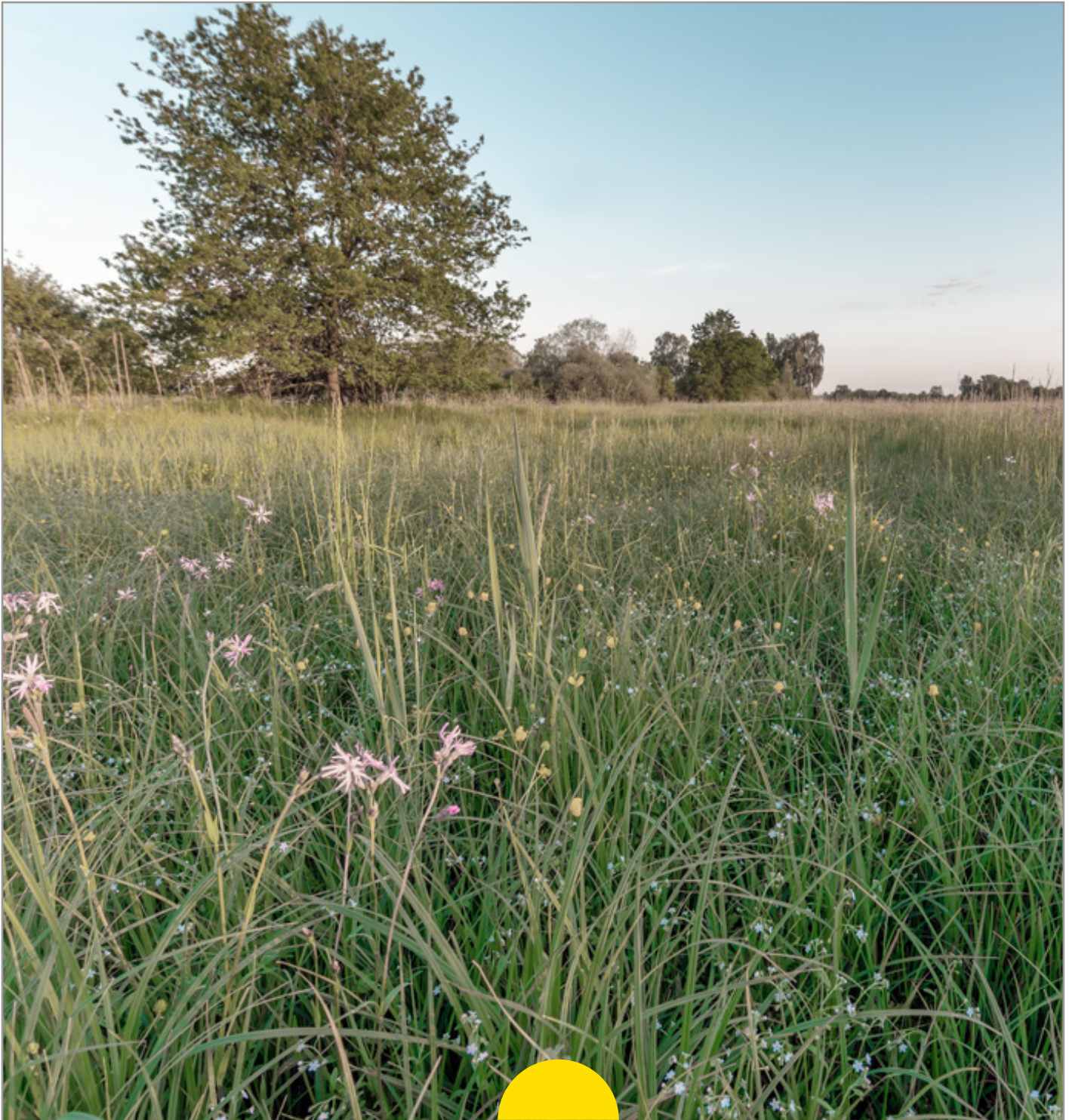


Norfolk Offshore Wind Zone

Community Drop-in Information Event Materials
Necton Community Centre

April 2023



VATTENFALL

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- 3 Event poster
- 4 Norfolk Zone overview
- 5 - 11 Breheny AC178 works
- 13-19 Siemens AC180 works
- 20-21 Indicative project timeline
- 22 Substation design engagement
- 23 Contact information & links



Denise Hone

Stakeholder & Community Engagement Manager
Norfolk Offshore Wind Zone

Hello,

Vattenfall has now begun early preparation works for the Norfolk Zone wind farms, with full onshore construction works expected to begin in autumn 2023.

The Norfolk Zone team will continue to stay in touch with the communities located near the substation site and along the cable route throughout construction and beyond, and we began our 2023 programme of information events with a session in Necton on 18th April with construction partners Siemens Energy, Murphy and Breheny.

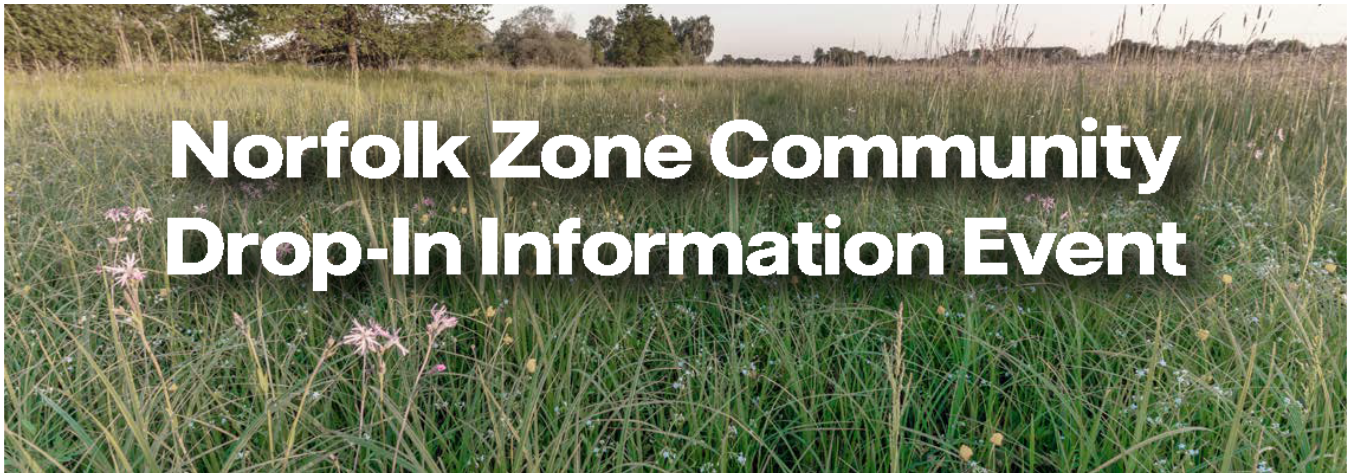
This pack contains the materials that we shared and discussed with local residents and community representatives at that event. If you have any questions about the project, please don't hesitate to get in touch. You'll find information on how to do that on page 23. Thank you for your continued interest in our projects.

Best regards,

Denise Hone



Event Poster



Sharing information regarding upcoming works in your area.



Where:

Necton Community Centre,
13 Tuns Road, PE37 8EH



Date:

18th April



Time:

12:00 - 19:00

Providing opportunity for local members of the public to drop in, meet members of the team who will be in attendance throughout, presenting the latest information.

Topics in focus, include:



Traffic
management



Substation
design review and
construction



Principal
contractors



Community
Benefit Fund



Skills and
employment
opportunities

Vattenfall are preparing to begin the construction of the Norfolk Offshore Wind Zone. Once operating, the zone will provide enough power for **4.6 million UK homes**. Approximately 60km of shared underground cabling will connect the power produced offshore to onshore project substations, which are co-located near Necton, Norfolk.

Community engagement and local dialogue is important to Vattenfall. We believe involving local people and stakeholders

helps us make sustainable and robust decisions and deliver better projects.

Now, we'd like to update you, residents and businesses on when the construction works are likely to start, what you'll notice, and what you can expect.

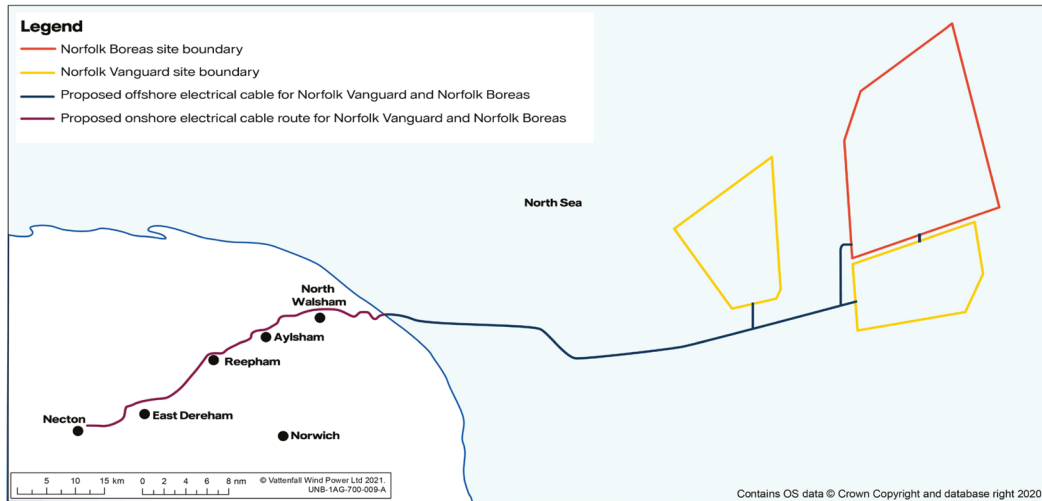
We look forward to seeing you.

For more information on Norfolk Vanguard and Norfolk Boreas Offshore Wind Farms please visit the dedicated project website or email the team below:

www.vattenfall.co.uk/VattenfallinNorfolk • norfolk@vattenfall.com

Overview

Norfolk Offshore Wind Zone



Our road to fossil freedom

The Norfolk Offshore Wind Zone projects are set to bring numerous benefits to the local area and beyond. During construction our team of experts and liaison officers will work closely with local residents to ensure minimal disruption to daily lives. Once completed, the Norfolk Offshore Wind Zone will generate clean, renewable energy, reduce carbon emissions and help to combat climate change.

47

km from shore

4.6

million households powered

1

£million skills investment

4.2

GW (gigawatts)

15

£million community benefit

2027

first power

Breheny AC178 S278 Works

Pages 5-11

What are these works?

In order to improve safety for road users, improve ease of access and minimise impact on the existing traffic network, upgrade work is required to widen the bell mouth at the existing permanent access road connecting the A47 to the Necton National Grid substation.

What will this involve?

Works activities will be undertaken adjacent to and partly within the A47 carriageway. This will require traffic management measures including lane closure to ensure the health and safety of workers. Following consultation on this matter, National Highways issued a direction that roadworks which impact on the 'live' traffic lanes of the A47 are to be carried out at night due to anticipated impact on the network. There will be no access onto the access road while this work is happening.

When will this work happen?

There will be night-time working between the hours of 19:00 and 06:00 from 11th April to 19th May 2023 and weekend working between the hours of 20:00 on Saturday and 06:00 Monday on 15th & 16th and 22nd & 23rd April 2023. Works are expected to be completed by 19th May 2023.

Which drawings are associated with these works?

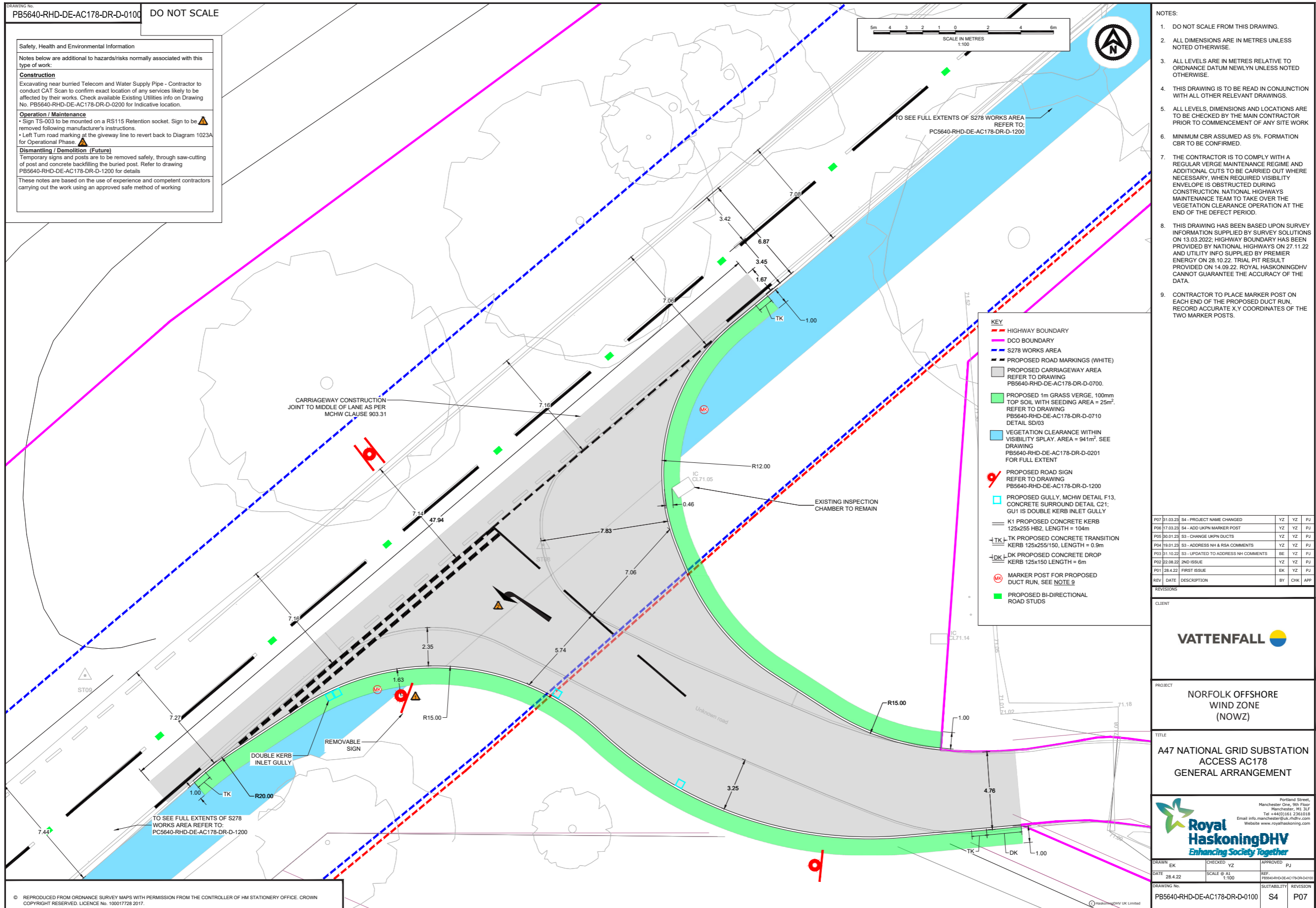
Drawing Numbers

- PB5640-RHD-DE-AC178-DR-D-0100 - P07 - pages 6 & 7
- PB5640-RHD-DE-AC178-DR-D-0101-P05 - pages 8 & 9
- PB5640-RHD-DE-ZZ-DR-D-0150-P02 - pages 10 & 11

Who should I contact if I have questions about these works?

If you have questions, please contact the Community Liaison Officer for the Norfolk Zone, Will Sealey.

E: william.sealey@vattenfall.com M: 07773 661068



DRAWING No.
PB5640-RHD-DE-AC178-DR-D-0100

DO NOT SCALE

Safety, Health and Environmental Information
Notes below are additional to hazards/risks normally associated with this type of work:

Construction
Excavating near buried Telecom and Water Supply Pipe - Contractor to conduct CAT Scan to confirm exact location of any services likely to be affected by their works. Check available Existing Utilities info on Drawing No. PB5640-RHD-DE-AC178-DR-D-0200 for Indicative location.

Operation / Maintenance
• Sign TS-003 to be mounted on a RS115 Retention socket. Sign to be removed following manufacturer's instructions.
• Left Turn road marking at the gateway line to revert back to Diagram 1023A for Operational Phase.

Dismantling / Demolition (Future)
Temporary signs and posts are to be removed safely, through saw-cutting of post and concrete backfilling the buried post. Refer to drawing PB5640-RHD-DE-AC178-DR-D-1200 for details
These notes are based on the use of experience and competent contractors carrying out the work using an approved safe method of working

- NOTES:**
- DO NOT SCALE FROM THIS DRAWING.
 - ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
 - ALL LEVELS ARE IN METRES RELATIVE TO ORDNANCE DATUM NEWLYN UNLESS NOTED OTHERWISE.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS.
 - ALL LEVELS, DIMENSIONS AND LOCATIONS ARE TO BE CHECKED BY THE MAIN CONTRACTOR PRIOR TO COMMENCEMENT OF ANY SITE WORK
 - MINIMUM CBR ASSUMED AS 5%. FORMATION CBR TO BE CONFIRMED.
 - THE CONTRACTOR IS TO COMPLY WITH A REGULAR VERGE MAINTENANCE REGIME AND ADDITIONAL CUTS TO BE CARRIED OUT WHERE NECESSARY WHEN REQUIRED VISIBILITY ENVELOPE IS OBSTRUCTED DURING CONSTRUCTION. NATIONAL HIGHWAYS MAINTENANCE TEAM TO TAKE OVER THE VEGETATION CLEARANCE OPERATION AT THE END OF THE DEFECT PERIOD.
 - THIS DRAWING HAS BEEN BASED UPON SURVEY INFORMATION SUPPLIED BY SURVEY SOLUTIONS ON 13.03.2022; HIGHWAY BOUNDARY HAS BEEN PROVIDED BY NATIONAL HIGHWAYS ON 27.11.22 AND UTILITY INFO SUPPLIED BY PREMIER ENERGY ON 28.10.22. TRIAL PIT RESULT PROVIDED ON 14.09.22. ROYAL HASKONINGDHV CANNOT GUARANTEE THE ACCURACY OF THE DATA.
 - CONTRACTOR TO PLACE MARKER POST ON EACH END OF THE PROPOSED DUCT RUN. RECORD ACCURATE X,Y COORDINATES OF THE TWO MARKER POSTS.

KEY

- HIGHWAY BOUNDARY
- DCO BOUNDARY
- S278 WORKS AREA
- PROPOSED ROAD MARKINGS (WHITE)
- PROPOSED CARRIAGEWAY AREA REFER TO DRAWING PB5640-RHD-DE-AC178-DR-D-0700.
- PROPOSED 1m GRASS VERGE, 100mm TOP SOIL WITH SEEDING AREA = 25m². REFER TO DRAWING PB5640-RHD-DE-AC178-DR-D-0710 DETAIL SD/03
- VEGETATION CLEARANCE WITHIN VISIBILITY SPLAY. AREA = 941m². SEE DRAWING PB5640-RHD-DE-AC178-DR-D-0201 FOR FULL EXTENT
- PROPOSED ROAD SIGN REFER TO DRAWING PB5640-RHD-DE-AC178-DR-D-1200
- PROPOSED GULLY, MCHW DETAIL F13, CONCRETE SURROUND DETAIL C21; GU1 IS DOUBLE KERB INLET GULLY
- K1 PROPOSED CONCRETE KERB 125x255 HB2, LENGTH = 104m
- TK PROPOSED CONCRETE TRANSITION KERB 125x255/150, LENGTH = 0.9m
- DK PROPOSED CONCRETE DROP KERB 125x150 LENGTH = 6m
- MARKER POST FOR PROPOSED DUCT RUN. SEE NOTE 9
- PROPOSED BI-DIRECTIONAL ROAD STUDS

REVISIONS

REV	DATE	DESCRIPTION	BY	CHK	APP
P07	31.03.22	S4 - PROJECT NAME CHANGED	YZ	YZ	PJ
P06	17.03.22	S4 - ADD UKPN MARKER POST	YZ	YZ	PJ
P05	30.01.22	S3 - CHANGE UKPN DUCTS	YZ	YZ	PJ
P04	16.01.22	S3 - ADDRESS NH & RSA COMMENTS	YZ	YZ	PJ
P03	31.10.22	S3 - UPDATED TO ADDRESS NH COMMENTS	BE	YZ	PJ
P02	22.08.22	2ND ISSUE	YZ	YZ	PJ
P01	28.4.22	FIRST ISSUE	EK	YZ	PJ

CLIENT

VATTENFALL

PROJECT

NORFOLK OFFSHORE WIND ZONE (NOWZ)

TITLE

A47 NATIONAL GRID SUBSTATION ACCESS AC178 GENERAL ARRANGEMENT

ROYAL HASKONINGDHV
Enhancing Society Together

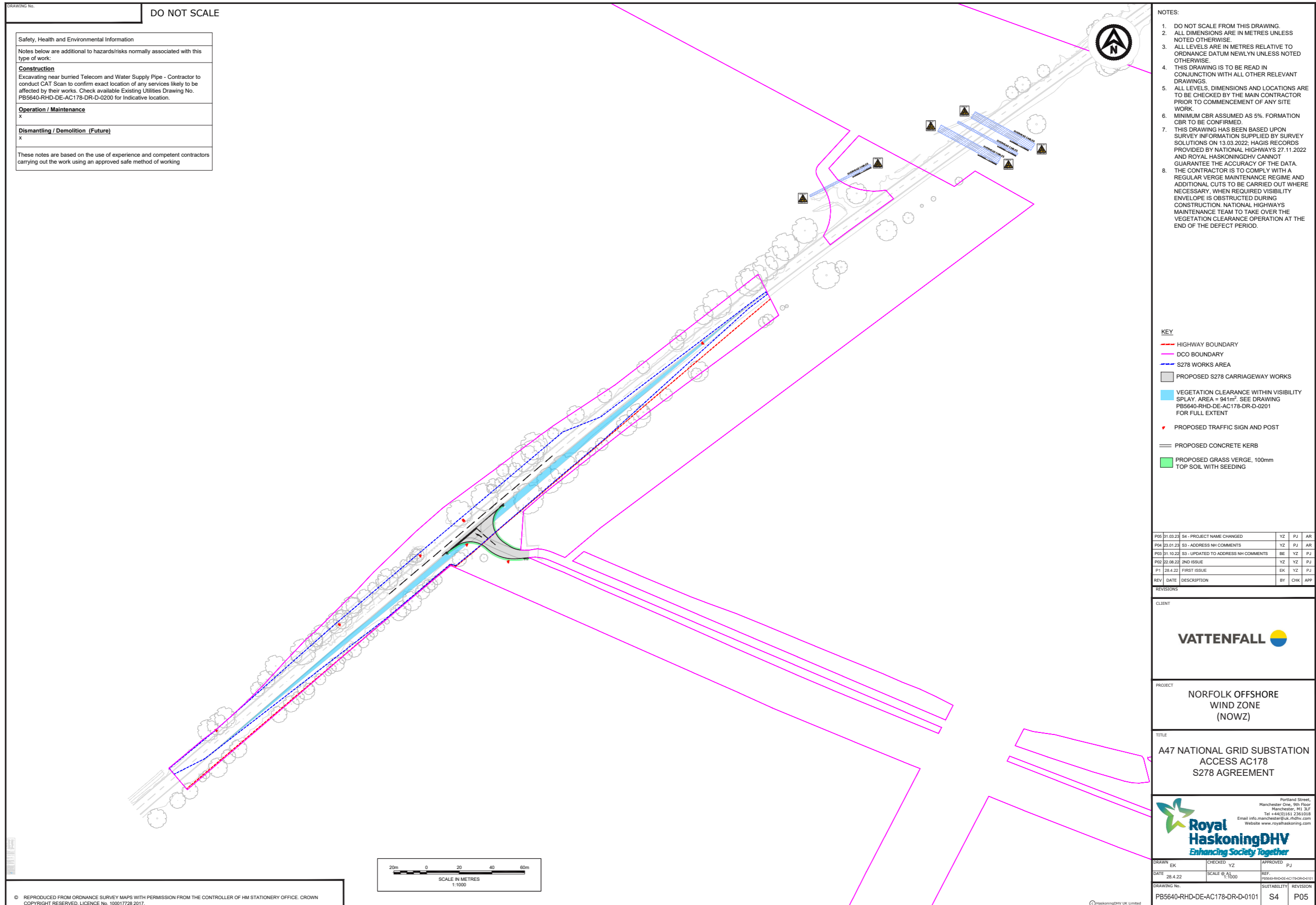
Portland Street, Manchester One, 9th Floor, Manchester, M1 3LF
Tel: +44(0)161 2361018
Email: info.manchester@uk.rhdhv.com
Website: www.royalhaskoningdhv.com

DRAWN	CHECKED	APPROVED
EK	YZ	PJ

DATE: 28.4.22 SCALE: @ A1 1:100 REF: PB5640-RHD-DE-AC178-DR-D-0100

DRAWING No.	SUITABILITY	REVISION
PB5640-RHD-DE-AC178-DR-D-0100	S4	P07

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The Norfolk Zone offshore wind farms will bring £15 million of funding to local communities, and will be in place for the 25 year life of the wind farms. This is the largest funding commitment to Norfolk by an offshore wind company to date.

We're now over 18 months into the Community Benefit Fund dialogue programme and thanks to the open, positive and active engagement from many people in the communities located near our onshore infrastructure route, we are making great progress. So firstly, and most importantly, a great big 'thank you' to everybody that has participated so far: those who have attended our workshops - either in person or online - and those who have contributed feedback, either via the survey or by emailing us directly. We want to build a community benefit fund that meets the needs and interests of your communities, so your input is vital.

The phase 2 workshops concluded late in 2022 and we have been collating the information and input gathered during those workshops. We will use the feedback that you provided to inform the next stage of the process, the thematic workshops, and we will **kick off phase 3 in summer 2023**. If you haven't participated yet, don't worry, there will be a chance to get involved in this next round of discussions and we'll send dates for the workshops in an e-news update as soon as we can. You can sign up here: <https://bit.ly/NorfolkEnews>

**Building climate
smart community
projects together**



Visit the website:



Siemens AC180 S278 Works

Pages 13-19

What are these works?

In order to improve safety for road users, improve ease of access and minimise impact on the existing traffic network, an existing farmer's track will be upgraded to provide a new, permanent access road from the A47 to the Norfolk Offshore Wind Zone substation site at Necton.

These works will also reconfigure the A47, providing a new central reservation lane (ghost lane) for traffic travelling east on the A47 to safely turn right. The ghost lane itself is 150m in length, so ample time for users to pull in early and reduce speed accordingly.

What will this involve?

In order to progress the track upgrade, we have already removed some vegetation along the A47, near Spicers Corner (What3Words location: nurture.saves.column), This vegetation consisted of 6 trees and smaller fledgling trees/shrubbery. An extensive landscaping scheme in the near future will ensure that more trees are replanted than removed in the surrounding vicinity.

The first week of July will see a compound and welfare facilities erected, as well as the arrival of materials and plant. Road upgrade works will follow from mid-July, and when this is underway, Traffic Management Measurements will be in place (traffic lights) which will result in one lane for both east and west bound traffic at any one time.

When will this work happen?

The devegetation element has already been completed. The next stage of works are planned to start in middle of July with night time road closures in place for 10 weeks from 11th August - 20th October 2023.

Which drawings are associated with these works?

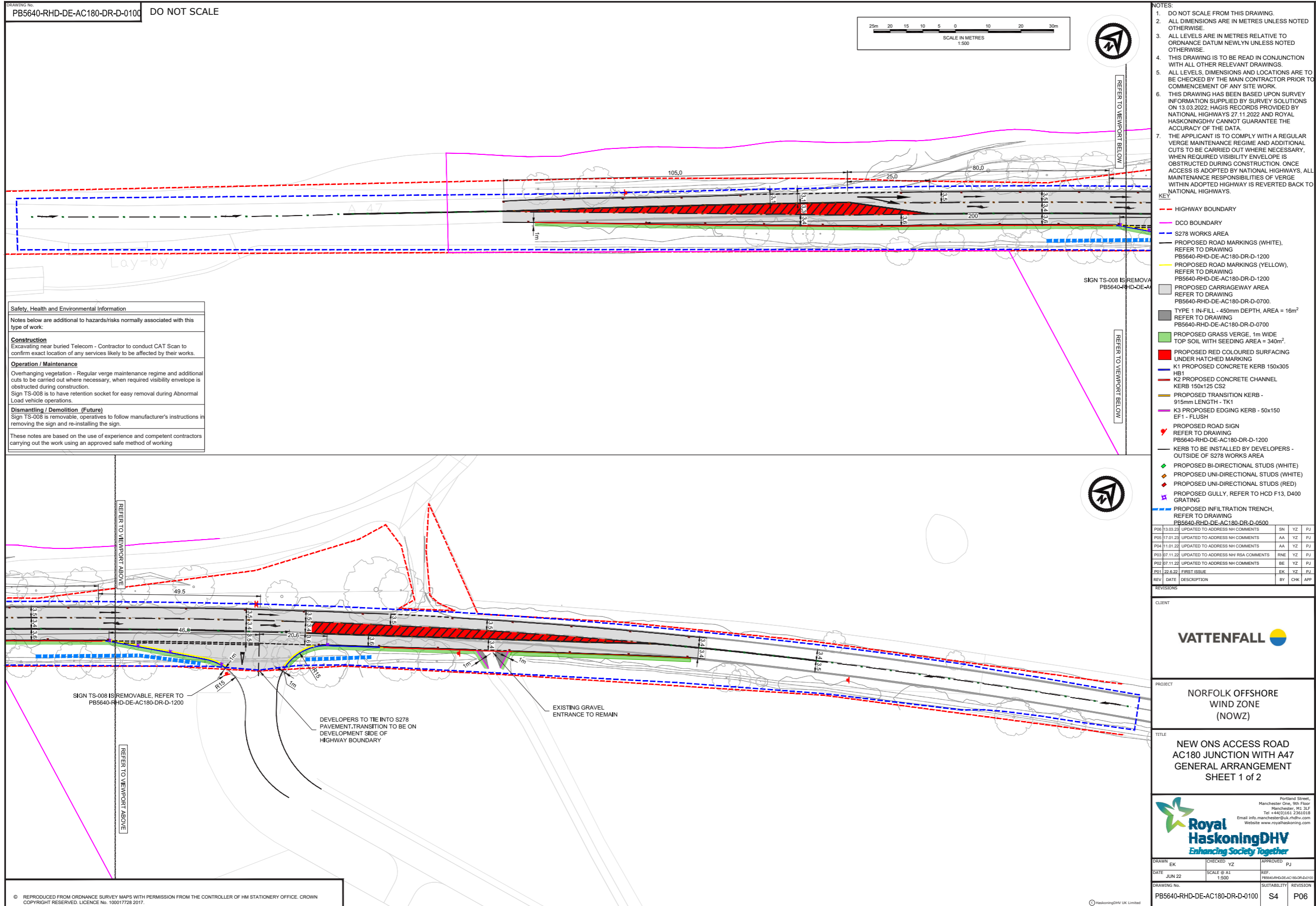
Drawing Numbers

- PB5640-RHD-DE-AC180-DR-D-0100-P06 - pages 14 & 15
- PB5640-RHD-DE-AC180-DR-D-0106-P04 - pages 16 & 17
- PB5640-RHD-DE-AC180-DR-D-0107-P02 - pages 18 & 19

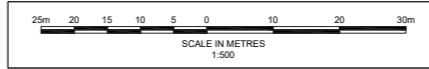
Who should I contact if I have questions about these works?

If you have questions, please contact the Community Liaison Officer for the Norfolk Zone, Will Sealey.

E: william.sealey@vattenfall.com M: 07773 661068



DRAWING No. PB5640-RHD-DE-AC180-DR-D-0100 DO NOT SCALE



Safety, Health and Environmental Information

Notes below are additional to hazards/risks normally associated with this type of work:

Construction
Excavating near buried Telecom - Contractor to conduct CAT Scan to confirm exact location of any services likely to be affected by their works.

Operation / Maintenance
Overhanging vegetation - Regular verge maintenance regime and additional cuts to be carried out where necessary, when required visibility envelope is obstructed during construction.
Sign TS-008 is to have retention socket for easy removal during Abnormal Load vehicle operations.

Dismantling / Demolition (Future)
Sign TS-008 is removable, operatives to follow manufacturer's instructions in removing the sign and re-installing the sign.

These notes are based on the use of experience and competent contractors carrying out the work using an approved safe method of working

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- KEY:**
- HIGHWAY BOUNDARY
 - DCO BOUNDARY
 - S278 WORKS AREA
 - PROPOSED ROAD MARKINGS (WHITE), REFER TO DRAWING PB5640-RHD-DE-AC180-DR-D-1200
 - PROPOSED ROAD MARKINGS (YELLOW), REFER TO DRAWING PB5640-RHD-DE-AC180-DR-D-1200
 - PROPOSED CARRIAGEWAY AREA REFER TO DRAWING PB5640-RHD-DE-AC180-DR-D-0700.
 - TYPE 1 INFILL - 450mm DEPTH, AREA = 16m² REFER TO DRAWING PB5640-RHD-DE-AC180-DR-D-0700
 - PROPOSED GRASS VERGE 1m WIDE TOP SOIL WITH SEEDING AREA = 340m²
 - PROPOSED RED COLOURED SURFACING UNDER HATCHED MARKING
 - K1 PROPOSED CONCRETE KERB 150x305 HB1
 - K2 PROPOSED CONCRETE CHANNEL KERB 150x125 CS2
 - PROPOSED TRANSITION KERB - 915mm LENGTH - TK1
 - K3 PROPOSED EDGING KERB - 50x150 EF1 - FLUSH
 - PROPOSED ROAD SIGN REFER TO DRAWING PB5640-RHD-DE-AC180-DR-D-1200
 - KERB TO BE INSTALLED BY DEVELOPERS - OUTSIDE OF S278 WORKS AREA
 - PROPOSED BI-DIRECTIONAL STUDS (WHITE)
 - PROPOSED UNI-DIRECTIONAL STUDS (WHITE)
 - PROPOSED UNI-DIRECTIONAL STUDS (RED)
 - PROPOSED GULLY, REFER TO HCD F13, D400 GRATING
 - PROPOSED INFILTRATION TRENCH, REFER TO DRAWING PB5640-RHD-DE-AC180-DR-D-0500

REV	DATE	DESCRIPTION	BY	CHK	APP
P06	13.03.22	UPDATED TO ADDRESS NH COMMENTS	SN	YZ	PJ
P05	17.01.22	UPDATED TO ADDRESS NH COMMENTS	AA	YZ	PJ
P04	11.01.22	UPDATED TO ADDRESS NH COMMENTS	AA	YZ	PJ
P03	07.11.22	UPDATED TO ADDRESS NH RSA COMMENTS	RNE	YZ	PJ
P02	07.11.22	UPDATED TO ADDRESS NH COMMENTS	BE	YZ	PJ
P01	22.02.22	FIRST ISSUE	EK	YZ	PJ

REVISIONS

CLIENT



PROJECT
NORFOLK OFFSHORE WIND ZONE (NOWZ)

TITLE
NEW ONS ACCESS ROAD AC180 JUNCTION WITH A47 GENERAL ARRANGEMENT SHEET 1 of 2



DRAWN	CHECKED	APPROVED
EK	YZ	PJ

DATE: JUN 22 SCALE: @ A1 1:500 REF: PB5640-RHD-DE-AC180-DR-D-0100

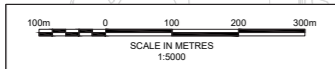
DRAWING No.	SUITABILITY	REVISION
PB5640-RHD-DE-AC180-DR-D-0100	S4	P06

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Safety, Health and Environmental Information
 Notes below are additional to hazards/risks normally associated with this type of work:

Construction
 Excavating near buried Telecom and Water Supply Pipe - Contractor to conduct CAT Scan to confirm exact location of any services likely to be affected by their works. Check available Existing Utilities Drawing No. PB5640-RHD-GE-SW-DR-R-0100 for Indicative location.

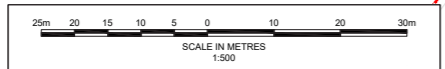
Operation / Maintenance

Dismantling / Demolition (Future)

These notes are based on the use of experience and competent contractors carrying out the work using an approved safe method of working

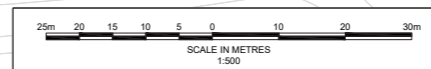
- NOTES:**
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- KEY**
- HIGHWAY BOUNDARY
 - DCO BOUNDARY
 - S278 WORKS AREA
 - PROPOSED ROAD SIGN REFER TO DRAWING PB5640-RHD-DE-AC180-DR-D-1200 & 1201



PERMANENT ADVANCE DIRECTIONAL SIGN; REFER TO DRAWING PB5640-RHD-DE-AC180-DR-D-1201

TEMPORARY 'INFORMATION' ADVANCED SIGNING TO DIAG 7003.1 OF THE TSRGD. REFER TO APPENDIX 1/21.



REV	DATE	DESCRIPTION	BY	CHK	APP
P04	13.03.22	4th ISSUE	SN	YZ	PJ
P03	17.01.22	3rd ISSUE	RNE	YZ	PJ
P02	11.01.22	2nd ISSUE	RNE	YZ	PJ
P01	21.12.22	FIRST ISSUE	RNE	YZ	PJ

CLIENT



PROJECT NORFOLK OFFSHORE WIND ZONE (NOWZ)

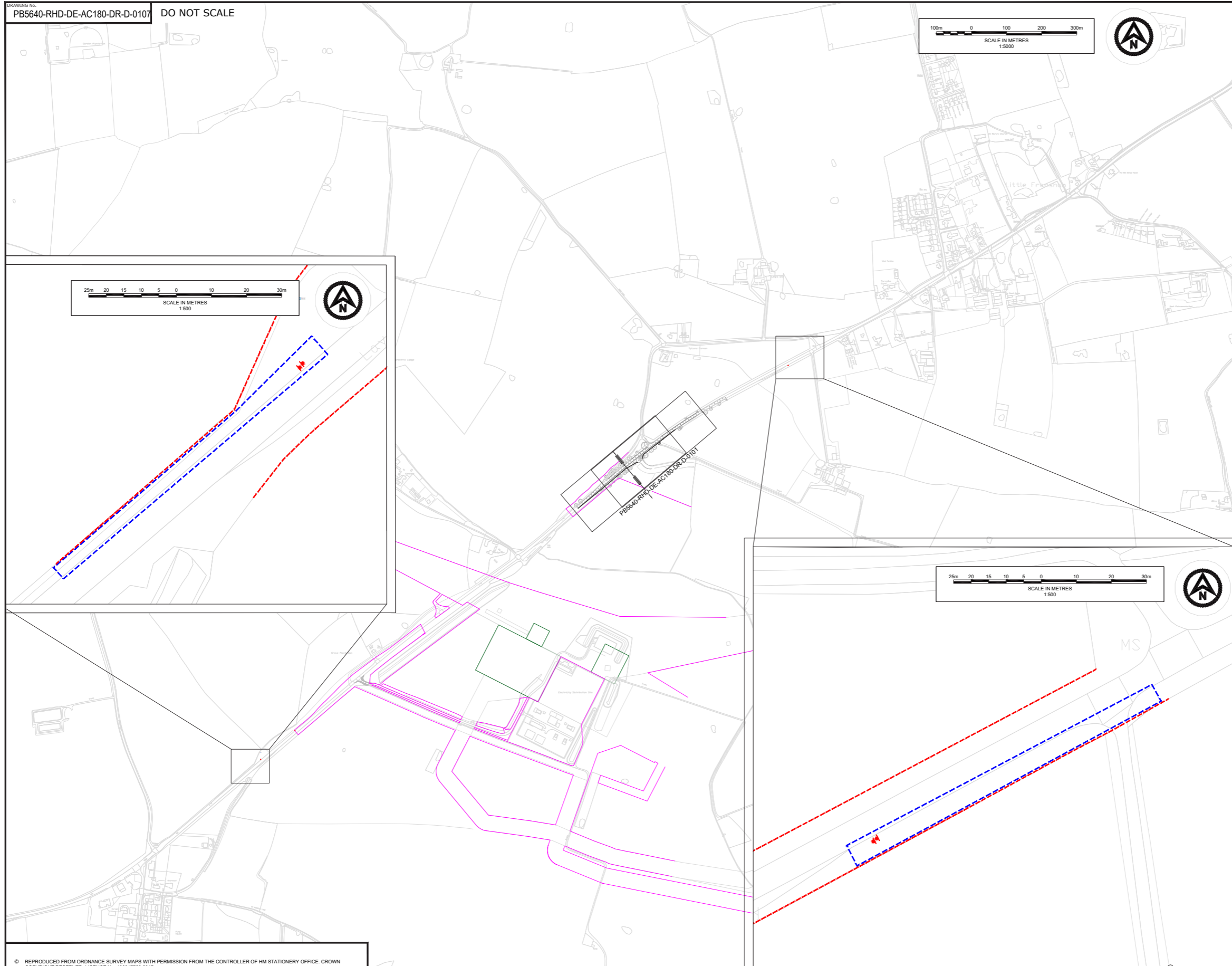
TITLE NEW ONS ACCESS ROAD AC180 JUNCTION WITH A47 GENERAL ARRANGEMENT SHEET 2 of 2



DRAWN	RNE	CHECKED	YZ	APPROVED	PJ
DATE	DEC 22	SCALE @ A1	1:5000 MAIN VIEW	REF	PB5640-RHD-DE-AC180-DR-D-0106
DRAWING No.	PB5640-RHD-DE-AC180-DR-D-0106	SUITABILITY	S4	REVISION	P04

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- KEY**
- HIGHWAY BOUNDARY
 - DCO BOUNDARY
 - S278 WORKS AREA

P02	14.03.22	SECOND ISSUE	SN	YZ	PJ
P01	11.01.22	FIRST ISSUE	RNE	YZ	PJ
REV	DATE	DESCRIPTION	BY	CHK	APP

REVISIONS

CLIENT

VATTENFALL

PROJECT

NORFOLK OFFSHORE WIND ZONE (NOWZ)

TITLE

NEW ONS ACCESS ROAD AC180 JUNCTION WITH A47 S278 AGREEMENT SHEET 2 of 2

Portland Street, Manchester One, 5th Floor, Manchester, M1 3LF
Tel +44(0)161 2361018
Email info.manchester@rhdhv.com
Website www.royalhaskoning.com

DRAWN	RNE	CHECKED	YZ	APPROVED	PJ
DATE	DEC 22	SCALE @ A1	1:5000 untd	REF	PB5640-RHD-DE-AC180-DR-D-0107
DRAWING No.	PB5640-RHD-DE-AC180-DR-D-0107	SUITABILITY	S4	REVISION	P02

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Please note this timeline is indicative and may change as the project progresses

Norfolk Zone Offshore Wind Farms Indicative Timeline

Since Autumn 2016

Thousands of residents, landowners, businesses topic experts & statutory bodies helped to shape the Norfolk Zone projects.

Since Spring 2018

Supply chain engagement in Norfolk & wider East Anglia region. Over 450 companies have registered their interest in working on the projects. The newly named EastWind Cluster begins gearing up for new offshore wind opportunities in 2021.

Summer 2018 to February 2022

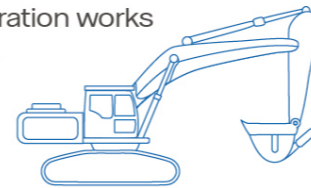
Norfolk Vanguard & Norfolk Boreas were in the planning system from summer 2018 to early 2022. Similar to other NSIP projects, both have experienced delays as a result of legal and procedural issues.

Early 2023

Onshore substation preparation works begin.

Summer 2023

Onshore cable preparation works begin.



Early 2025 to 2027

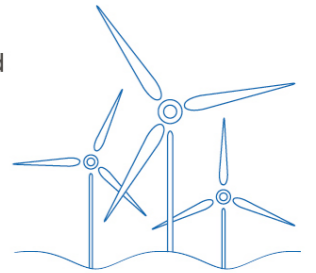
Onshore cable installation.

Early 2027 to 2029

Installation & commissioning of wind turbines.

Early 2027

First power from wind farm to National Grid.



Ongoing consultation and dialogue

Skills and Employment planning

Community Benefit Fund dialogue to shape a fund supporting local people's climate smarter living

Since Spring 2017

Skills & Training initiatives with schools, colleges and universities in East Anglia. To date we have provided opportunities for hundreds of young people.

2016

Seabed rights secured

Summer / Late 2022

Pre-construction onshore surveys begin. Offshore geophysical site surveys begin.

Autumn/Winter 2020

Site investigations and ecological surveys completed. Archaeological surveys continue.

2024

First Community Benefit Awards made to winning local projects.

Summer 2024

Onshore substation construction begins.

Summer 2026 to 2028

Installation of inter-array cables and construction of offshore substation.

Early 2026 to 2028

Installation of export cables & foundations.



2029

Norfolk Zone Offshore Wind Farms fully commissioned and delivering enough electricity to the Grid to power around **4 million** UK households.

Substation Design Engagement Postcard & Links to Online Materials



Norfolk Offshore Wind Zone Substation design engagement

VATTENFALL

Design proposals for the appearance of the Norfolk Zone onshore project substation - please provide feedback

Survey opens on Friday 24th March and closes on Wednesday 19th April 2023

Dear Resident,

Community views have helped to shape the Norfolk Offshore Wind Zone projects throughout the planning stages. Moving towards construction, we hope to hear from you about design options for the onshore project substation.

You are receiving this invitation because you live in one of Necton, Holme Hale or Little Fransham parishes. As far as possible, the design uses existing landscape features to ensure the converter buildings are as visually unobtrusive as possible, and the next stage design seeks to use colour and shape to further integrate the buildings into the local setting. Three design options have been developed, and Vattenfall would like to hear if you have preferences.

You will find information setting out the logic and process the architects followed to design the options now being consulted on, a pack of illustrations showing these options, and a feedback form, on a dedicated page of the Vattenfall website at: www.vattenfall.co.uk/norfolksubstation

If you have any difficulties giving feedback using the material published online, please don't hesitate to get in touch by telephone, and we will provide appropriate support or an alternative way for you take part in the survey.

If you would like support in person, I will be at Necton Community Centre with Will Sealey on the dates shown below. We would be more than happy to help you review the materials and complete the feedback form.

Thank you. Your continued interest in the projects is much appreciated, and we look forward to hearing your views.

Kind regards

Denise Hone
Stakeholder & Community Engagement Manager
Norfolk Offshore Wind Zone



You can reach our Community Liaison Officer, Will Sealey, on 07773 661068
norfolk@vattenfall.com



Drop in events at Necton Community Centre, 13 Tuns Road, Necton, PE37 8EH
29/03 14:00 - 18:30
30/03 09:00 - 14:00

We would appreciate your feedback. Please scan the QR code to visit the website and have your say.



www.vattenfall.co.uk/norfolksubstation

Please note the design feedback survey closes on Wednesday 19th April 2023 and materials will not be available online after that date.

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Stay Connected Project Updates & Contact Info

If you would like more information about the Norfolk Zone projects or about Vattenfall, please use the buttons below to visit relevant pages of the website.

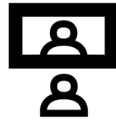
**Norfolk Offshore
Wind Zone
Website**



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**Register your interest
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**Norfolk Offshore
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Interactive Map**



**Send the Norfolk Zone
team an email
norfolk@vattenfall.com**

