further information can be found **HERE**.

This communication is confidential and is intended only for the use of the addressee(s) designated above. If you are not an addressee, you are hereby expressly forbidden to copy, disseminate, distribute or in any other way use this communication. If you have received this communication in error please email us at Administrator@PellFrischmann.com or telephone +44 (0) 0207 486 3661. We reserve any and all possible rights to privilege in respect of this communication. We do not accept service by email. Unless explicitly and conspicuously designated as "E-Contract Intended" and confirmed in subsequent communication with a director of Pell Frischmann that the correspondence is intended to have binding effect, this e-mail together with any attachments or documents referred to herein does not constitute a contract offer, a contract amendment, or an acceptance of a contract offer. Pell Frischmann does not authorise any employee or agent to conclude any binding contract or amend any existing contract on behalf of Pell Frischmann with any other party by email. We accept no liability for communications that are either personal in nature or do not relate to the business of Pell Frischmann. Any file attachments to this communication will have been virus checked prior to transmission, however you should carry out your own virus check before opening. Accordingly we do not accept liability for any damage or loss that may occur from software viruses that may be attached to this communication. Pell Frischmann Registered Office: 5 Manchester Square London W1U 3PD "Pell Frischmann" is the trading name of Pell Frischmann Consulting Engineers Ltd (No. 4403030), Pell Frischmann Consultants Ltd (No. 1777946) and Pell Frischmann Ltd (No. 2750217)

This email has been scanned for email related threats by Mimecast.

From: O'Connor, Brian (NRS) <Brian.OConnor@glasgow.gov.uk>
Sent: 28 April 2021 16:30
To: Jordan Stirrat
Cc: Dempsey, Henry (NRS); Ford, James (NRS)
Subject: RE: Appin Wind Farm ESDAL (OFFICIAL)

OFFICIAL

Hi Jordan,

Good news, the proposed route out of KGV is acceptable to Glasgow City Council.

However just to give you a heads up there are currently emergency works on the M8 between Jct 18 and Jct 15 on the Woodside Viaduct and this may be problematic for these moves. Perhaps Amey will get back to soon on this!

Alternatives to consider would be circumnavigating some of the shorter vehicles by utilising the Seward St junction, next to Jct 21 of the M8 and the longer vehicles could circumnavigate at the M74 Jct 2A Fullarton Rd. Just a thought.

Regards.

Brian O'Connor.

From: Jordan Stirrat [mailto:JStirrat@pellfrischmann.com]
Sent: 28 April 2021 15:57
To: abnormalloadscontact@networkrail.co.uk; rsgbrb@jacobs.com; SCAbnormal.Loads@scottishcanals.co.uk; abloads@ayrshireroadsalliance.org; Paul.Winn@transport.gov.scot; esdal@dumgal.gov.uk; OSDAbnormalLoadsScotland@scotland.pnn.police.uk; abnormalloadrouting@scotlandtranserv.co.uk; Abnormal Loads (NS) <AbnormalLoads@glasgow.gov.uk>; m8dbfo.abloads@amey.co.uk; M77DBFOAbnormalLoads@balfourbeatty.com
Subject: Appin Wind Farm ESDAL

Dear All

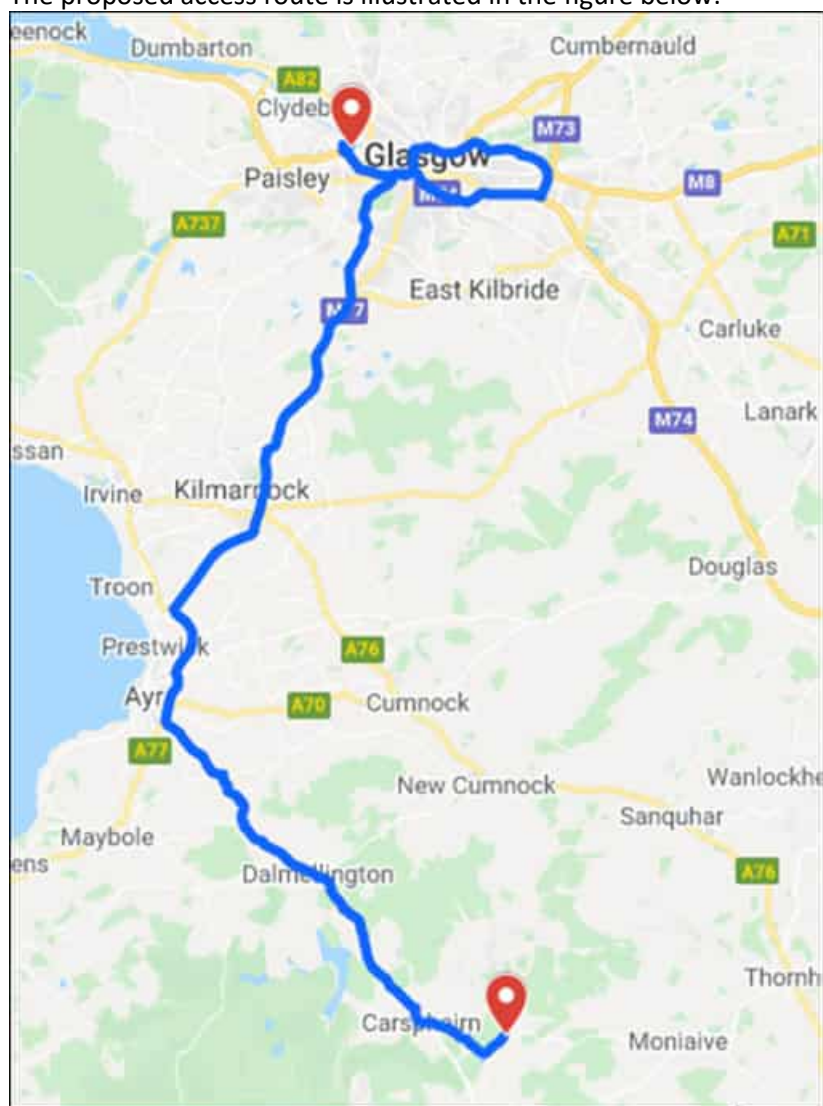
We have been commissioned to undertake a route review for the proposed Appin Wind Farm, located to the west of Auchenbrack, Thornhill. The proposed Port of Entry is in Glasgow for blade loads and Ayr for towers.

The proposed access route to site is as follows:

- Loads would depart KGV Dock and travel west on Kings Inch Drive before turning left onto Mayo Avenue;
- Loads would join the eastbound M8 and continue to Junction 8;
- Loads would leave the M8 and join the M73 travelling south;
- At Junction 4, loads would join the westbound M74;
- Loads would depart the M74 at Junction 1 and join the M8 westbound before leaving at Junction 22 and join the M77 travelling southbound;
- Loads would continue southbound on the M77 / A77 until Bankfield Roundabout south of Ayr, where they would turn left onto the A713;
- Loads would proceed southbound on the A713 to the south of Carsphairn, where they would turn left onto the B729; and

- Loads would proceed southeast on the B729. At the junction with the Lorg Forest road, loads would turn north and would continue through to the site access junction.

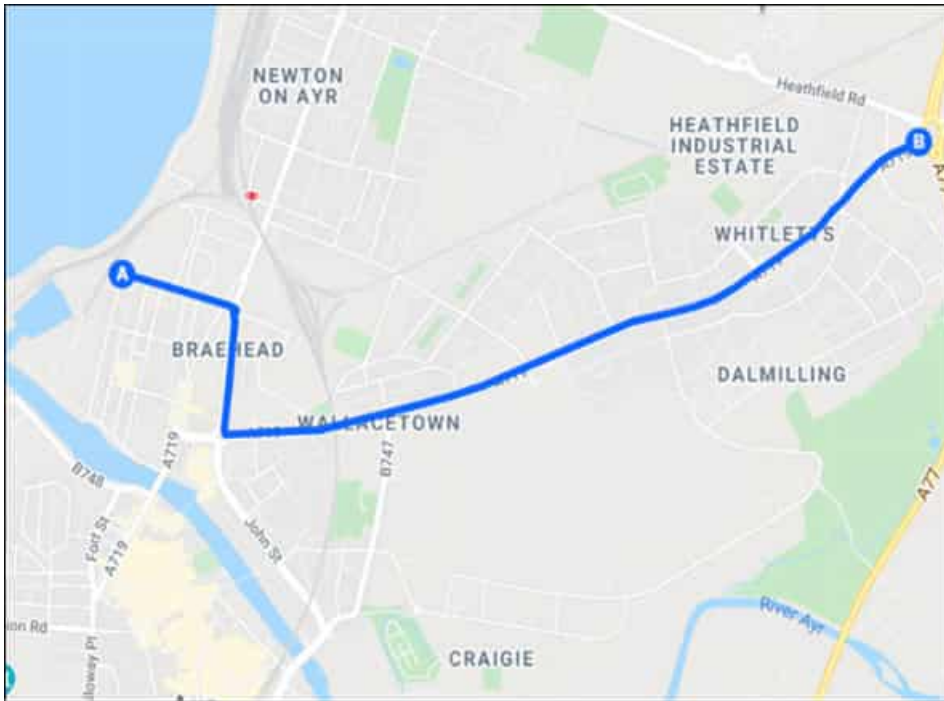
The proposed access route is illustrated in the figure below:



The proposed tower access route is as follows:

- Loads would depart the Port of Ayr and continue east on Waggon Road;
- Loads would turn right onto Allison Street and then left onto Whitletts Road; and
- Loads would continue east on Whitletts Road to Whitletts Roundabout where they would turn right onto the A77 and join the main route.

The proposed tower route is illustrated in the figure below:



The maximum axle load is 12tonnes, with the gross vehicle weight for the heaviest load expected to be in the region of 130tonnes. The maximum height is 4.9m, with the widest load at 4.8m. The longest loads will have a rigid length of 76m. The assessment is at an early stage at present, however I would be grateful if you could confirm if there are any structures along the route that may present a particular issue. A further, more detailed assessment will be undertaken once the turbine haulier and turbine model have been selected by the developer.

Kind regards,
Jordan

Jordan Stirrat
Assistant Engineer
93 George Street
Edinburgh
EH2 3ES

Pell Frischmann
Excellence through innovation

www.pellfrischmann.com

CORONAVIRUS (COVID 19): In order to protect our colleagues, we have temporarily closed our offices until it is confirmed by the government that it is safe to re-open. Further information can be found **HERE**.

This communication is confidential and is intended only for the use of the addressee(s) designated above. If you are not an addressee, you are hereby expressly forbidden to copy, disseminate, distribute or in any other way use this communication. If you have received this communication in error please email us at Administrator@PellFrischmann.com or telephone +44 (0) 0207 486 3661. We reserve any and all possible rights to privilege in respect of this communication. We do not accept service by email. Unless explicitly and conspicuously designated as "E-Contract Intended" and confirmed in subsequent communication with a director of Pell Frischmann that the correspondence is intended to have binding effect, this e-mail together with any attachments or documents referred to herein does not constitute a contract offer, a contract amendment, or an acceptance of a contract offer. Pell Frischmann does not authorise any employee or agent to conclude any binding contract or amend any existing contract on behalf of Pell Frischmann with any other party by email. We accept no liability for communications that are either personal in nature or do not relate to the business of Pell Frischmann. Any file attachments to this communication will have been virus checked prior to transmission, however you should carry out your own virus check before opening. Accordingly we do not accept liability for any damage or loss that may occur from software viruses that may be attached to this communication. Pell Frischmann Registered Office: 5 Manchester Square London W1U 3PD "Pell Frischmann" is the trading name of Pell Frischmann Consulting Engineers Ltd (No. 4403030), Pell Frischmann Consultants Ltd (No. 1777946) and Pell Frischmann Ltd (No. 2750217)

This email has been scanned for email related threats by Mimecast.

[REDACTED]

From: Electronic Service Delivery for Abnormal Loads <ESDAL@dumgal.gov.uk>
Sent: 18 July 2021 15:03
To: Jordan Stirrat
Cc: Electronic Service Delivery for Abnormal Loads
Subject: RE: EXTERNAL: Appin Wind Farm ESDAL

OFFICIAL

Good afternoon,

Apologies for the delay in responding to your enquiry.

The proposed route through Dumfries and Galloway (A713, B729 and C35s) has been used to serve other wind farm developments and I would confirm provisionally that it should be suitable for the proposed site.

However, a route survey should be undertaken during the preparation of the traffic management plan and abnormal load route for the site to confirm that the route geometry is suitable for all proposed vehicles.

Regards,

Lauryn

Lauryn Steel | Principal Technician : Structures
Engineering Design | Communities / Dumfries and Galloway Council

[REDACTED]

OFFICIAL

From: Jordan Stirrat <JStirrat@pellfrischmann.com>
Sent: 28 April 2021 15:57
To: abnormalloadscontact@networkrail.co.uk; rsgbrb@jacobs.com; SCAbnormal.Loads@scottishcanals.co.uk; abloads@ayrshireroadsalliance.org; Paul.Winn@transport.gov.scot; Electronic Service Delivery for Abnormal Loads <ESDAL@dumgal.gov.uk>; OSDAbnormalLoadsScotland@scotland.pnn.police.uk; abnormalloadrouting@scotlandtranserv.co.uk; abnormalloads@glasgow.gov.uk; m8dbfo.abloads@amey.co.uk; M77DBFOAbnormalLoads@balfourbeatty.com
Subject: EXTERNAL: Appin Wind Farm ESDAL

Dear All

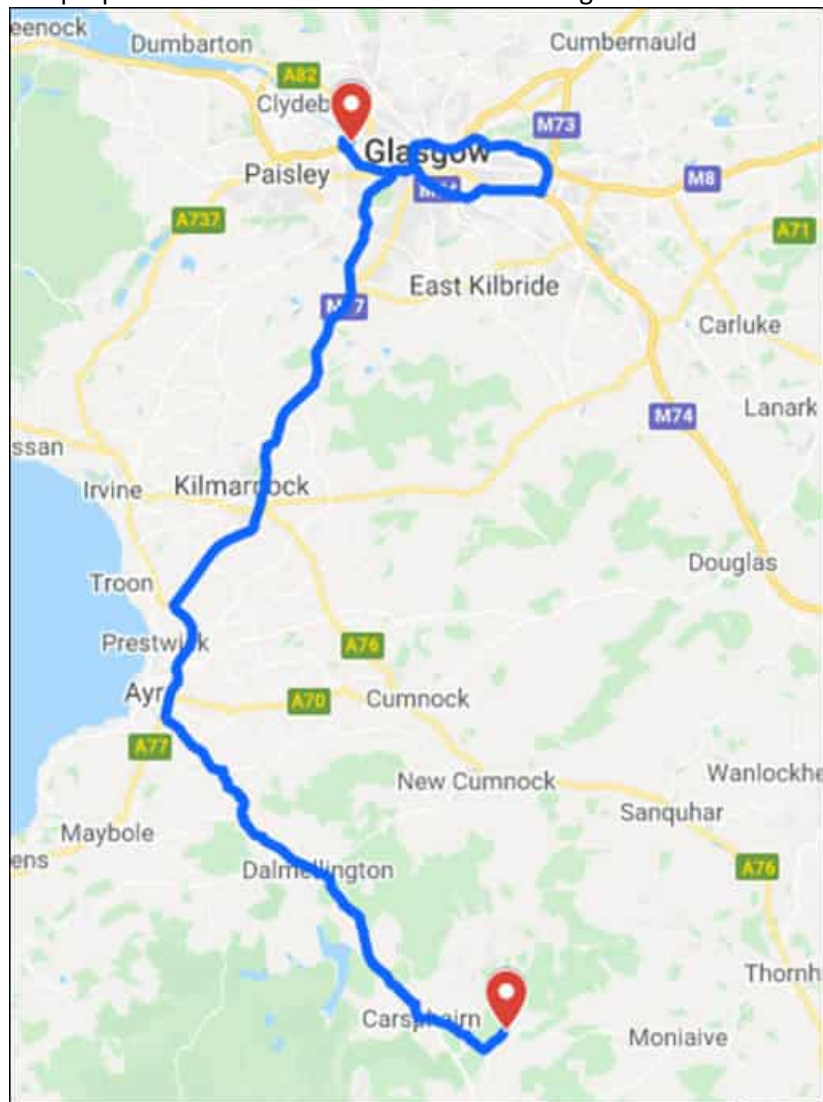
We have been commissioned to undertake a route review for the proposed Appin Wind Farm, located to the west of Auchenbrack, Thornhill. The proposed Port of Entry is in Glasgow for blade loads and Ayr for towers.

The proposed access route to site is as follows:

- Loads would depart KGV Dock and travel west on Kings Inch Drive before turning left onto Mayo Avenue;
- Loads would join the eastbound M8 and continue to Junction 8;
- Loads would leave the M8 and join the M73 travelling south;
- At Junction 4, loads would join the westbound M74;
- Loads would depart the M74 at Junction 1 and join the M8 westbound before leaving at Junction 22 and join the M77 travelling southbound;
- Loads would continue southbound on the M77 / A77 until Bankfield Roundabout south of Ayr, where they would turn left onto the A713;

- Loads would proceed southbound on the A713 to the south of Carsphairn, where they would turn left onto the B729; and
- Loads would proceed southeast on the B729. At the junction with the Lorg Forest road, loads would turn north and would continue through to the site access junction.

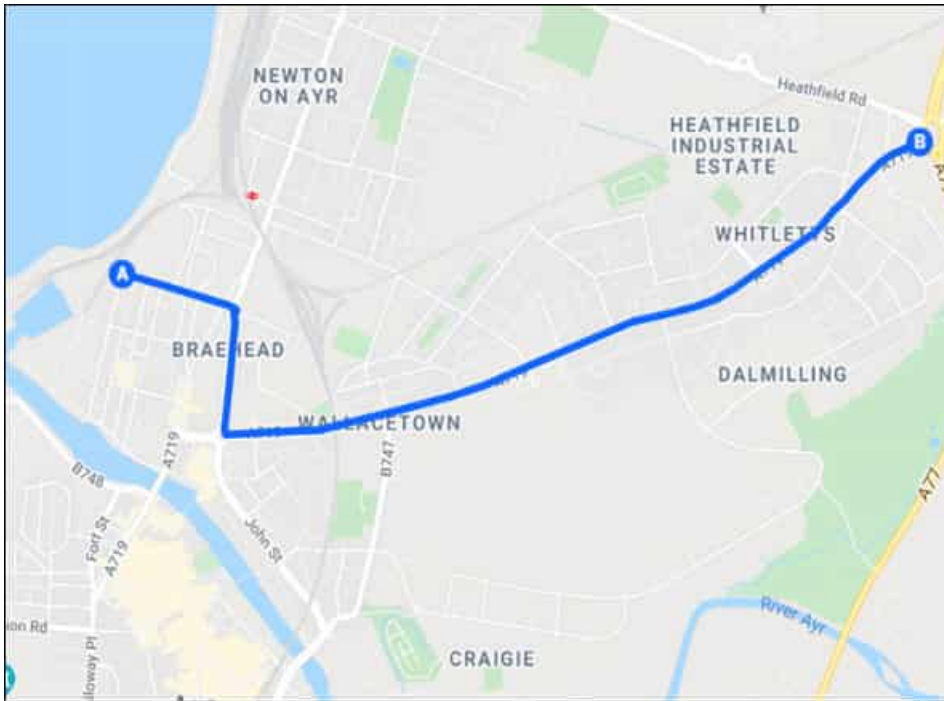
The proposed access route is illustrated in the figure below:



The proposed tower access route is as follows:

- Loads would depart the Port of Ayr and continue east on Waggon Road;
- Loads would turn right onto Allison Street and then left onto Whitletts Road; and
- Loads would continue east on Whitletts Road to Whitletts Roundabout where they would turn right onto the A77 and join the main route.

The proposed tower route is illustrated in the figure below:



The maximum axle load is 12tonnes, with the gross vehicle weight for the heaviest load expected to be in the region of 130tonnes. The maximum height is 4.9m, with the widest load at 4.8m. The longest loads will have a rigid length of 76m. The assessment is at an early stage at present, however I would be grateful if you could confirm if there are any structures along the route that may present a particular issue. A further, more detailed assessment will be undertaken once the turbine haulier and turbine model have been selected by the developer.

Kind regards,
Jordan

Jordan Stirrat
Assistant Engineer
93 George Street
Edinburgh
EH2 3ES

Pell Frischmann
Excellence through innovation

www.pellfrischmann.com

CORONAVIRUS (COVID 19): In order to protect our colleagues, we have temporarily closed our offices until it is confirmed by the government that it is safe to re-open. Further information can be found **HERE**.

This communication is confidential and is intended only for the use of the addressee(s) designated above. If you are not an addressee, you are hereby expressly forbidden to copy, disseminate, distribute or in any other way use this communication. If you have received this communication in error please email us at Administrator@PellFrischmann.com or telephone +44 (0) 0207 486 3661. We reserve any and all possible rights to privilege in respect of this communication. We do not accept service by email. Unless explicitly and conspicuously designated as "E-Contract Intended" and confirmed in subsequent communication with a director of Pell Frischmann that the correspondence is intended to have binding effect, this e-mail together with any attachments or documents referred to herein does not constitute a contract offer, a contract amendment, or an acceptance of a contract offer. Pell Frischmann does not authorise any employee or agent to conclude any binding contract or amend any existing contract on behalf of Pell Frischmann with any other party by email. We accept no liability for communications that are either personal in nature or do not relate to the business of Pell Frischmann. Any file attachments to this communication will have been virus checked prior to transmission, however you should carry out your own virus check before opening. Accordingly we do not accept liability for any damage or loss that may occur from software viruses that may be attached to this communication. Pell Frischmann Registered Office: 5 Manchester Square London W1U 3PD "Pell Frischmann" is the trading name of Pell Frischmann Consulting Engineers Ltd (No. 4403030), Pell Frischmann Consultants Ltd (No. 1777946) and Pell Frischmann Ltd (No. 2750217)

This email has been scanned for email related threats by Mimecast.

[REDACTED]

From: McCulloch, John <john.mcculloch@balfourbeatty.com>
Sent: 23 July 2021 15:04
To: Tim Lockett
Subject: Tower Access

In Response to your Email I don't see any problems in our network with this Abnormal Load

Regards

John McCulloch

Roads Inspector | Balfour Beatty | Regional | Scotland

[REDACTED] | E: john.mcculloch@balfourbeatty.com

M77 Operations Centre, Ayr Road, Newton Mearns, East Renfrewshire, G77 6RT

www.balfourbeatty.com | [@balfourbeatty](#) | [LinkedIn](#)

Balfour Beatty

Build to Last
Lean. Expert. Trusted. Safe.

We've recently launched our Summer issue of The Expert, the magazine for everyone at Balfour Beatty. [Check it out here.](#)

This email may contain information which is confidential and is intended only for use of the recipient/s named above. If you are not an intended recipient, you are hereby notified that any copying, distribution, disclosure, reliance upon or other use of the contents of this email is strictly prohibited. If you have received this email in error, please notify the sender and destroy it. 'Think before you print - please do not print this email unless you really need to' Balfour Beatty plc is registered in England as a public limited company; Registered No: 395826; Registered Office: 5 Churchill Place, Canary Wharf, London E14 5HU Warning: Although the company has taken reasonable precautions to ensure no viruses or other malware are present in this email, the company cannot accept responsibility for any loss or damage arising from the use of this email or attachments.

[REDACTED]

From: McCulloch, John <john.mcculloch@balfourbeatty.com>
Sent: 30 April 2021 14:14
To: Jordan Stirrat
Subject: Appin Windfarm

Just to say that I don't see any problems with this load in our network.

Regards

John McCulloch

Roads Inspector | Balfour Beatty | Regional | Scotland

[REDACTED] | E: john.mcculloch@balfourbeatty.com

M77 Operations Centre, Ayr Road, Newton Mearns, East Renfrewshire, G77 6RT

www.balfourbeatty.com |  [@balfourbeatty](https://twitter.com/balfourbeatty) |  [LinkedIn](#)

Balfour Beatty

Build to Last
Lean. Expert. Trusted. Safe.

This email may contain information which is confidential and is intended only for use of the recipient/s named above. If you are not an intended recipient, you are hereby notified that any copying, distribution, disclosure, reliance upon or other use of the contents of this email is strictly prohibited. If you have received this email in error, please notify the sender and destroy it. 'Think before you print - please do not print this email unless you really need to' Balfour Beatty plc is registered in England as a public limited company; Registered No: 395826; Registered Office: 5 Churchill Place, Canary Wharf, London E14 5HU Warning: Although the company has taken reasonable precautions to ensure no viruses or other malware are present in this email, the company cannot accept responsibility for any loss or damage arising from the use of this email or attachments.

From: Ierland, Alan <Alan.Ierland@ayrshireroadsalliance.org>
Sent: 30 April 2021 10:23
To: Jordan Stirrat
Cc: Nairn, Douglas; Greig, Scott; Ferguson, Iain; Smith, Kirsty; Walker, Ciaran
Subject: RE: Appin Wind Farm ESDAL [OFFICIAL] [PUBLIC]

CLASSIFICATION: PUBLIC

Jordan,

The following response is given on behalf of both South Ayrshire Council (SAC) and East Ayrshire Council (EAC).

SAC - Ayr docks to A77 Whitletts Roundabout for turbine component (towers) abnormal loads

This route has been used for a variety of wind farm abnormal load movements and should present no issues for the axle loads proposed. Swept path analysis may be required for longer length vehicles (blades, towers). There are two underpass structures owned/maintained by SAC and one railway bridge owned/maintained by Network Rail on the route.

A77

The A77 is a trunk road for which responsibility lies with Transport Scotland and their operating company Amey.

A713

Both SAC and EAC have responsibility for sections of the A713 within the proposed route.

SAC section of A713

The section of A713 within South Ayrshire from the A77/A713 Bankfield roundabout to the SAC/EAC Boundary at OS 237434 617249 cross only minor culverts and should present no issues for the abnormal loads associated with the wind farm coming from Port of Ayr and KGV Glasgow.

EAC section of A713

On the section of A713 within East Ayrshire from the SAC/EAC Boundary to the EAC/DGC boundary there are some 28 structures (bridges, culverts, retaining walls)

The route is currently not suitable for the loads proposed but following strengthening works being undertaken by the South Kyle Wind Farm (SKWF) developer all bridges and culverts on the A713 between the SAC/EAC boundary and the EAC/DGC boundary **are likely** to be satisfactory for the abnormal loads proposed. However, structural load assessments would still require to be carried out by the applicant to verify the suitability of all of these structures for the proposed abnormal load configurations.

A713/30 Boneston Bridge at OS 238606, 616244 (Approximately 4.5km from the A713/A77 junction) was recently strengthened by the South Kyle Wind Farm developer to accommodate their respective abnormal load vehicles.

A further bridge has been identified as requiring strengthening for the SKWF and a design is currently being considered by them in consultation with ARA.

Other structures on the route are also currently being assessed by SKWF's consultant and further issues may yet be highlighted.

ARA would respectfully request that the Appin WF developer liaise with the SKWF developer and seek to come to some arrangement whereby their abnormal load requirements can also be taken into account in the bridge assessments and strengthenings being undertaken on behalf of the SKWF developer.

Rail bridges owned by Network Rail

Two of the rail bridges on the EAC section of the A713 are owned and maintained by Network Rail and they should be consulted to confirm their suitability for the abnormal loads proposed. These are;

A713/50, Rail Bridge No 212/12 [Holehouse]

A713/70, Rail Bridge No. 212/18 [Downieston, Patna]

EAC/DGC Boundary Bridge

A713/130/C100, Polnaskie Bridge is a boundary bridge owned jointly between East Ayrshire Council and Dumfries and Galloway Council. DGC are the lead authority in respect of the management of the bridge and contact should be made with them in respect of the bridges suitability to carry the proposed abnormal loads.

A713 road alignment

There are a number of tight bends along the route which may prove problematic. The horizontal alignment passing over A713/100 Buchans Bridge, north of Dalmellington and A713/120 Kirn Bridge south of Dalmellington may also prove difficult. Swept path analysis/trial runs should be carried out to demonstrate suitability. The developer for the South Kyle Wind Farm is proposing localised widening of the route at specific pinch points to satisfy over run / over sail issues relevant to the transport of wind turbine components associated with their wind farm development. As mentioned above, the Appin developer should liaise with the SKWF developer to ensure that the road adjustments being proposed would also meet their requirements.

Crane abnormal loads – I would ask that you remind your client that the cranes and associated ballast vehicles (abnormal loads) required to deal with the wind turbine components on site may potentially be more critical for a route than the actual turbine component abnormal loads and require to be given due consideration at an early stage.

Summary

All bridges and culverts on the proposed routes will have to be considered in relation to the specific abnormal load configurations proposed for the wind farm. This should also include for any mobile cranes and crane ballast vehicles which fall within the abnormal load regulations. Such cranes often have more onerous axle load configurations than the abnormal load vehicles delivering the wind turbine components.

Inspections will require to be undertaken by the applicant of the roads and all known structures, culverts and drains below the affected public road to confirm their ability to carry abnormal loads and construction traffic and to determine all necessary repairs prior to any works commencing.

It is likely that, some, if not all of the structures will require a structural load assessment with respect to the proposed load configurations. These load assessments would require to be carried out by the applicant, at their expense, to the satisfaction of the Roads Design Manager. As mentioned above, the SKWF developer is currently undertaking such work and it would make sense for the Appin WF requirements to be taken into account at the same time.

Any strengthening/replacement works necessary as a result of these assessments or repairs required to ensure the integrity of the road or structure prior to any abnormal load movement will require to be funded directly by the applicant. In addition any damage due to the applicant's abnormal loads will require to be repaired at the applicant's expense.

Swept path analysis will be required to demonstrate suitability of the route alignment for the proposed vehicles.

EAC will require the developer to enter into a Roads (Scotland) Act 1984, Section 96 agreement with financial bond in respect of the abnormal load movements.

Contact should be made with Ayrshire Roads Alliance Design Section based at the Opera House, Kilmarnock (tel. 01563 503164) regarding the suitability of any existing structures for proposed abnormal loads well in advance of any proposed load movements.

I trust the above is of assistance but would stress that until all of the above has been undertaken, ARA will not approve the passage of any Appin WF abnormal load vehicles travelling south on the A713. I would be grateful if you would forward this email response to the developer.

Regards,

Alan Ierland, BSc Hons, CENG, MICE
Design & Environment Team Manager – Ayrshire Roads Alliance
Opera House, 8 John Finnie Street, Kilmarnock, East Ayrshire, KA1 1DD

Email alan.ierland@ayrshireroadsalliance.org
Website www.ayrshireroadsalliance.org



From: Jordan Stirrat <JStirrat@pellfrischmann.com>

Sent: 28 April 2021 15:56

To: abnormalloadscontact@networkrail.co.uk; rsgbrb@jacobs.com; SCAbnormal.Loads@scottishcanals.co.uk; ARA.AbnormalLoad; Paul.Winn@transport.gov.scot; esdal@dumgal.gov.uk; OSDAbnormalLoadsScotland@scotland.pnn.police.uk; abnormalloadrouting@scotlandtranserv.co.uk; abnormalloads@glasgow.gov.uk; m8dbfo.abloads@amey.co.uk; M77DBFOAbnormalLoads@balfourbeatty.com

Subject: Appin Wind Farm ESDAL

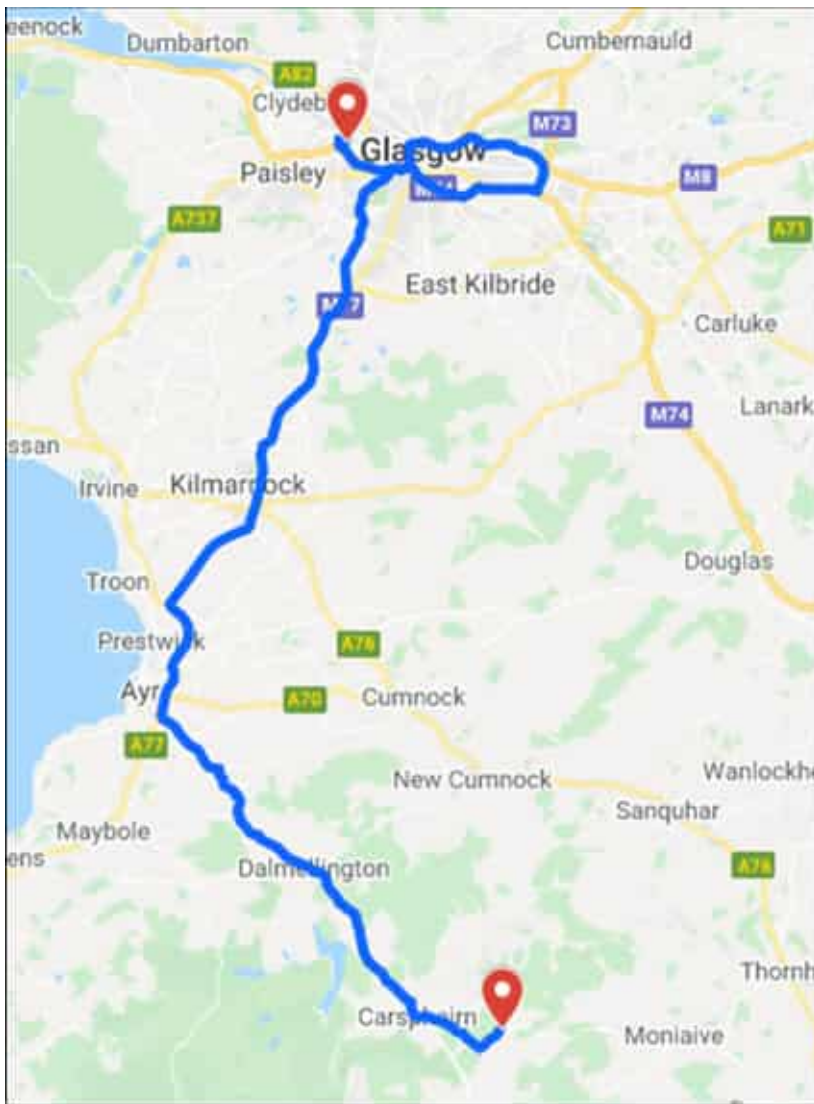
Dear All

We have been commissioned to undertake a route review for the proposed Appin Wind Farm, located to the west of Auchenbrack, Thornhill. The proposed Port of Entry is in Glasgow for blade loads and Ayr for towers.

The proposed access route to site is as follows:

- Loads would depart KGV Dock and travel west on Kings Inch Drive before turning left onto Mayo Avenue;
- Loads would join the eastbound M8 and continue to Junction 8;
- Loads would leave the M8 and join the M73 travelling south;
- At Junction 4, loads would join the westbound M74;
- Loads would depart the M74 at Junction 1 and join the M8 westbound before leaving at Junction 22 and join the M77 travelling southbound;
- Loads would continue southbound on the M77 / A77 until Bankfield Roundabout south of Ayr, where they would turn left onto the A713;
- Loads would proceed southbound on the A713 to the south of Carsphairn, where they would turn left onto the B729; and
- Loads would proceed southeast on the B729. At the junction with the Lorg Forest road, loads would turn north and would continue through to the site access junction.

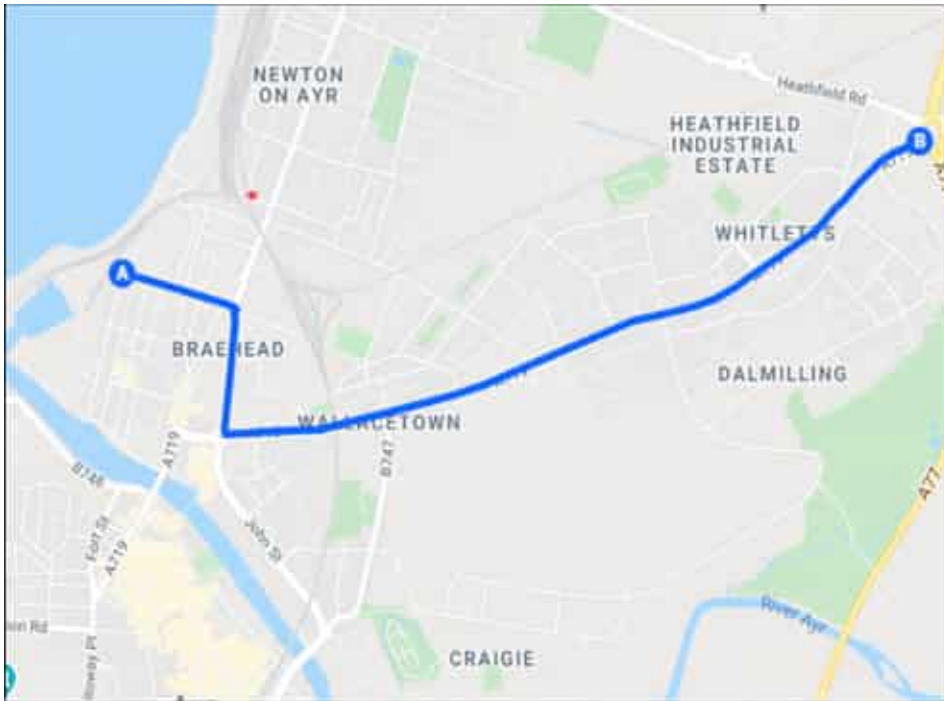
The proposed access route is illustrated in the figure below:



The proposed tower access route is as follows:

- Loads would depart the Port of Ayr and continue east on Waggon Road;
- Loads would turn right onto Allison Street and then left onto Whitletts Road; and
- Loads would continue east on Whitletts Road to Whitletts Roundabout where they would turn right onto the A77 and join the main route.

The proposed tower route is illustrated in the figure below:



The maximum axle load is 12tonnes, with the gross vehicle weight for the heaviest load expected to be in the region of 130tonnes. The maximum height is 4.9m, with the widest load at 4.8m. The longest loads will have a rigid length of 76m. The assessment is at an early stage at present, however I would be grateful if you could confirm if there are any structures along the route that may present a particular issue. A further, more detailed assessment will be undertaken once the turbine haulier and turbine model have been selected by the developer.

Kind regards,
Jordan

Jordan Stirrat
Assistant Engineer
93 George Street
Edinburgh
EH2 3ES

Pell Frischmann
Excellence through innovation

<http://www.pellfrischmann.com>

CORONAVIRUS (COVID 19): In order to protect our colleagues, we have temporarily closed our offices until it is confirmed by the government that it is safe to re-open. Further information can be found **HERE**.

This communication is confidential and is intended only for the use of the addressee(s) designated above. If you are not an addressee, you are hereby expressly forbidden to copy, disseminate, distribute or in any other way use this communication. If you have received this communication in error please email us at Administrator@PellFrischmann.com or telephone +44 (0) 0207 486 3661. We reserve any and all possible rights to privilege in respect of this communication. We do not accept service by email. Unless explicitly and conspicuously designated as "E-Contract Intended" and confirmed in subsequent communication with a director of Pell Frischmann that the correspondence is intended to have binding effect, this e-mail together with any attachments or documents referred to herein does not constitute a contract offer, a contract amendment, or an acceptance of a contract offer. Pell Frischmann does not authorise any employee or agent to conclude any binding contract or amend any existing contract on behalf of Pell Frischmann with any other party by email. We accept no liability for communications that are either personal in nature or do not relate to the business of Pell Frischmann. Any file attachments to this communication will have been virus checked prior to transmission, however you should carry out your own virus check before opening. Accordingly we do not accept liability for any damage or loss that may occur from software viruses that may be attached to this communication. Pell Frischmann Registered Office: 5 Manchester Square London W1U 3PD "Pell Frischmann" is the trading name of Pell Frischmann Consulting Engineers Ltd (No. 4403030), Pell Frischmann Consultants Ltd (No. 1777946) and Pell Frischmann Ltd (No. 2750217)

This email has been scanned for email related threats by Mimecast.