The Great Grid Upgrade

Sea Link

SealLink

Volume 2: Plans and Drawings

Document 2.13: Design and Layout Plans

Planning Inspectorate Reference: EN020026

Version: A March 2025

Infrastructure Planning (Applications: Prescribed Forms and Procedure)

Regulations 2009 Regulation 5(2)(o)





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The Great Grid Upgrade

Sea Link

2.13.1 Design and Layout Plans - Suffolk



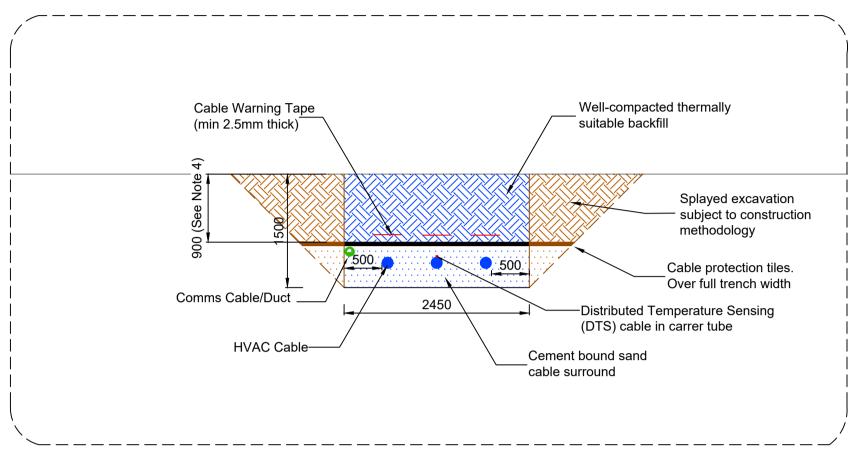


THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026

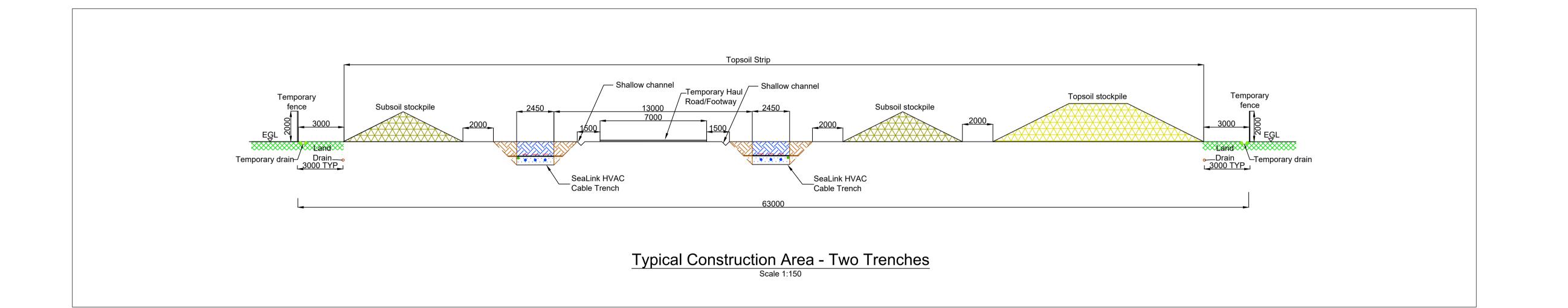
THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - SUFFOLK: TYPICAL SUFFOLK 400kV GIS SUBSTATION - SPR + SEA LINK - DOUBLE TURN-IN/OUT (AIS TERMINAL OPTION) REGULATION 5(2)(o) SHEET 1 OF 1	 This plan is scaled at paper size A1, therefore any prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against. These plans will sit within the Order Limits. Due to the need for future flexibility, National Grid will be applying for Order Limits and Limits of Deviation within its Development Consent Order, within which any final alignment would lie. Therefore, all aspects of the
NOMINAL SYSTEM VOLTAGEPHASE TO EARTHPHASE TO PHASESAFETY DISTANCE (FROM NATIONAL GRID SAFETY RULES)DESIGN CLEARANCE FOR SAFETY (VERTICAL) DsINSULATIC HEIGHT IhkVMMMMMMM	authorised development, including the cable alignment, converter stations, substations and pylon locations should be treated as indicative only. 3. For further information on construction please refer to the construction section of the Environmental
400 2.8 3.6 3.1 5.5 4.6 2.4 154000	Statement. 4. Reference should be made to the Guide to the Plans (Document Ref 2.1) which provides further information on what the plans show.
150000	5. Abbreviations AIS - Air Insulated Switchgear CVT - Capacitive Voltage Transformer GIS - Gas Insulated Switchgear
	CNI - Critical National Infrastructure LVAC - Low Voltage Alternating Current 6. It is anticipated that the 'existing' equipment shown
ACCESS ROAD ACCESS ROAD *	in black will be installed by Scottish Power Renewables (SPR) ahead of the Sea Link project installing the 'New equipment' shown in red. In the event that SPR do not undertake the works in advance Sea Link would
	construct the entire Substation. Application document 2.13.1 Legend
	—— X —— FENCE ———— EXISTING
	ID DESCRIPTION 01 400kV AIS CAPACITIVE VOLTAGE TRANSFORMER
2000 2500 5000 5000 5000 5000 5000 5000	02 400kV AIS EARTH SWITCH 03 400kV AIS SURGE ARRESTOR 04 400kV GIS / AIR BUSHING
	05 400kV GIS HALL 06 400kV ANNEX BUILDING
	07 HARDSTANDING AREA 08 AMENITIES BLOCK
	09 400kV GIS SURGE ARRESTOR 10 STORAGE 11 WORKSHOP
	12 EMERGENCY DIESEL GENERATOR 13 DIESEL TANK
* Y S000 S	14 PARKING 15 DISTRIBUTED RELAY ROOM (OFTO EA2)
. × (0) (1)	16 DISTRIBUTED RELAY ROOM (OFTO EA1N) 17 400kV PQ CAPACITIVE VOLTAGE TRANSFORMER 18 400kV CABLE SEALING END
	19 GANTRY 20 400kV INDUCTIVE VOLTAGE TRANSFORMER
X 12500 11000 9000 6500 10000 33100	
A THERY BOOM A LYAC SUPPLIES THE FORMS BOOM BOOM BOOM BOOM BOOM BOOM BOOM BO	
EXAMPLES DISTRIBUTION ROOM ROOM (BATTERY ROOM LVAC SUPPLIES DISTRIBUTION ROOM MESS ROOM ROOM ROOM MESS ROOM ROOM ROOM MESS ROOM ROOM ROOM ROOM ROOM ROOM ROOM RO	
ROOM LOBBY WC	
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18000 1800 1800 1800 1800 1800 1800 180	A 06/03/2025 For Submission AW SC JW Issue Date Remarks Drawn Checked Approved
-X - X - X - X - X - X - X - X - X - X	Title THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - SUFFOLK: TYPICAL SUFFOLK 400kV GIS SUBSTATION - SPR +
	SEA LINK - DOUBLE TURN-IN/OUT (AIS TERMINAL OPTION) REGULATION 5(2)(0) SHEET 1 of 1
ACCESS ROAD X	national grid
	Application Number EN020026 National Grid Drawing Reference DCO/S/DE/SS/1200
•	Scale Sheet Size Sheet Issue 1:250 A1 SHEET 1 OF 1 A

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THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - SUFFOLK: TYPICAL HVAC DIRECT BURIED CROSS SECTION AND CONSTRUCTION AREA REGULATION 5(2)(o) SHEET 1 OF 1



Direct Buried Cable Cross Section



Notes

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4. Depth of cover varies dependent on landowner agreement.

5. Reference should be made to the Guide to the Plans (Document Ref 2.1) which provides further information on what the plans show.

Application document 2.13.1

Well-compacted thermally suitable backfill

Legend

Well-compacted thermally suitable backfill (Splayed Excavation)

Cement-bound sand cable surround

(Splayed Excavation)

Cement-bound sand cable surround

Cable protection tiles

Cable warning tape

Topsoil stockpile

Subsoil stockpile

Existing Ground

Temporary Haul Road/ Footway

Sheet X Centroid Coordinate:

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Α	06/03/2025	For Submission	AW	SC	JW
Issue	Date	Remarks	Drawn	Checked	Approve
		00/00/2020	74 00/03/2025	7. 00/03/2023	7 00/00/2020 Avv 00

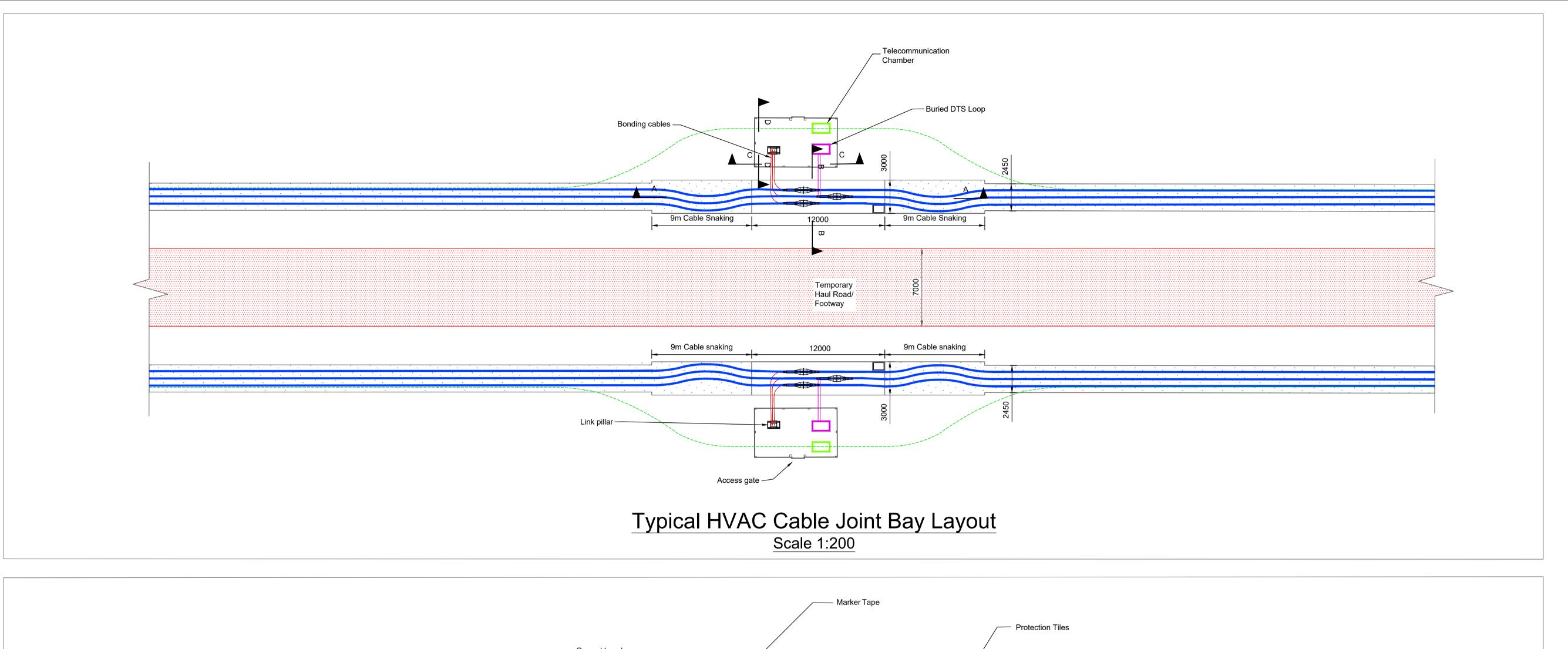
THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - SUFFOLK: TYPICAL HVAC DIRECT BURIED CROSS SECTION AND CONSTRUCTION AREA REGULATION 5(2)(o) SHEET 1 OF 1

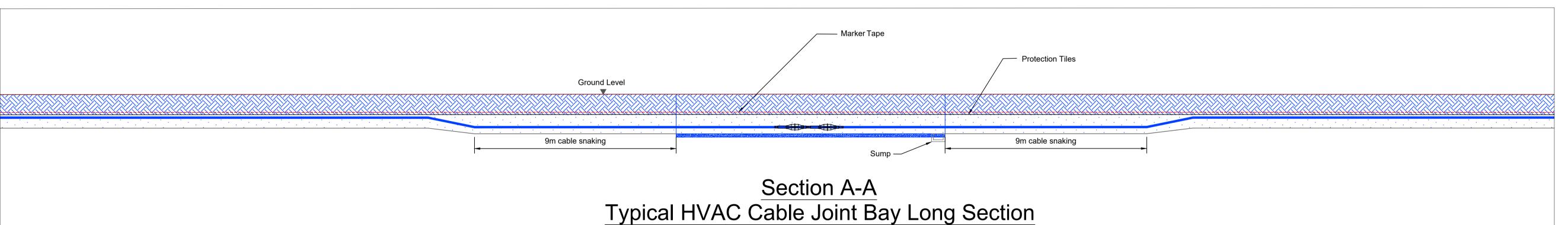
nationalgrid

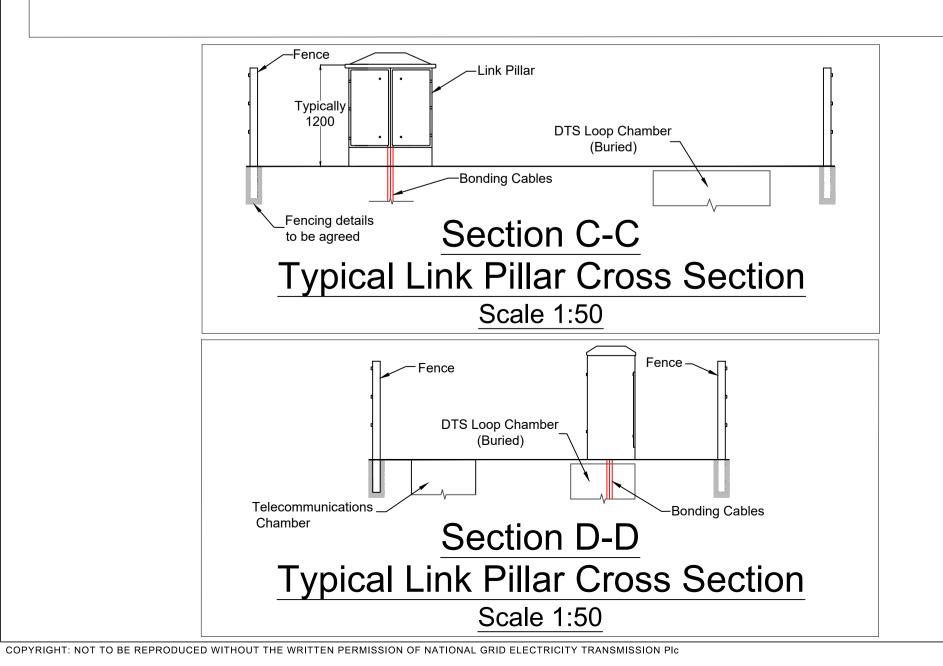
Application Number EN020026

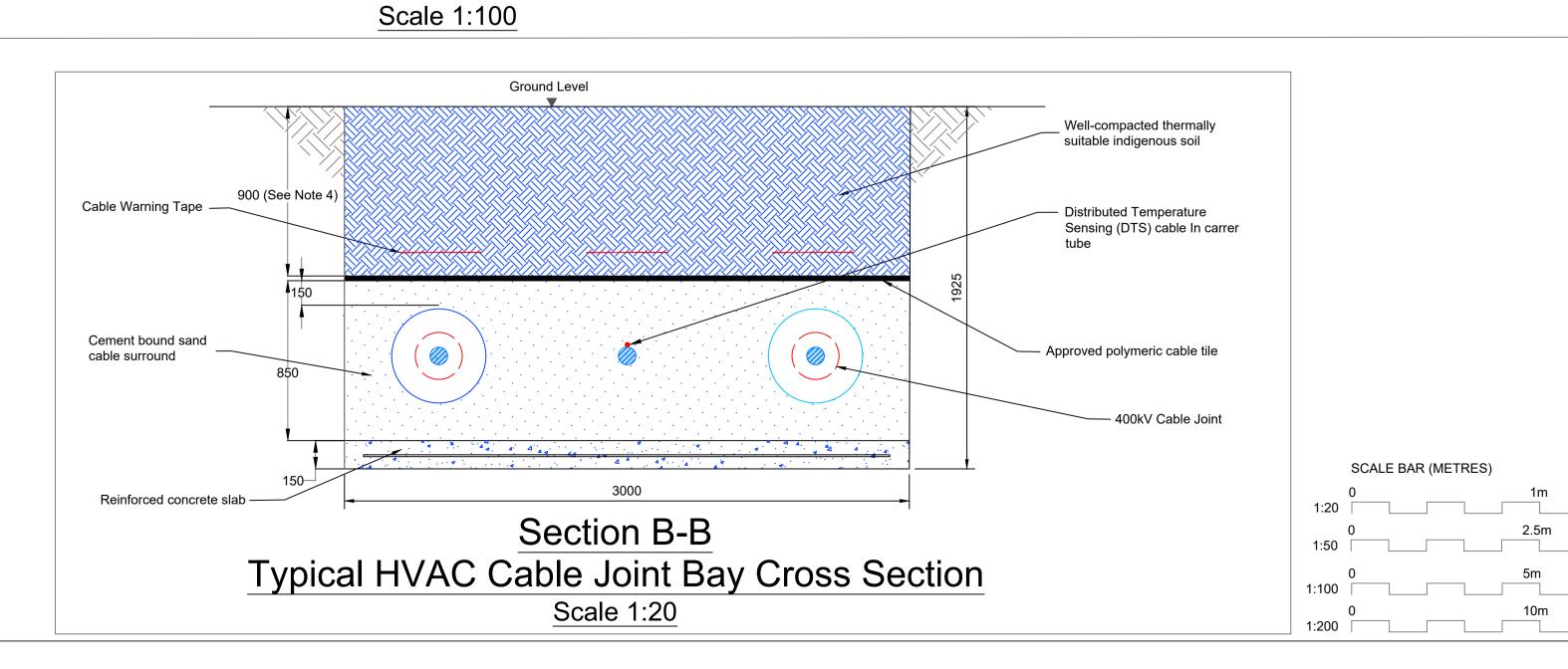
National Grid Drawing Reference DCO/S/DE/SS/1202 SHEET 1 OF 1 A AS SHOWN

THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - SUFFOLK: TYPICAL 400kV HVAC JOINT BAY ARRANGEMENT REGULATION 5(2)(o) SHEET 1 OF 1









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national**grid**

 Application Number

 EN020026

 National Grid Drawing Reference

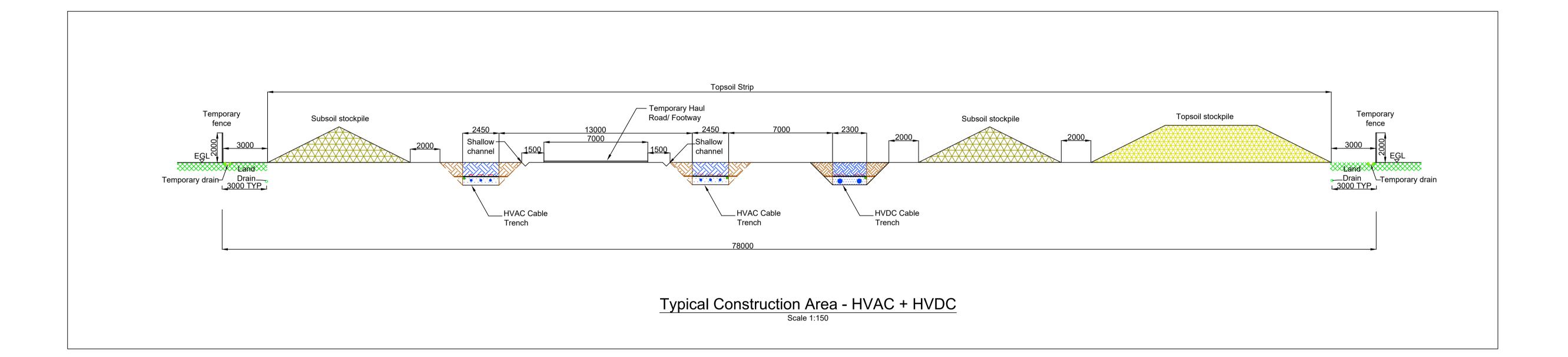
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 Scale
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 AS SHOWN
 A1
 SHEET 1 OF 1
 A

20m

THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - SUFFOLK: TYPICAL HVAC AND HVDC COMBINED CONSTRUCTION AREA REGULATION 5(2)(o) SHEET 1 OF 1



SCALE BAR (METRES)

0 7.5m 1:150

Notes

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3. For further information on construction please

3. For further information on construction please refer to the construction section of the Environmental Statement.

Application document 2.13.1

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Legend

Well-compacted thermally suitable backfill

Well-compacted thermally suitable backfill
(Splayed Excavation)

Cement-bound sand cable surround
(Splayed Excavation)

Cable protection tiles

Cable warning tape

Topsoil stockpile

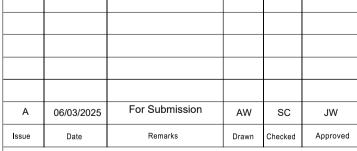
Subsoil stockpile

Existing Ground

Temporary Haul Road/ Footway

Sheet X Centroid Coordinate: Sheet Y Centroid Coordinate:

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Title

THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - SUFFOLK: TYPICAL HVAC AND HVDC COMBINED CONSTRUCTION AREA REGULATION 5(2)(o) SHEET 1 OF 1

national**grid**

Application Number

EN020026

National Grid Drawing Reference

 DCO/S/DE/SS/1204

 Scale
 Sheet Size
 Sheet
 Issue

 AS SHOWN
 A1
 SHEET 1 OF 1
 A



THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - SUFFOLK: TYPICAL SUFFOLK CONVERTER STATION LAYOUT PLAN (GIS) REGULATION 5(2)(o)

SHEET 1 of 1

NOMINAL SYSTEM VOLTAGE	TO	ТО	SAFETY DISTANCE (FROM NATIONAL GRID SAFETY RULES)	DESIGN CLEARANCE FOR SAFETY (VERTICAL) Ds	DESIGN CLEARANCE FOR SAFETY (HORIZONTAL) Dsh	INSULATIC HEIGHT Ih
kV	М	М	M	M	M (SEE POINT ii FROM NOTE 10)	М
400	2.8	3.6	3.1	5.5	4.6	2.4

applying for Order Limits and Limits of Deviation within its Development Consent Order, within which any final alignment would lie. Therefore, all aspects of the authorised development, including the cable alignment,

Notes

converter stations, substations and pylon locations should be treated as indicative only. 3. For further information on construction please refer to the construction section of the Environmental

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to the need for future flexibility, National Grid will be

4. Reference should be made to the Guide to the Plans (Document Ref 2.1) which provides further information on what the plans show.

Abbreviations PIR -Pre-Insertion Resistor

CAP -Capacitor

Resistor

REA -Reactor PI -Post Insulator CT -**Current Transformer**

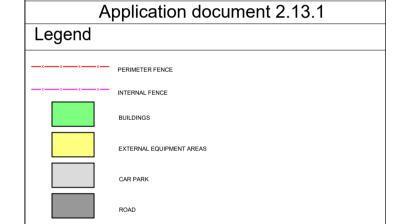
Capacitive Voltage Transformer CVT -ES -Earth Switch SA Surge Arrester

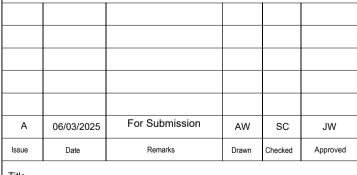
Portable Relay Room Local Control Cubicle Air Handling Unit AHU -

Distribution Network Operator Power Line Carrier PLC -

Emergency Diesel Generator

Elevation sections relate to DCO/S/DE/SS/1207 SH1 & DCO/S/DE/SS/1208 SH2.





THE NATIONAL GRID (SEA LINK) ORDER

PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - SUFFOLK: TYPICAL SUFFOLK CONVERTER STATION LAYOUT PLAN (GIS)

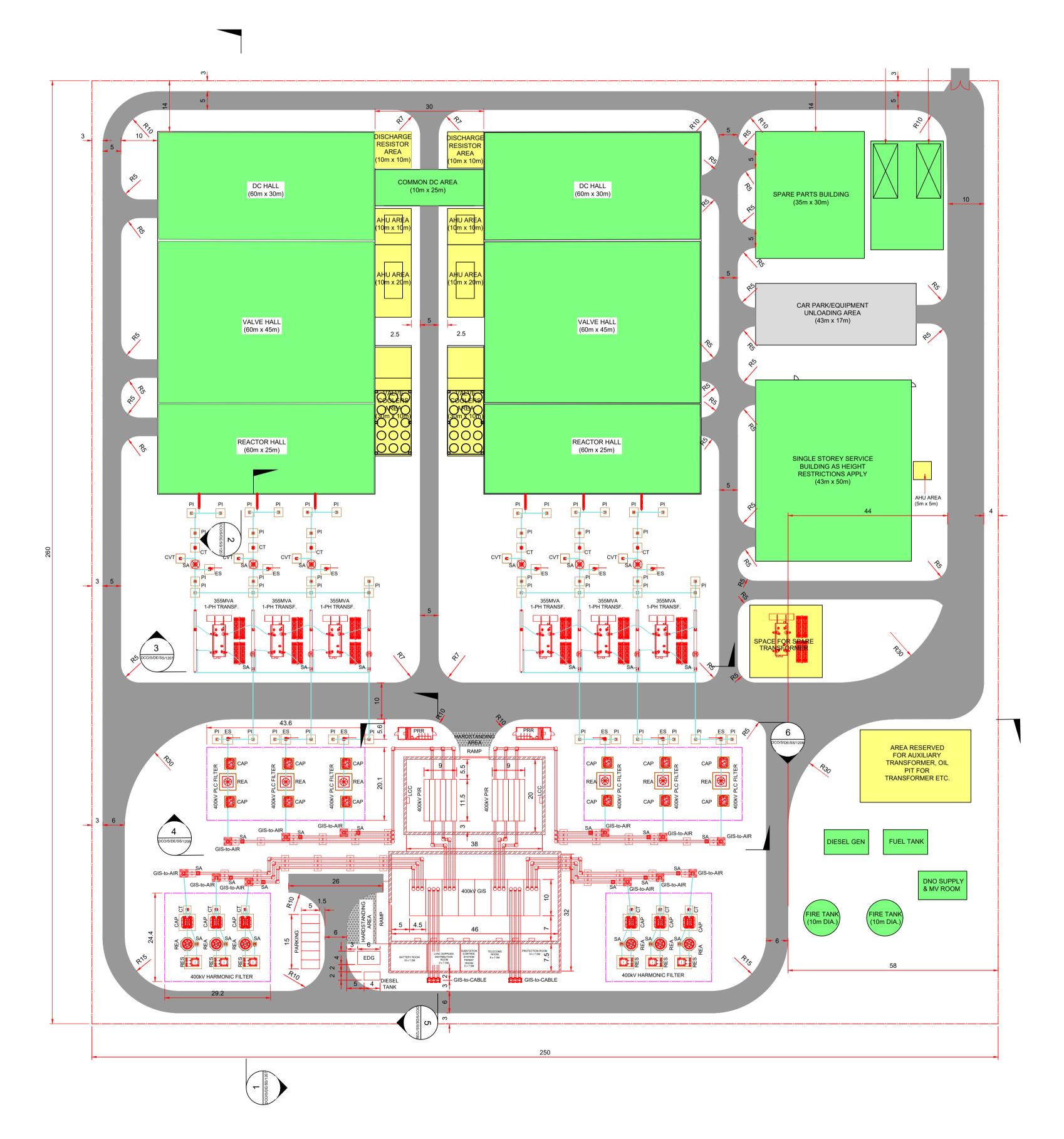
REGULATION 5(2)(o) SHEET 1 of 1

nationalgrid

Application Number

EN020026 National Grid Drawing Reference DCO/S/DE/SS/1205

SHEET 1 OF 1 A



THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026

OVERHEAD GANTRY

4700

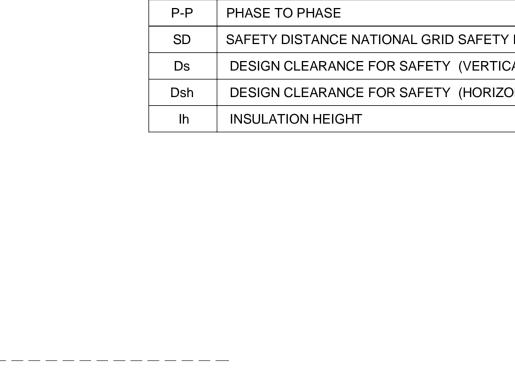
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DESIGN AND LAYOUT PLANS - SUFFOLK: TYPICAL SUFFOLK 400kV GIS SUBSTATION - ELEVATION DRAWING

REGULATION 5(2)(o) SHEET 1 of 1

SUBSTATION MINIMUM ELECTRICAL CLEARANCES SYSTEM VOLTAGE REF CLEARANCE (mm) 400kV P-E PHASE TO EARTH 2800 P-P PHASE TO PHASE 3600 SAFETY DISTANCE NATIONAL GRID SAFETY RULES DESIGN CLEARANCE FOR SAFETY (VERTICAL) 5500 DESIGN CLEARANCE FOR SAFETY (HORIZONTAL) 4600 2400



SITE FINISH LEVEL (SFL)

+5.030 m

2500

FENCE

5000

ROAD

14)

12610

(13)

10

1830

750

4000

7420

750



1590 3350 2250 3000

750

4500

3320

3270

8660

8660

2500

FENCE

5000

ROAD

6000

3000

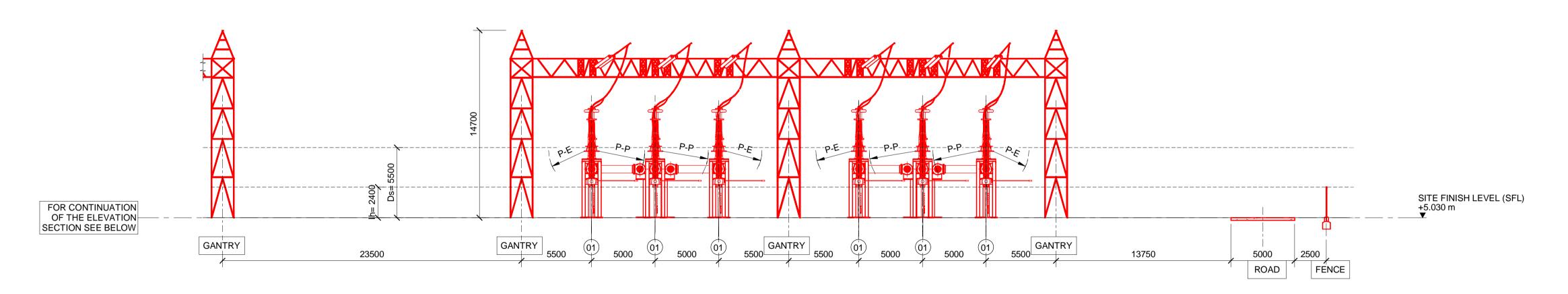
01

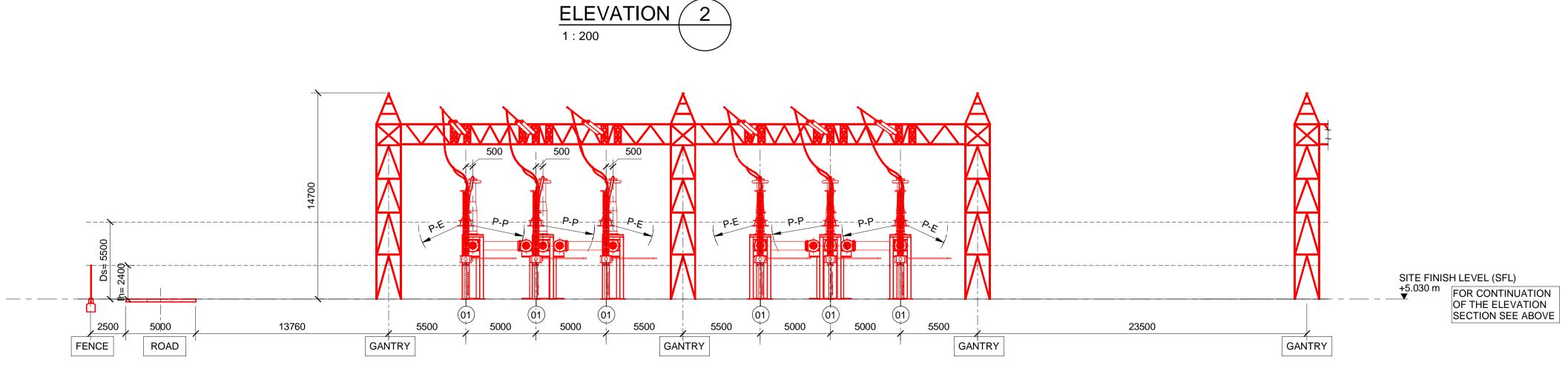
3400

GANTRY

400 kV GIS

11500





ELEVATION (3) 1:200

Notes

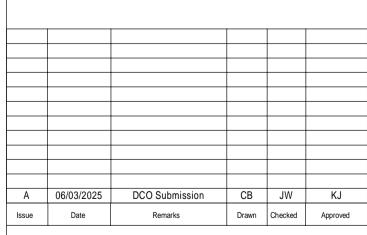
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- authorised development, including the cable alignment, converter stations, substations and pylon locations should be treated as indicative only.
- For further information on construction please refer to the construction section of the Environmental Statement.
- Reference should be made to the Guide to the Plans (Document Ref 2.1) which provides further information on what the plans show.
- ABBREVIATION PLC - POWER LINE CARRIER
- AIS AIR INSULATED SWITCHGEAR CVT - CAPACITIVE VOLTAGE TRANSFORMER
- GIS GAS INSULATED SWITCHGEAR
- PIR PRE INSERTION RESISTOR LCC LOCAL CONTROL CUBICLE PH - PHASE
- GIB GAS INSULATED BUSDUCT

Application document 2.13.1

Legend

New Equipment

Equipment Schedule				
Item Description				
01	400kV AIS SURGE ARRESTOR			
02	400kV AIS EARTH SWITCH			
03	400kV AIS CVT			
04	400kV GIS / AIR BUSHING			
05	AMENITIES BUILDING			
10	WORKSHOP			
13	400 kV HARMONIC FILTER - CURRENT TRANSFORMER			
14	400 kV HARMONIC FILTER - CAPACITOR			



THE NATIONAL GRID (SEA LINK) ORDER

PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - SUFFOLK: TYPICAL SUFFOLK 400kV GIS SUBSTATION -**ELEVATION DRAWING** REGULATION 5(2)(o)

SHEET 1 of 1

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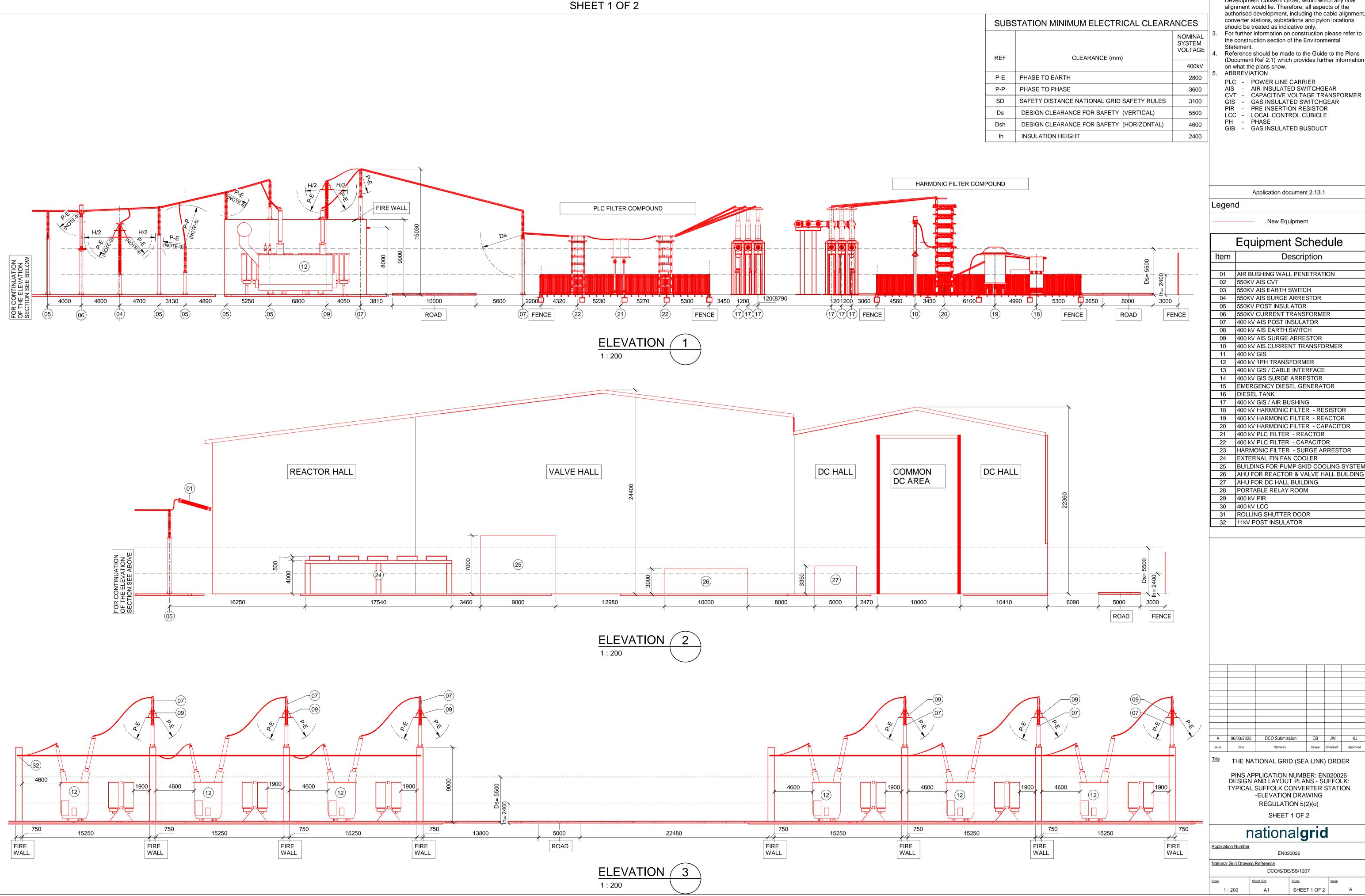
ational Grid Drawing Reference	
DCO/S/DE/SS/1206	

SHEET 1 of 1 A

THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026

DESIGN AND LAYOUT PLANS - SUFFOLK: TYPICAL SUFFOLK CONVERTER STATION -ELEVATION DRAWING

REGULATION 5(2)(o) SHEET 1 OF 2



Notes

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 - Reference should be made to the Guide to the Plans (Document Ref 2.1) which provides further information

Item	Description
01	AIR BUSHING WALL PENETRATION
02	550KV AIS CVT
03	550KV AIS EARTH SWITCH
04	550KV AIS SURGE ARRESTOR
05	550KV POST INSULATOR
06	550KV CURRENT TRANSFORMER
07	400 kV AIS POST INSULATOR
08	400 kV AIS EARTH SWITCH
09	400 kV AIS SURGE ARRESTOR
10	400 kV AIS CURRENT TRANSFORMER
11	400 kV GIS
12	400 kV 1PH TRANSFORMER
13	400 kV GIS / CABLE INTERFACE
14	400 kV GIS SURGE ARRESTOR
15	EMERGENCY DIESEL GENERATOR
16	DIESEL TANK
17	400 kV GIS / AIR BUSHING
18	400 kV HARMONIC FILTER - RESISTOR
19	400 kV HARMONIC FILTER - REACTOR
20	400 kV HARMONIC FILTER - CAPACITOR
21	400 kV PLC FILTER - REACTOR
22	400 kV PLC FILTER - CAPACITOR
23	HARMONIC FILTER - SURGE ARRESTOR
24	EXTERNAL FIN FAN COOLER
25	BUILDING FOR PUMP SKID COOLING SYSTEM
26	AHU FOR REACTOR & VALVE HALL BUILDING
27	AHU FOR DC HALL BUILDING
28	PORTABLE RELAY ROOM
29	400 kV PIR
30	400 kV LCC
31	ROLLING SHUTTER DOOR

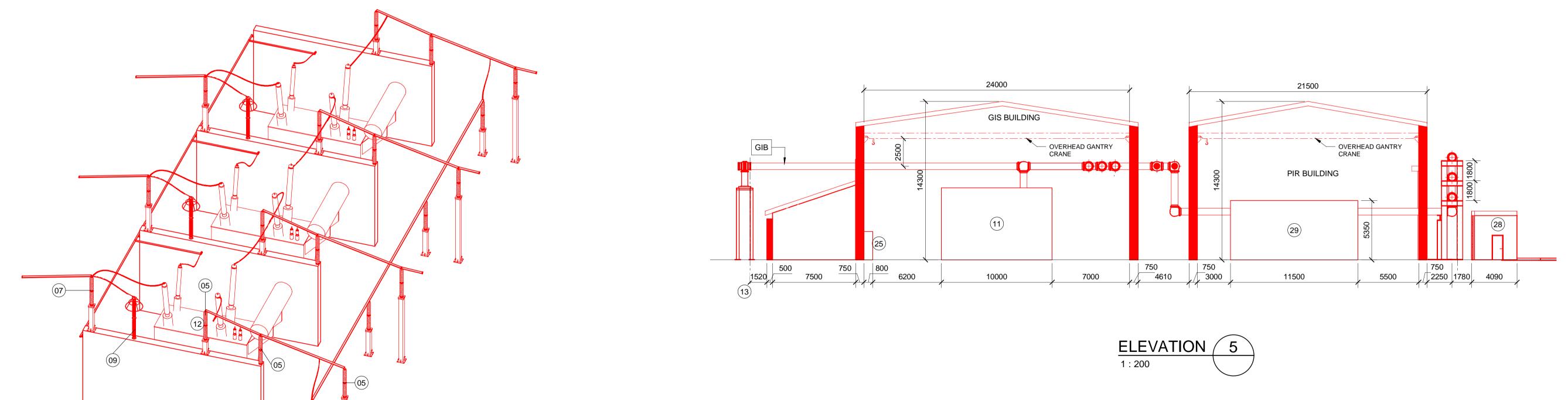


THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026

DESIGN AND LAYOUT PLANS - SUFFOLK: TYPICAL SUFFOLK CONVERTER STATION -ELEVATION DRAWING

REGULATION 5(2)(o) SHEET 2 OF 2





1:200

Transformer Area ISO View

7000 5880 3000 7090 5910 3000 7090 6450 1940 7500 5890 GIB SUPPORT GIB SUPPORT

ELEVATION 6 1:200

PIR BUILDING

14330

GIB SUPPORT

Notes

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 ABBREVIATION
- PLC POWER LINE CARRIER
 AIS AIR INSULATED SWITCHGEAR
- CVT CAPACITIVE VOLTAGE TRANSFORMER
- GIS GAS INSULATED SWITCHGEAR
- PIR PRE INSERTION RESISTOR
- LCC LOCAL CONTROL CUBICLE
- GIB GAS INSULATED BUSDUCT

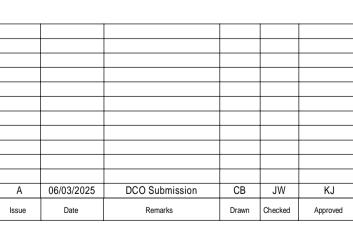
Application document 2.13.1

Legend

New Equipment

Equipment Schedule

	• •
Item	Description
01	AIR BUSHING WALL PENETRATION
02	550KV AIS CVT
03	550KV AIS EARTH SWITCH
04	550KV AIS SURGE ARRESTOR
05	550KV POST INSULATOR
06	550KV CURRENT TRANSFORMER
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16	DIESEL TANK
17	400 kV GIS / AIR BUSHING
18	400 kV HARMONIC FILTER - RESISTOR
19	400 kV HARMONIC FILTER - REACTOR
20	400 kV HARMONIC FILTER - CAPACITOR
21	400 kV PLC FILTER - REACTOR
22	400 kV PLC FILTER - CAPACITOR
23	HARMONIC FILTER - SURGE ARRESTOR
24	EXTERNAL FIN FAN COOLER
25	BUILDING FOR PUMP SKID COOLING SYSTEM
26	AHU FOR REACTOR & VALVE HALL BUILDING
27	AHU FOR DC HALL BUILDING
28	PORTABLE RELAY ROOM
29	400 kV PIR
30	400 kV LCC
31	ROLLING SHUTTER DOOR
32	11kV POST INSULATOR



THE NATIONAL GRID (SEA LINK) ORDER

PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - SUFFOLK: TYPICAL SUFFOLK CONVERTER STATION -ELEVATION DRAWING REGULATION 5(2)(0)

SHEET 2 OF 2



Application Number

GIB SUPPORT

7500

GIB SUPPORT

EN020026

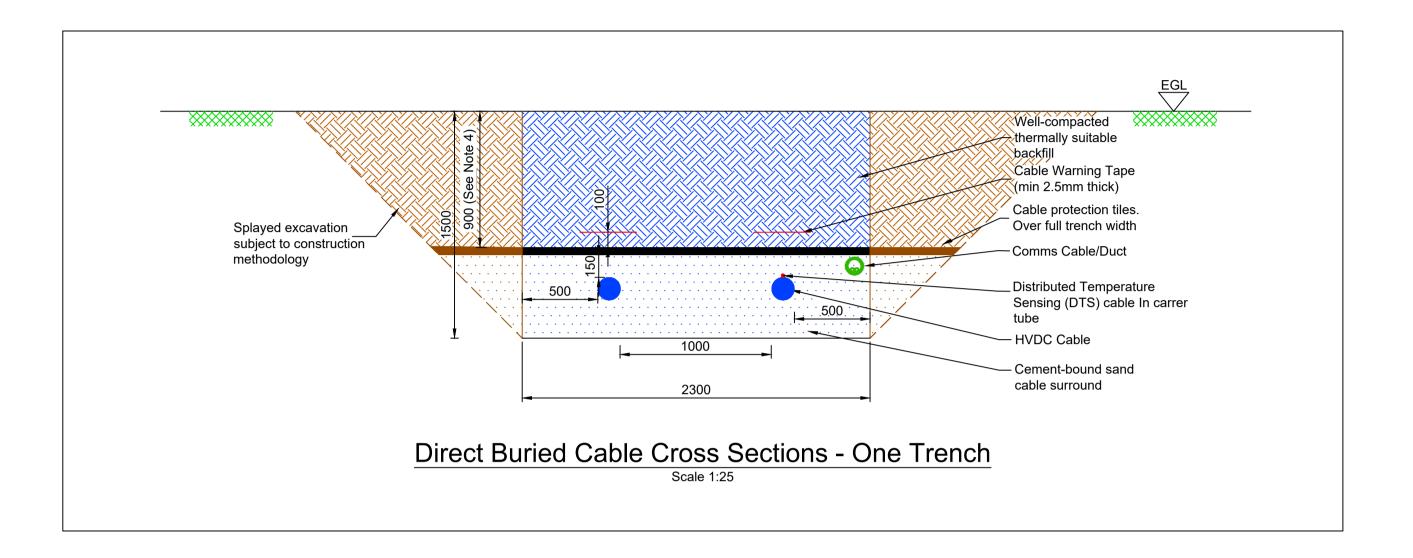
National Grid Drawing Reference

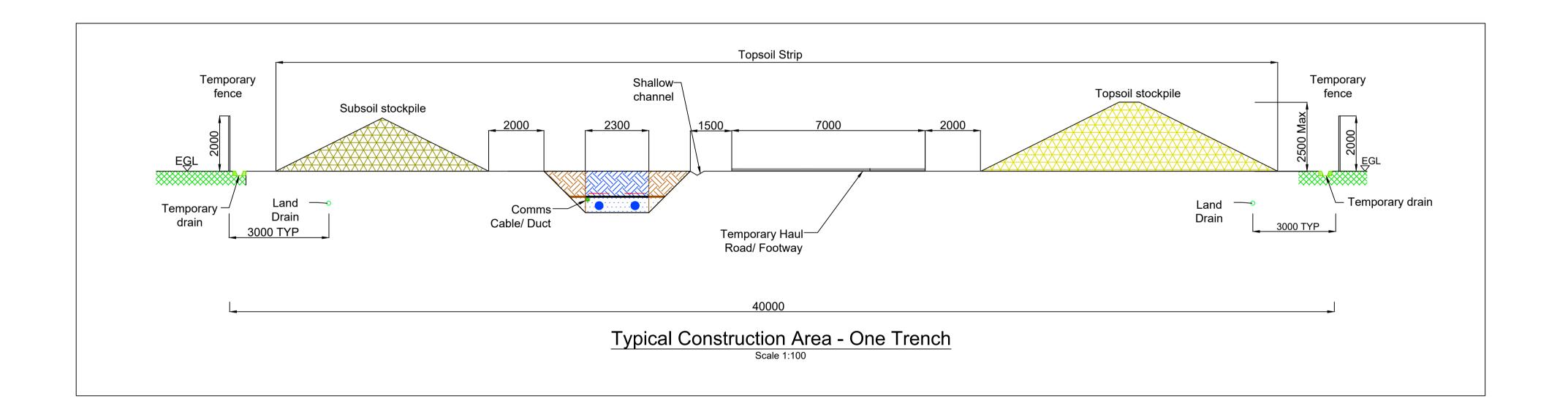
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 Sheet Size
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 1:200
 A1
 SHEET 2 OF 2
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THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - SUFFOLK: TYPICAL HVDC DIRECT BURIED CABLE CROSS SECTION AND CONSTRUCTION AREA REGULATION 5(2)(o) SHEET 1 OF 1





Notes

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4. For further information on construction please refer to the construction section of the Environmental Statement.

5. Depth of cover varies dependent on landowner agreement.

Application document 2.13.1

Legend

Well-compacted thermally suitable backfill
(Splayed Excavation)

Cement-bound sand cable surround
(Splayed Excavation)

Cable protection tiles

Cable warning tape

Topsoil stockpile

Subsoil stockpile

Existing Ground

Temporary Haul Road/ Footway

Sheet X Centroid Coordinate: Sheet Y Centroid Coordinate:

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A 06/03/2025 For Submission AW SC JW

Issue Date Remarks Drawn Checked Approved

Title

THE NATIONAL GRID (SEA LINK) ORDER
PINS APPLICATION NUMBER: EN020026
DESIGN AND LAYOUT PLANS - SUFFOLK:
TYPICAL HVDC DIRECT BURIED CABLE
CROSS SECTION AND CONSTRUCTION AREA
REGULATION 5(2)(0)
SHEET 1 OF 1

nationalgrid

 Application Number

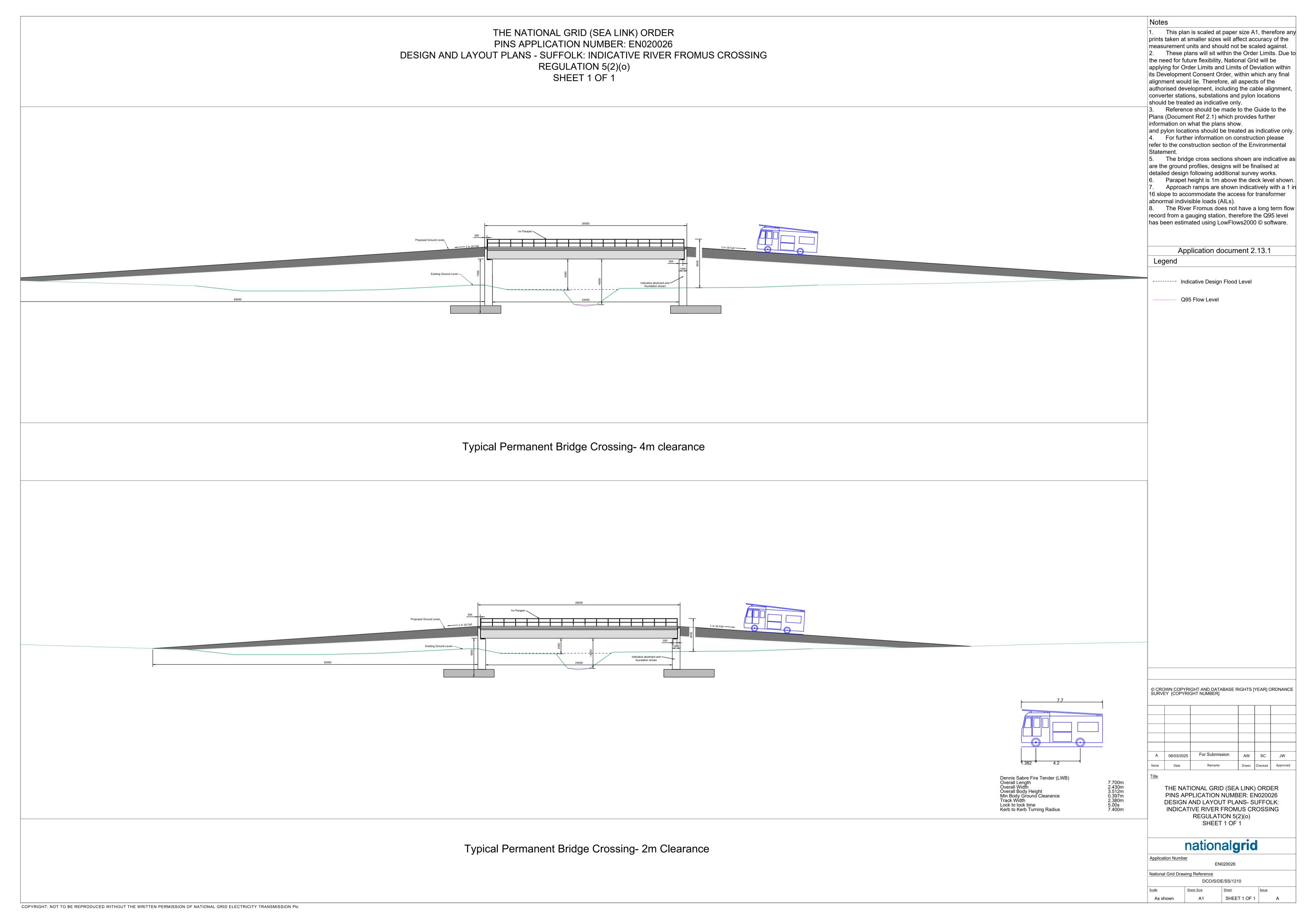
 EN020026

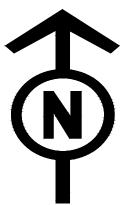
 National Grid Drawing Reference

 DCO/S/DE/SS/1209

 Scale
 Sheet Size
 Sheet
 Issue

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 A1
 SHEET 1 OF 1
 A





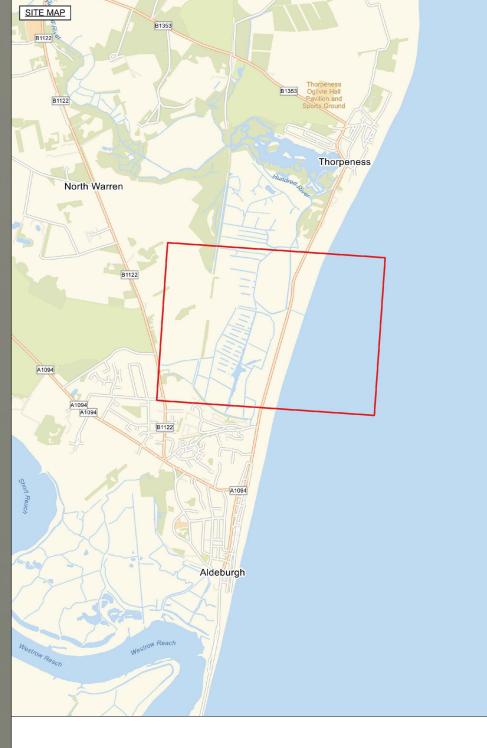
THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026



Notes

- 6. For further information on construction phase, please

Application Document 2.13.1



Indicative Sea Link HDD Alignment

Indicative HDD Alignment - spare duct

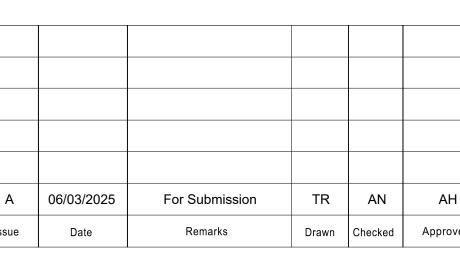
Indicative HDD Work Area

____ Limit of deviation: Underground cables

Limit of deviation: High Voltage
Direct Current (HVDC) marine cables

Mean Low Water Springs (MLWS)

Sheet X Centroid Coordinate: N/A Sheet Y Centroid Coordinate: N/A

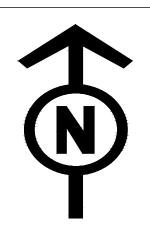


THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026

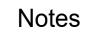
DESIGN AND LAYOUT PLANS - SUFFOLK INDICATIVE HORIZONTAL DIRECTION DRILL SOLUTION ALDEBURGH REGULATION 5(2)(o)
SHEET 1 of 1

nationalgrid

SHEET 1 OF 1

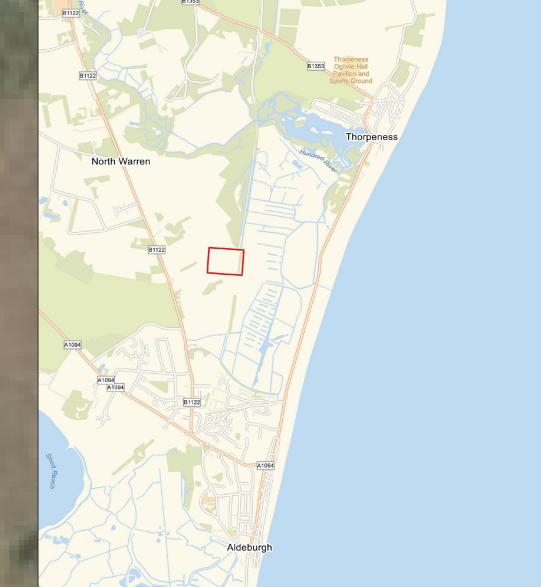


THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - SUFFOLK INDICATIVE LAYOUT OF HDD CONSTRUCTION COMPOUND ALDEBURGH REGULATION 5(2)(o) SHEET 1 of 1



- 1. Do not scale from this drawing.
- This drawing is to be read in conjunction with all relevant documents and drawings.
- No unauthorised disclosure, storage or copying.
 Detailed design, including final dimensions, to be decided at a later date.
 For further explanation of these plans see the Guide to the Plans Document.
- For further information on construction phase, please refer to the construction section of the Environmental
- Statement.
- Background Bing Maps aerial photography from AutoCAD application, © 2019 Microsoft.
 For indicative HDD alignments see Drawing No. DCO/S/DE/SS/1211
 HDD = Horizontal Directional Drill.





Legend

Indicative Sea Link HDD Alignment Indicative HDD Alignment - spare duct

Indicative HDD Work Area

Order Limit

____ Limit of deviation: Underground cables

Limit of deviation: High Voltage
Direct Current (HVDC) marine cables

Sheet X Centroid Coordinate: N/A Sheet Y Centroid Coordinate: N/A

Title THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026

DESIGN AND LAYOUT PLANS - SUFFOLK INDICATIVE LAYOUT OF HDD CONSTRUCTION COMPOUND ALDEBURGH REGULATION 5(2)(o) SHEET 1 of 1

nationalgrid

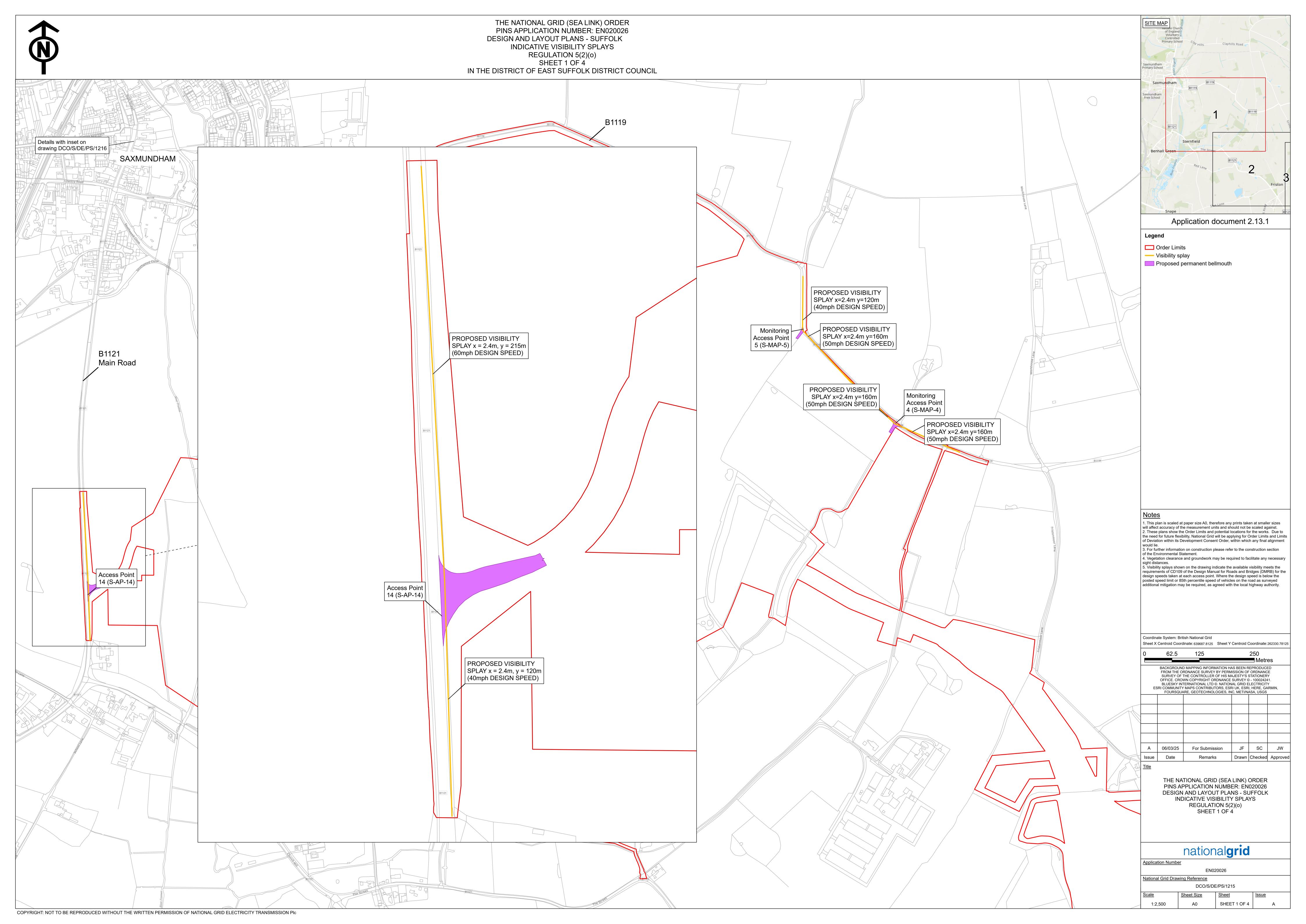
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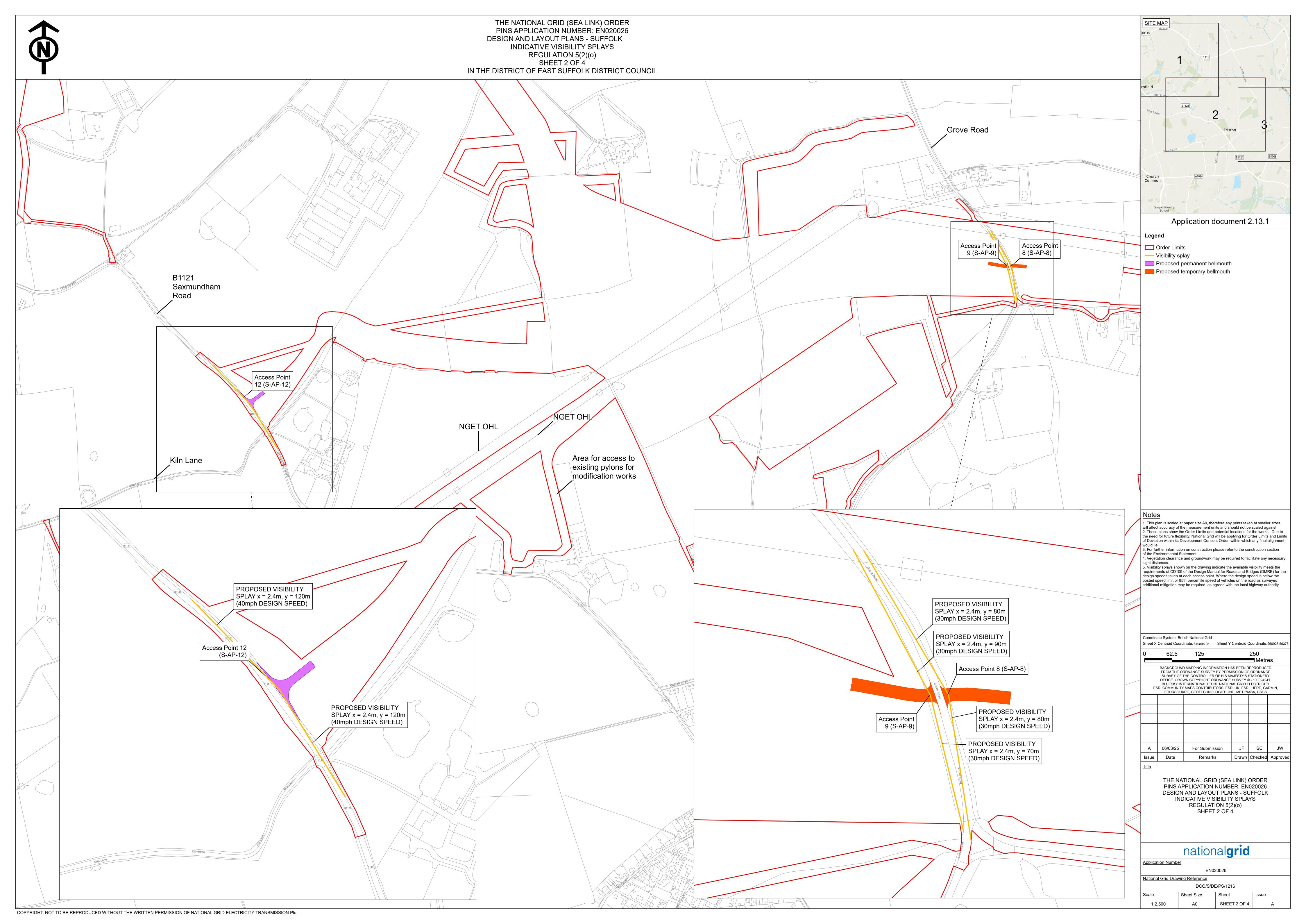
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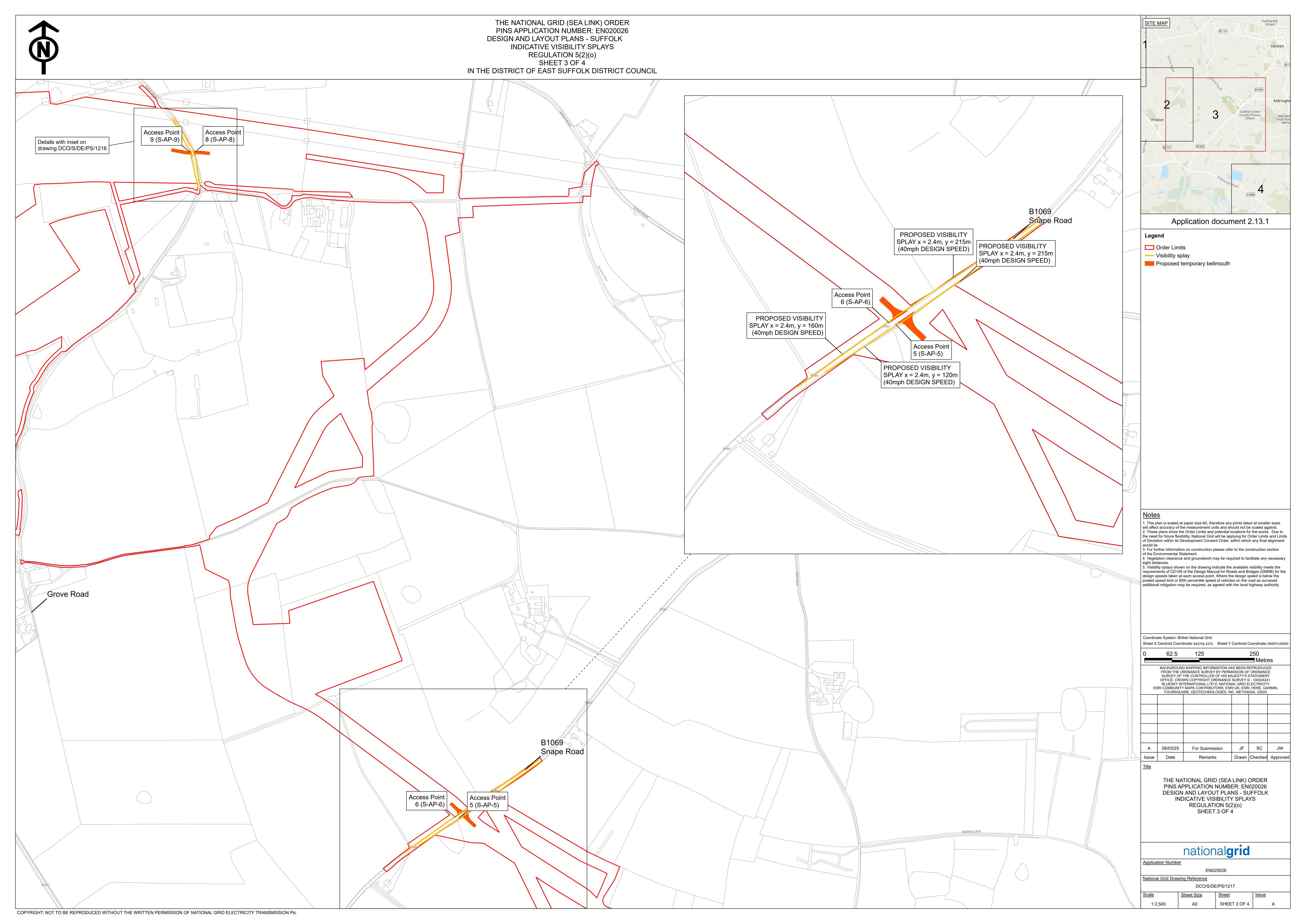
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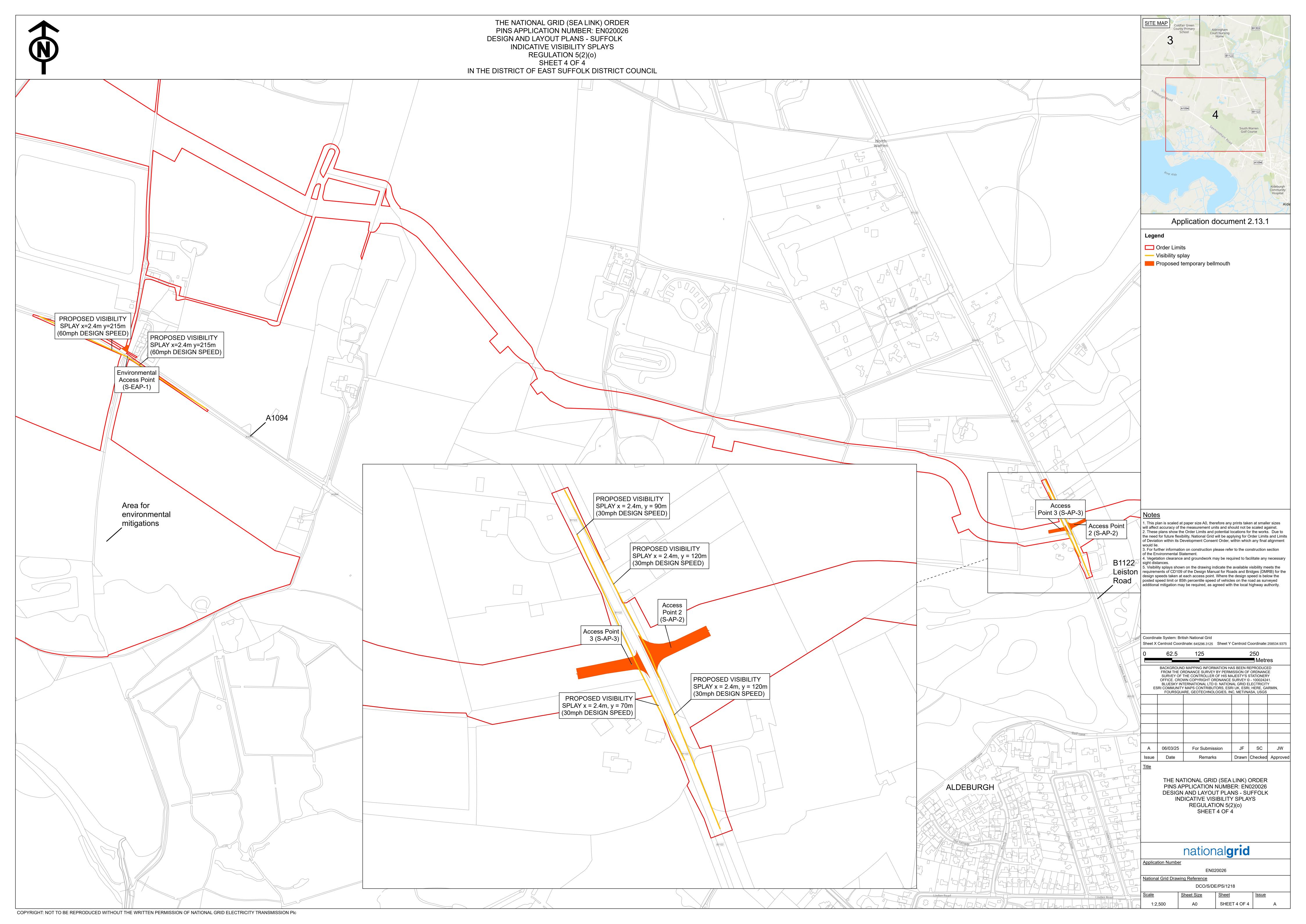
National Grid Drawing Reference

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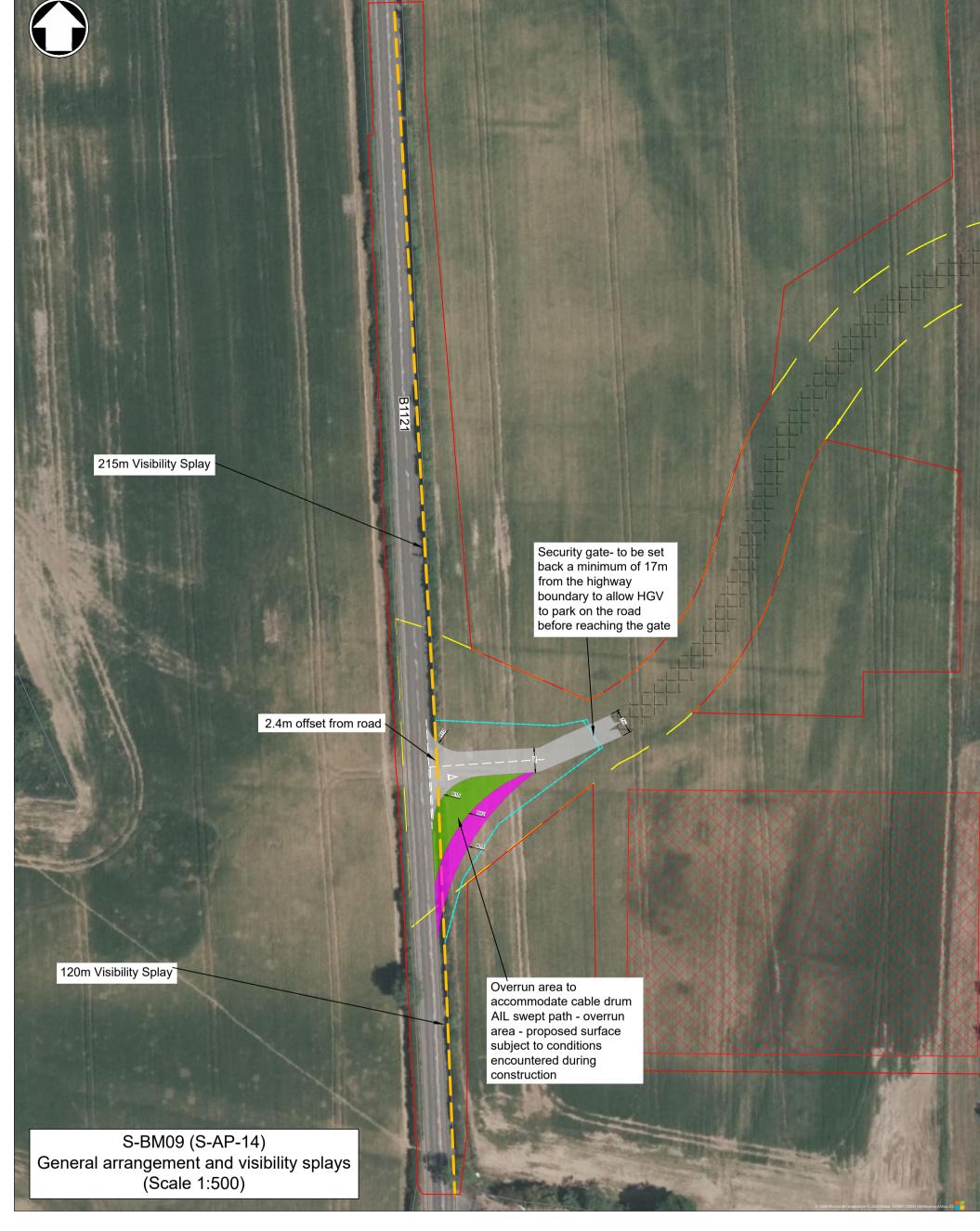


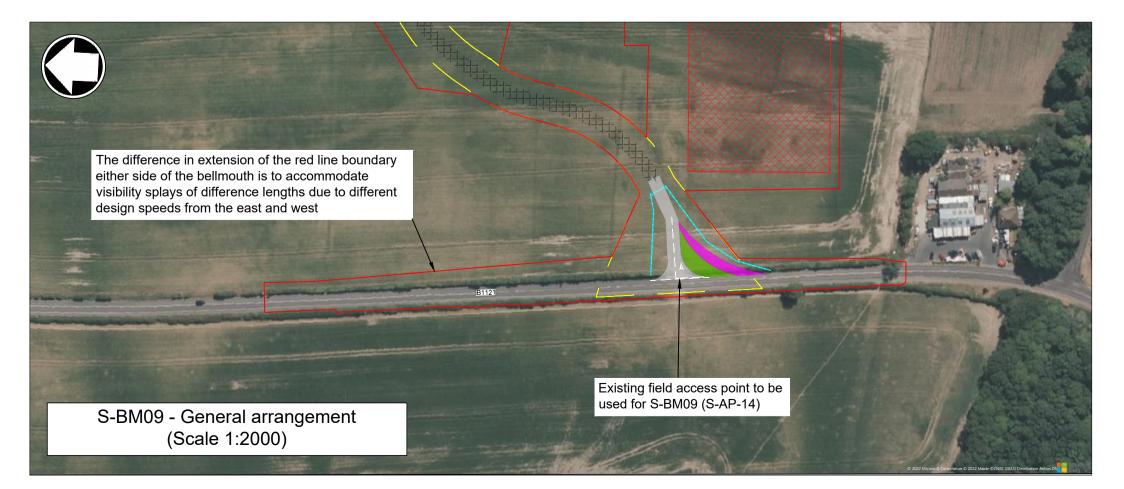


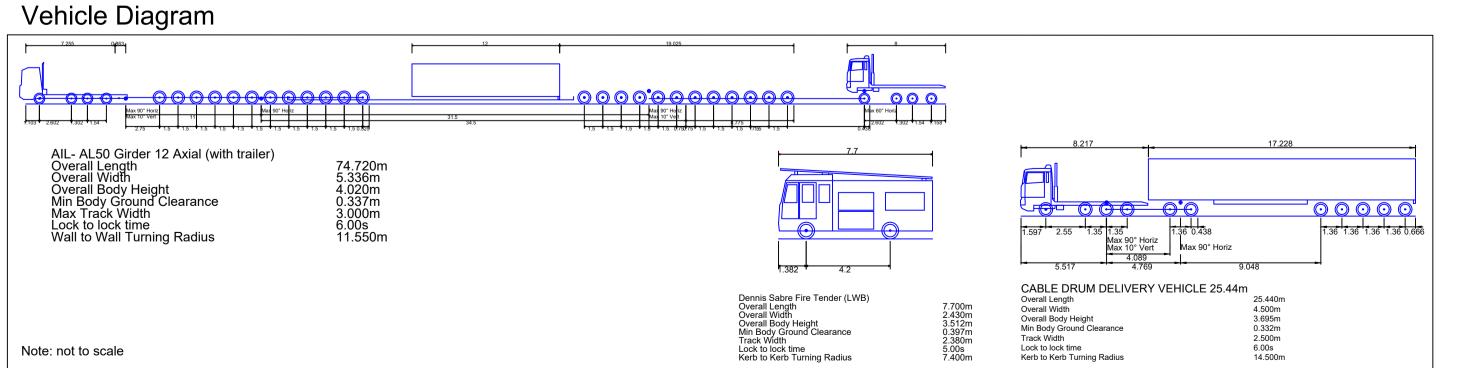
THE NATIONAL GRID (SEALINK) ORDER PINS APPLICATION NUMBER: EN020026 **DESIGN AND LAYOUT PLANS - SUFFOLK:** INDICATIVE BELLMOUTH ACCESS ARRANGEMENT S-BM09 (S-AP-14) REGULATION 5(2)(o) SHEET 1 OF 1











1:2000

- 1. This drawing is for development purposes only and should not be used for construction.
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- 4. Proposed arrangements shown for indicative purposes only. Dimensions and design may vary following
- completion of site surveys and the detailed design. This plan is scaled at paper size A1, therefore any prints taken at smaller sizes will affect accuracy of the
- measurement units and should not be scaled against. Alignment/specification of fencing and gates subject to site conditions and contractor requirements.
- Vegetation clearance and groundwork may be required to facilitate any necessary sight distances.
- 8. The vehicles used in this drawing are indicative of those expected to be using this construction access. Actual turning radii and vehicle track will depend on the precise vehicles used by the works contractor.
- 9. Where required by the local highways authority, the proposed junction will be controlled by traffic signals designed and installed in accordance with Chapter 6 of the Traffic Signs Manual. Appropriate warning signage will be used where necessary.
- 10. Visibility splays shown on the drawing indicate the visibility currently available on site based on Stopping Sight Distance (SSD) as per CD 109 of the DMRB. 11. The road currently has a 40mph speed limit from
- south to north and 60mph limited form north to south requiring a SSD of 120m and 215m respectfully, which is currently available on site. Some vegetation clearance may be required.
- 12. Cable deliveries are expected to require use of additional lanes and will require traffic control
- 13. For construction of the bellmouth, it is anticipated that temporary carriageway narrowing and traffic signals will be installed. 14. Fencelines to tie into existing fenceline, hedgerow and
- wall where appropriate. 15. Vehicles considered for the swept path analysis do not
- incorporate rear axles steering. 16. Overrun areas illustrated are needed for AIL movement only. As AIL movement is infrequent, surfacing requirements may vary though are likely to either be: stone surfacing, grasscrete surfacing, or

temporary matting (or similar). This will be determined at a later stage of design once a Contractor has been

- 17. Bellmouth drawings have been aligned to OS mapping (aerial imagery has been shown for context).
- 18. Reference should be made to the Guide to the Plans (Document Ref 2.1) which provides further

Application document 2.13.1

Legend Bellmouth General Arrangement

Overrun Area of vehicle tracking wheel path

Security Gate New Fence

Highway Visibility Splay (see note 10)

Permanent Access Limit of deviation

Order Limits

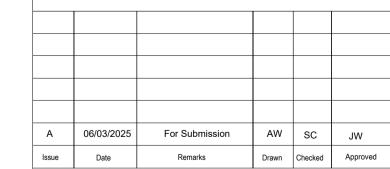
Proposed Permanent Access

Overrun Area - Vehicle Overhang

Construction compound Vehicle Tracking Chassis Outline Swept Path

Vehicle Tracking Body Outline Swept Path

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THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - SUFFOLK: INDICATIVE BELLMOUTH ACCESS ARRANGEMENT S-BM09 (S-AP-14) REGULATION 5(2)(o)

SHEET 1 OF 1

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Application Number EN020026

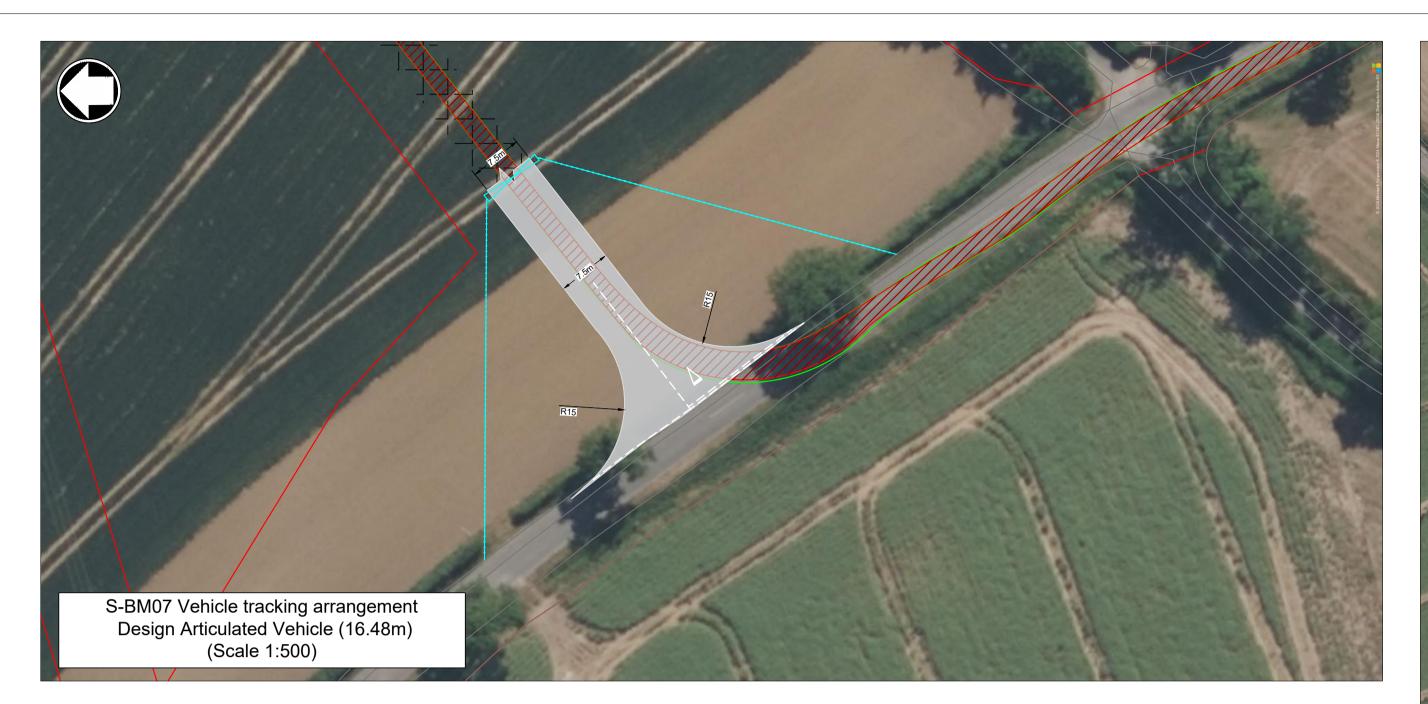
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SHEET 1 OF 1

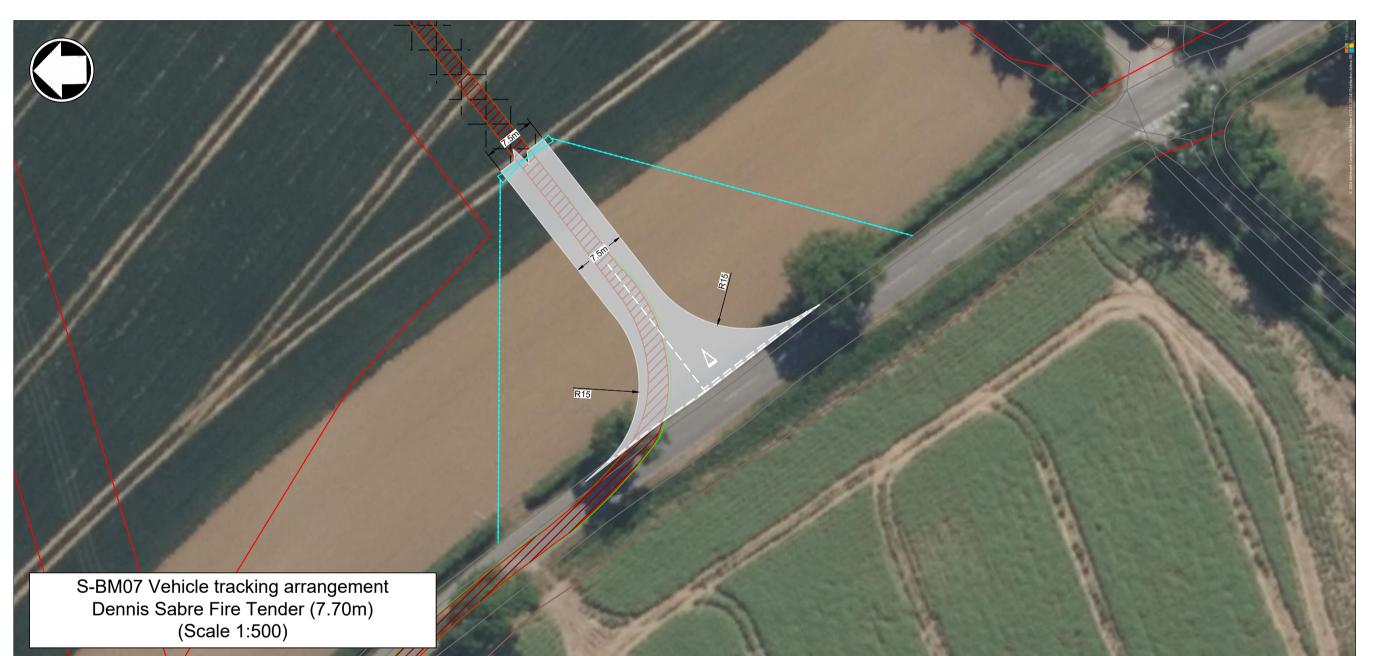
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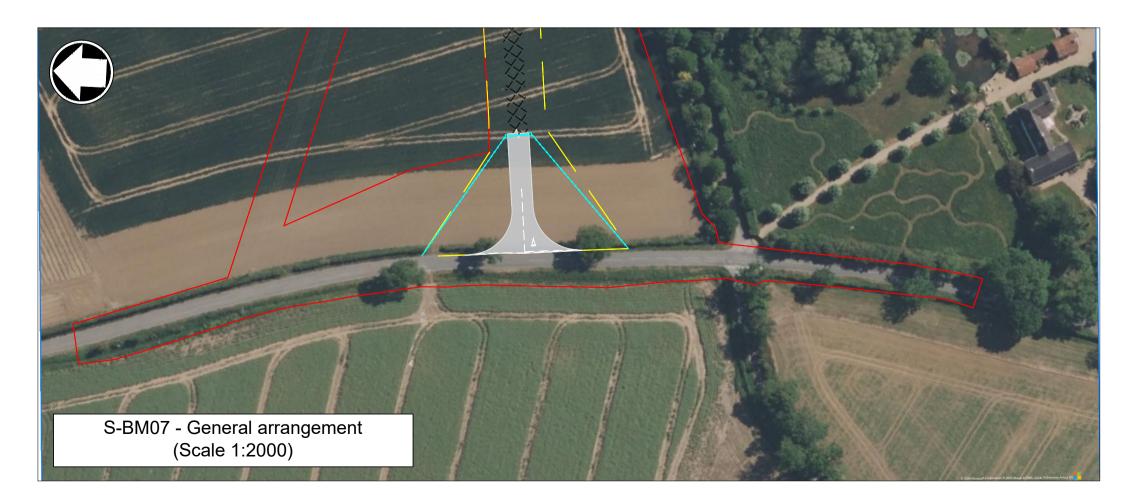
INDICATIVE BELLMOUTH ACCESS ARRANGEMENT S-BM07 (S-AP-12)

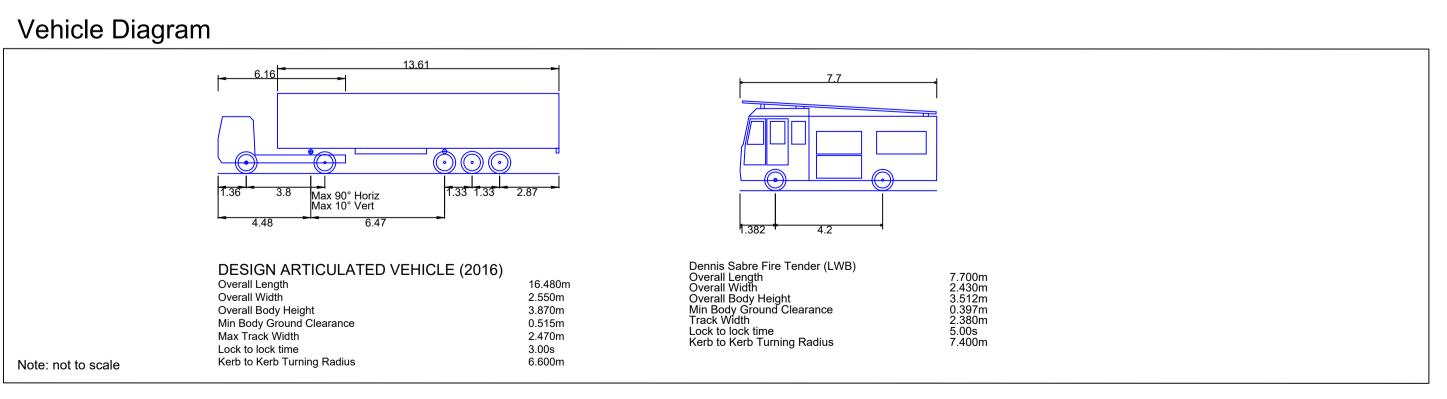
REGULATION 5(2)(o) SHEET 1 OF 1











Notes

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- drawing. 4. Proposed arrangements shown for indicative purposes only. Dimensions and design may vary following completion of site surveys and the detailed
- 5. This plan is scaled at paper size A1, therefore any prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against.
- 6. Alignment/specification of fencing and gates subject to site conditions and contractor requirements.
- 7. Vegetation clearance and groundwork may be
- required to facilitate any necessary sight distances.

 8. The vehicles used in this drawing are indicative
- actual turning radii and vehicle track will depend on the precise vehicles used by the works contractor. 9. Where required by the local highways authority, the proposed junction will be controlled by traffic signals
- during the construction of the bellmouth. These will be designed and installed in accordance with Chapter 6 of the Traffic Signs Manual. Appropriate warning signage will be used where necessary. 10. Visibility splays shown on the drawing indicate the
- visibility currently available on site based on Stopping Sight Distance (SSD) as per CD 109 of the 11. The road currently has a 40mph speed limit requiring
- a SSD of 120m which is currently available on site. Some vegetation clearance may be required.

 12. For construction of the bellmouths, it is anticipated
- that carriageway narrowing and temporary traffic signals will be used. 13. Fencelines to tie into existing fenceline, hedgerow and wall where appropriate.
- 14. Vehicles considered for the swept path analysis do
- not incorporate rear axles steering.

 15. Bellmouth drawings have been aligned to OS mapping (aerial imagery has been shown for
- 16. Reference should be made to the Guide to the Plans (Document Ref 2.1) which provides further

Application document 2.13.1

Legend

Bellmouth General Arrangement

Security Gate

Order Limits

New Fence — — Highway Visibility Splay

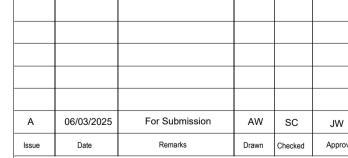
Permanent Access Road Limit of Deviation

Proposed Permanent Access

Vehicle Tracking Chassis Outline Swept Path

Vehicle Tracking Body Outline Swept Path

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THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - SUFFOLK: INDICATIVE BELLMOUTH ACCESS ARRANGEMENT S-BM07 (S-AP-12) REGULATION 5(2)(o) SHEET 1 OF 1

nationalgrid

Application Number

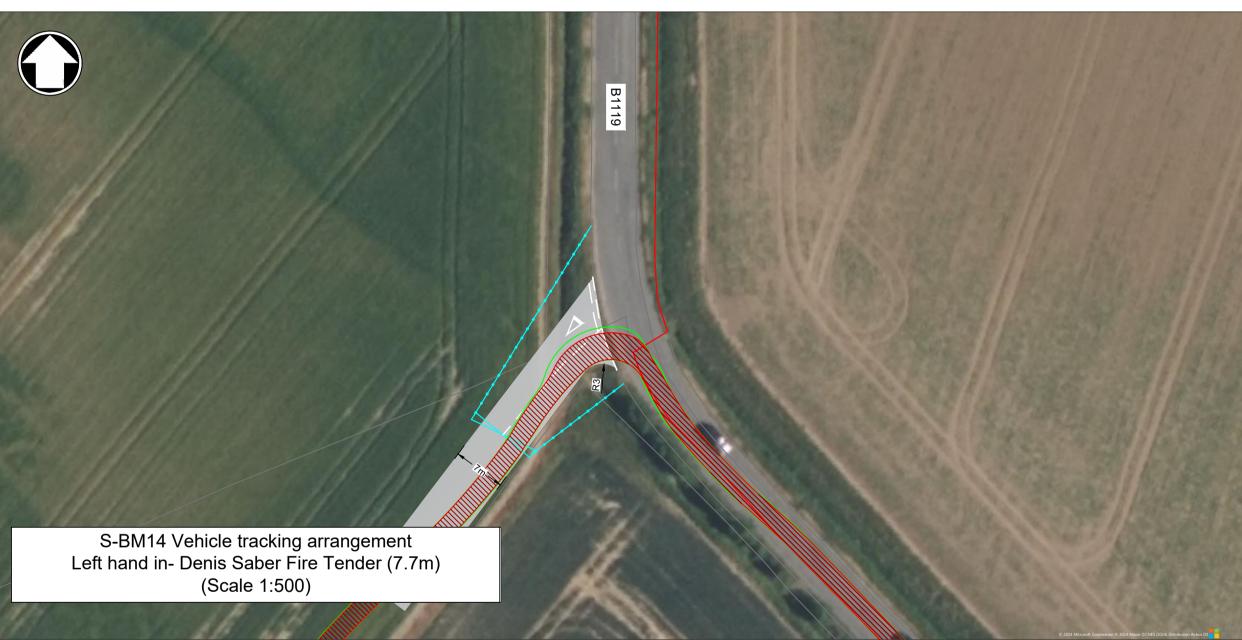
EN020026 National Grid Drawing Reference

SHEET 1 OF 1 A

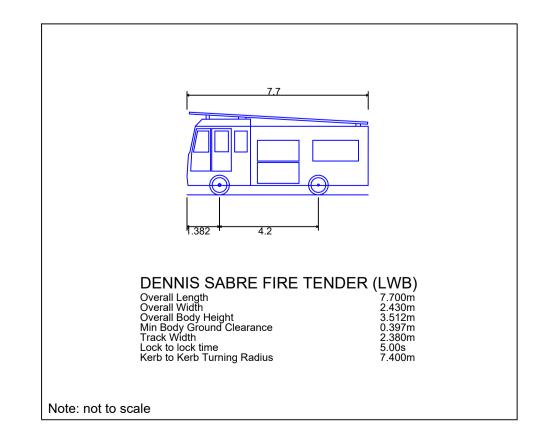
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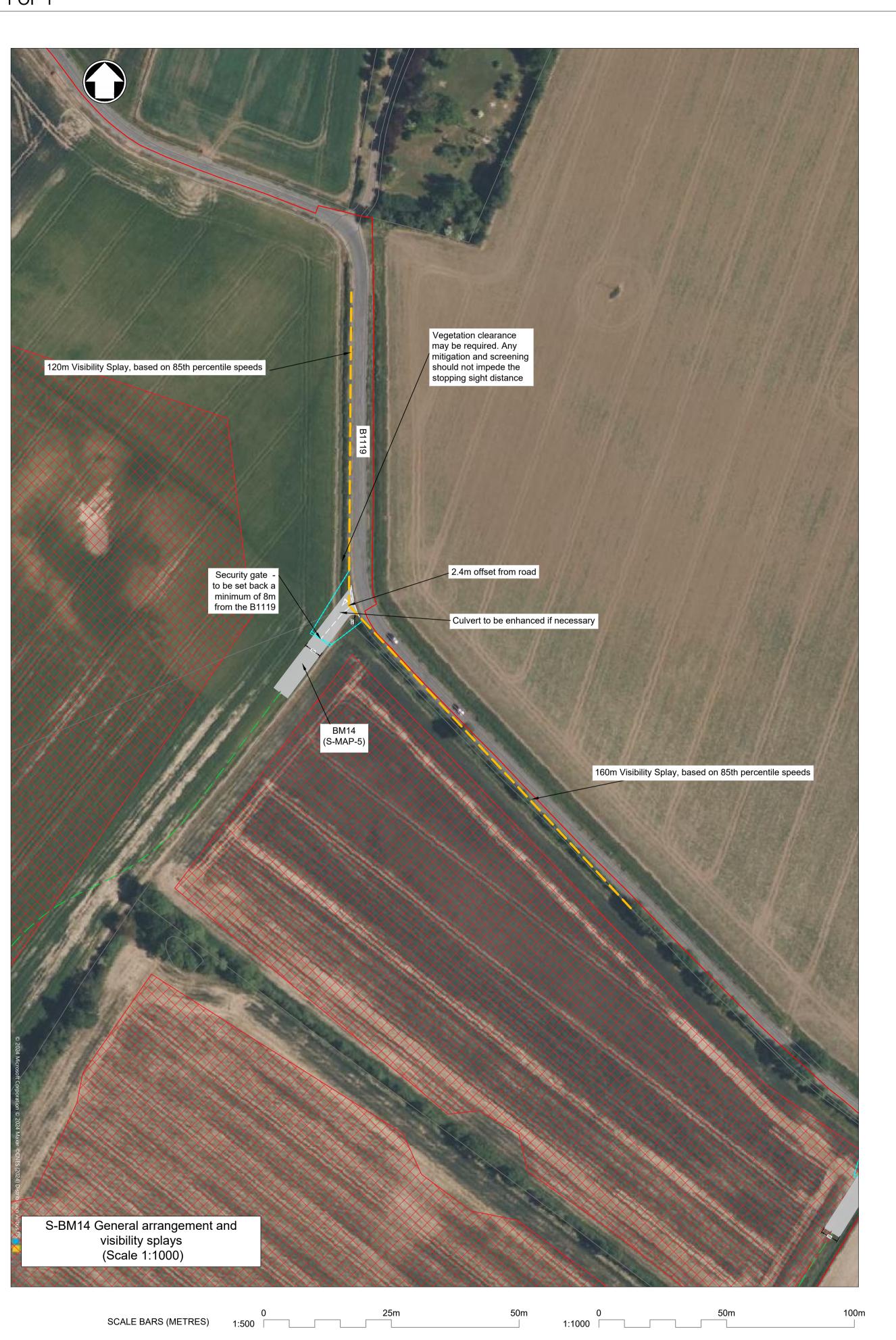
THE NATIONAL GRID (SEALINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - SUFFOLK: INDICATIVE BELLMOUTH ACCESS ARRANGEMENT S-BM14 (S-MAP-5) REGULATION 5(2)(o) SHEET 1 OF 1





Vehicle Diagram





Notes

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- 6. Alignment/specification of fencing and gates subject to site conditions and contractor requirements.
- Vegetation clearance and groundwork may be required to facilitate any necessary sight distances.
- 8. The vehicles used in this drawing are indicative of those expected to be using this access. Actual turning radii and vehicle track will depend on the

precise vehicles used by the works contractor.

- 9. Where required by the local highways authority, the proposed junction will have traffic management and be controlled by traffic signals designed and installed in accordance with Chapter 6 of the Traffic Signs Manual. Appropriate warning signage will be used where necessary.
- 10. Visibility splays shown on the drawing indicate the visibility currently available on site based on Stopping Sight Distance (SSD) as per CD 109 of the DMRB.
- 11. The 85th percentile speeds indicate that SSD of 160 meters and 120 meters are appropriate for design speeds of 50 mph and 40 mph, respectively. Although the road currently has a 60 mph speed limit, which would typically require an SSD of 215m, the design has been adjusted using the 85th percentile speeds based on available speed data, following the principles outlined in DMRB CD 123 and CD 185.
 12. Vegetation clearance may be required.
- For construction of the bellmouths, it is anticipated that temporary full or alternate lane closures with traffic signals will be installed.
- 14. Fencelines to tie into existing fencelines, hedgerows or wall where appropriate.15. Vehicles considered for the swept path analysis do
- Vehicles considered for the swept path analysis do not incorporate rear axles steering.
- 16. The bellmouths have been designed to guidance provided in the DMRB CD 123 apart from where the bellmouth would only be used for emergency vehicles and monitoring access. In these cases a simple corner radius of 3m has been applied.
- 17. This bellmouth is for monitoring access and is not intended for use by construction traffic.18. Bellmouth drawings have been aligned to OS
- Bellmouth drawings have been aligned to OS mapping (aerial imagery has been shown for context).
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Application document 2.13.1

Legend

Bellmouth General Arrangement

Security Gate

New Fence

— Highway Visibility Splay (see note 10)

Order Limits

Vehicle Tracking Chassis Outline Swept Path

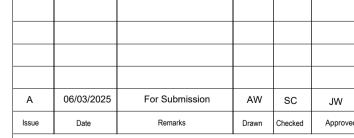
Vehicle Tracking Body Outline Swept Path

---- Permanent Monitoring Access

Construction Compound

Constitution Compound

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____L Title

THE NATIONAL GRID (SEA LINK) ORDER
PINS APPLICATION NUMBER: EN020026
DESIGN AND LAYOUT PLANS - SUFFOLK:
INDICATIVE BELLMOUTH ACCESS ARRANGEMENT
S-BM14 (S-MAP-5)
REGULATION 5(2)(0)
SHEET 1 OF 1

national**grid**

Application Number

EN020026

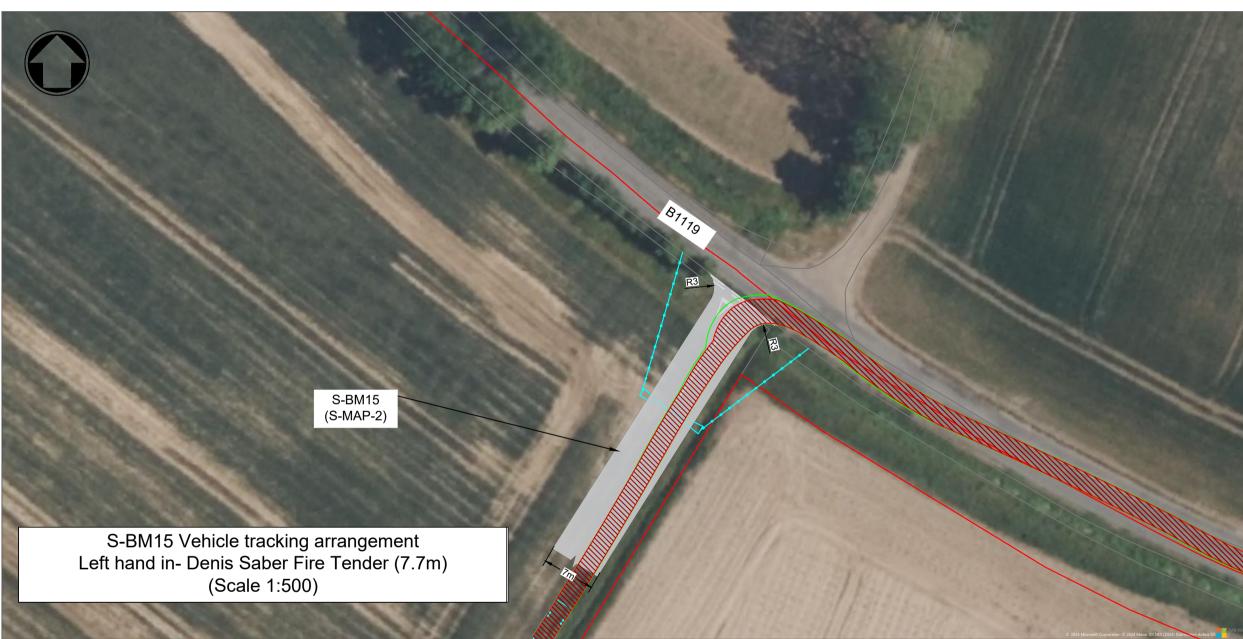
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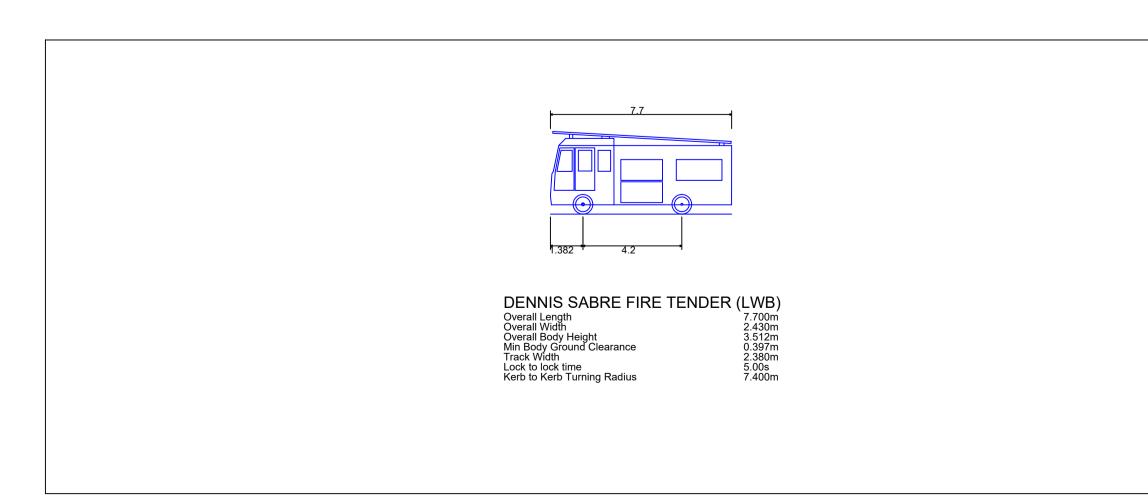
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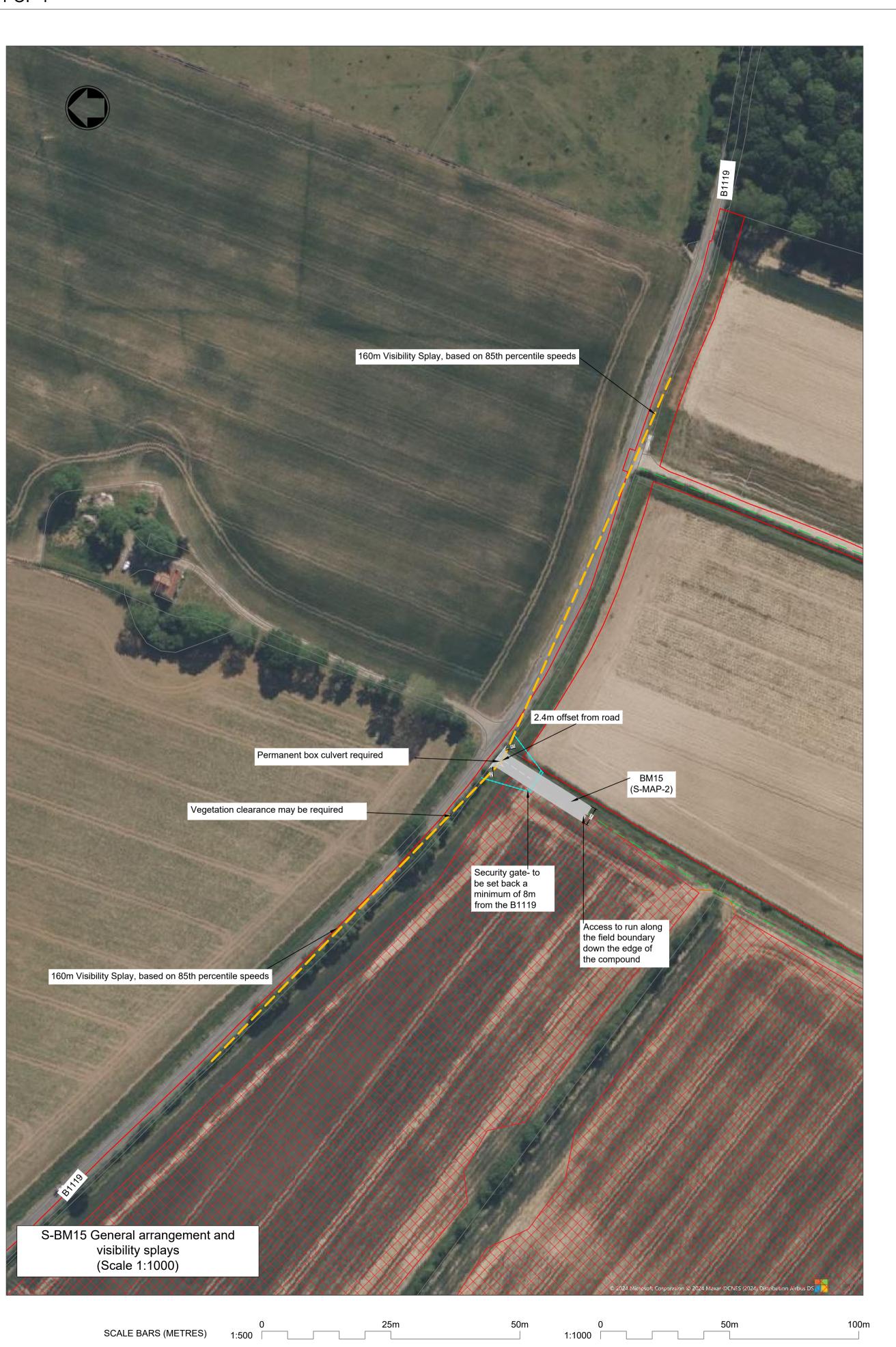
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 SHEET 1 OF 1
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THE NATIONAL GRID (SEALINK) ORDER PINS APPLICATION NUMBER: EN020026 **DESIGN AND LAYOUT PLANS - SUFFOLK:** INDICATIVE BELLMOUTH ACCESS ARRANGEMENT S-BM15 (S-MAP-2) REGULATION 5(2)(o) SHEET 1 OF 1









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Application document 2.13.1

Legend Bellmouth General Arrangement Security Gate New Fence — — Highway Visibility Splay (see note 10) Order Limits Vehicle Tracking Chassis Outline Swept Path Vehicle Tracking Body Outline Swept Path

---- Permanent Monitoring Access

Construction Compound

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06/03/2025 For Submission

THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 **DESIGN AND LAYOUT PLANS - SUFFOLK:** INDICATIVE BELLMOUTH ACCESS ARRANGEMENT S-BM15 (S-MAP-2) REGULATION 5(2)(o) SHEET 1 OF 1

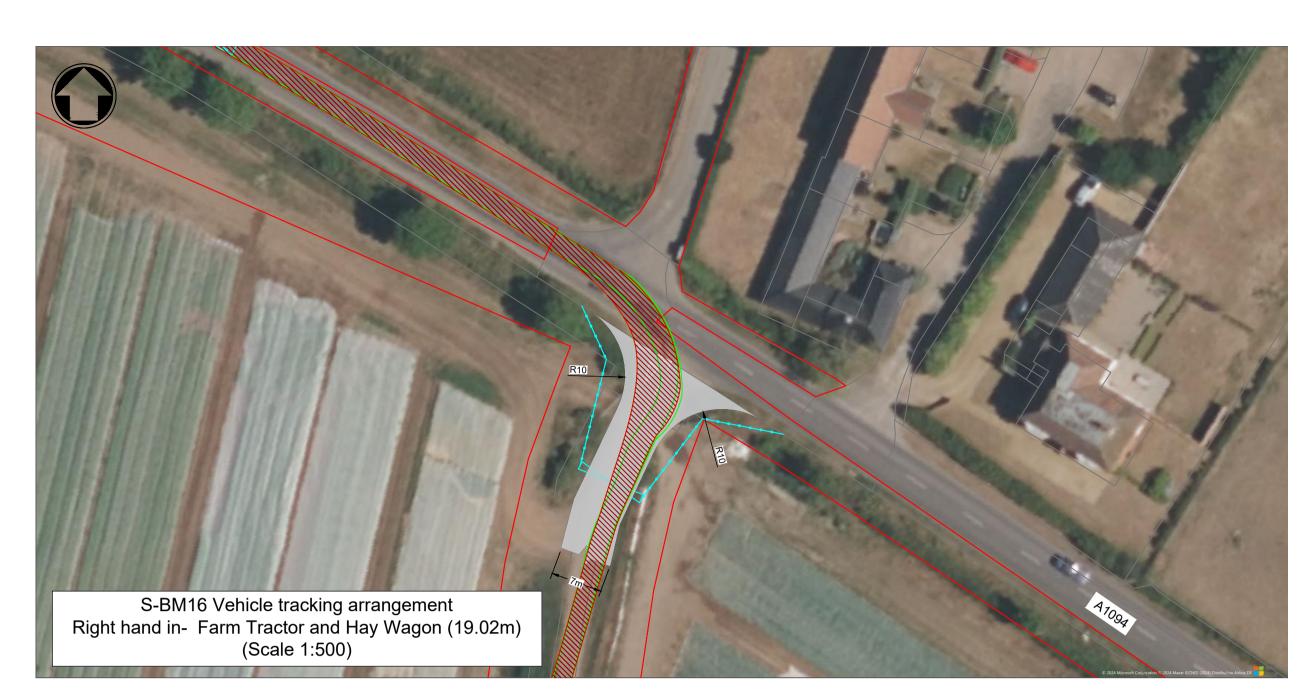
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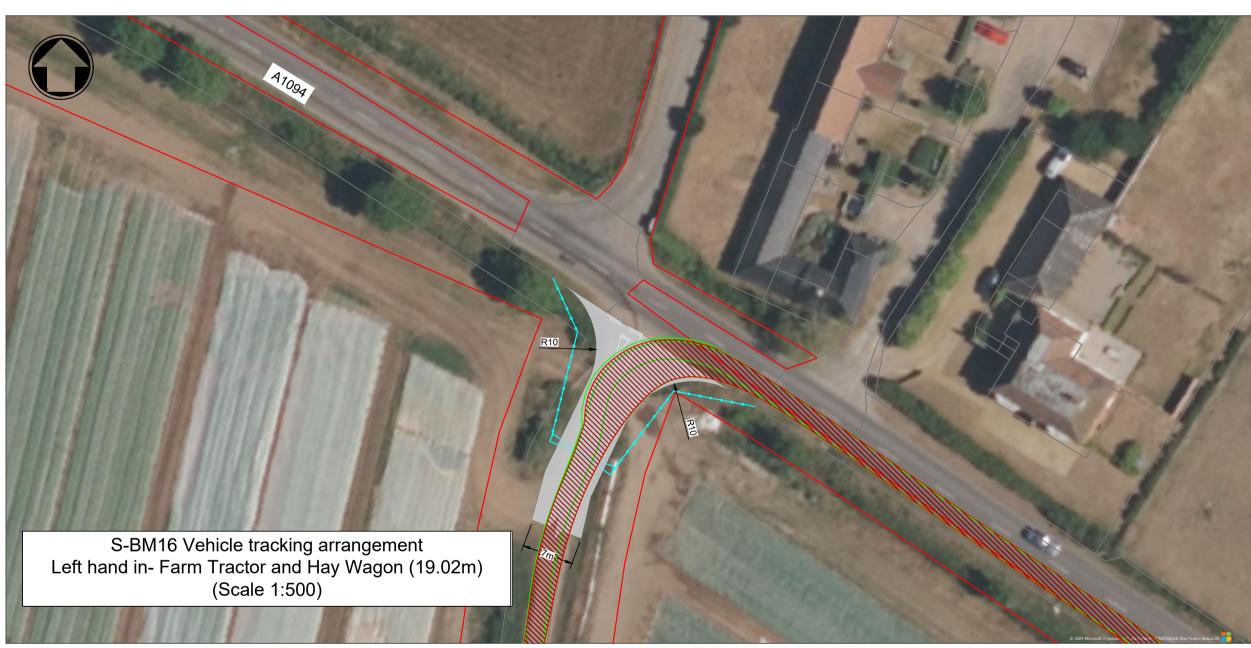
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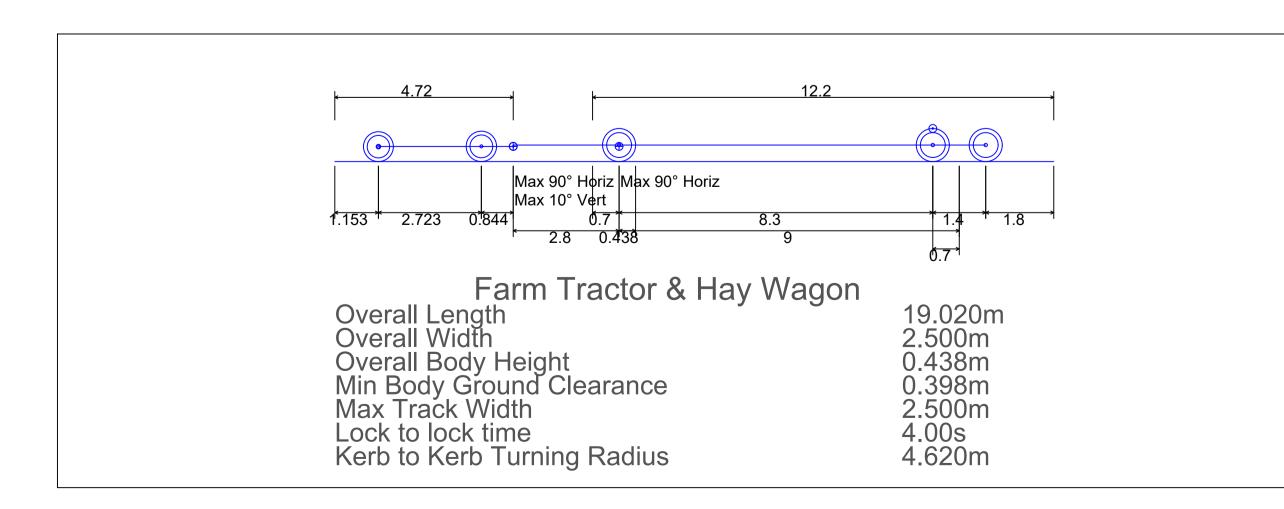
Application Number EN020026

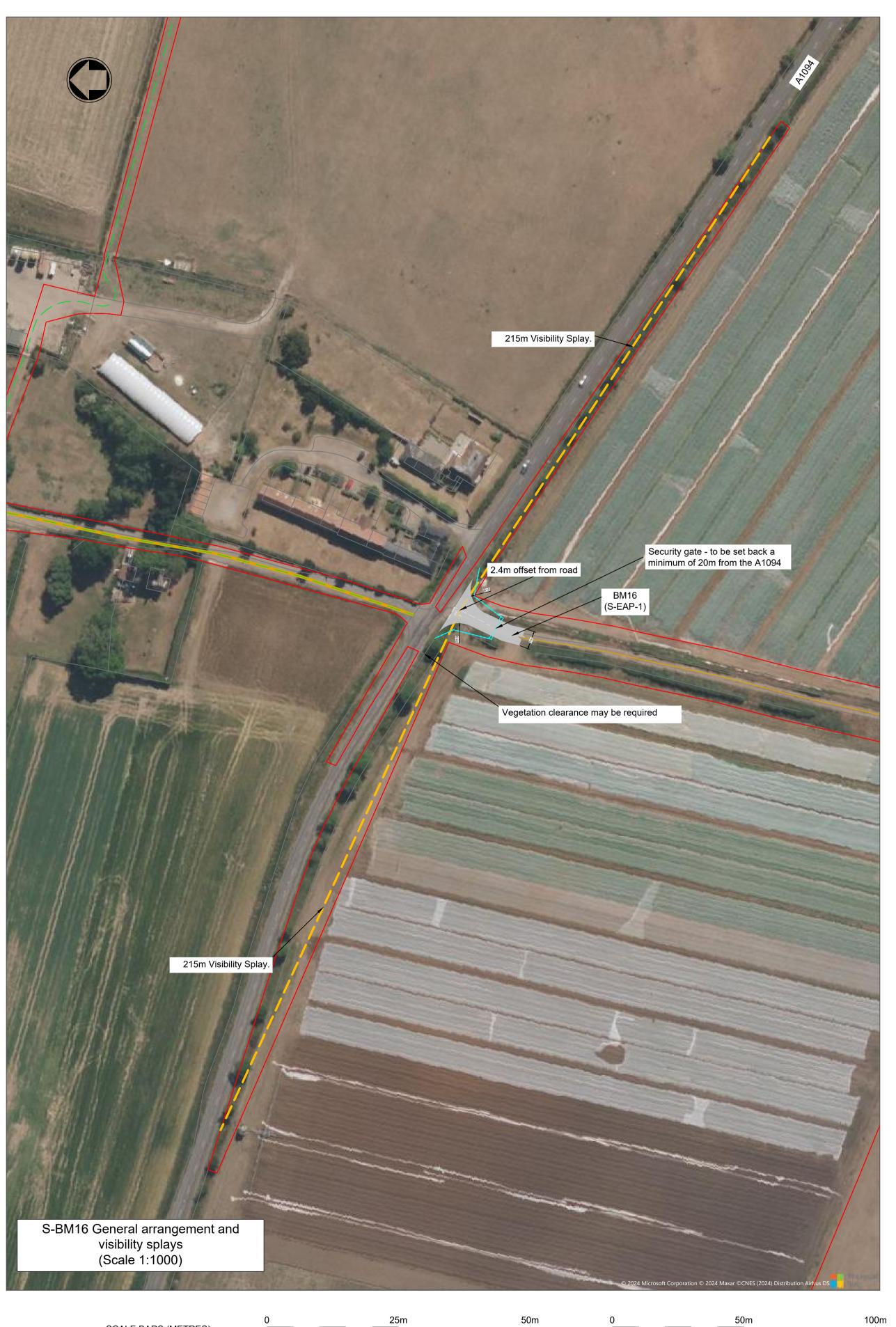
National Grid Drawing Reference
DCO/S/DE/SS/1221

THE NATIONAL GRID (SEALINK) ORDER PINS APPLICATION NUMBER: EN020026 **DESIGN AND LAYOUT PLANS - SUFFOLK:** INDICATIVE BELLMOUTH ACCESS ARRANGEMENT S-BM16 (S-EAP-1) REGULATION 5(2)(o) SHEET 1 OF 1









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 - 6. Alignment/specification of fencing and gates subject to site conditions and contractor requirements.
 - 7. Vegetation clearance and groundwork may be required to facilitate any necessary sight distances.
 - 8. The vehicles used in this drawing are indicative of those expected to be using this access. Actual turning radii and vehicle track will depend on the precise vehicles used by the works contractor.
 - 9. Where required by the local highways authority, the proposed junction will have traffic management and be controlled by traffic signals designed and installed in accordance with Chapter 6 of the Traffic Signs Manual. Appropriate warning signage will be used where necessary.
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 - a SSD of 215m 12. For construction of the bellmouths, it is anticipated that temporary full or alternate lane closures with
 - traffic signals will be installed. 13. Fencelines to tie into existing fencelines, hedgerows
 - or wall where appropriate. 14. Vehicles considered for the swept path analysis do not incorporate rear axles steering.
 - 15. The bellmouths have been designed to guidance provided in the DMRB CD 123 apart from where the bellmouth would only be used for emergency vehicles and monitoring access. In these cases a simple corner radius of 3m has been applied.
 - 16. Bellmouth drawings have been aligned to OS mapping (aerial imagery has been shown for context).
 - 17. Reference should be made to the Guide to the Plans (Document Ref 2.1) which provides further information on what the plans show.

Application document 2.13.1 Legend Bellmouth General Arrangement Security Gate New Fence

— — Highway Visibility Splay (see note 10)

Order Limits

Vehicle Tracking Chassis Outline Swept Path Vehicle Tracking Body Outline Swept Path

Proposed Access Route

---- Monitoring Access Route

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Α	06/03/2025	For Submission	AW	sc	JW
Issue	Date	Remarks	Drawn	Checked	Approved

THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - SUFFOLK: INDICATIVE BELLMOUTH ACCESS ARRANGEMENT S-BM16 (S-EAP-1) REGULATION 5(2)(o) SHEET 1 OF 1

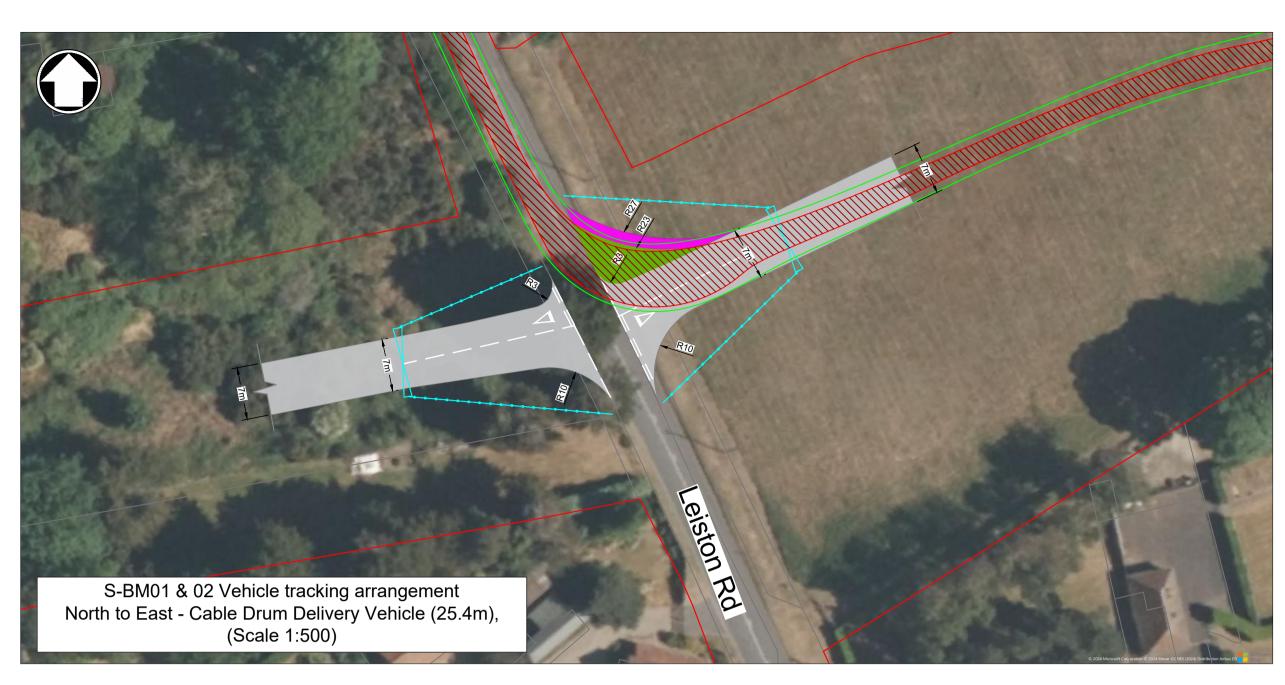
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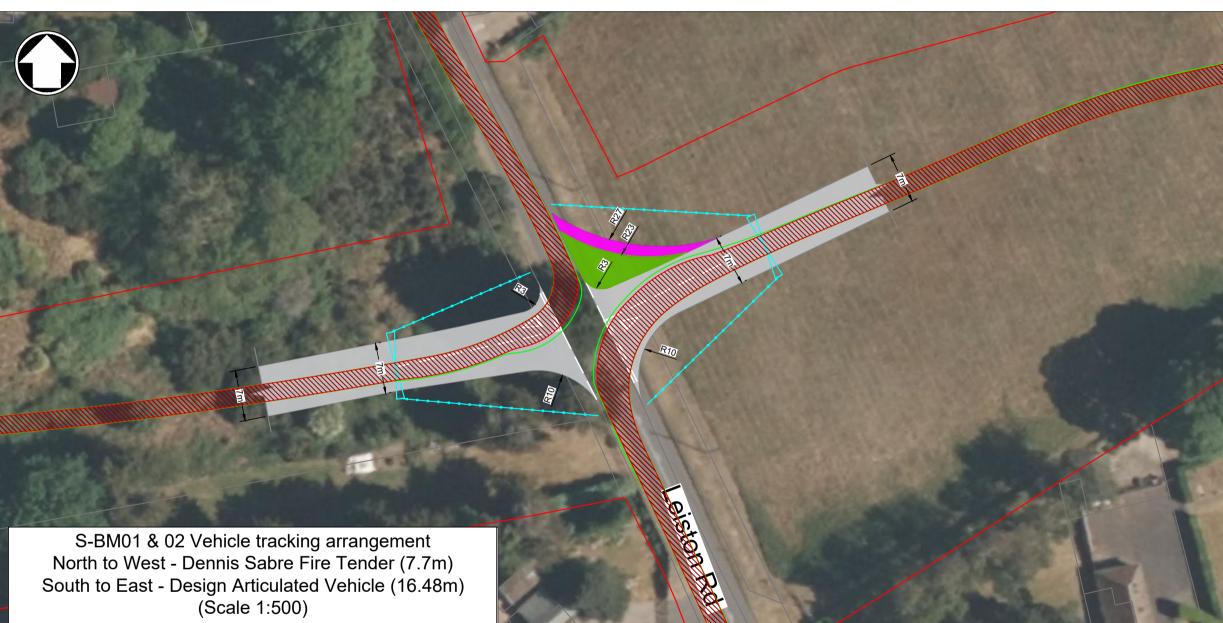
Application Number EN020026

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DCO/S/DE/SS/1222 SHEET 1 OF 1 A

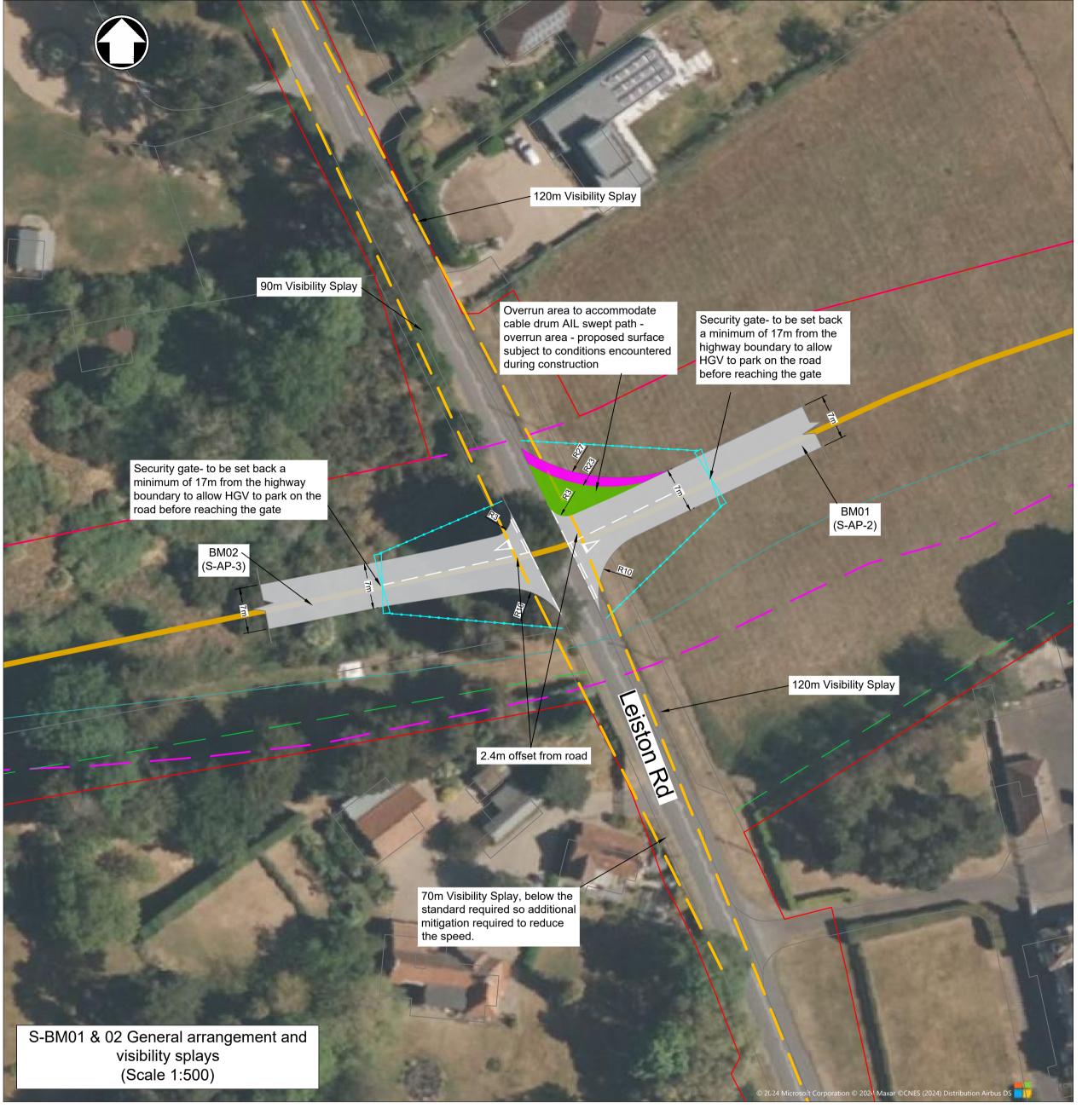
THE NATIONAL GRID (SEALINK) ORDER PINS APPLICATION NUMBER: EN020026 **DESIGN AND LAYOUT PLANS - SUFFOLK:** INDICATIVE BELLMOUTH ACCESS ARRANGEMENT S-BM01 (S-AP-2) AND S-BM02 (S-AP-3)

REGULATION 5(2)(o) SHEET 1 OF 1

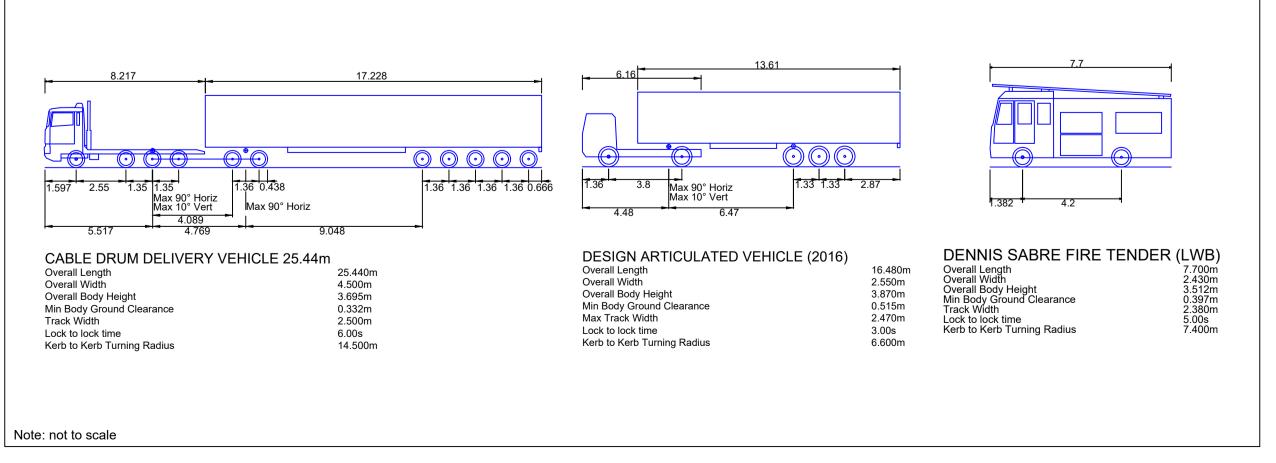








Vehicle Diagram



SCALE BARS (METRES) 0 25m 50m

Notes

- This drawing is for development purposes only and should not be used for construction.
 - All dimensions are in meters unless otherwise stated.
 - 3. Do not scale any items of information from this
 - 4. Proposed arrangements shown for indicative purposes only. Dimensions and design may vary following
 - completion of site surveys and the detailed design. This plan is scaled at paper size A1, therefore any prints taken at smaller sizes will affect accuracy of the
 - measurement units and should not be scaled against. Alignment/specification of fencing and gates subject to site conditions and contractor requirements. Vegetation clearance and groundwork may be required
 - to facilitate any necessary sight distances. 8. The vehicles used in this drawing are indicative of those expected to be using this construction access.

Actual turning radii and vehicle track will depend on

- the precise vehicles used by the works contractor. Where required by the local highways authority, the proposed junction will have traffic management and be controlled by traffic signals designed and installed in accordance with Chapter 6 of the Traffic Signs Manual. Appropriate warning signage will be used where
- necessary. 10. Visibility splays shown on the drawing indicate the visibility currently available on site based on Stopping Sight Distance (SSD) as per CD 109 of the DMRB.
- 11. The road currently has a 40mph speed limit requiring a SSD of 120m. As required visibility is not available, a temporary 30mph speed limit requiring a SSD of 70m is recommended. Some vegetation clearance may be required.
- 12. Cable deliveries are expected to require use of additional lanes and will temporary require traffic control measures.
- 13. For construction of the bellmouths, it is anticipated that temporary full or alternate lane closures with traffic signals will be installed.
- 14. Fencelines to tie into existing fencelines, hedgerows
- or wall where appropriate. 15. Vehicles considered for the swept path analysis do not incorporate rear axles steering.
- 16. Overrun areas illustrated are needed for AIL movement only. As AIL movement is infrequent, surfacing requirements may vary though are likely to either be: stone surfacing, grasscrete surfacing, or temporary matting (or similar). This will be determined at a later stage of design once a Contractor has been appointed.
- 17. The bellmouths have been designed to guidance provided in the DMRB CD 123 apart from where the bellmouth would only be used for emergency vehicles. In these cases a simple corner radius of 3m has been
- 18. Bellmouth drawings have been aligned to OS mapping (aerial imagery has been shown for context).
- 19. Reference should be made to the Guide to the Plans (Document Ref 2.1) which provides further information on what the plans show.

Application document 2.13.1

Bellmouth General Arrangement Overrun Area

Security Gate

Legend

New Fence --- Highway Visibility Splay (see note 10)

— HVDC Cable Alignment

Order Limits

— — Cable Limit of Deviation

Proposed Access Route Overrun Area - Vehicle Overhang

Vehicle Tracking Chassis Outline Swept Path

Vehicle Tracking Body Outline Swept Path

---- Permanent Monitoring Access

Sheet Y Centroid Coordinate:

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06/03/2025 For Submission

THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 **DESIGN AND LAYOUT PLANS - SUFFOLK:** INDICATIVE BELLMOUTH ACCESS ARRANGEMENT S-BM01 (S-AP-2) & S-BM02 (S-AP-3) REGULATION 5(2)(o) SHEET 1 OF 1

nationalgrid

Application Number

EN020026

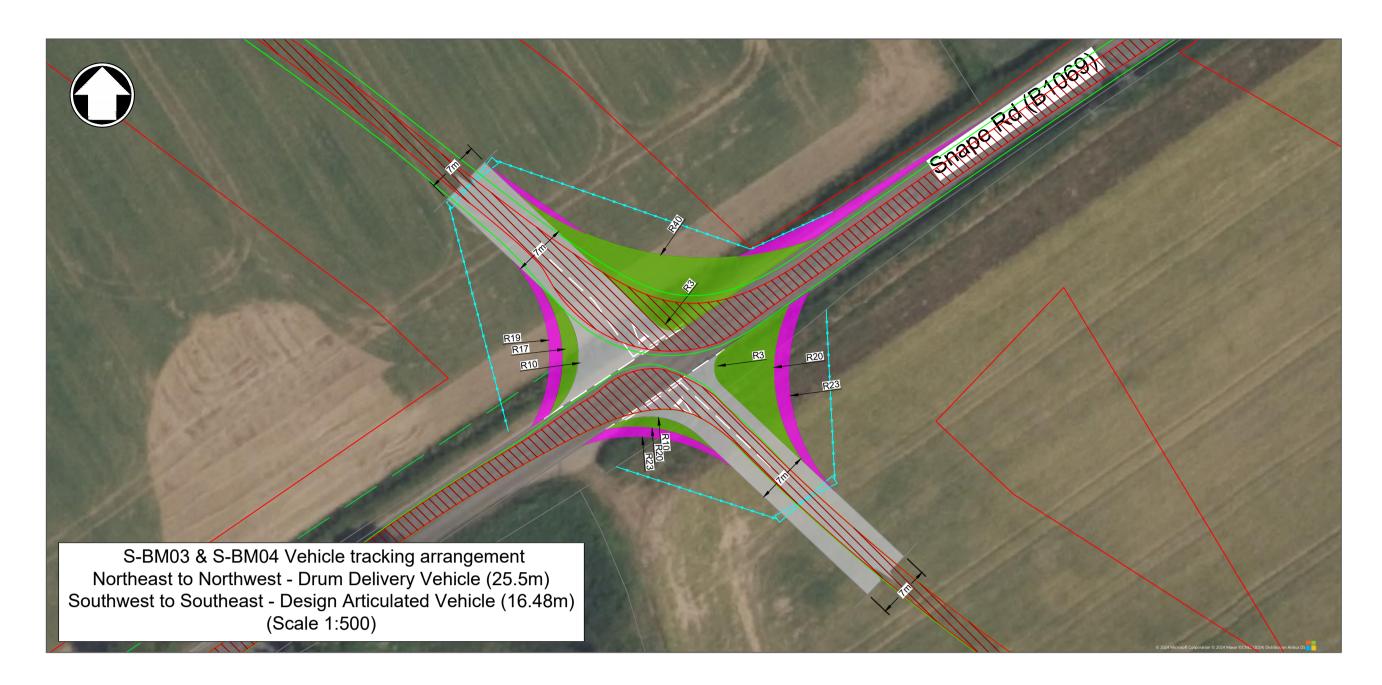
National Grid Drawing Reference DCO/S/DE/SS/1223

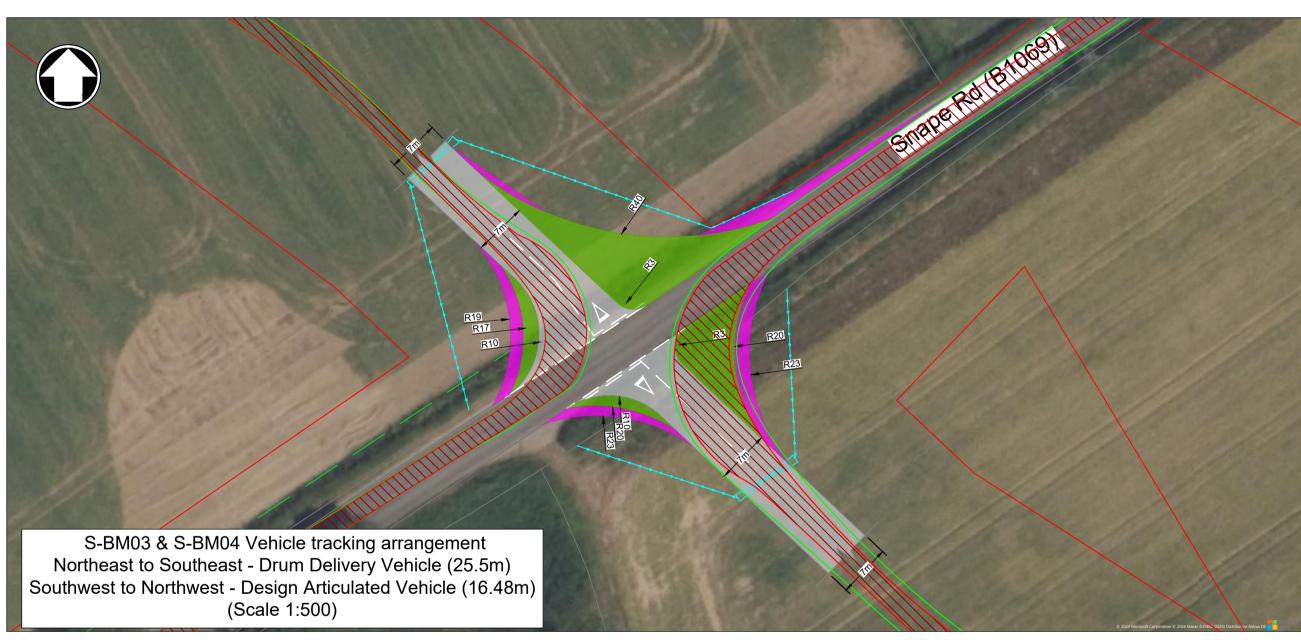
SHEET 1 OF 1 A

THE NATIONAL GRID (SEALINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS- SUFFOLK:

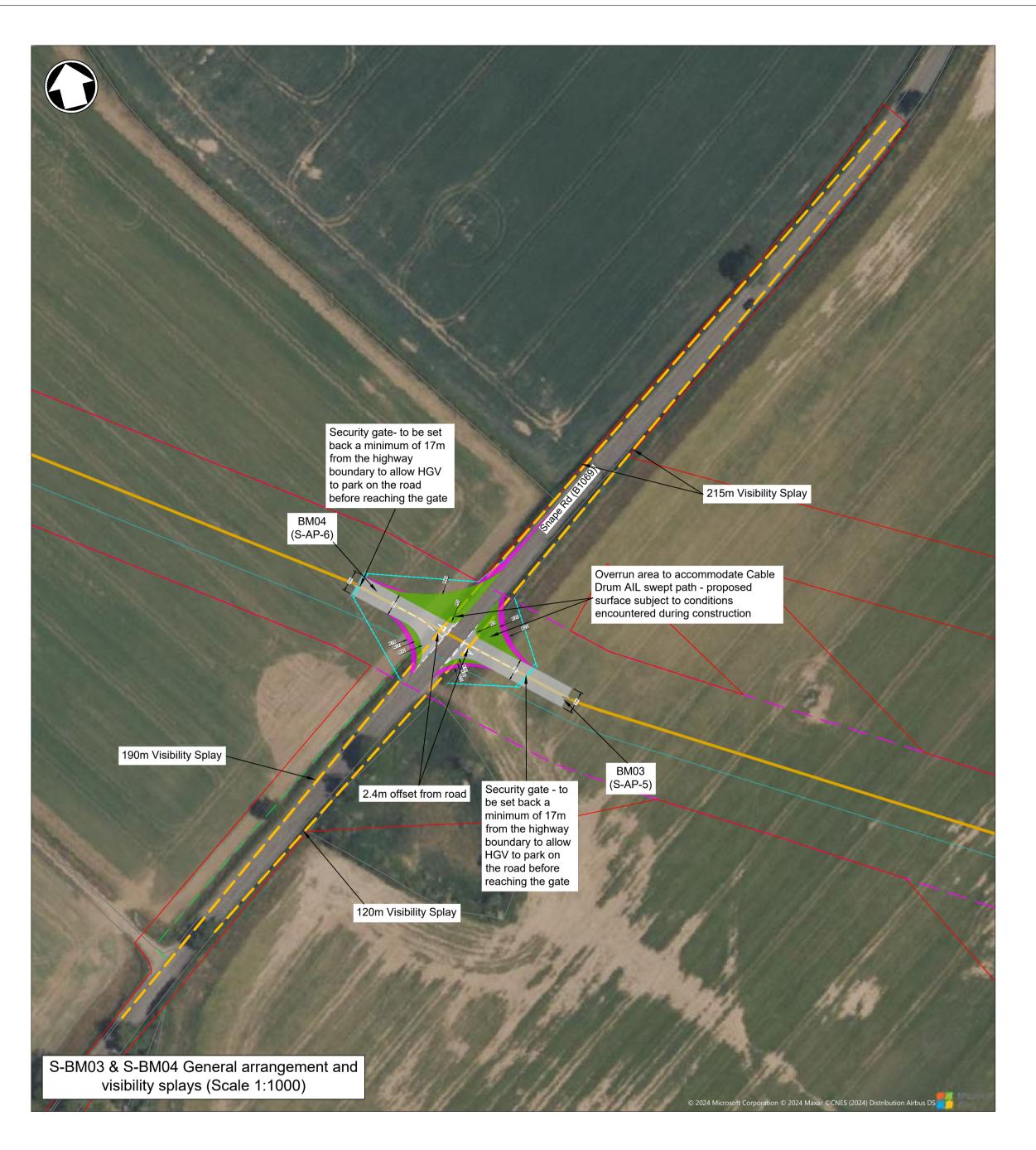
INDICATIVE BELLMOUTH ACCESS ARRANGEMENT S-BM03 (S-AP-5) AND S-BM04 (S-AP-6)

REGULATION 5(2)(o) SHEET 1 OF 1

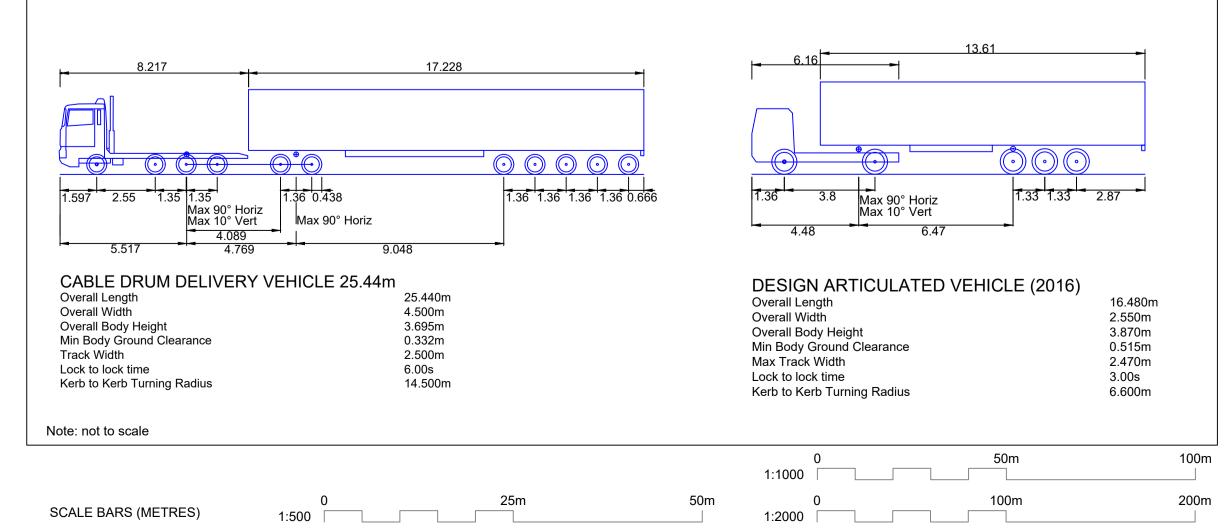








Vehicle Diagram



Notes

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 All dimensions are in meters unless otherwise
- stated.
 - Do not scale any items of information from this drawing.
 - Proposed arrangements shown for indicative purposes only. Dimensions and design may vary following completion of site surveys and the detailed design.
- 5. This plan is scaled at paper size A1, therefore any prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled
- Alignment/specification of fencing and gates subject to site conditions and contractor requirements.
- 7. Vegetation clearance and groundwork may be required to facilitate any necessary sight distances.
- 8. The vehicles used in this drawing are indicative of those expected to be using this construction access. Actual turning radii and vehicle track will depend on the precise vehicles used by the works contractor.
- Where required by the local highways authority, the proposed junction will be controlled by traffic signals designed and installed in accordance with Chapter 6 of the Traffic Signs Manual. Appropriate warning signage will be used where necessary.
- 10. Visibility splays shown on the drawing indicate the visibility currently available on site based on Stopping Sight Distance (SSD) as per CD 109 of the DMRB.
 11. The road currently has a 60mph speed limit
- requiring a SSD of 215m. As required visibility is not available, a temporary speed limit of 40mph requiring a SSD of 120m is recommended. Some vegetation clearance may be required.

 12. Cable deliveries are expected to require use of
- additional lanes and will require traffic control measures.13. For construction of the bellmouths, it is anticipated
- that temporary full or alternate lane closures with traffic signals will be installed.
- 14. Fencelines to tie into existing fenceline, hedgerow or wall where appropriate.15. Vehicles considered for the swept path analysis do
- not incorporate rear axles steering.

 16. Overrun areas illustrated are needed for AIL movement only. As AIL movement is infrequent,
- movement only. As AIL movement is infrequent, surfacing requirements may vary though are likely to either be: stone surfacing, grasscrete surfacing, or temporary matting (or similar). This will be determined at a later stage of design once a Contractor has been appointed.

 17. The bellmouths have been designed to guidance
- the bellmouth would only be used for emergency vehicles. In these cases a simple corner radius of 3m has been applied.

 18. Bellmouth drawings have been aligned to OS

provided in the DMRB CD 123 apart from where

- mapping (aerial imagery has been shown for context).19. Reference should be made to the Guide to the
- Plans (Document Ref 2.1) which provides further information on what the plans show.

Application document 2.13.1 Legend

Bellmouth General Arrangement
Overrun Area
Security Gate
New Fence

Highway Visibility Splay (see note 10)HVDC Cable Alignment

—— Draft Order Limits

Overrun Area - Vehicle Overhang

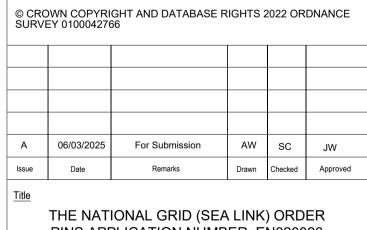
Cable Limit of Deviation

Proposed Access Route

Vehicle Tracking Chassis Outline Swept Path

Vehicle Tracking Body Outline Swept PathPermanent Monitoring Access

- Permanent Monitoring Access



THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - SUFFOLK: INDICATIVE BELLMOUTH ACCESS ARRANGEMENT S-BM03 (S-AP-5) & S-BM04 (S-AP-6)

S-BM03 (S-AP-5) & S-BM04 (S-AP-6) REGULATION 5(2)(0) SHEET 1 OF 1

nationalgrid

Application Number
EN020026

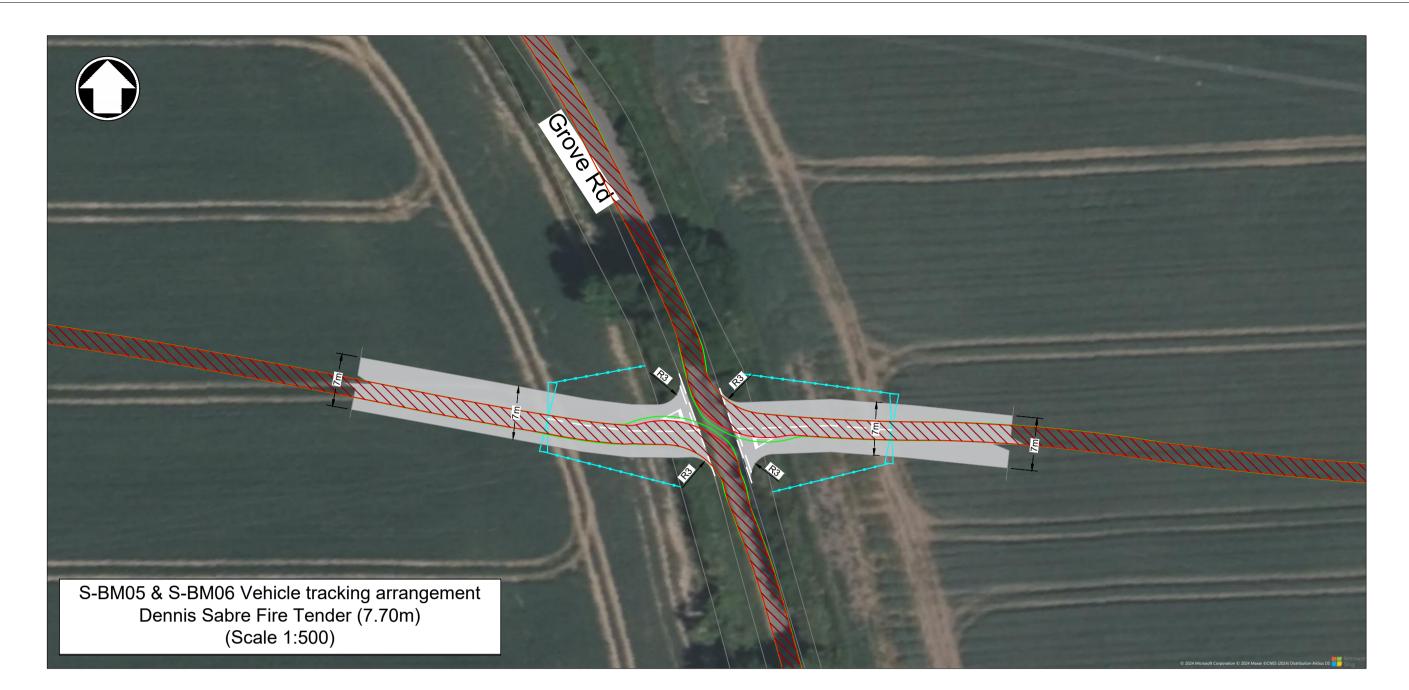
National Grid Drawing Reference

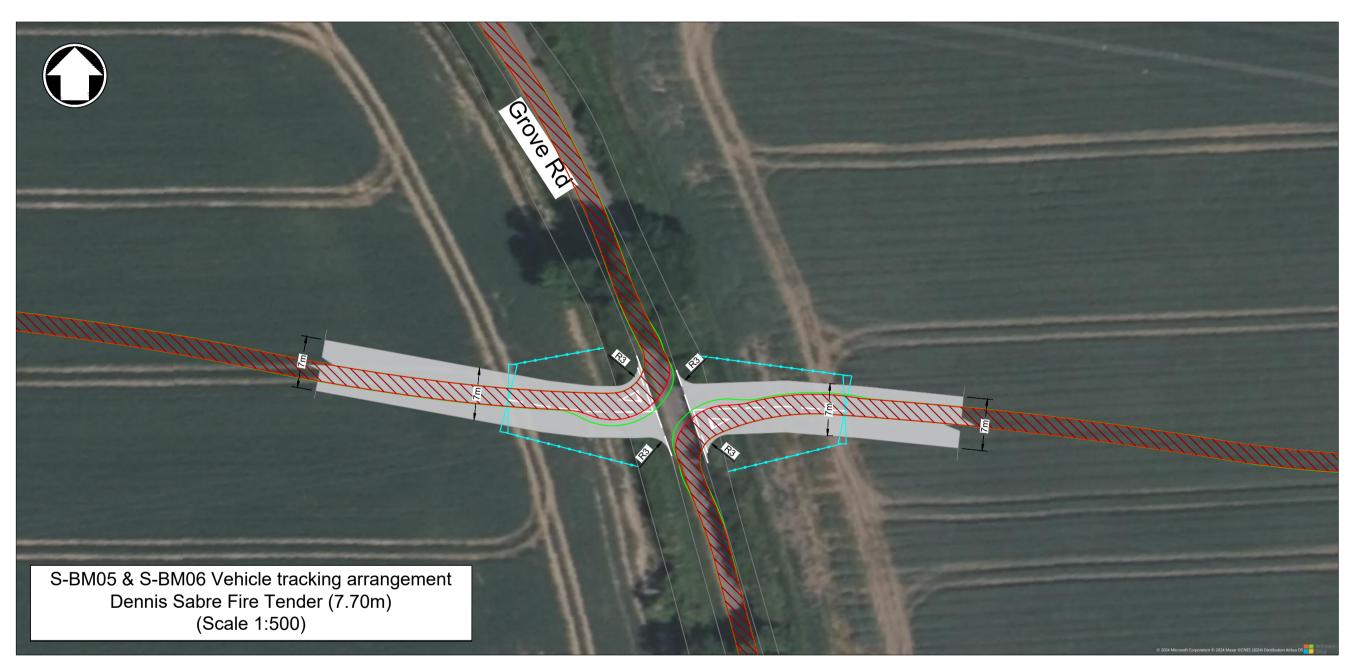
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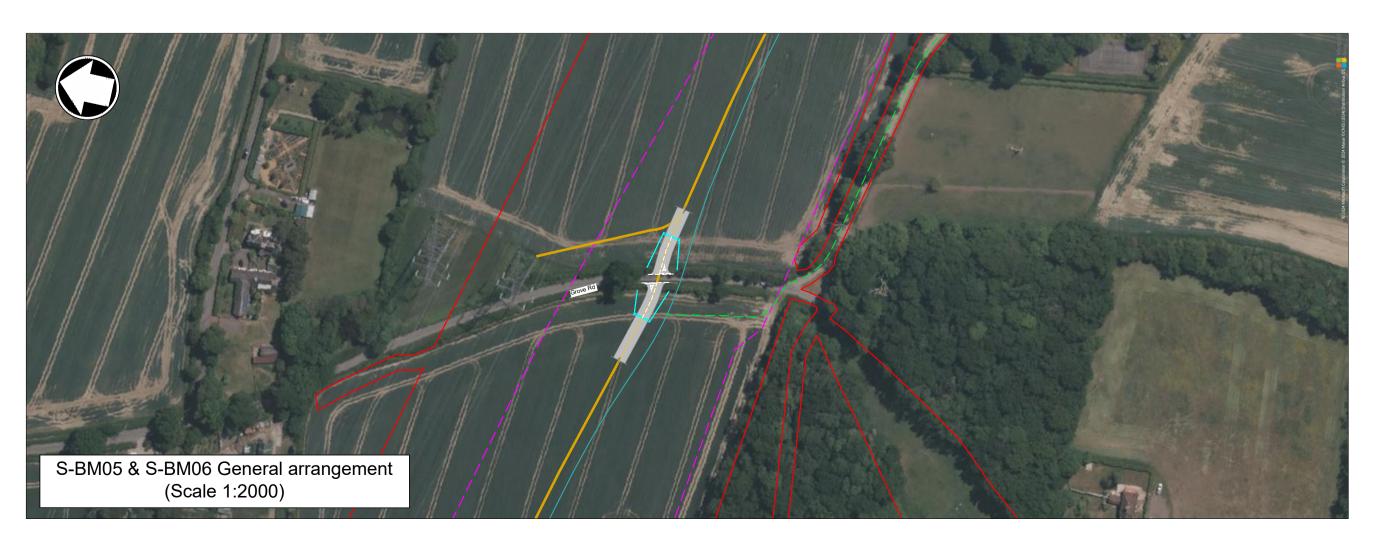
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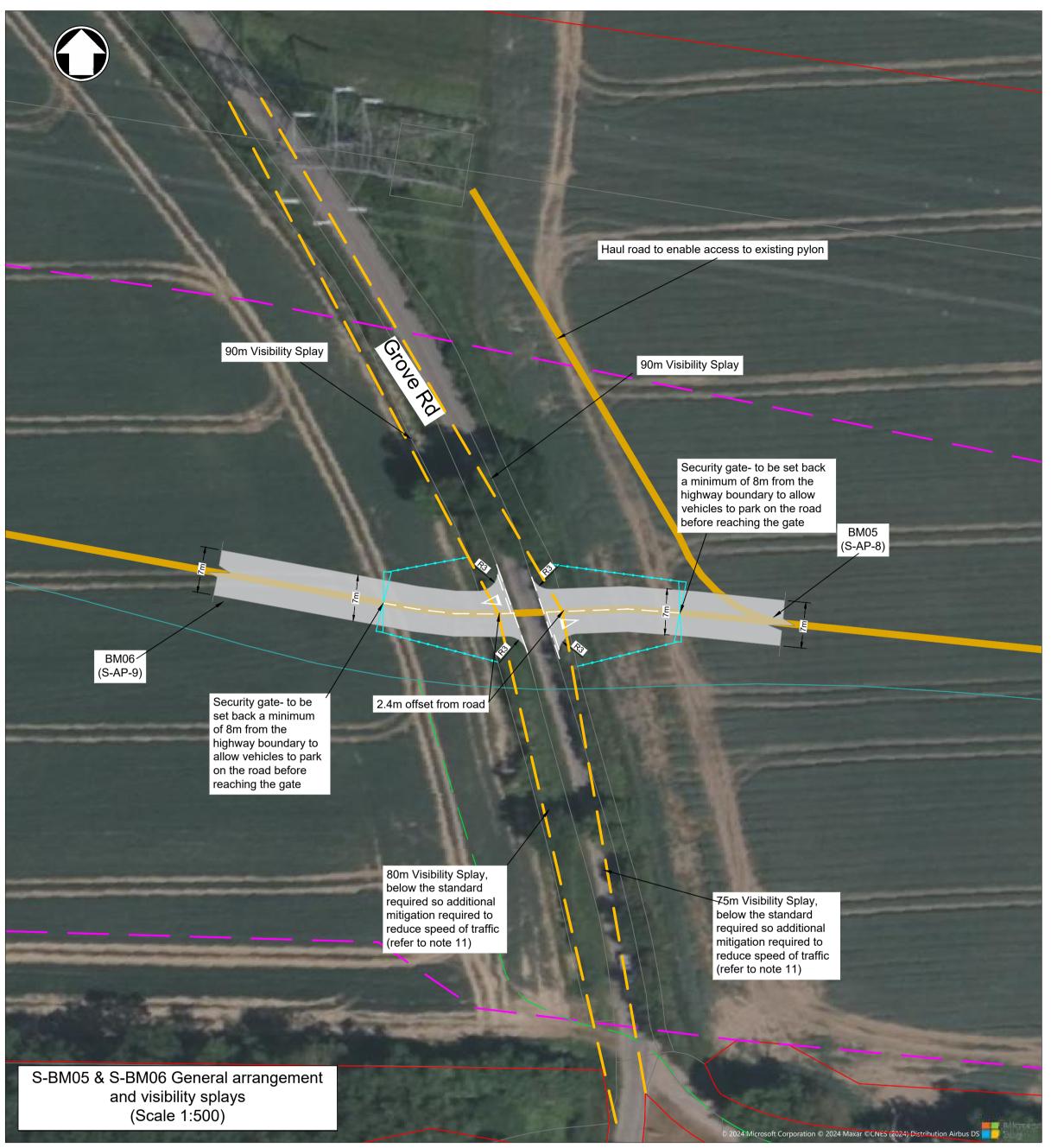
 As shown
 A1
 SHEET 1 OF 1
 A

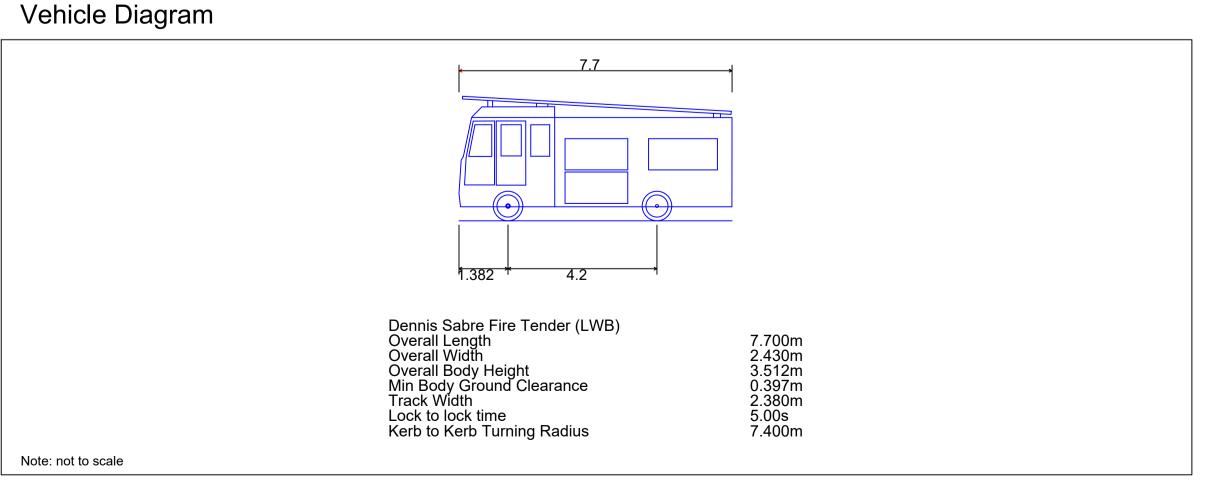
THE NATIONAL GRID (SEALINK) ORDER PINS APPLICATION NUMBER: EN020026 **DESIGN AND LAYOUT PLANS - SUFFOLK:** INDICATIVE BELLMOUTH ACCESS ARRANGEMENT S-BM05 (S-AP-8) AND S-BM06 (S-AP-9) REGULATION 5(2)(o) SHEET 1 OF 1











Notes

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 - 2. All dimensions are in meters unless otherwise stated.
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 - This plan is scaled at paper size A1, therefore any prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against.
 - Alignment/specification of fencing and gates subject to site conditions and contractor requirements.
 - Vegetation clearance and groundwork may be
 - required to facilitate any necessary sight distances. 8. The vehicles used in this drawing are indicative of those expected to be using this construction access.
 - Actual turning radii and vehicle track will depend on the precise vehicles used by the works contractor. Where required by the local highways authority, the proposed junction will be controlled by traffic signals
 - designed and installed in accordance with Chapter 6 of the Traffic Signs Manual. Appropriate warning signage will be used where necessary. 10. Visibility splays shown on the drawing indicate the
 - visibility currently available on site based on Stopping Sight Distance (SSD) as per CD109 of the DMRB. 11. The road currently has a 60mph speed limit requiring
 - a SSD of 215m. As required visibility is not available, a temporary 30mph speed limit requiring a SSD of 70m is recommended. Some vegetation clearance may be required.
 - 12. Priority control will be provided during construction. 13. For construction of the bellmouths it is anticipated
 - that a temporary full road closure with a diversion be installed.
 - 14. Fencelines to tie into existing fenceline, hedgerow or wall where appropriate. 15. The bellmouths have been designed to guidance
 - provided in the DMRB CD 123 apart from where the bellmouth would only be used for emergency vehicles. In these cases a simple corner radius of 3m has been applied.
 - 16. Bellmouth drawings have been aligned to OS mapping (aerial imagery has been shown for context).
 - 17. Reference should be made to the Guide to the Plans (Document Ref 2.1) which provides further information on what the plans show.

Application document 2.13.1 Legend

Bellmouth General Arrangement

Security Gate New Fence

— — Highway Visibility Splay (see note 10)

— HVDC Cable Alignment

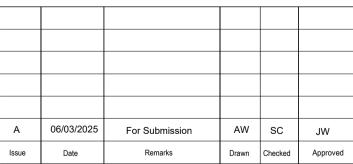
— Draft Order Limits

— Cable Limit of Deviation Proposed Access Route

Vehicle Tracking Chassis Outline Swept Path

Vehicle Tracking Body Outline Swept Path ---- Permanent Monitoring Access

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THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - SUFFOLK: INDICATIVE BELLMOUTH ACCESS ARRANGEMENT S-BM05 (S-AP-8) & S-BM02 (S-AP-9) REGULATION 5(2)(o) SHEET 1 OF 1

nationalgrid

Application Number EN020026

National Grid Drawing Reference

DCO/S/DE/SS/1225 SHEET 1 OF 1 A

SCALE BARS (METRES)

The Great Grid Upgrade

Sea Link

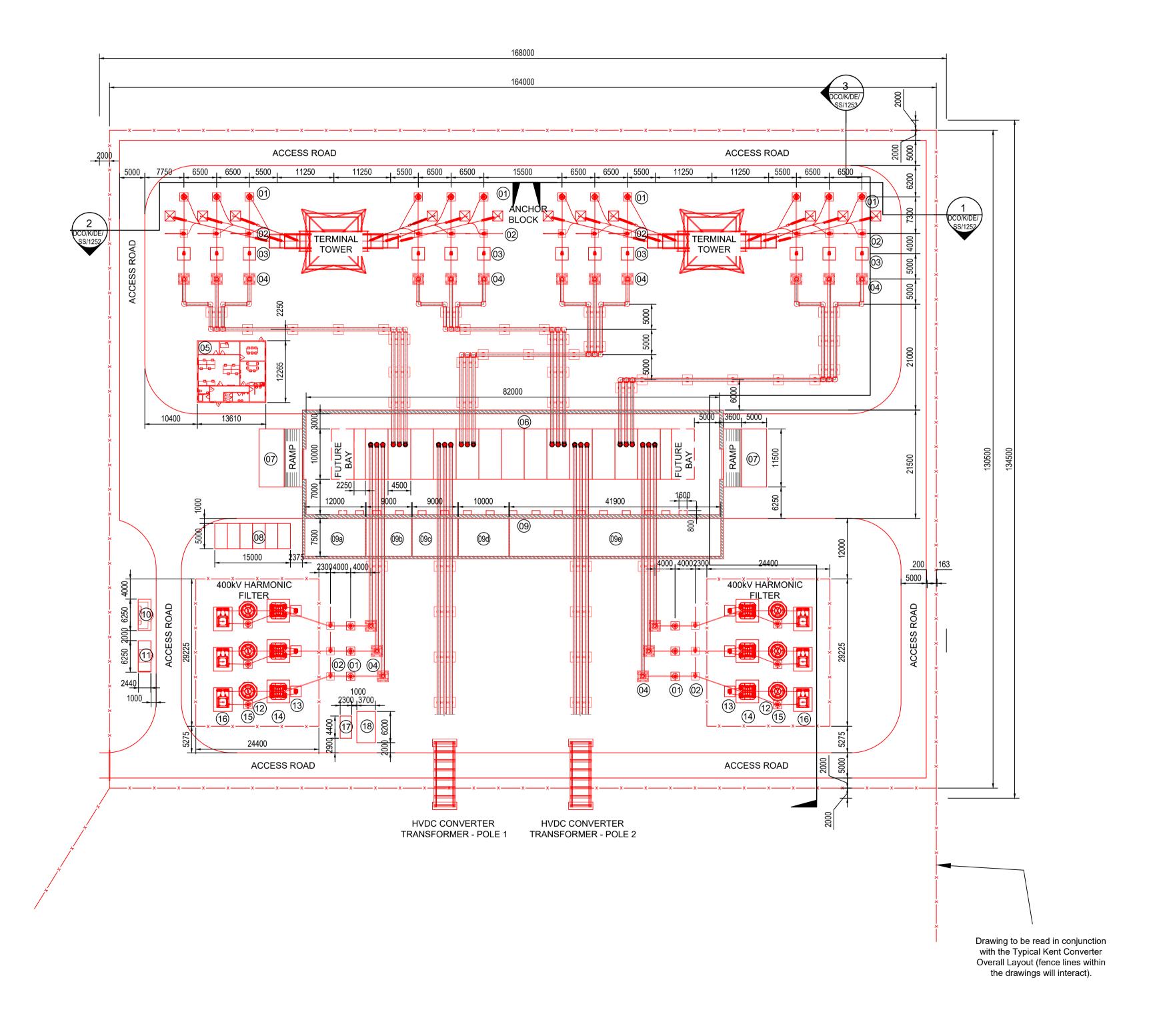
2.13.2 Design and Layout Plans - Kent





THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - KENT: TYPICAL KENT SUBSTATION - OVERALL LAYOUT REGULATION 5(2)(o) SHEET 1 of 1

NOMINAL SYSTEM VOLTAGE	PHASE TO EARTH	PHASE TO PHASE	SAFETY DISTANCE (FROM NATIONAL GRID SAFETY RULES)	DESIGN CLEARANCE FOR SAFETY (VERTICAL) Ds	DESIGN CLEARANCE FOR SAFETY (HORIZONTAL) Dsh	INSULATION HEIGHT Ih
kV	M	M	M	M	M	М
400	2.8	3.6	3.1	5.5	4.6	2.4
<u> </u>	<u> </u>				1	



Notes

This plan is scaled at paper size A1, therefore any prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against.

2. These plans will sit within the Order Limits. Due to the need for future flexibility, National Grid will be applying for Order Limits and Limits of Deviation within its Development Consent Order, within which any final alignment would lie. Therefore, all aspects of the authorised development, including the cable alignment, converter stations, substations and pylon locations should be treated as indicative only.

3. For further information on construction please refer to the construction section of the Environmental Statement.

4. Reference should be made to the Guide to the Plans (Document Ref 2.1) which provides further information on what the plans show. 5. Abbreviation

- PRE-INSERTION RESISTOR

- CAPACITOR - RESISTOR

- REACTOR

- POST INSULATOR - CURRENT TRANSFORMER

- CAPACITIVE VOLATGE TRANSFORMER

CVT - CAPACITIVE VOLATGE TRA
ES - EARTH SWITCH
SA - SURGE ARRESTER
PRR - PORTABLE RELAY ROOM

LCC - LOCAL CONTROL STATION

Application document 2.13.2

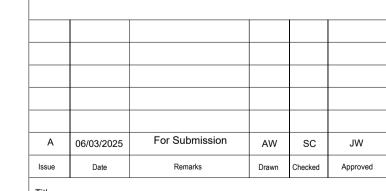
Key to symbols

—— X —— **FENCE**

NEW EQUIPMENT

Equipment Schedule

ID	DESCRIPTION
01	400kV AIS SURGE ARRESTOR
02	400kV AIS EARTH SWITCH
03	400kV AIS CVT
04	400kV GIS / AIR BUSHING
05	AMENITIES BUILDING
06	400kV GIS HALL
07	HARDSTANDING AREA
08	PARKING
09	400kV ANNEX BUILDING
09a	BATTERY ROOM
09b	LVAC SUPPLIES DISTRIBUTION ROOM
09c	TELECOMS ROOM
09d	SUBSTATION CONTROL SYSTEM/PERMIT ROOM
09e	PROTECTION ROOM
10	WORKSHOP
11	STORAGE
12	SURGE ARRESTOR
13	CURRENT TRANSFORMER
14	CAPACITOR
15	REACTOR
16	RESISTOR
17	DIESEL TANK
4.0	54500510VDI5051 051504705



18 EMERGENCY DIESEL GENERATOR

THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - KENT: TYPICAL KENT SUBSTATION - OVERALL LAYOUT REGULATION 5(2)(o) SHEET 1 of 1

nationalgrid

Application Number

EN020026

National Grid Drawing Reference DCO/K/DE/SS/1250 SHEET 1 OF 1 A



THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - KENT: TYPICAL KENT CONVERTER STATION - LAYOUT PLAN (GIS) REGULATION 5(2)(o) SHEET 1 of 1

NOMINAL SYSTEM VOLTAGE	TO	TO	SAFETY DISTANCE (FROM NATIONAL GRID SAFETY RULES)	DESIGN CLEARANCE FOR SAFETY (VERTICAL) Ds	DESIGN CLEARANCE FOR SAFETY (HORIZONTAL) Dsh	INSULATIO HEIGHT Ih
kV	M	M	M	M	М	M
400	2.8	3.6	3.1	5.5	4.6	2.4

NOMINAL SYSTEM VOLTAGE	TO	TO	SAFETY DISTANCE (FROM NATIONAL GRID SAFETY RULES)		DESIGN CLEARANCE FOR SAFETY (HORIZONTAL) Dsh	INSULATION HEIGHT Ih
kV	M	M	M	M	М	М
400	2.8	3.6	3.1	5.5	4.6	2.4



SHEET 1 OF 1 A

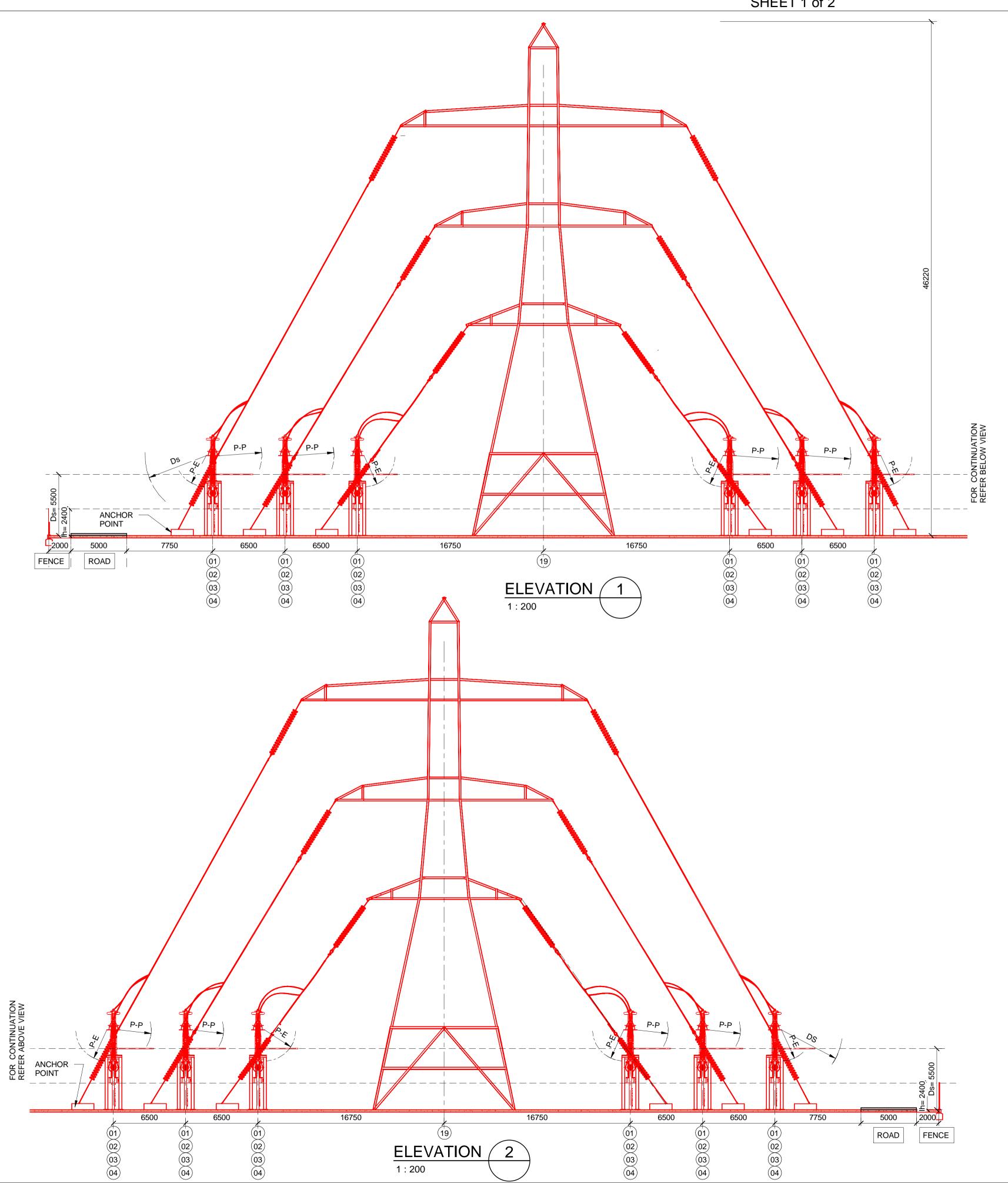
Notes



THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026

DESIGN AND LAYOUT PLANS - KENT: TYPICAL KENT SUBSTATION - ELEVATION DRAWING

REGULATION 5(2)(o) SHEET 1 of 2



1:200

SUBSTATION MINIMUM ELECTRICAL CLEARANCES					
REF	F CLEARANCE (mm)				
	` '	400kV			
P-E	PHASE TO EARTH	2800			
P-P	PHASE TO PHASE	3600			
SD	SAFETY DISTANCE NATIONAL GRID SAFETY RULES	3100			
Ds	DESIGN CLEARANCE FOR SAFETY (VERTICAL)	5500			
Dsh	DESIGN CLEARANCE FOR SAFETY (HORIZONTAL)	4600			
lh	INSULATION HEIGHT	2400			

Notes

- 1. This plan is scaled at paper size A1, therefore any prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against. These plans will sit within the Order Limits. Due to the need for future flexibility, National Grid will be applying for Order Limits and Limits of Deviation within its
- Development Consent Order, within which any final alignment would lie. Therefore, all aspects of the authorised development, including the cable alignment, converter stations, substations and pylon locations should be treated as indicative only.
 - For further information on construction please refer to the construction section of the Environmental Statement. Refer to DCO/K/DE/SS/1250 for overall layout plans.
 - Reference should be made to the Guide to the Plans (Document Ref 2.1) which provides further information on what the plans show. ABBREVIATION
 - PLC POWER LINE CARRIER
 AIS AIR INSULATED SWITCHGEAR
 - CVT CAPACITIVE VOLTAGE TRANSFORMER
 GIS GAS INSULATED SWITCHGEAR
 PIR PRE INSERTION RESISTOR
 LCC LOCAL CONTROL CUBICLE

 - PH PHASE GIB GAS INSULATED BUSDUCT

Application document 2.13.2

Legend

New Equipment

Equipment Schedule				
Item	Description			
01	400kV AIS SURGE ARRESTOR			
02	400kV AIS EARTH SWITCH			
03	400kV AIS CVT			
04	400kV GIS / AIR BUSHING			
06	400kV GIS HALL			
13	400 kV HARMONIC FILTER - CURRENT TRANSFORMER			
14	400 kV HARMONIC FILTER - CAPACITOR			
15	400 kV HARMONIC FILTER - REACTOR			
16	400 kV HARMONIC FILTER - RESISTOR			
19	400kV TERMINAL TOWER			
20	LCC			

Α	06/03/2025	DCO Submission	СВ	JW	KJ
Issue	Date	Remarks	Drawn	Checked	Approved

THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026

DESIGN AND LAYOUT PLANS - KENT: TYPICAL KENT SUBSTATION - ELEVATION DRAWING

REGULATION 5(2)(o) SHEET 1 of 2

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Application Number

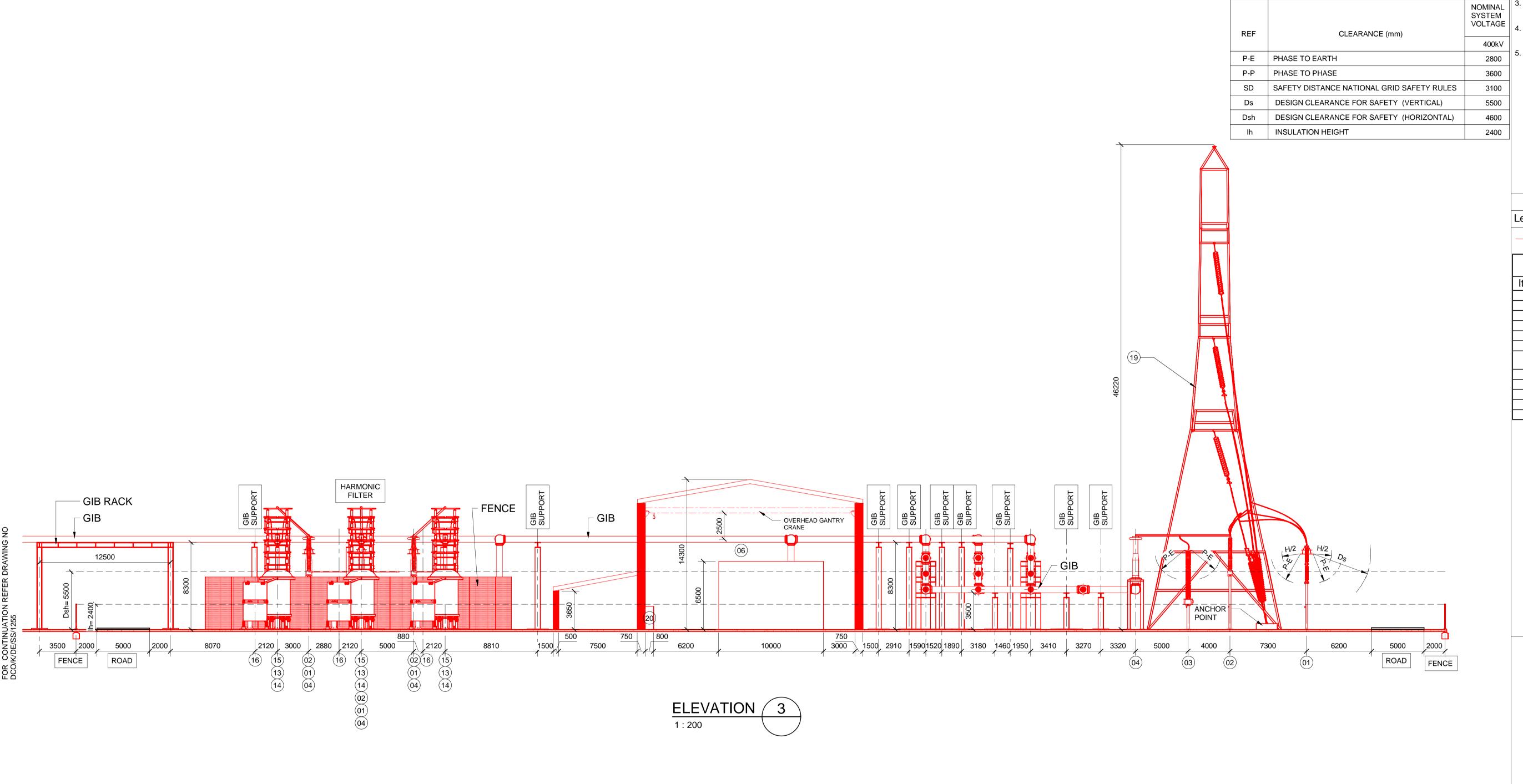
EN020026 National Grid Drawing Reference DCO/K/DE/SS/1252

SHEET 1 of 2 A

THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026

DESIGN AND LAYOUT PLANS - KENT: TYPICAL KENT SUBSTATION - ELEVATION DRAWING

REGULATION 5(2)(o) SHEET 2 OF 2



Notes

SUBSTATION MINIMUM ELECTRICAL CLEARANCES

- 1. This plan is scaled at paper size A1, therefore any prints taken at smaller sizes will affect accuracy of the
- measurement units and should not be scaled against.

 2. These plans will sit within the Order Limits. Due to the need for future flexibility, National Grid will be applying for Order Limits and Limits of Deviation within its Development Consent Order, within which any final alignment would lie. Therefore, all aspects of the authorised development, including the cable alignment,
- should be treated as indicative only.

 3. For further information on construction please refer to the construction section of the Environmental
- Statement.

 Reference should be made to the Guide to the Plans (Document Ref 2.1) which provides further information

converter stations, substations and pylon locations

- on what the plans show.
 ABBREVIATION
- PLC POWER LINE CARRIER
- AIS AIR INSULATED SWITCHGEAR CVT - CAPACITIVE VOLTAGE TRANSFORMER
- GIS GAS INSULATED SWITCHGEAR
- PIR PRE INSERTION RESISTOR LCC LOCAL CONTROL CUBICLE
- PH PHASE
- GIB GAS INSULATED BUSDUCT

Application document 2.13.2

Legend

New Equipment

Equipment Schedule					
Item	Description				
01	400kV AIS SURGE ARRESTOR				
02	400kV AIS EARTH SWITCH				
03	400kV AIS CVT				
04	400kV GIS / AIR BUSHING				
06	400kV GIS HALL				
13	400 kV HARMONIC FILTER - CURRENT TRANSFORMER				
14	400 kV HARMONIC FILTER - CAPACITOR				
15	400 kV HARMONIC FILTER - REACTOR				
16	400 kV HARMONIC FILTER - RESISTOR				
19	400kV TERMINAL TOWER				
20	LCC				

Α	06/03/2025	DCO Submission	СВ	JW	KJ
Issue	Date	Remarks	Drawn	Checked	Approved
	•	•		•	

Title THE NATIONAL GRID (SEA LINK) ORDER
PINS APPLICATION NUMBER: EN020026

DESIGN AND LAYOUT PLANS - KENT: TYPICAL KENT SUBSTATION - ELEVATION DRAWING

REGULATION 5(2)(o) SHEET 2 OF 2

4.5	•
national	ario

Application Number

EN020026

National Grid Drawing Reference

 DCO/K/DE/SS/1253

 Scale
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 Sheet
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 SHEET 2 OF 2
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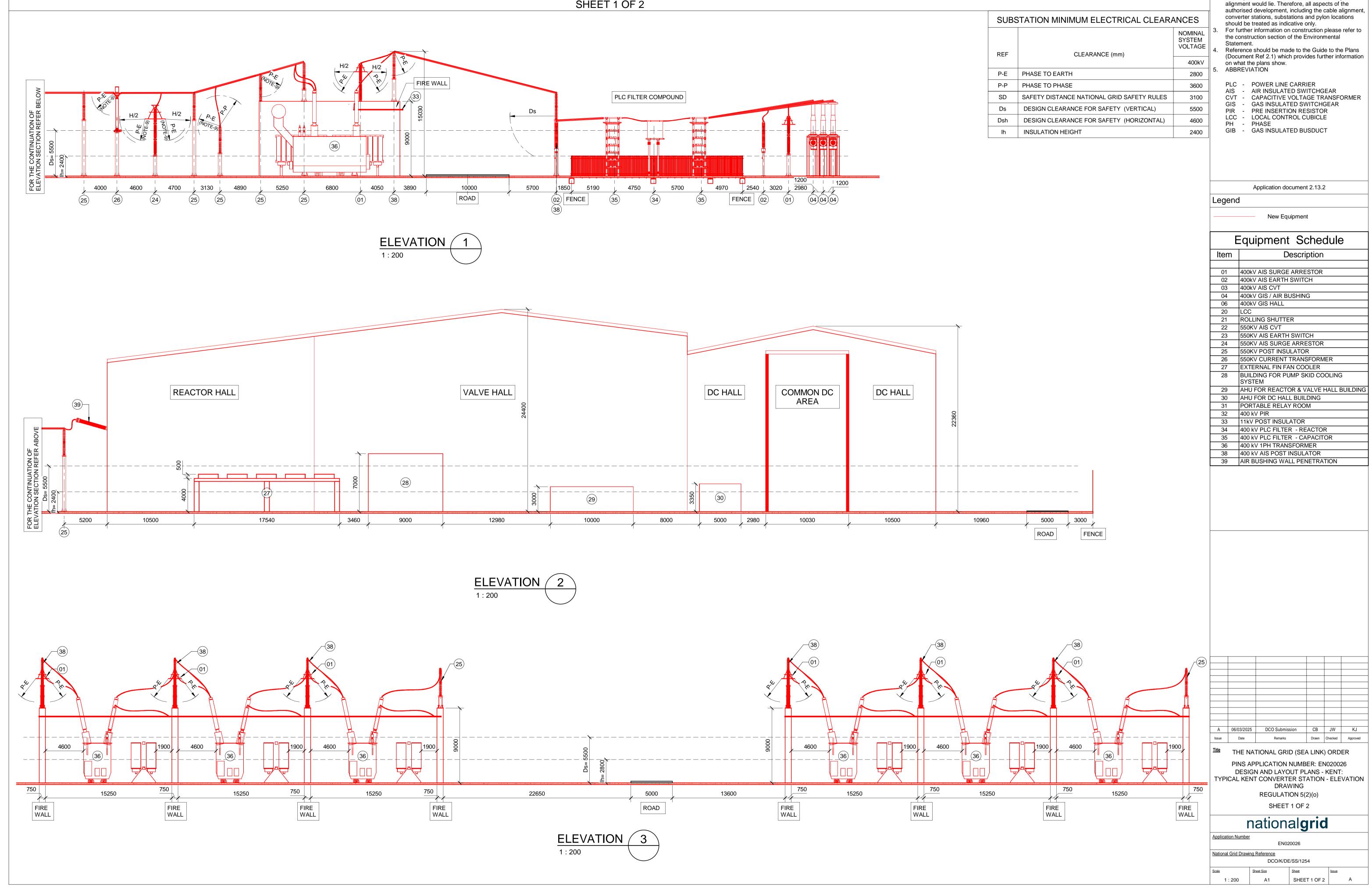
THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - KENT: TYPICAL KENT CONVERTER STATION - ELEVATION DRAWING REGULATION 5(2)(0) SHEET 1 OF 2

Notes

This plan is scaled at paper size A1, therefore any prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against. These plans will sit within the Order Limits. Due to the

for Order Limits and Limits of Deviation within its Development Consent Order, within which any final

need for future flexibility, National Grid will be applying



THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - KENT: TYPICAL KENT CONVERTER STATION - ELEVATION DRAWING REGULATION 5(2)(o) SHEET 2 OF 2

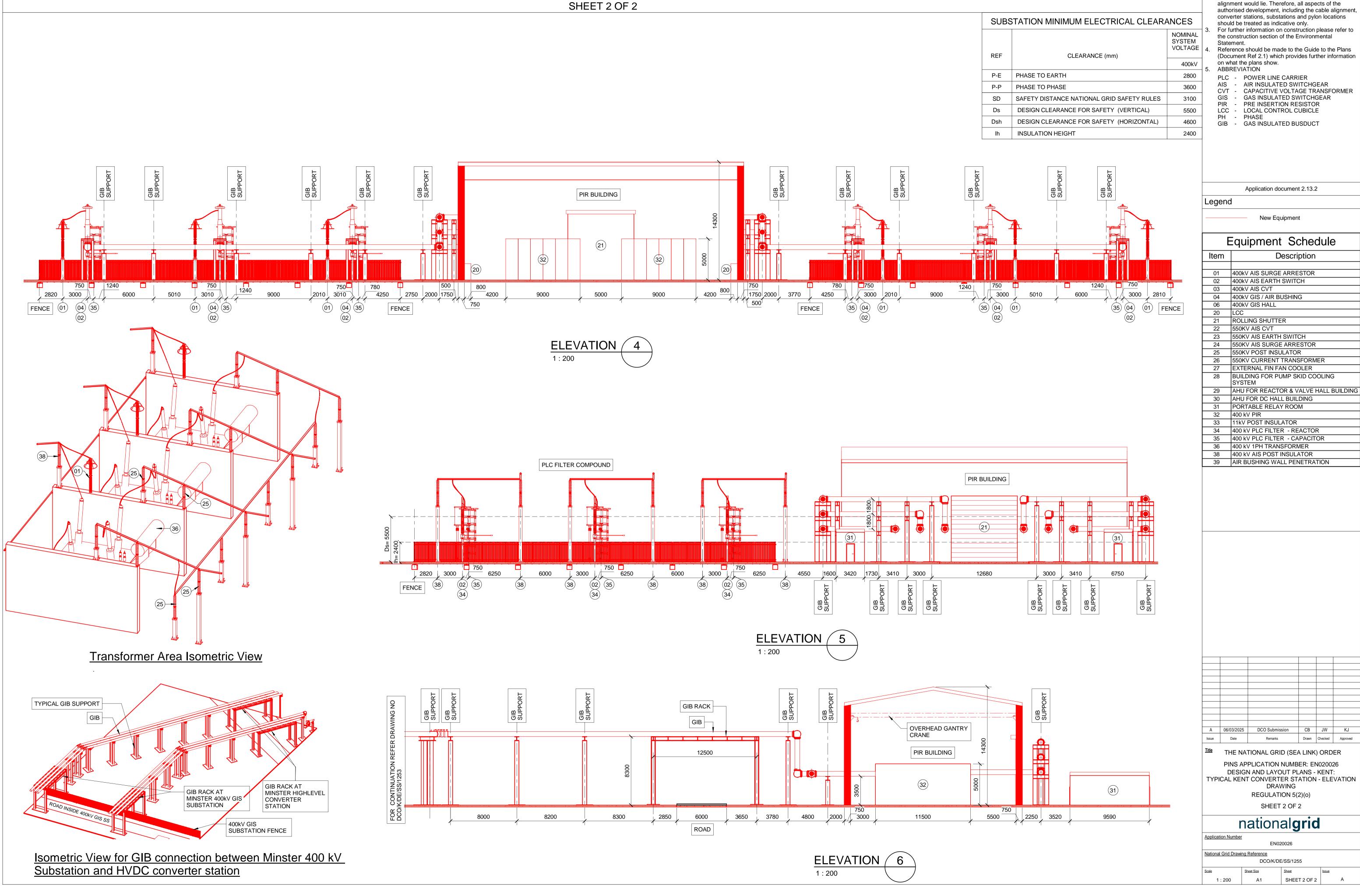
Notes

This plan is scaled at paper size A1, therefore any

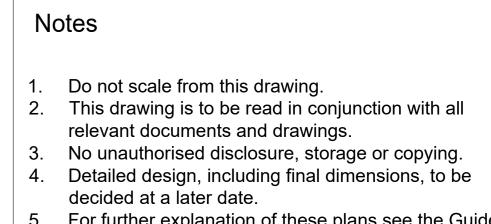
for Order Limits and Limits of Deviation within its Development Consent Order, within which any final

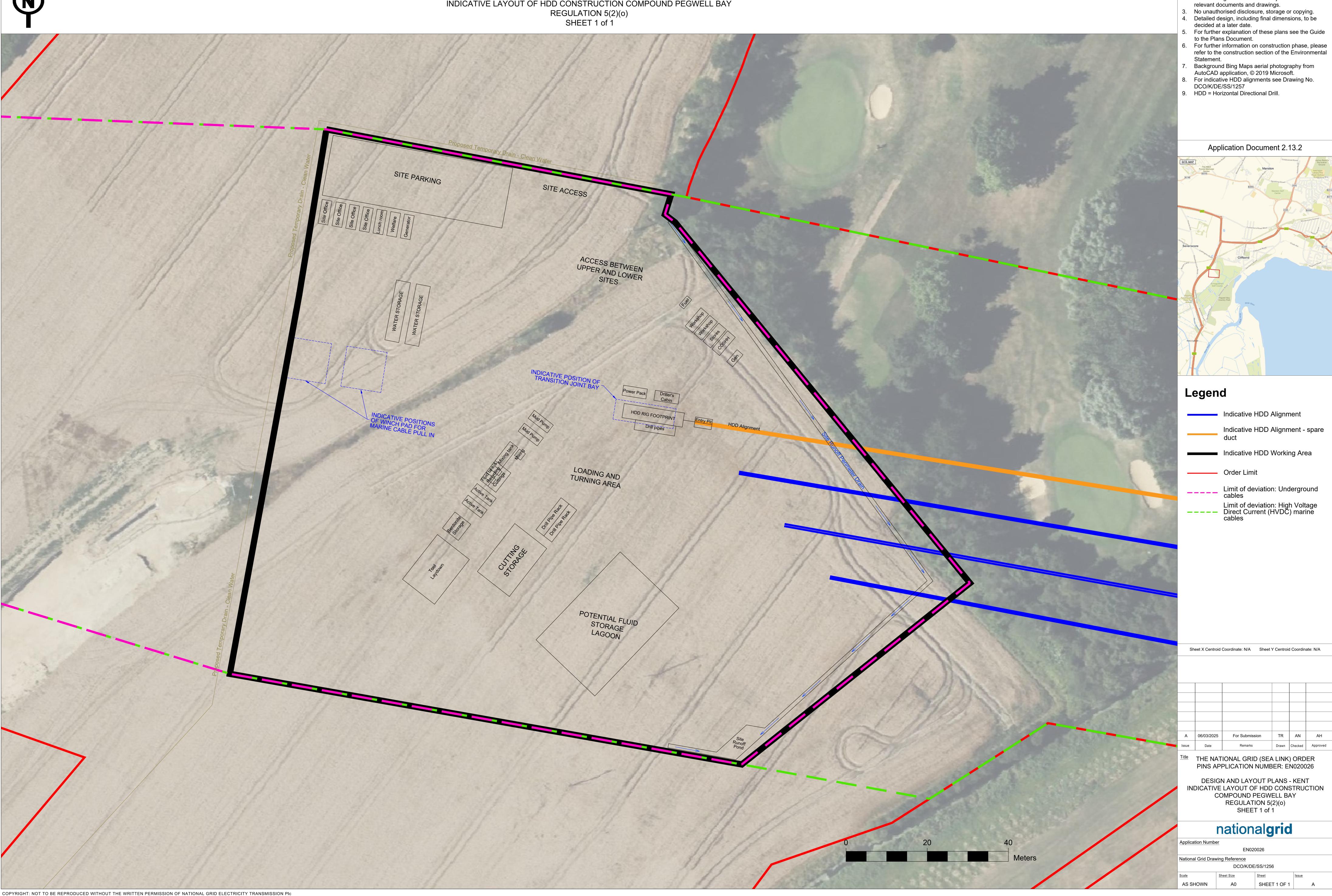
prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against. These plans will sit within the Order Limits. Due to the

need for future flexibility, National Grid will be applying



THE NATIONAL GRID (SEA LINK) ORDER
PINS APPLICATION NUMBER: EN020026
DESIGN AND LAYOUT PLANS - KENT
INDICATIVE LAYOUT OF HDD CONSTRUCTION COMPOUND PEGWELL BAY
REGULATION 5(2)(o)

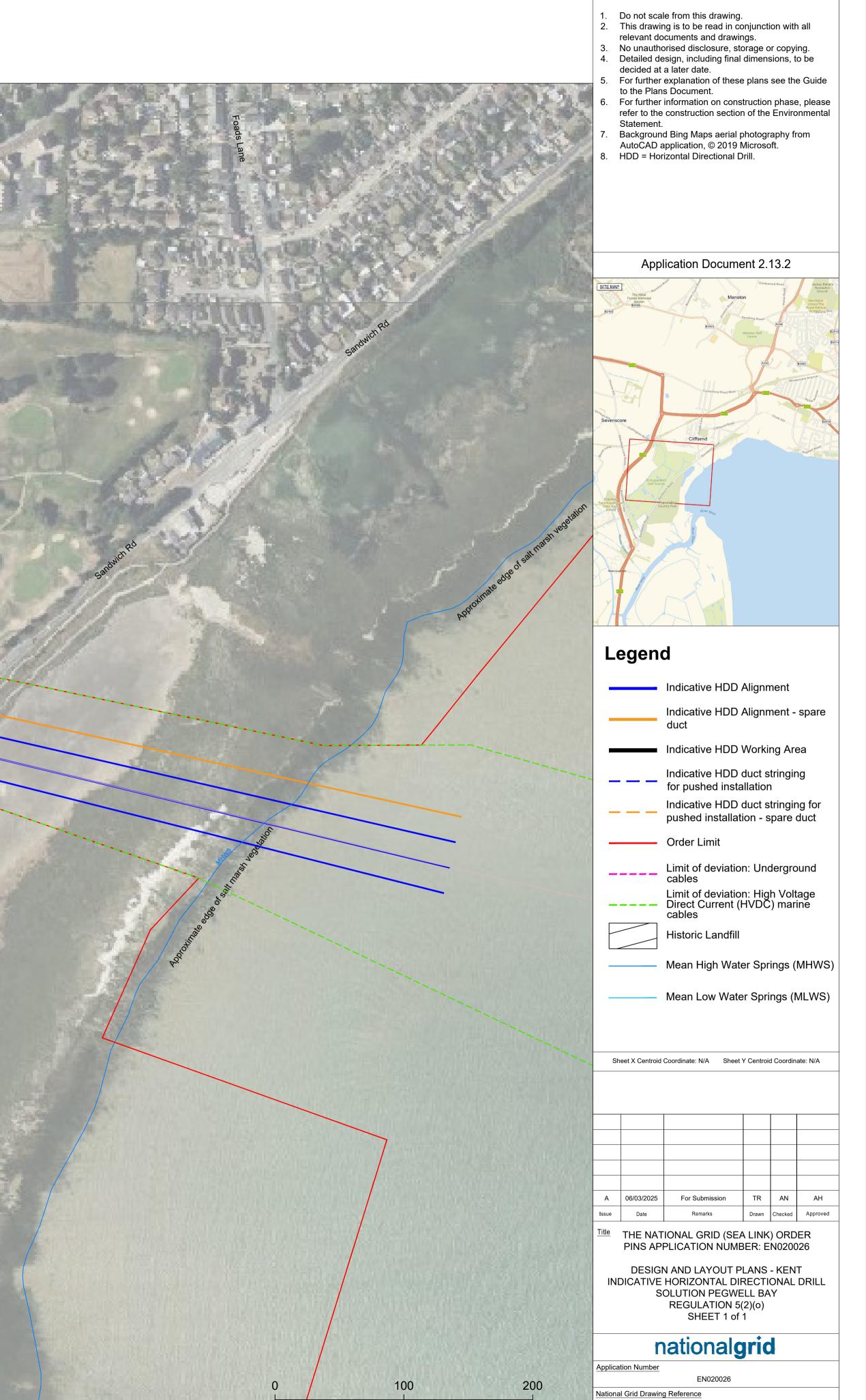




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THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - KENT INDICATIVE HORIZONTAL DIRECTIONAL DRILL SOLUTION PEGWELL BAY REGULATION 5(2)(o) SHEET 1 of 1





DCO/K/DE/SS/1257 A0 SHEET 1 OF 1 A AS SHOWN



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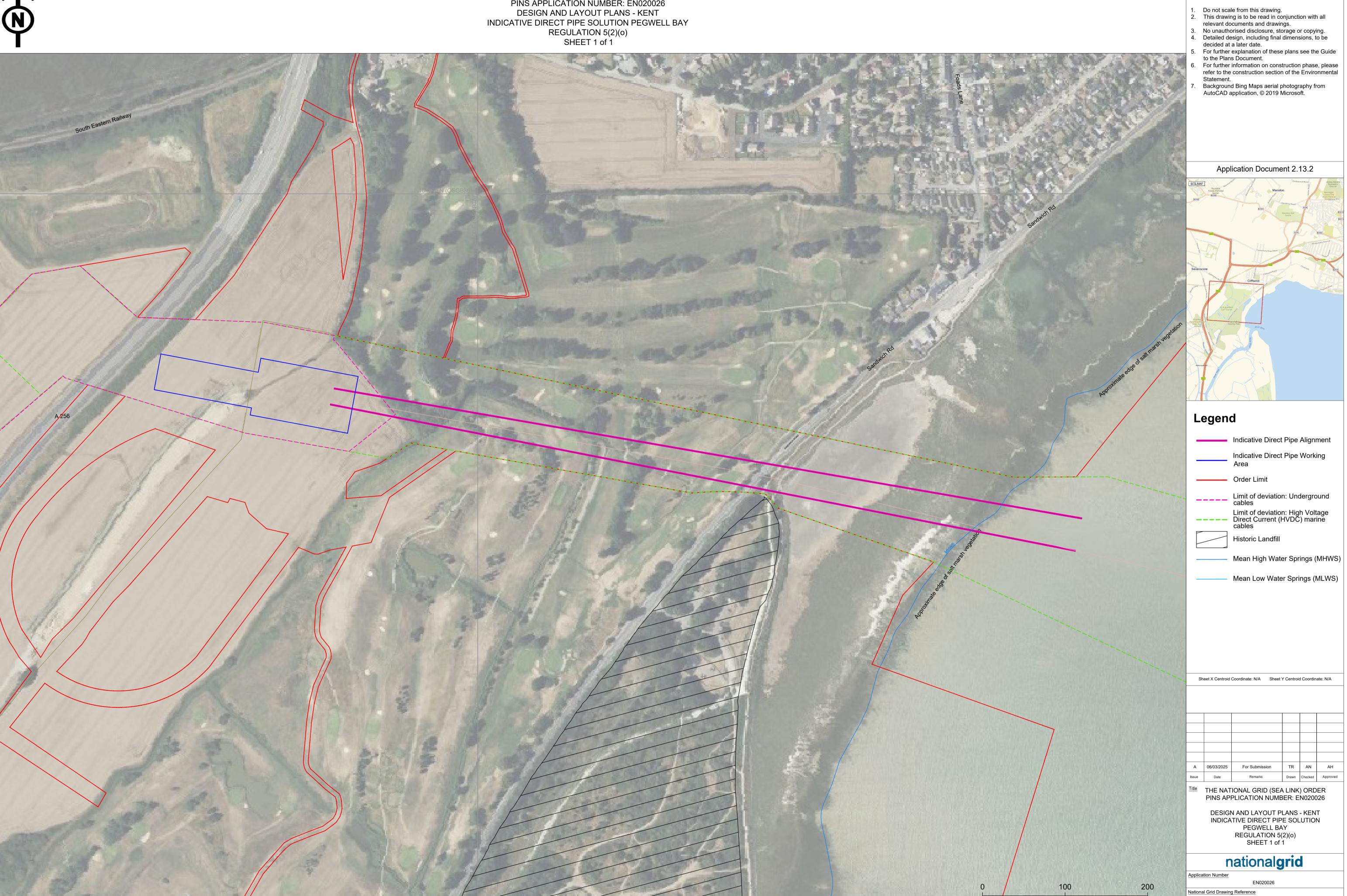
THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - KENT INDICATIVE DIRECT PIPE SOLUTION PEGWELL BAY REGULATION 5(2)(o) SHEET 1 of 1

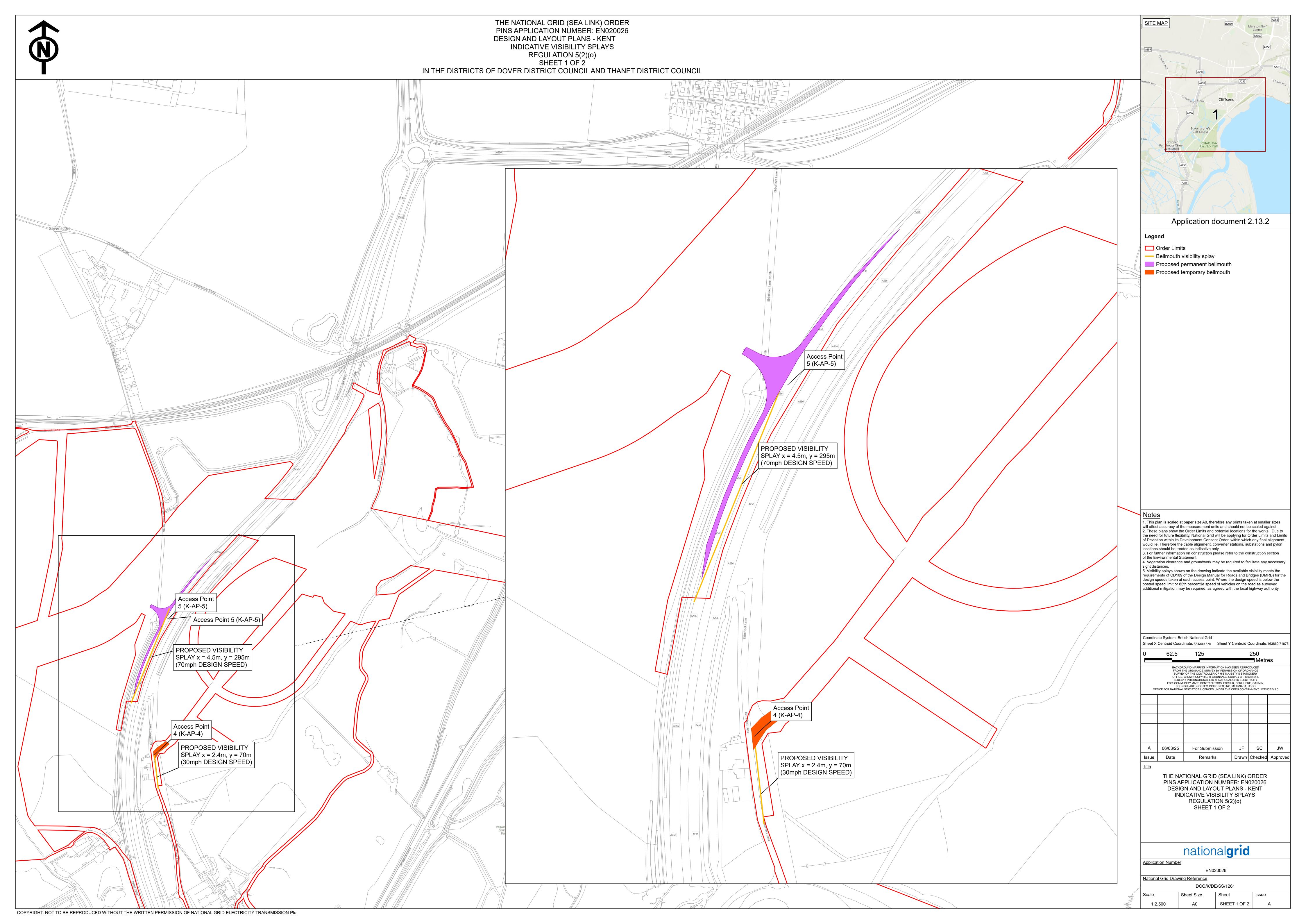


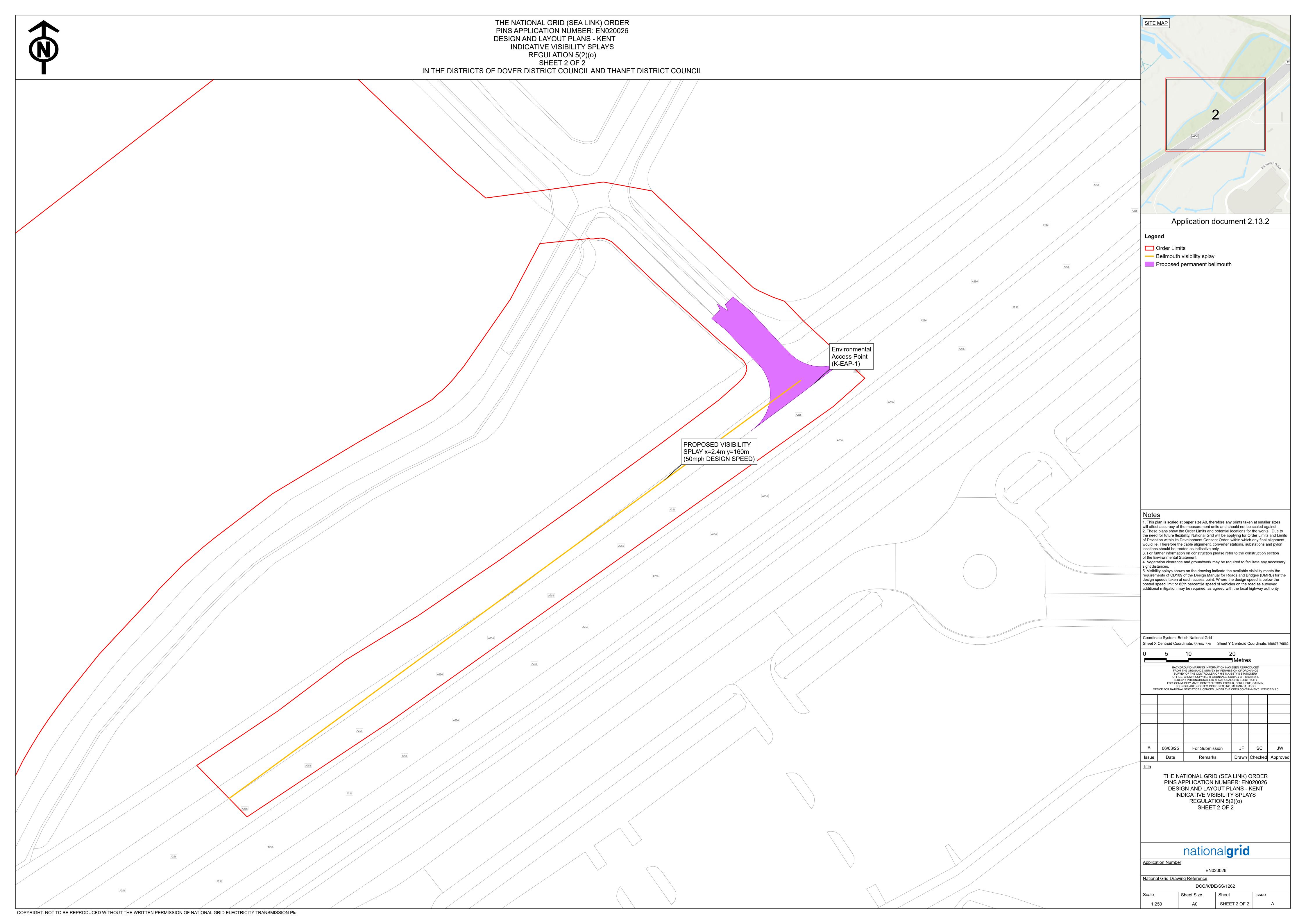
DCO/K/DE/SS/1258

AS SHOWN

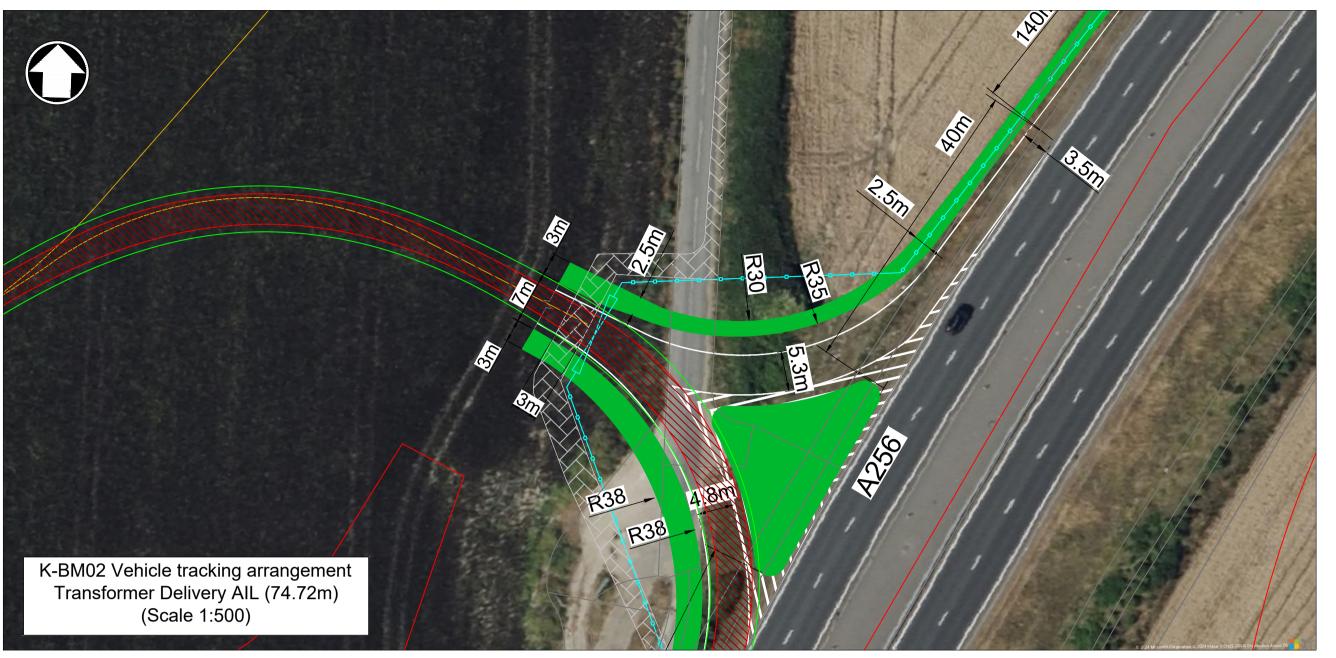
A0 SHEET 1 OF 1 A





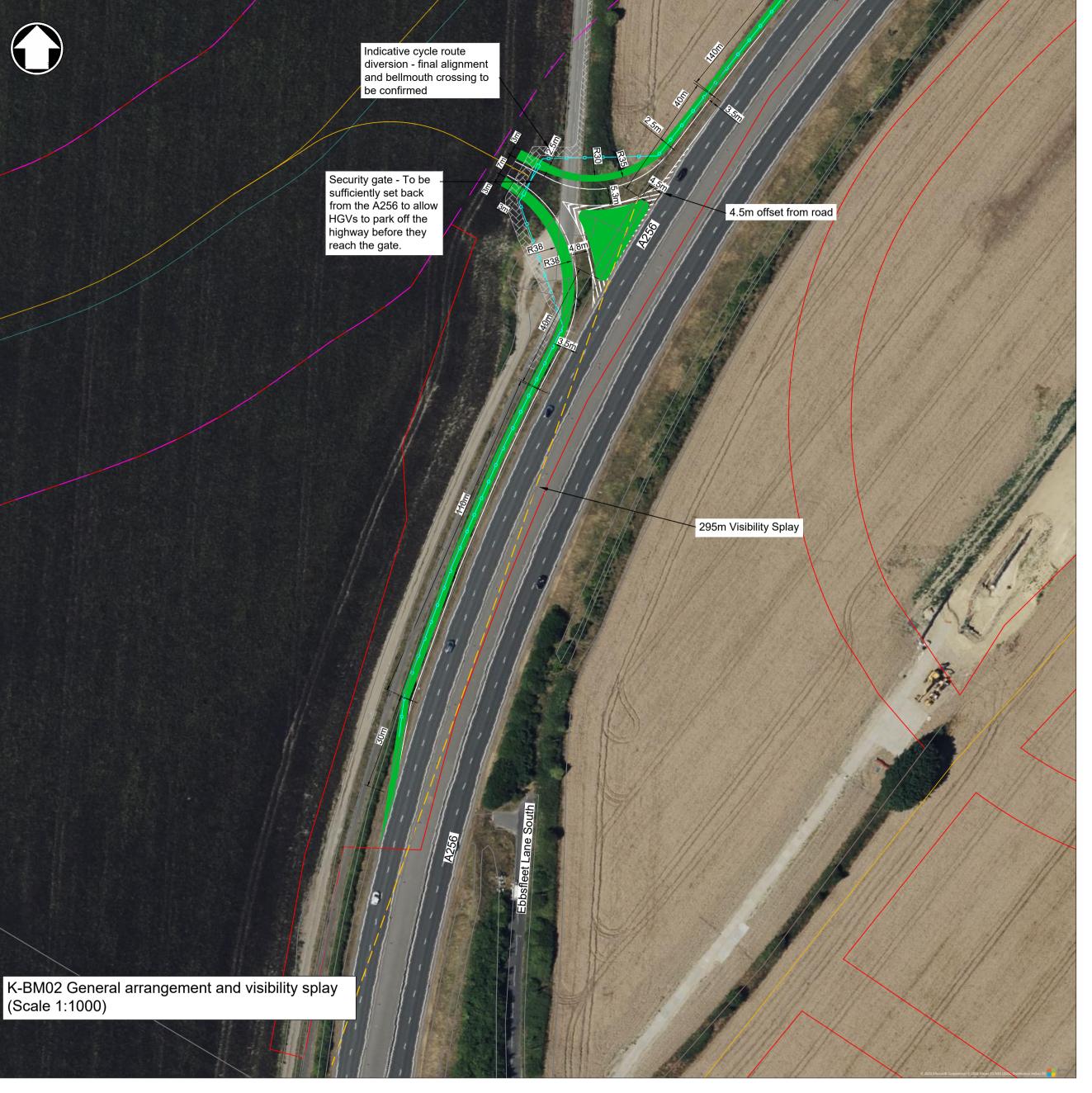


THE NATIONAL GRID (SEALINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - KENT: INDICATIVE BELLMOUTH ACCESS ARRANGEMENT K-BM02 (K-AP-5) REGULATION 5(2)(o) SHEET 1 OF 1



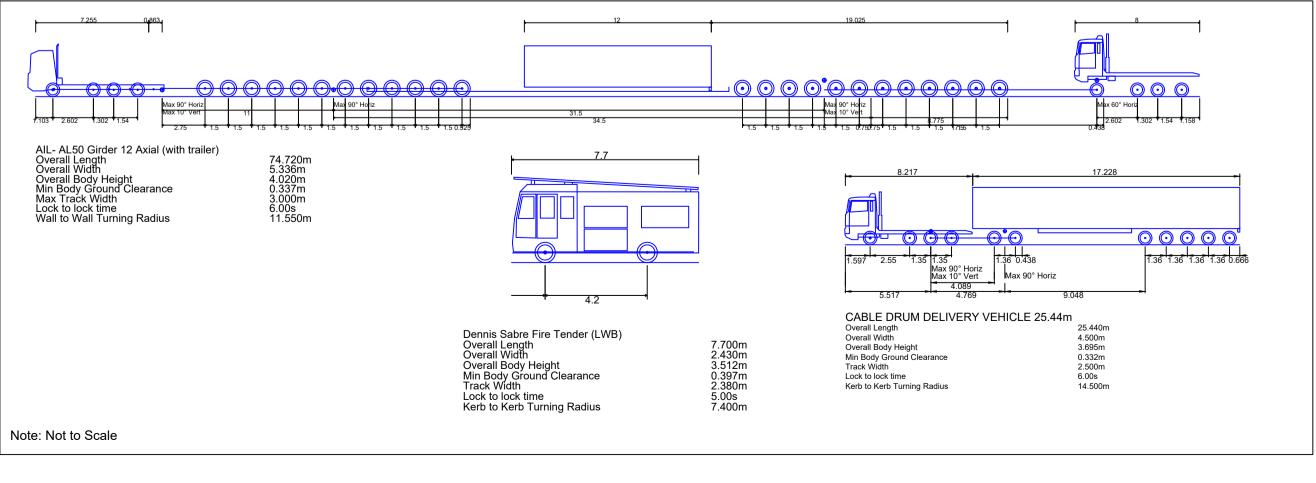






Vehicle Diagram

1:1000



- 1. This drawing is for development purposes only and should not be used for construction.
- 2. All dimensions are in meters unless otherwise stated. 3. Do not scale any items of information from this
- 4. Proposed arrangements shown for indicative purposes only. Dimensions and design may vary
- following completion of site surveys and the detailed 5. This plan is scaled at paper size A1, therefore any prints taken at smaller sizes will affect accuracy of
- the measurement units and should not be scaled 6. Alignment/specification of fencing and gates subject
- to site conditions and contractor requirements. Proposed fences to tie into existing fences/hedgerows.
- 7. Vegetation clearance and groundwork may be required to facilitate any necessary sight distances. 8. The vehicles used in this drawing are indicative of
- those expected to be using this construction access. Actual turning radii and vehicle track will depend on the precise vehicles used by the works contractor.
- 9. Visibility splays shown on the drawing indicate the visibility currently available on site based on Stopping Site Distance (SSD) as per CD 109 of the DMRB.
- 10. The road currently has a 70mph speed limit requiring a SSD of 295m which is currently available on site. Some vegetation clearance may be required.
- 11. Cable deliveries are expected to require use of additional lanes and will require traffic control
- 12. For construction of the bellmouth it is anticipated that temporary a lane closure or contraflow will be
- 13. Vehicles considered for the swept path analysis do not incorporate rear axles steering. 14. AlL movements will be agreed and coordinated with
- the relevant authorities, it is anticipated that delivery of the transformer would require the temporary closure and contraflow of the A256 to enable access south along the northbound carriageway.
- 15. Existing traffic signs should be retained or relocated so that consistent messages are displayed to motorists following construction of the new junction. 16. Bellmouth drawings have been aligned to OS
- mapping (aerial imagery has been shown for
- 17. Reference should be made to the Guide to the Plans (Document Ref 2.1) which provides further information on what the plans show.

Application document 2.13.2

Legend Proposed Bellmouth General Arrangement

Security Gate New Fence

--- Highway Visibility Splay (see note 10)

HVDC Cable Alignment

— Draft Order Limits --- Cable Limit of Deviation

Indicative Construction Compound

Proposed Access Route Proposed Traffic Island and Grass Verge

Proposed PRoW and Cycle Way Diversion

Proposed Ebbslfeet Lane North Turning Head

Vehicle Tracking Chassis Outline Swept Path

Vehicle Tracking Body Outline Swept Path

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For Submission

THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - KENT: INDICATIVE BELLMOUTH ACCESS ARRANGEMENT K-BM02 (K-AP-5)

REGULATION 5(2)(o)

SHEET 1 OF 1

nationalgrid

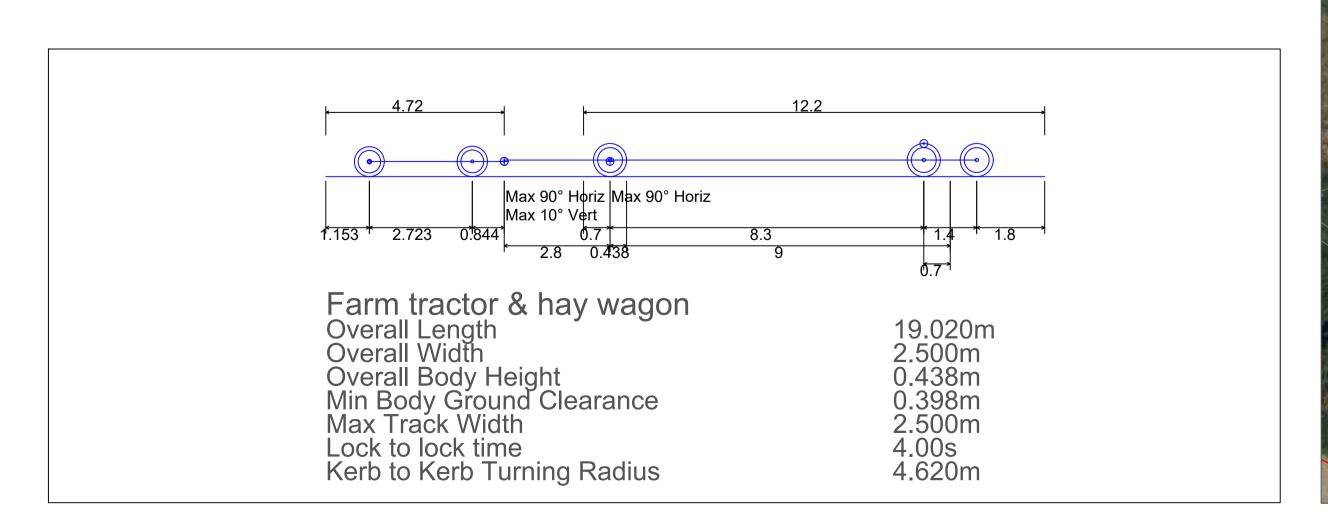
Application Number EN020026

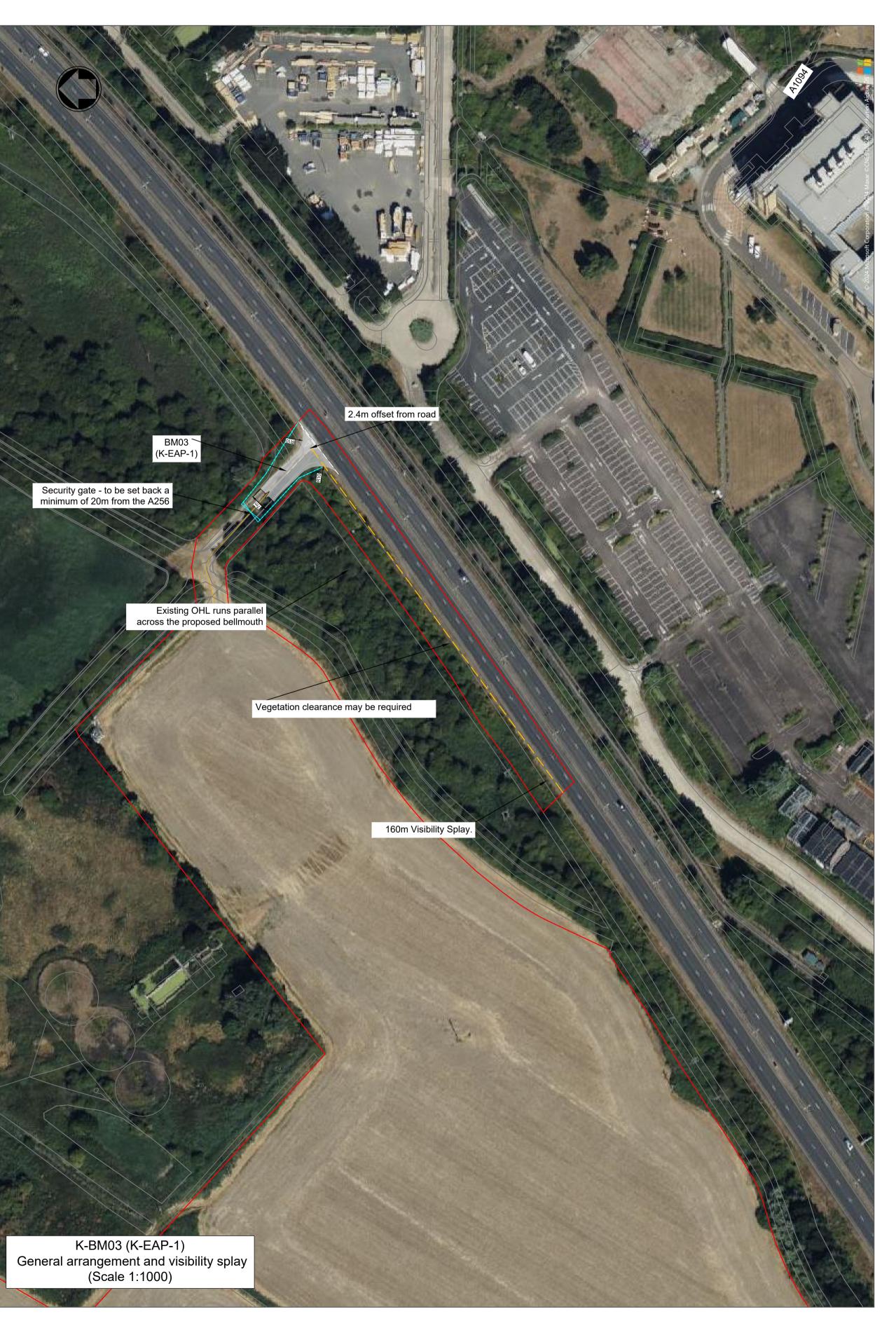
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THE NATIONAL GRID (SEALINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - KENT: INDICATIVE BELLMOUTH ACCESS ARRANGEMENT K-BM03 (K-EAP-1) REGULATION 5(2)(o) SHEET 1 OF 1









- 1. This drawing is for development purposes only and should not be used for construction.
- 2. All dimensions are in meters unless otherwise stated. 3. Do not scale any items of information from this
- Proposed arrangements shown for indicative purposes only. Dimensions and design may vary following completion of site surveys and the detailed
- This plan is scaled at paper size A1, therefore any prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against.
- 6. Alignment/specification of fencing and gates subject to site conditions and contractor requirements.
- 7. Vegetation clearance and groundwork may be required to facilitate any necessary sight distances.
- 8. The vehicles used in this drawing are indicative of those expected to be using this access. Actual turning radii and vehicle track will depend on the precise vehicles used by the works contractor.
- 9. Where required by the local highways authority, the proposed junction will have traffic management that will be designed and installed in accordance with Chapter 6 of the Traffic Signs Manual. Appropriate warning signage will be used where necessary.
- 10. Visibility splays shown on the drawing indicate the visibility currently available on site based on Stopping Sight Distance (SSD) as per CD 109 of the DMRB.

 11. The road currently has a 50mph speed limit requiring a SSD of 160m.
- 12. For construction of the bellmouths, it is anticipated that temporary lane closures or carriageway narrowing will be installed.
- 13. Fencelines to tie into existing fencelines, hedgerows or wall where appropriate.
- 14. Vehicles considered for the swept path analysis do not incorporate rear axles steering.

 15. The bellmouths have been designed to guidance provided in the DMRB CD 123.
- 16. Bellmouth drawings have been aligned to OS
- mapping (aerial imagery has been shown for context). 17. Reference should be made to the Guide to the Plans (Document Ref 2.1) which provides further information on what the plans show.

Application document 2.13.2

Legend

Bellmouth General Arrangement

Security Gate

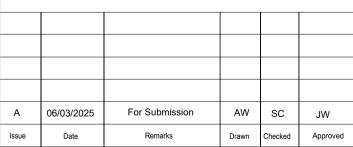
New Fence

--- Highway Visibility Splay (see note 10) Order Limits

Vehicle Tracking Chassis Outline Swept Path Vehicle Tracking Body Outline Swept Path

Proposed Access Route

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THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - KENT: INDICATIVE BELLMOUTH ACCESS ARRANGEMENT K-BM03 (K-EAP-1)
REGULATION 5(2)(o)
SHEET 1 OF 1

SHEET 1 OF 1 A

nationalgrid

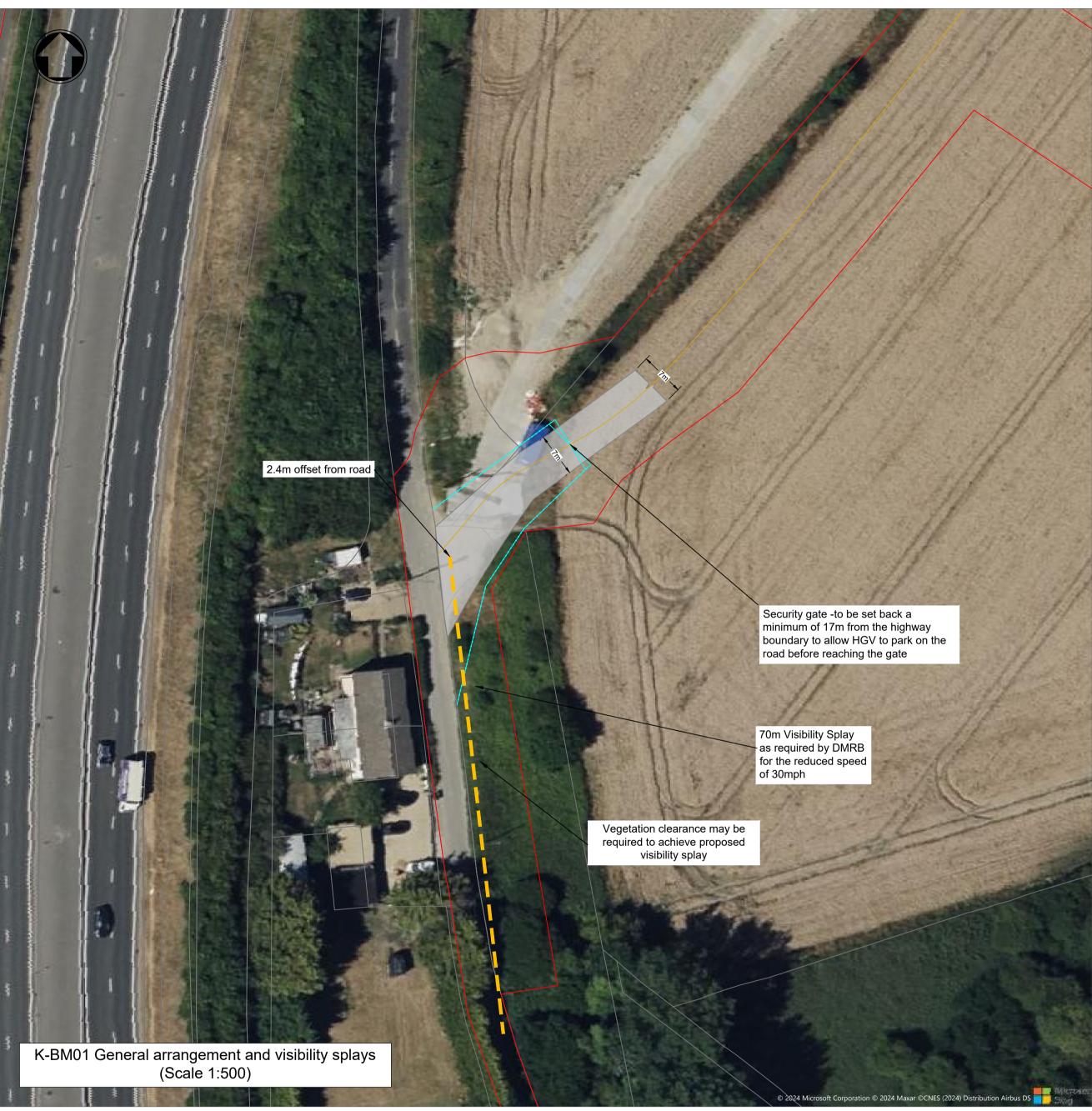
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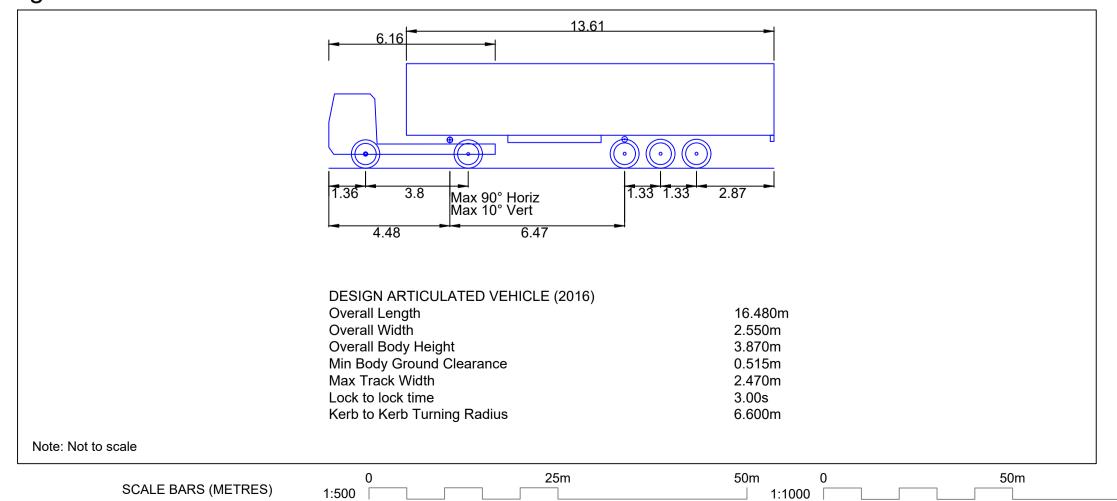
THE NATIONAL GRID (SEALINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - KENT: INDICATIVE BELLMOUTH ACCESS ARRANGEMENT K-BM01 (K-AP-4) REGULATION 5(2)(o) SHEET 1 OF 1







Vehicle Diagram



Notes

- 1. This drawing is for development purposes only and should not be used for construction.
- 2. All dimensions are in meters unless otherwise stated.
- 3. Do not scale any items of information from this drawing.
 - Proposed arrangements shown for indicative purposes only. Dimensions and design may vary following completion of site surveys and the detailed design. 5. This plan is scaled at paper size A1, therefore any
 - prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against. 6. Alignment/specification of fencing and gates subject
 - to site conditions and contractor requirements. 7. Vegetation clearance and groundwork may be
 - required to facilitate any necessary sight distances. 8. The vehicle used in this drawing are indicative of
 - those expected to be using this construction access. Actual turning radii and vehicle track will depend on the precise vehicles used by the works contractor. 9. Where required by the local highways authority, the
 - proposed junction will be controlled by traffic signals designed and installed in accordance with Chapter 6 of the Traffic Signs Manual. Appropriate warning signage will be used where necessary.
 - 10. Visibility splays shown on the drawing indicate the proposed visibility on site based on Stopping Site Distance (SDD) as per CD 109 of the DMRB.
 - 11. The road currently has a 40mph speed limit requiring a SSD of 120m. As required visibility is not available, a temporary 30mph speed limit is recommended. Some vegetation clearance may be required.
 - 12. For construction of the bellmouth it is anticipated that the end of Ebbsfleet Lane South would be closed off. 13. Vehicles considered for the swept path analysis do
 - not incorporate rear axles steering. 14. Bellmouth drawings have been aligned to OS
 - mapping (aerial imagery has been shown for context).
 - 15. Reference should be made to the Guide to the Plans (Document Ref 2.1) which provides further information on what the plans show.

Application document 2.13.2

Legend

Bellmouth General Arrangement

Security Gate

New Fence

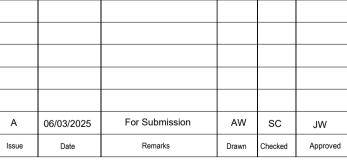
 Highway Visibility Splay (see note 10) — Draft Order Limits

Proposed Access Route

Vehicle Tracking Chassis Outline Swept Path

Vehicle Tracking Body Outline Swept Path

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THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - KENT: INDICATIVE BELLMOUTH ACCESS ARRANGEMENT K-BM01 (K-AP-4) REGULATION 5(2)(o)

SHEET 1 OF 1

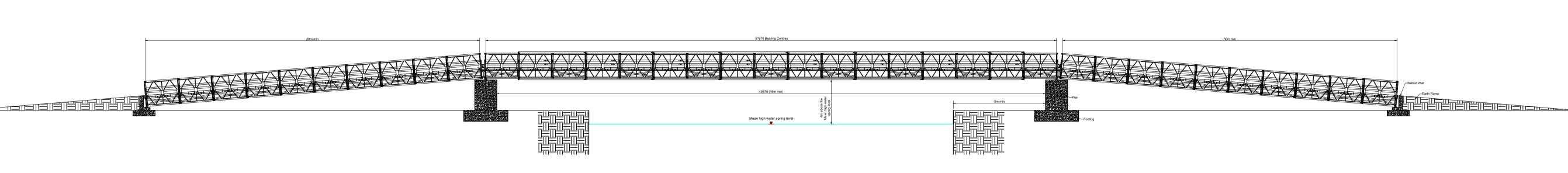
nationalgrid

Application Number EN020026 National Grid Drawing Reference

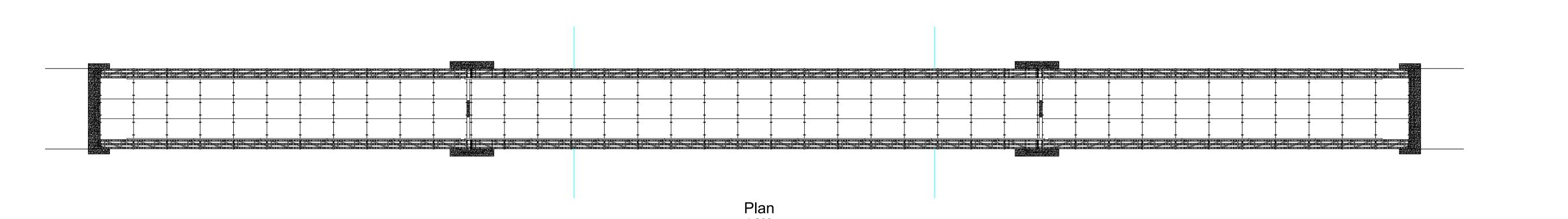
DCO/K/DE/SS/1265 SHEET 1 OF 1 A

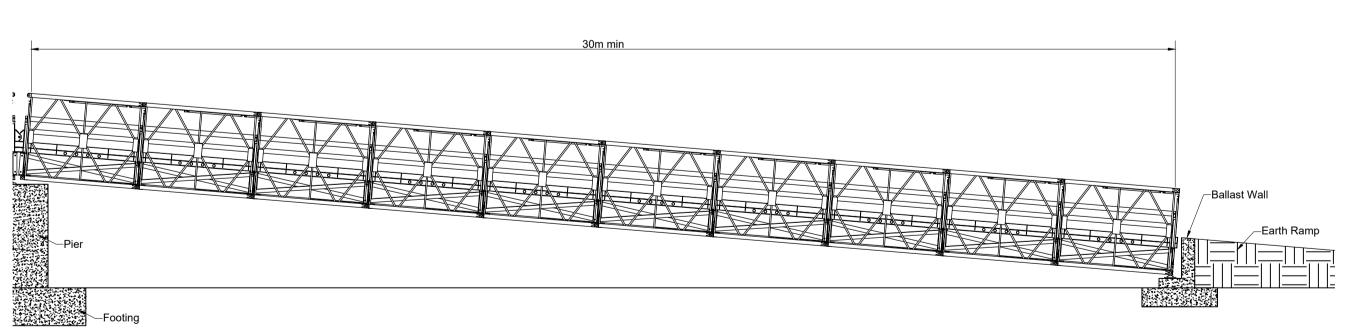
THE NATIONAL GRID (SEA LINK) ORDER This plan is scaled at paper size A1, therefore any prints taken at smaller sizes will affect accuracy of PINS APPLICATION NUMBER: EN020026 the measurement units and should not be scaled DESIGN AND LAYOUT PLANS - KENT: INDICATIVE RIVER STOUR (KENT) TEMPORARY CROSSING 2. These plans will sit within the Order Limits. Due REGULATION 5(2)(o) to the need for future flexibility, National Grid will be applying for Order Limits and Limits of Deviation within SHEET 1 OF 2 its Development Consent Order, within which any final alignment would lie. Therefore, all aspects of the authorised development, including the cable alignment, converter stations, substations and pylon locations should be treated as indicative only. 3. Reference should be made to the Guide to the Plans (Document Ref 2.1) which provides further 51670 Bearing Centres information on what the plans show. 4. For further information on construction please refer to the construction section of the Environmental Statement. All dimensions are in millimetres unless otherwise stated. Do not scale any items or information from this drawing. Indicative bridge structures shown for initial discussion and feasibility purposes only based on assumed required spans, vertical clearances and bridge 49670 (49m min) width. Subject to further development following confirmation of requirements and receipt of topographical and geotechnical survey. 8. This feasibility drawing is based on the Acrow 700XS Panel Bridge System for temporary use. The Mean high water spring level Acrow 700XS panel bridge is the gold standard in modular steel bridging. Robotically manufactured in the USA using high-strength steel from ISO-certified mills, the 700XS features robust orthotropic deck panels designed to handle heavy wheel loads, and is available in single-lane, two-lane or three-lane widths with optional pedestrian footwalks. |--|||-||||| 9. The Acrow 700XS bridge, with a span of approximately 50 meters, can withstand a total load of 170 tonnes. 10. The maximum load that will be applied to the temporary bridge crossing the River Stour in Kent is Elevation approximately 62 tonnes. 1:100 11. Only one vehicle is permitted on the bridge deck at any given time. Application document 2.13.2 Legend High mean water spring tide Reference drawings Plan 1:100 Diagonal and 5.617m Clearance Horizontal Bracing Chord Reinforcements © CROWN COPYRIGHT AND DATABASE RIGHTS [YEAR] ORDNANCE SURVEY [COPYRIGHT NUMBER] −700XS Panels –PL-2 Parapets 5.25m Roadwidth (4m min) -Steel Deck Units with Anti-Skid For Submission A 06/03/2025 THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - KENT: 0.686m c/c INDICATIVE RIVER STOUR (KENT) TEMPORARY CROSSING 5.791m Inner Panel Centres REGULATION 5(2)(o) 7.391m Overal Application Number EN020026 Section A-A National Grid Drawing Reference DCO/K/DE/PS/1266 SHEET 1 OF 2 As shown COPYRIGHT: NOT TO BE REPRODUCED WITHOUT THE WRITTEN PERMISSION OF NATIONAL GRID ELECTRICITY TRANSMISSION PIC

THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - KENT: INDICATIVE RIVER STOUR (KENT) TEMPORARY CROSSING REGULATION 5(2)(o) SHEET 2 OF 2



Elevation 1:200





Ramp Elevation
1:100

Ramp Elevation
1:100

Notes

This plan is scaled at paper size A1, therefore any prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled

2. These plans will sit within the Order Limits. Due to the need for future flexibility, National Grid will be applying for Order Limits and Limits of Deviation within its Development Consent Order, within which any final alignment would lie. Therefore, all aspects of the authorised development, including the cable alignment, converter stations, substations and pylon locations should be treated as indicative only.

3. Reference should be made to the Guide to the Plans (Document Ref 2.1) which provides further information on what the plans show. 4. For further information on construction please

refer to the construction section of the Environmental Statement. 5. All dimensions are in millimeters unless otherwise

6. Do not scale any items or information from this

7. Indicative bridge structures shown for initial discussion and feasibility purposes only based on assumed required spans, vertical clearances and bridge

width. Subject to further development following confirmation of requirements and receipt of

topographical and geotechnical survey. 8. This feasibility drawing is based on the Acrow 700XS Panel Bridge System for temporary use. The Acrow 700XS panel bridge is the gold standard in modular steel bridging. Robotically manufactured in the USA using high-strength steel from ISO-certified mills, the 700XS features robust orthotropic deck panels designed to handle heavy wheel loads, and is available in single-lane, two-lane or three-lane widths with optional pedestrian footwalks.

9. The Acrow 700XS bridge, with a span of approximately 50 meters, can withstand a total load of 170 tonnes.

10. The maximum load that will be applied to the temporary bridge crossing the River Stour in Kent is approximately 62 tonnes. 11. Only one vehicle is permitted on the bridge deck

at any given time.

Application document 2.13.2 Legend

High mean water spring tide

Reference drawings

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THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - KENT: INDICATIVE RIVER STOUR (KENT) TEMPORARY CROSSING REGULATION 5(2)(o)

nationalgrid

SHEET 2 OF 2

National Grid Drawing Reference DCO/K/DE/PS/1267

SHEET 2 OF 2

Sea Link

2.13.3 Design and Layout Plans - Terrestrial General





THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - TERRESTRIAL GENERAL ILLUSTRATIVE DRAWING OF TYPICAL HDD LANDFALL REGULATION 5(2)(o) SHEET 1 of 1



- 1. Do not scale from this drawing. 2. This drawing is to be read in conjunction with all
- relevant documents and drawings.
- 3. No unauthorised disclosure, storage or copying.4. Detailed design, including final dimensions, to be
- decided at a later date. 5. Typical lengths for example can vary between 800m
- conditions. 6. HDD = Horizontal Directional Drilling7. DP = Direct Pipe

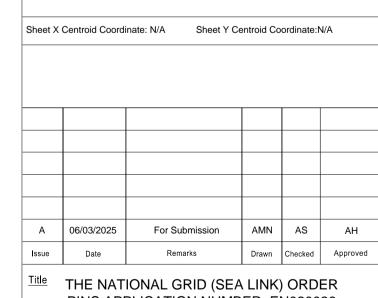
- A trenchless solution may utilise either Horizontal Directional Drilling or Direct Pipe.
 MHWS = Mean High Water Springs
 MLWS = Mean Low Water Springs
 For further explanation of these plans see the Guide to the Plans Document.
- 12. For further information on construction phase, please refer to the construction section of the Environmental

to 1500m, depending on the local geological ground







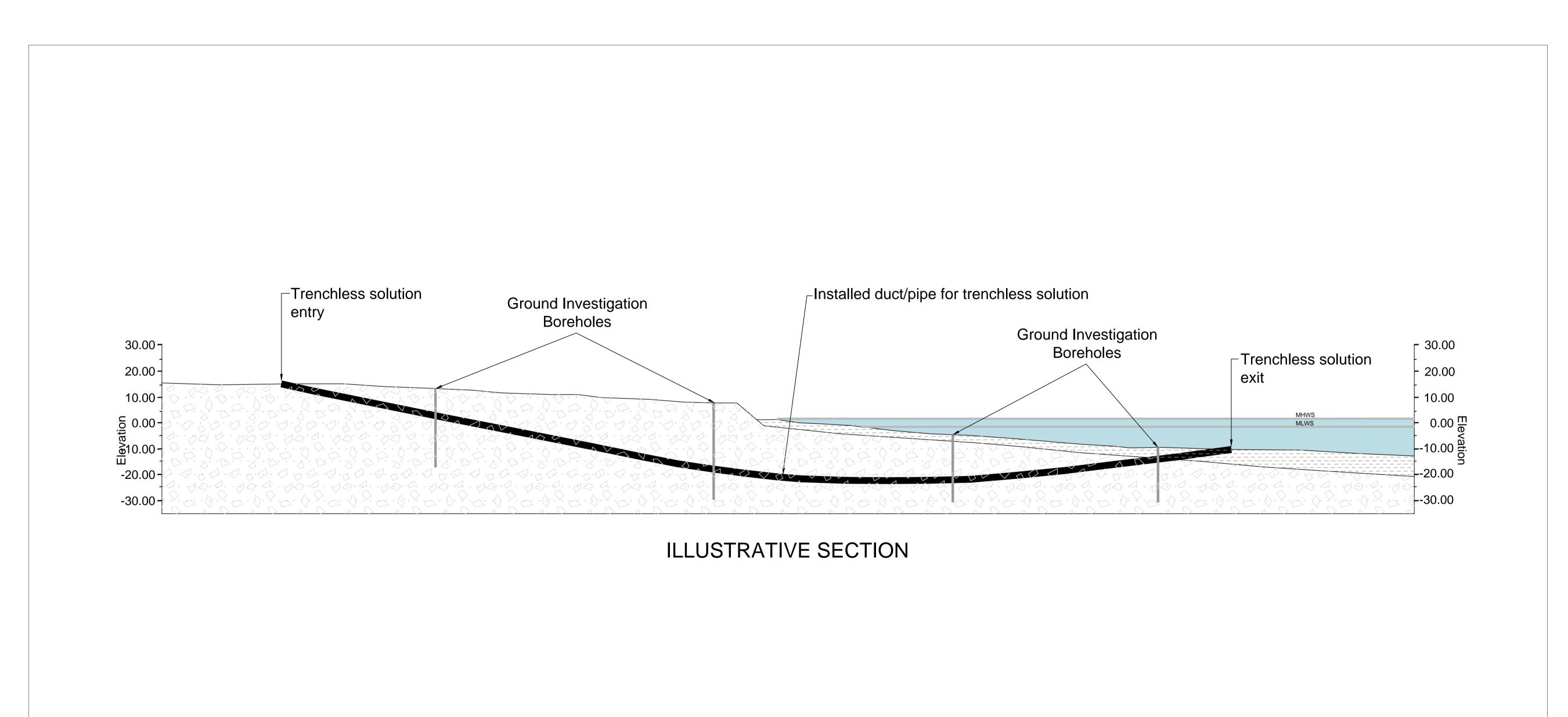


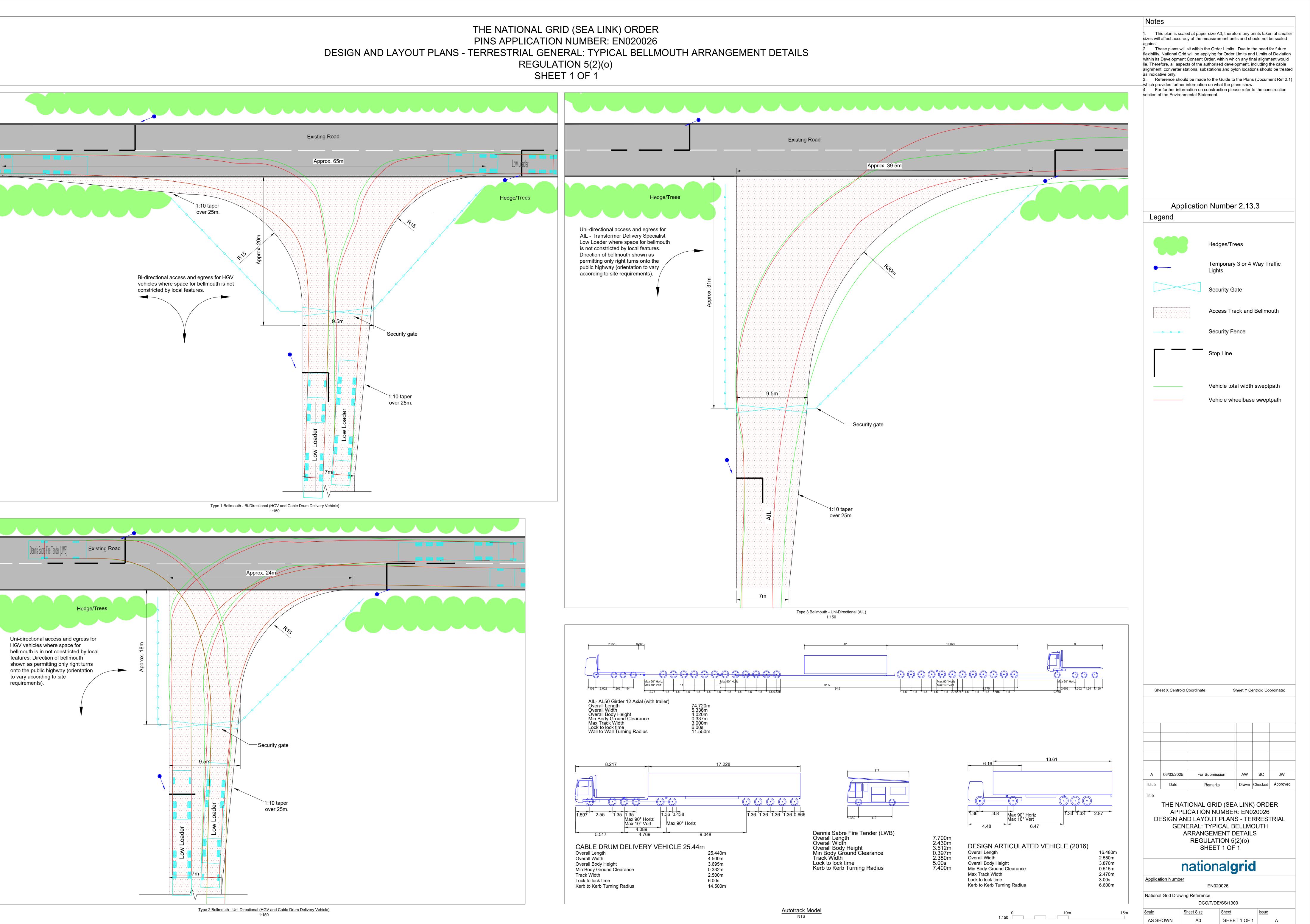
PINS APPLICATION NUMBER: EN020026

DESIGN AND LAYOUT PLANS - TERRESTRIAL GENERAL ILLUSTRATIVE DRAWING OF TYPICAL HDD LANDFALL REGULATION 5(2)(o) SHEET 1 of 1



EN020026 National Grid Drawing Reference





Existing Road

Uni-directional access and egress for

bellmouth is in not constricted by local

HGV vehicles where space for

features. Direction of bellmouth shown as permitting only right turns onto the public highway (orientation

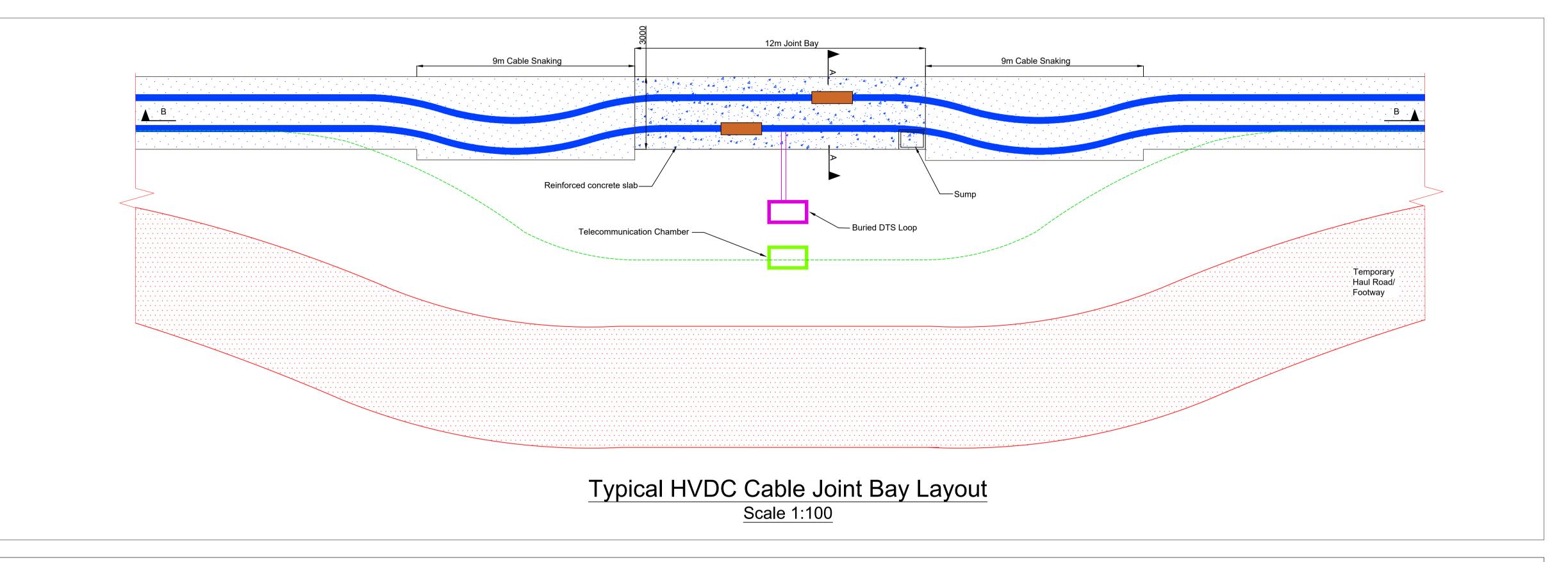
to vary according to site

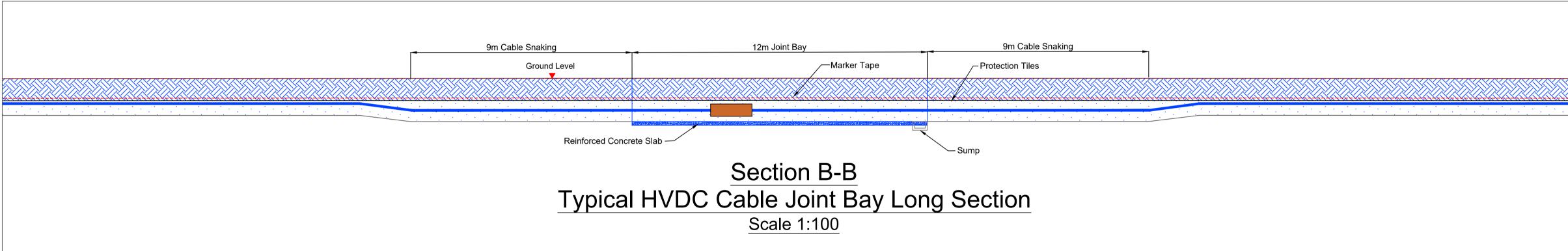
requirements).

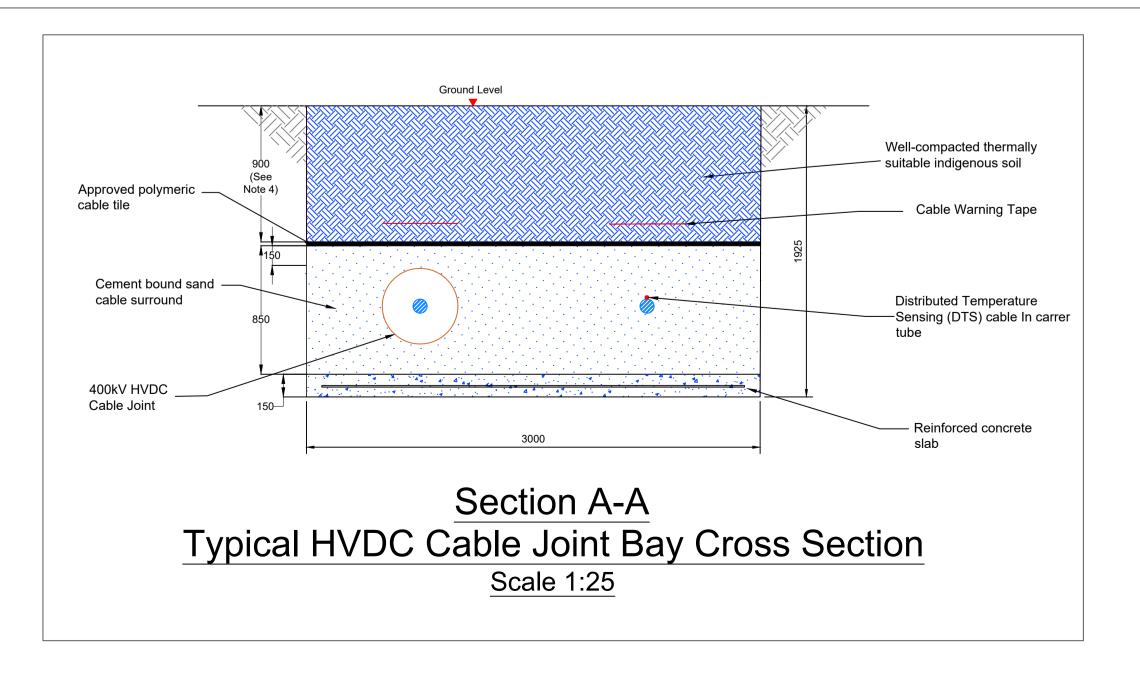
Bi-directional access and egress for HGV vehicles where space for bellmouth is not

constricted by local features.

THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - TERRESTRIAL GENERAL: TYPICAL HVDC JOINT BAY ARRANGEMENT REGULATION 5(2)(o) SHEET 1 OF 1







Notes
 This plan is scaled at paper size A1, therefore any prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against.
 These plans will sit within the Order Limits. Due

to the need for future flexibility, National Grid will be applying for Order Limits and Limits of Deviation within its Development Consent Order, within which any final alignment would lie. Therefore, all aspects of the authorised development, including the cable alignment, converter stations, substations and pylon locations should be treated as indicative only.

Plans (Document Ref 2.1) which provides further information on what the plans show..
4. For further information on construction please refer to the construction section of the Environmental

3. Reference should be made to the Guide to the

5. Depth of cover varies dependent on landowner agreement.

Application document 2.13.3
Legend

Cable protection tiles

HVDC Cable

400KV HVDC Cable Joint

Cement-bound Sand (CBS)

Well-compacted thermally suitable backfill

Concrete

Temporary Haul Road/ Footway

Cable Warning Tape

Telecommunication Chamber

Distributed Temperature Sensing

(DTS) Loop

DTS Cables

Communication Cable Duct

Sheet X Centroid Coordinate: Sheet Y Centroid Coordinate:

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THE NATIONAL GRID (SEA LINK) ORDER
PINS APPLICATION NUMBER: EN020026
DESIGN AND LAYOUT PLANS - TERRESTRIAL
GENERAL: TYPICAL HVDC JOINT BAY
ARRANGEMENT
REGULATION 5(2)(o)
SHEET 1 OF 1

nationalgrid

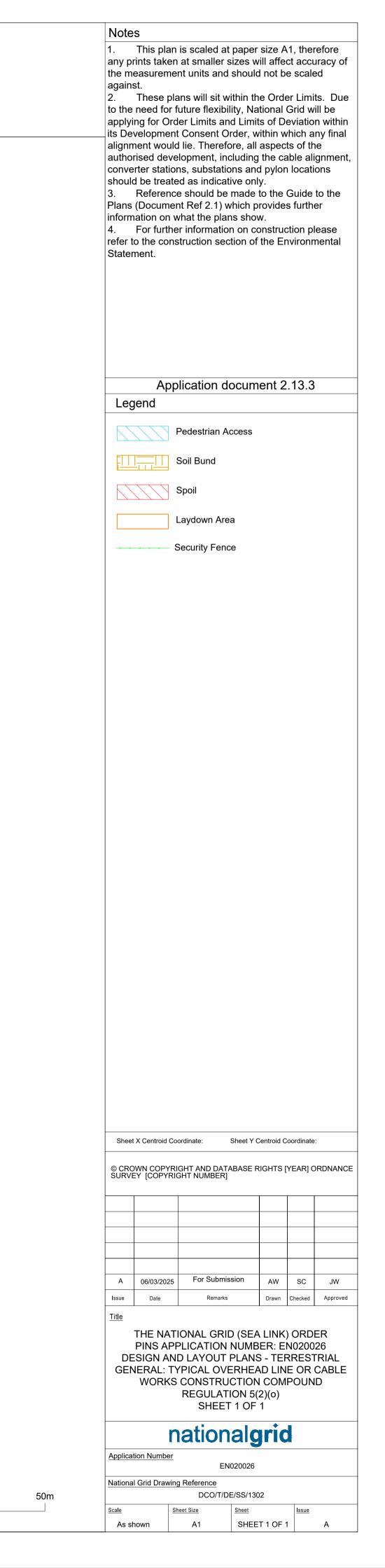
Application Number

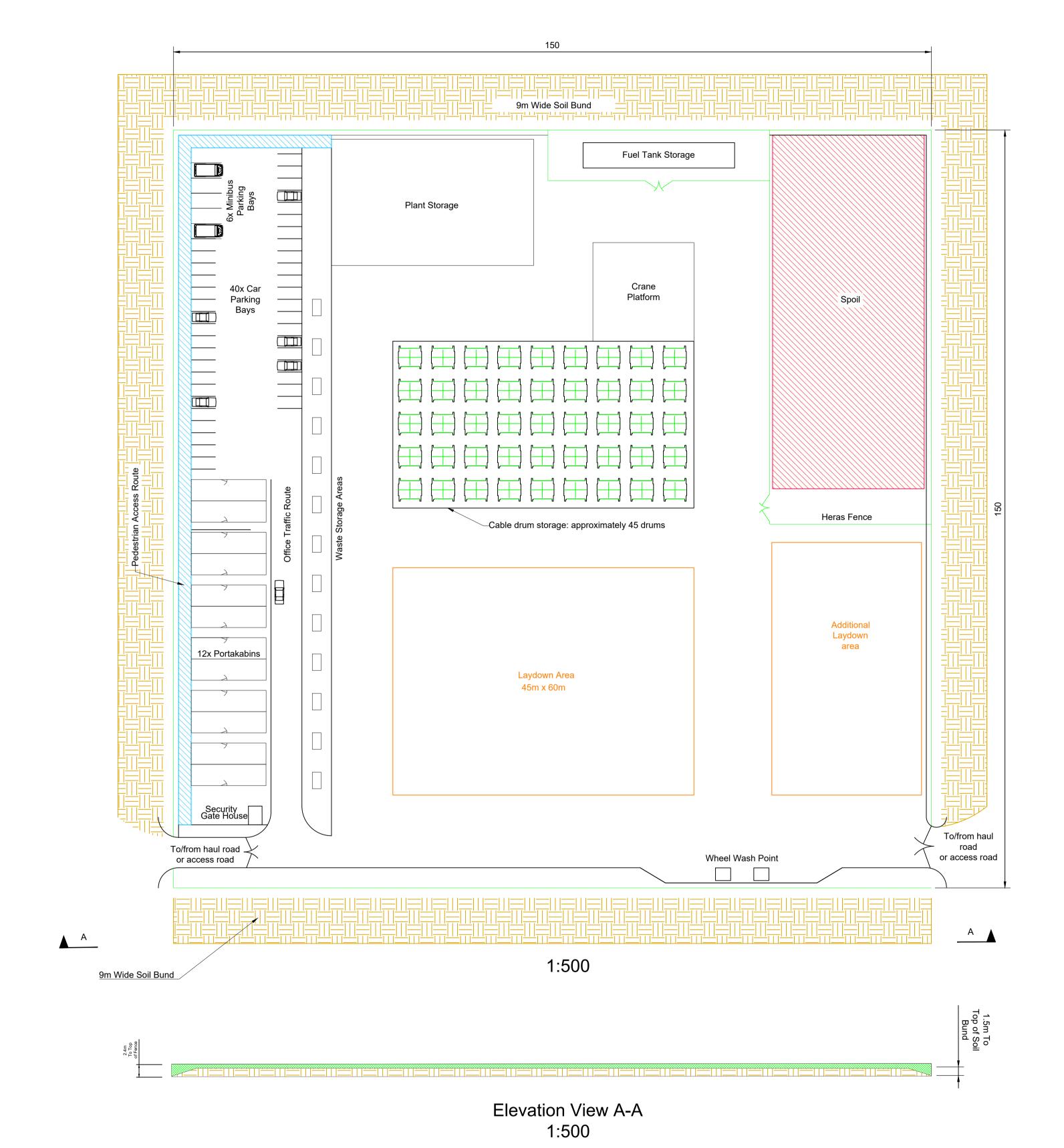
EN020026

National Grid Drawing Reference

SHEET 1 OF 1 A

THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - TERRESTRIAL GENERAL: TYPICAL OVERHEAD LINE OR CABLE WORKS CONSTRUCTION COMPOUND REGULATION 5(2)(o) SHEET 1 OF 1



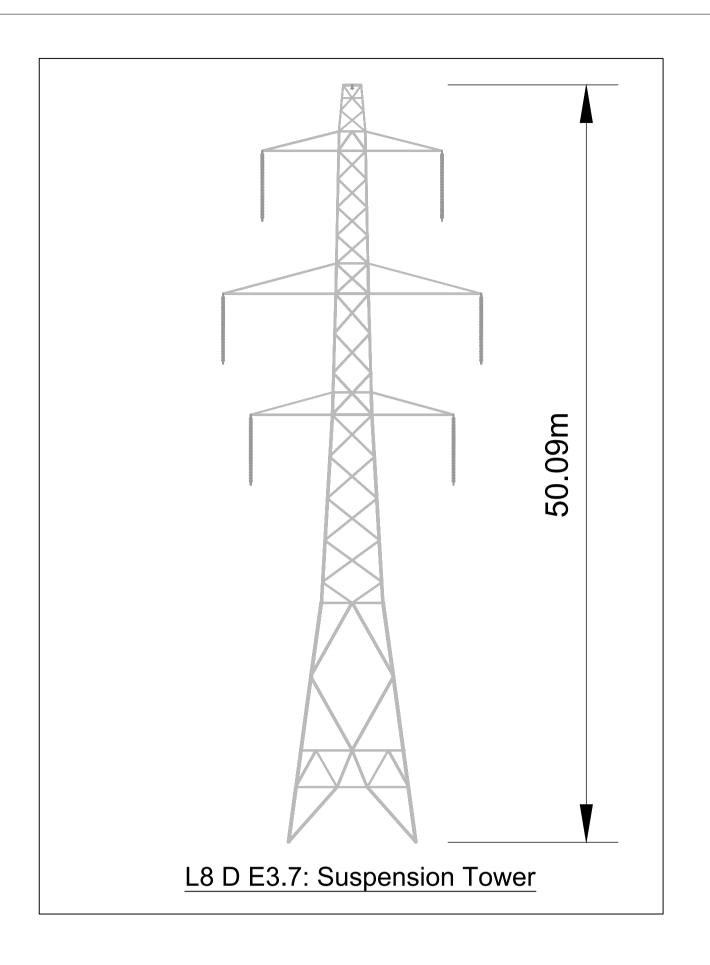


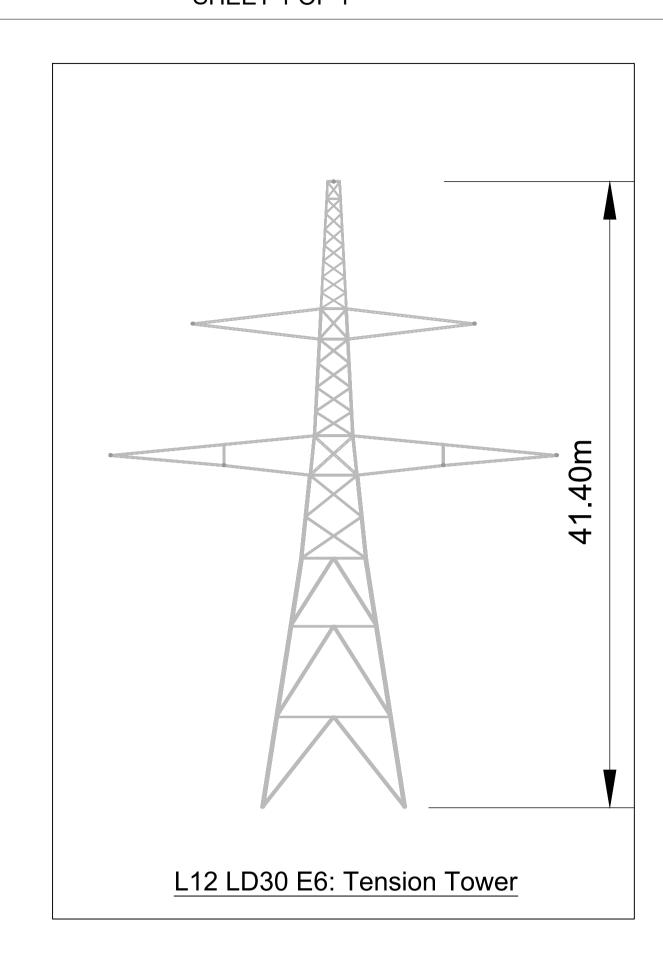
Notes THE NATIONAL GRID (SEA LINK) ORDER This plan is scaled at paper size A1, therefore any PINS APPLICATION NUMBER: EN020026 prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against. DESIGN AND LAYOUT PLANS - TERRESTRIAL GENERAL: TYPICAL CONVERTER OR SUBSTATION WORKS CONSTRUCTION COMPOUNDS 2. These plans will sit within the Order Limits. Due REGULATION 5(2)(o) to the need for future flexibility, National Grid will be applying for Order Limits and Limits of Deviation within SHEET 1 OF 1 its Development Consent Order, within which any final alignment would lie. Therefore, all aspects of the authorised development, including the cable alignment, 200m converter stations, substations and pylon locations should be treated as indicative only. 3. Reference should be made to the Guide to the Plans (Document Ref 2.1) which provides further information on what the plans show. 4. For further information on construction please refer to the construction section of the Environmental Fuel Tank Storage Plant Storage Application document 2.13.3 Parking Legend Pedestrian Access Soil Bund Construction Traffic One Way System Security Fence Crane Platform 200m 12x Portakabins Laydown 120m x 125m Provisions for waste skips ─9m Wide Soil Bund Sheet X Centroid Coordinate: © CROWN COPYRIGHT AND DATABASE RIGHTS 2022 ORDNANCE SURVEY 0100042766 Security Gate House 1x AIL Parking Bay To/From Haul Road or 06/03/2025 To/From Haul Road THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - TERRESTRIAL GENERAL: TYPICAL CONVERTER OR SUBSTATION Layout Plan WORKS CONSTRUCTION COMPOUNDS REGULATION 5(2)(o) SHEET 1 of 1 nationalgrid Elevation View A-A National Grid Drawing Reference 50m

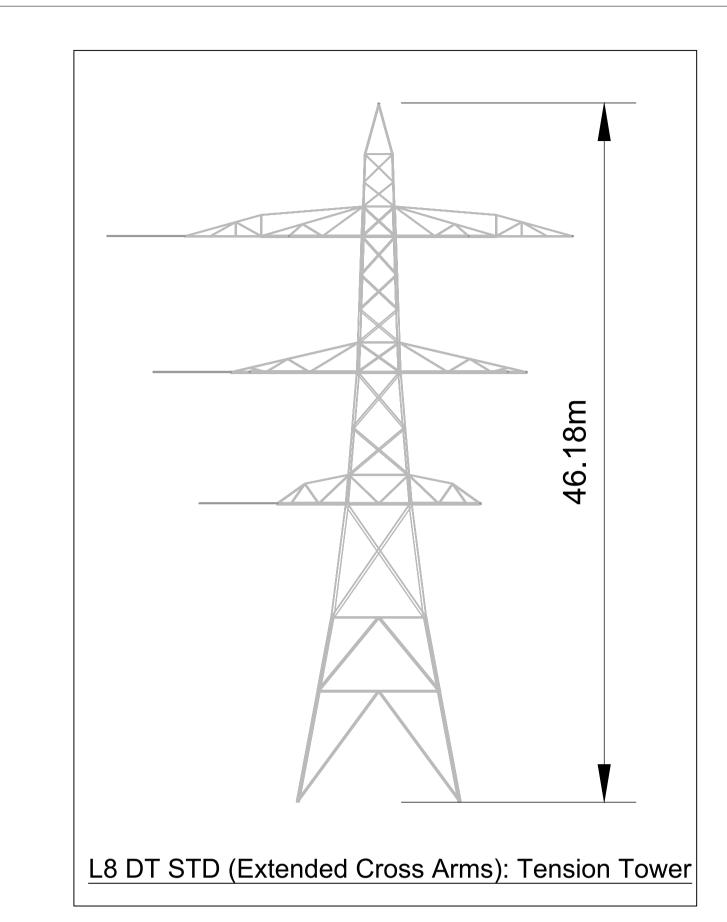
SHEET 1 OF 1

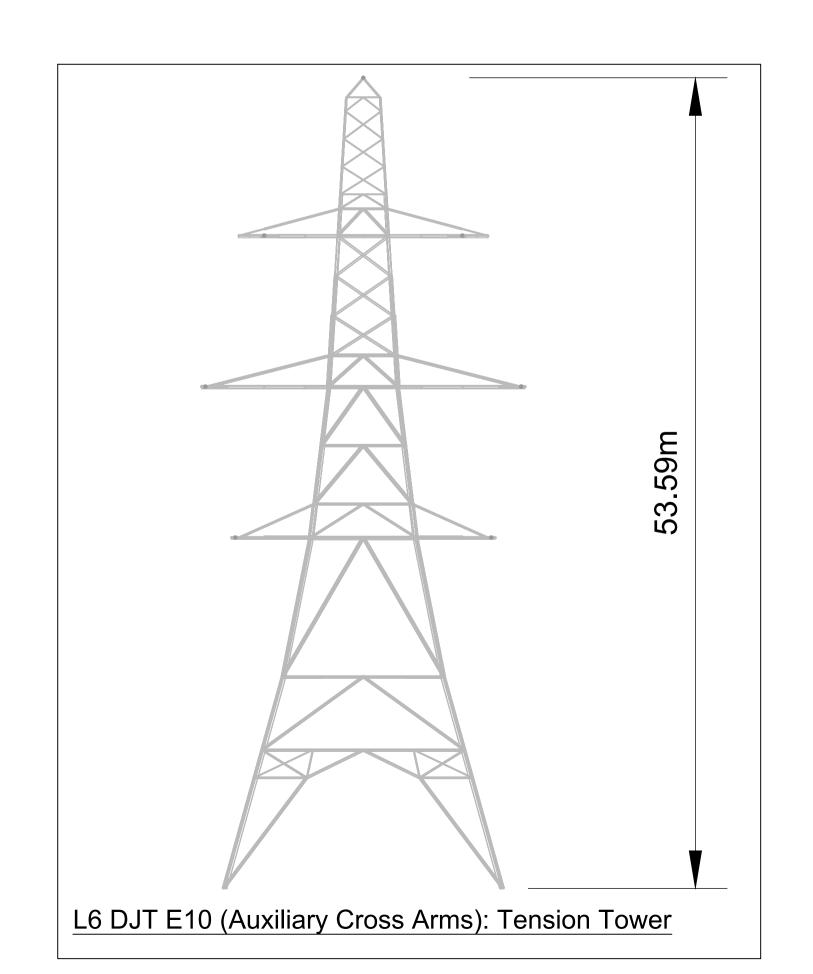
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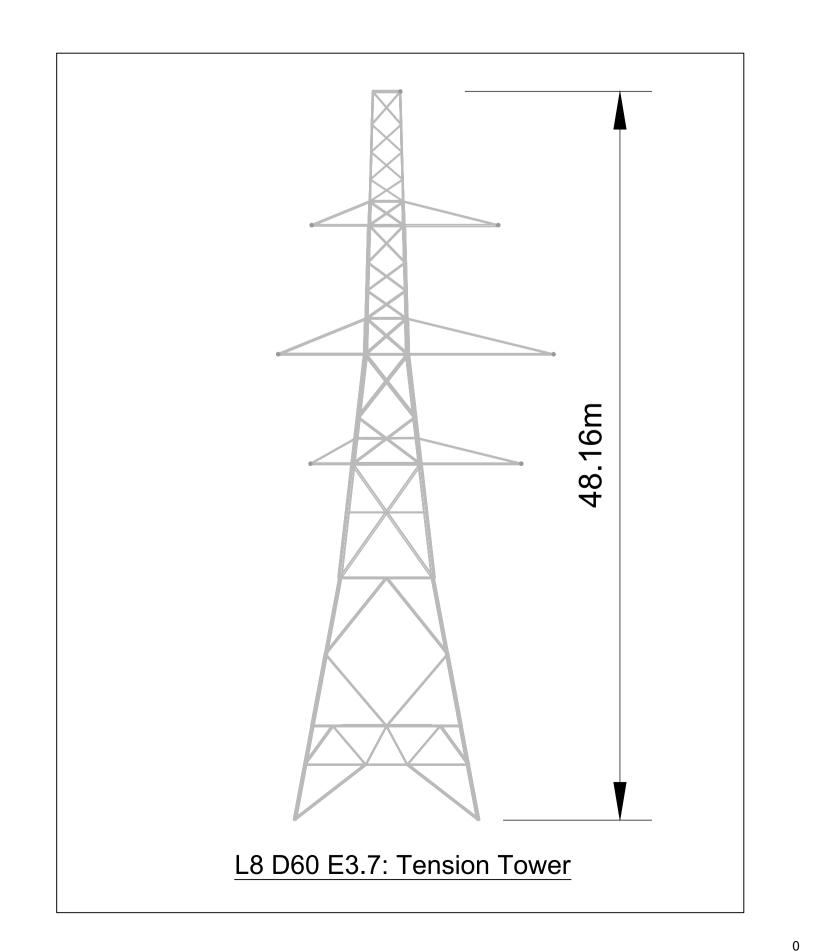
THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - TERRESTRIAL GENERAL: TYPICAL OVERHEAD LINE PYLON DETAIL REGULATION 5(2)(o) SHEET 1 OF 1











A 06/03/2025 For Submission AW SC JW Issue Date Remarks Drawn Checked Approve Title

THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - TERRESTRIAL GENERAL: TYPICAL OVERHEAD LINE PYLON DETAIL REGULATION 5(2)(a) SHEET 1 OF 1

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Application Number

EN020026

National Grid Drawing Reference DCO/T/DE/SS/1304

Scale Sheet Size SHEET 1 OF 1

Issue Issue SHEET 1 OF 1

Notes

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prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against.

2. These plans will sit within the Order Limits. Due

its Development Consent Order, within which any final alignment would lie. Therefore, all aspects of the authorised development, including the cable alignment, converter stations, substations and pylon locations

3. Reference should be made to the Guide to the Plans (Document Ref 2.1) which provides further

4. For further information on construction please refer to the construction section of the Environmental

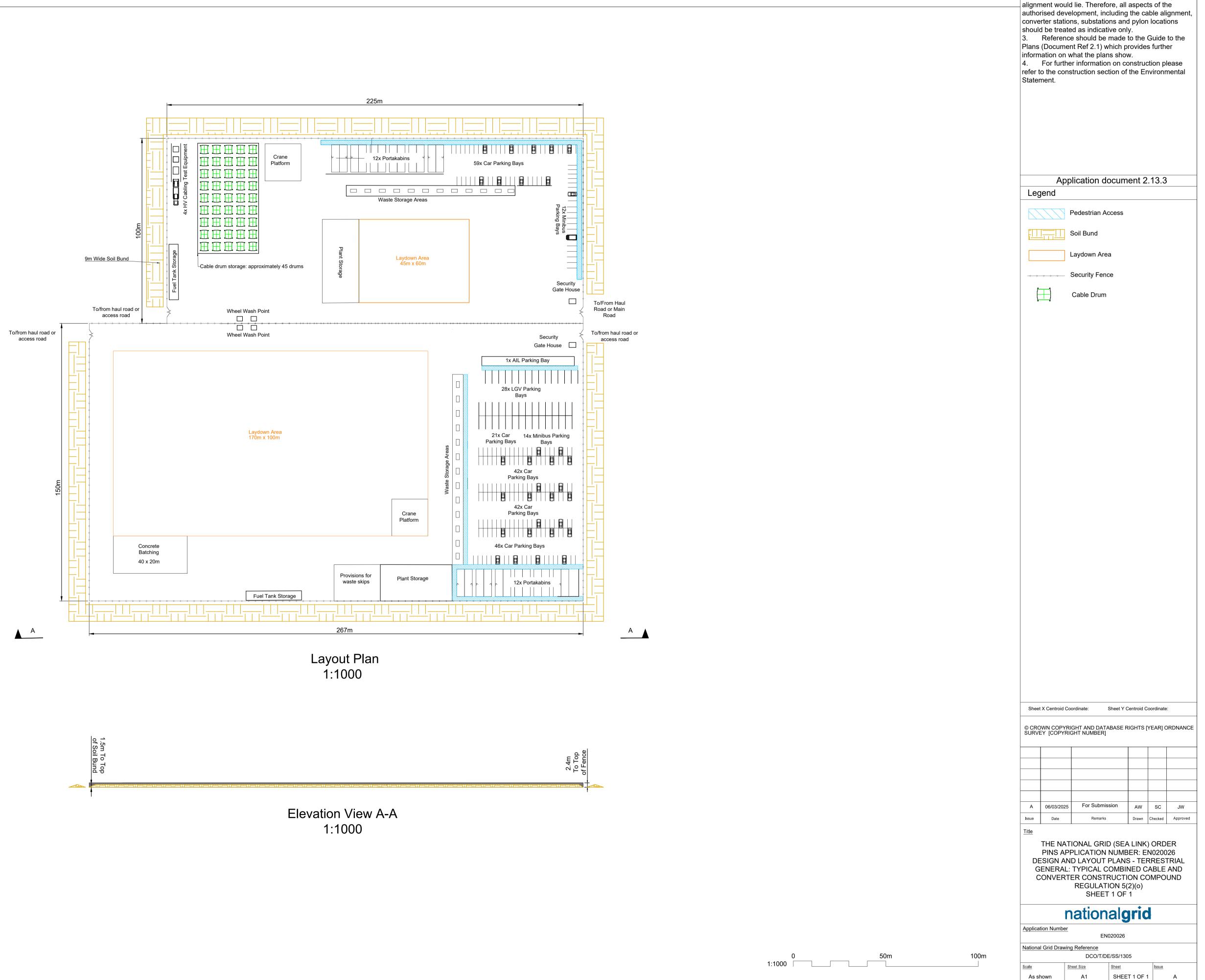
Application document 2.13.3

should be treated as indicative only.

information on what the plans show.

to the need for future flexibility, National Grid will be applying for Order Limits and Limits of Deviation within

THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - TERRESTRIAL GENERAL: TYPICAL COMBINED CABLE AND CONVERTER CONSTRUCTION COMPOUND REGULATION 5(2)(o) SHEET 1 OF 1



Notes

This plan is scaled at paper size A1, therefore any

prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against.

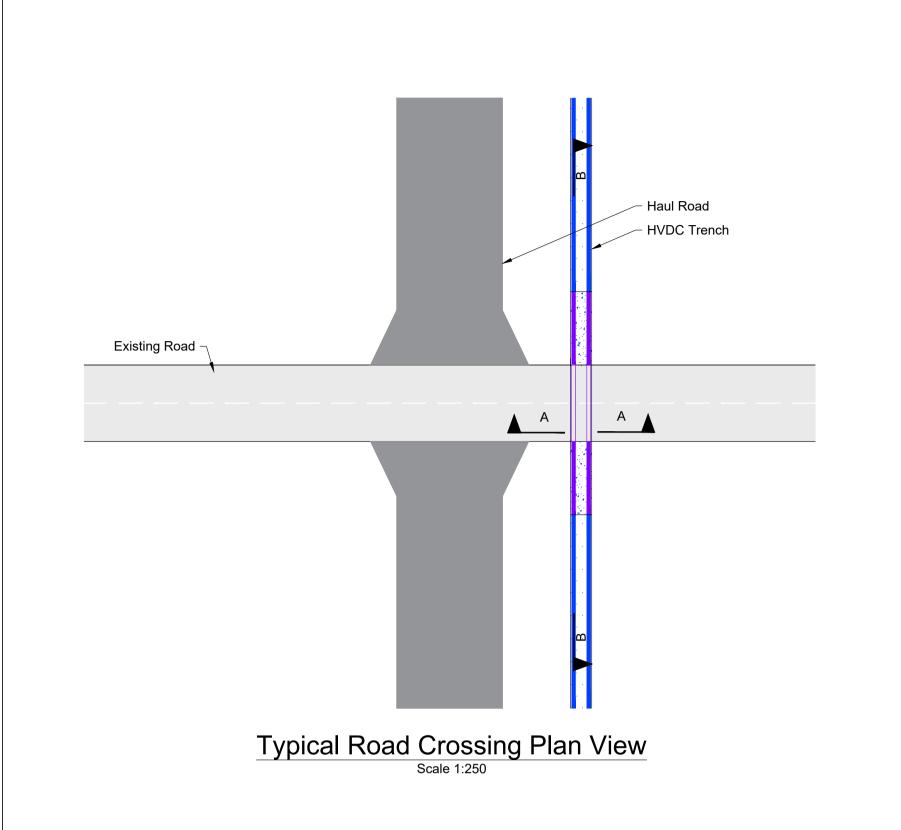
2. These plans will sit within the Order Limits. Due

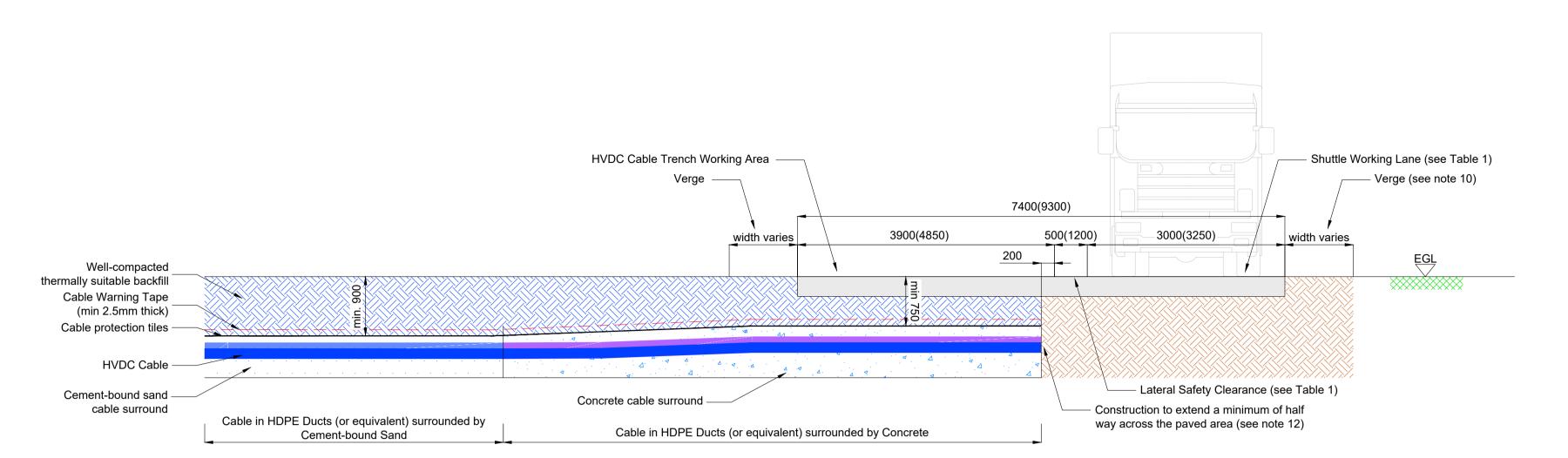
its Development Consent Order, within which any final

to the need for future flexibility, National Grid will be applying for Order Limits and Limits of Deviation within

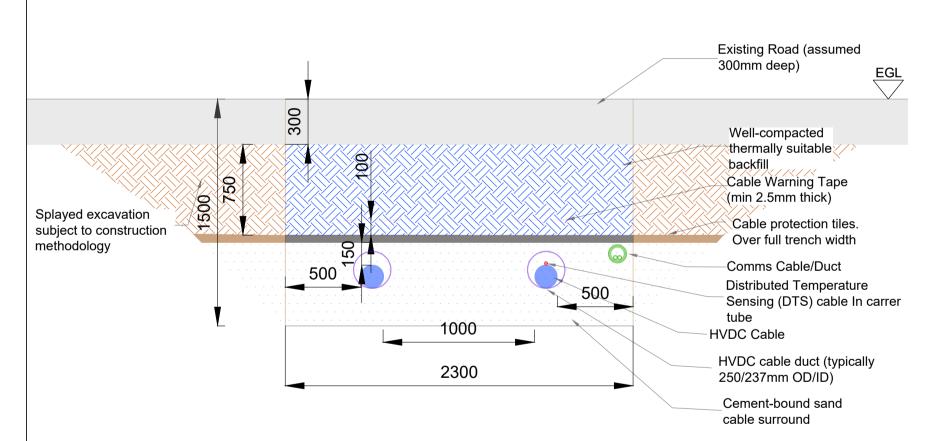
THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 **DESIGN AND LAYOUT PLANS - TERRESTRIAL GENERAL:** TYPICAL STAGED DUCTED ROAD CROSSING LANE WIDTHS - HVDC REGULATION 5(2)(o)

SHEET 1 of 1

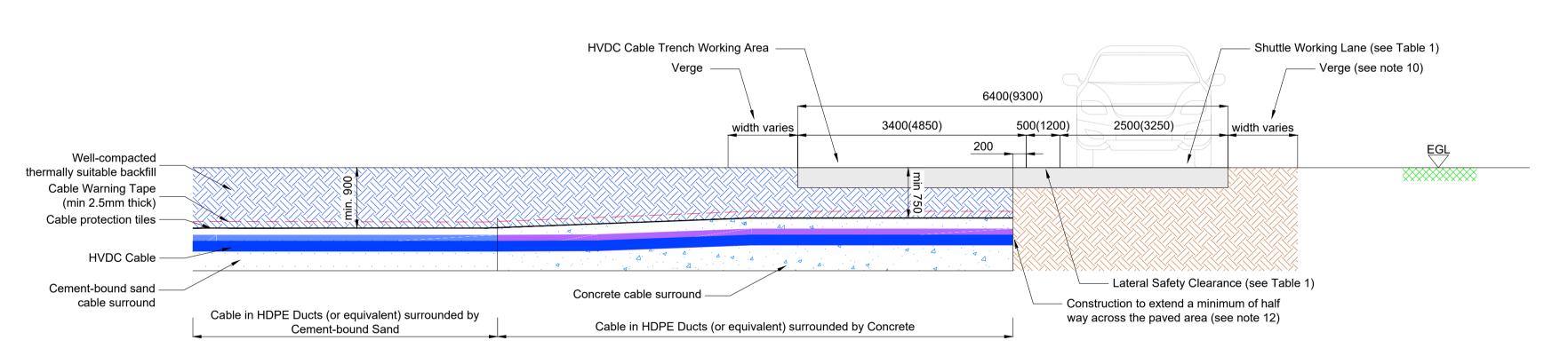




Section B-B - Typical Ducted Road Crossing - Normal Traffic (including Buses and HGVs)



Section A-A - Typical HVDC Trench Under Existing Road



Section B-B - Typical Ducted Road Crossing - Cars and Light Vehicles Only

Table 1 - Mininumim carriageway widths for two-way working and shuttle working with traffic control (see note 9)

	Normal Traffic (including buses and HGVs)	Cars and light vehicles only
Two-way working	6.75 m minimum	5.5 m minimum
Shuttle working with Traffic Control	3.5 m maximum 3.25 m desirable minimum 3.0 m absolute minimum	3.7 m maximum 3.25 m desirable minimum 2.5 m absolute minimum

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Notes 1. This plan is scaled at paper size A1, therefore any prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against. 2. All dimensions are in millimetres unless otherwise

3. This drawing is to be read in conjunction with all relevant documents and drawings.

No unauthorised disclosure, storage or copying. 5. Proposed arrangements shown for indicative purposes only. Dimensions and design may vary depending on site and installation conditions.. Duct concrete surround length to extend by approximately 2m beyond road or hedge boundary if

Dimensions for the shuttle working lane width and working clearance have been given in the format: absolute minimum (desirable minimum) where other widths shown result from these values.

Shuttle lane working widths are based on the most onerous from the Traffic Signs Manual: Chapter 8, Part 1: Design, 2009 and HAUC, The Red Book, Part 2: Operations, Traffic Control, 2013.

Where the verge width and condition allows, part of the verge may be hardened to allow for the minimum shuttle working lane width. After completion of the road works, temporary hard standings should be removed to prevent their use as general stopping

10. Construction of the HVDC trench should be to a minimum of half way across the paved area. Once reinstatement has been completed on the first side of the carriageway, construction of the HVDC trench on the second side of the carriageway can commence, mirroring the layout of the first side.

11. For single way shuttle working with traffic control the

shuttle working lane should be a maximum of 3.5m or

3.7m wide depending on the traffic type. In cases where it is wider the lateral safety clearance should be extended to achieve this, unless width is sufficient for two-way traffic. See Table 1 for required widths. 12. Further traffic management requirements, such as speed restrictions, may be required. For example, where the lateral safety clearance is less than 1.2m a temporary speed limit of either 30 or 40mph should

Part 1: Design, 2009). 13. When the width of road is insufficient to allow for shuttle working a suitable road closure and diversion will be implemented.

be implemented (Traffic Signs Manual: Chapter 8,

14. Reference should be made to the Guide to the Plans (Document Ref 2.1) which provides further information on what the plans show.

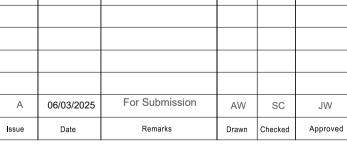
Legend

Application document 2.13.3

Well-compacted thermally suitable backfill Existing Carriageway Build-up Cement-bound sand cable surround Concrete surround **Existing Road** Haul Road High Voltage Direct Current (HVDC) Cable **HVDC Cable Duct HVDC Cable Crossing Duct** Cable warning tape Existing Ground

Sheet X Centroid Coordinate: Sheet Y Centroid Coordinate:

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THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - TERRESTRIAL GENERAL: TYPICAL STAGED DUCTED ROAD CROSSING LANE WIDTHS - HVDC REGULATION 5(2)(o) SHEET 1 of 1

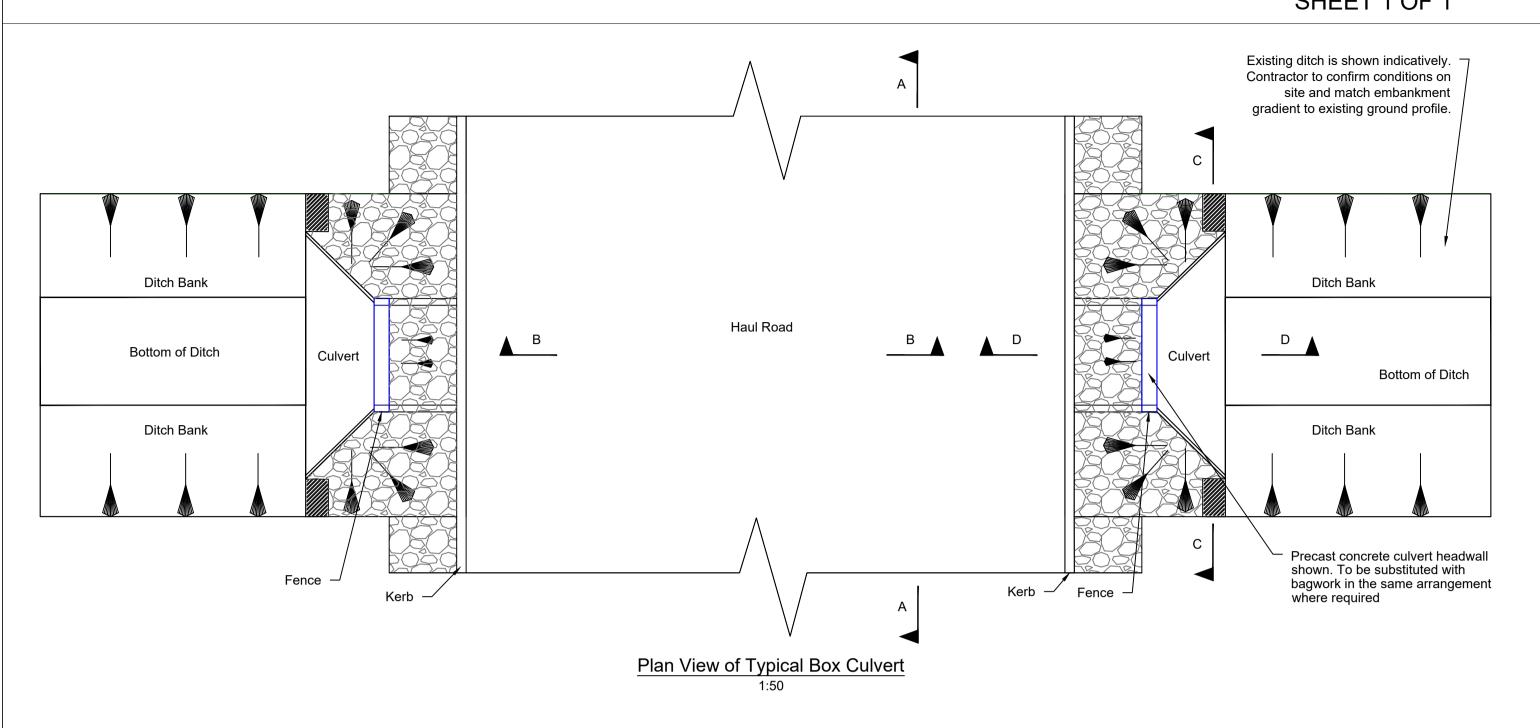
nationalgrid

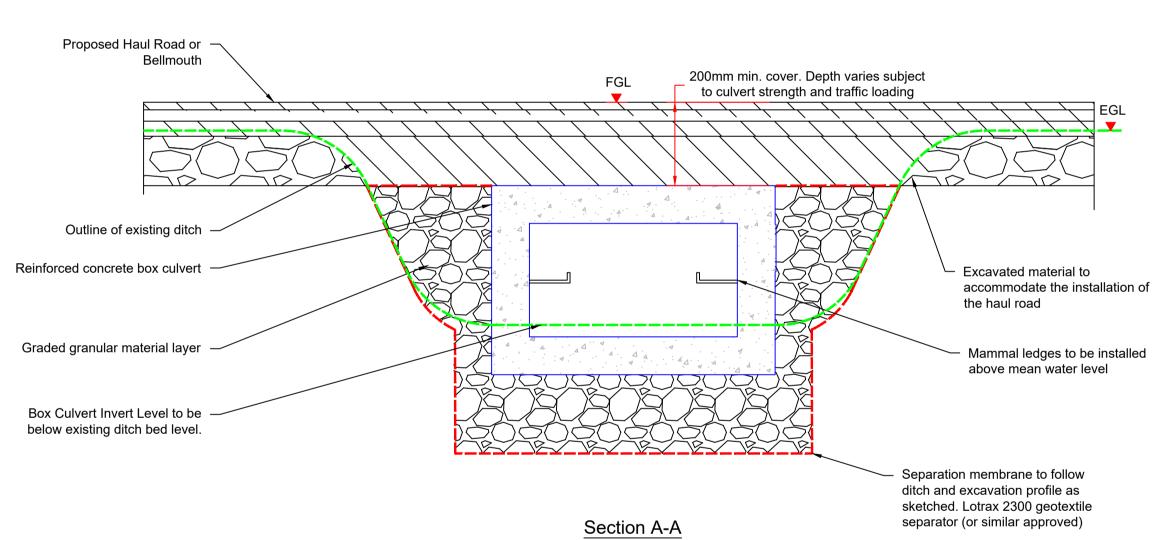
Application Number EN020026

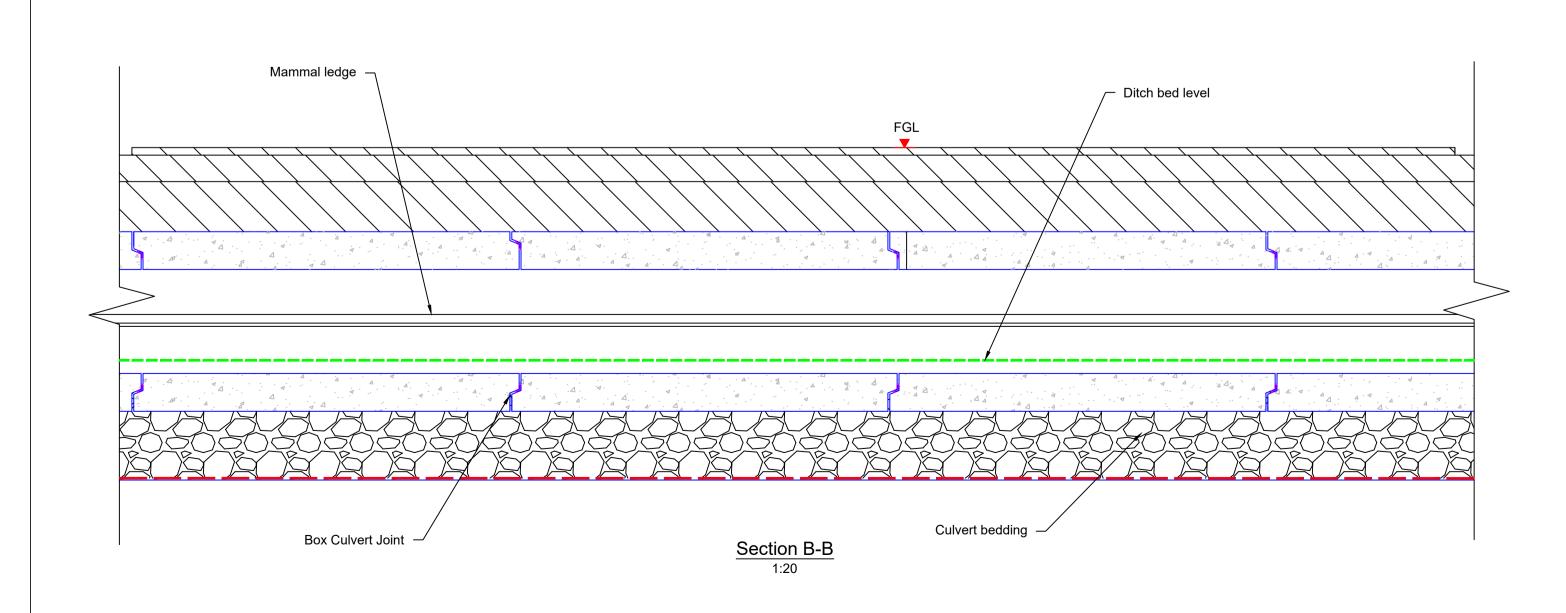
National Grid Drawing Reference DCO/T/DE/SS/1306

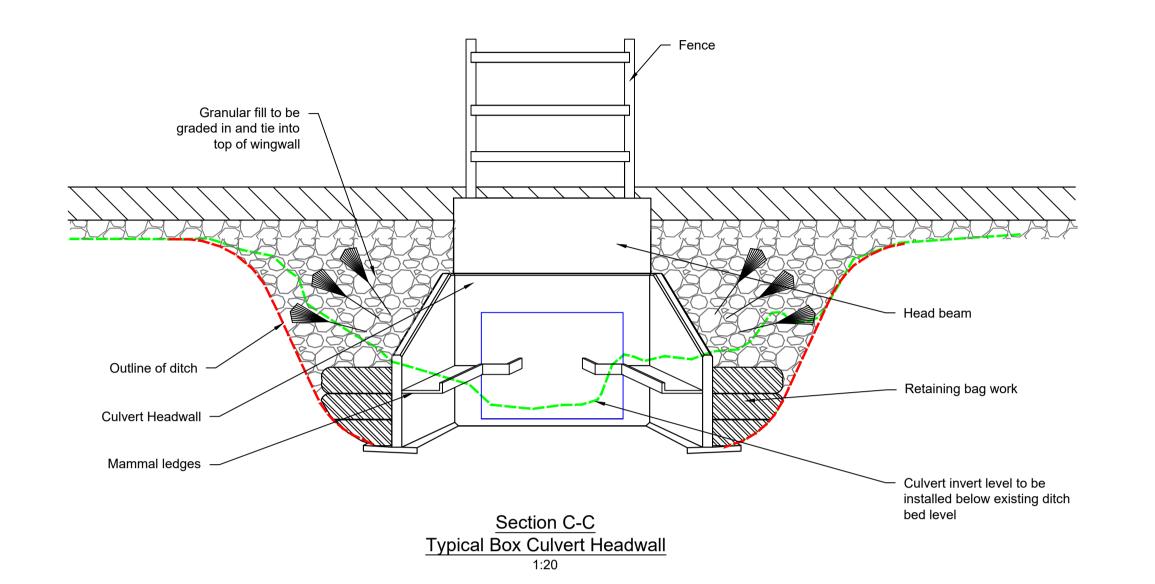
SHEET 1 OF 1 A

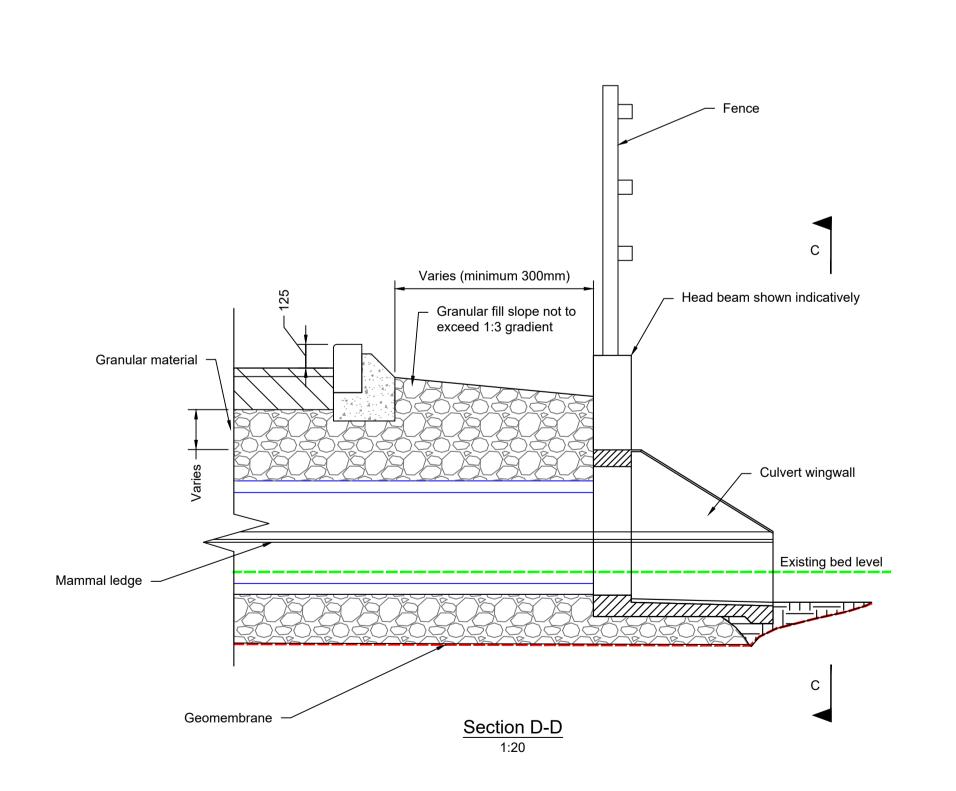
THE NATIONAL GRID (SEALINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - TERRESTRIAL GENERAL: TYPICAL BOX CULVERT DETAIL REGULATION 5(2)(o) SHEET 1 OF 1











SCALE BAR (METRES)

0 1m 2m

1:20 5m

1:50 5m

Notes

1. This plan is scaled at paper size A1, therefore any

prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against.

2. For further information on construction please refer to the construction section of the Environmental

the construction section of the Environmental Statement.

3. Culvert design and drainage consents (where applicable) to be approved/agreed with the relevant Internal Drainage Board/ditch owner prior to

commencing works.

4. Culvert invert level to be installed below existing ditch bed level. Natural bed material to be laid over invert

bed level. Natural bed material to be laid over invert.5. Dimensions on drawing are shown indicatively, these may vary depending on ground conditions and traffic

 Haul road and temporary footway dimensions and depth subject to vehicle requirements and ground conditions.

7. Mammal ledges to be installed on both sides of box culverts. Mammal ledge dimensions to be agreed with relevant Internal Drainage Boards.

Application document 2.13.3

Legend

Graded granular material layer

Indicative standard pavement construction

Indicative pavement construction above culvert

Concrete

— — Geomembrane

---- Existing ditch profile (indicative)

Sheet X Centroid Coordinate: Sheet Y Centroid Coordinate:

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 A
 06/03/2025
 For Submission
 AW
 SC
 JW

 Issue
 Date
 Remarks
 Drawn
 Checked
 Approved

THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - TERRESTRIAL GENERAL: TYPICAL BOX CULVERT DETAIL REGULATION 5(2)(o) SHEET 1 OF 1

nationalgrid

Application Number

EN020026

National Grid Drawing Reference

DCO/T/DE/SS/1307

 Scale
 Sheet Size
 Sheet
 Issue

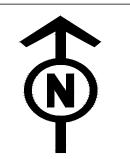
 AS SHOWN
 A1
 SHEET 1 OF 1
 A

The Great Grid Upgrade

Sea Link

2.13.4 Design and Layout Plans - Offshore

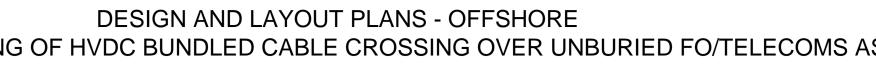




THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026

ILLUSTRATIVE DRAWING OF HVDC BUNDLED CABLE CROSSING OVER UNBURIED FO/TELECOMS ASSET

REGULATION 5(2)(o) SHEET 1 of 1



Notes

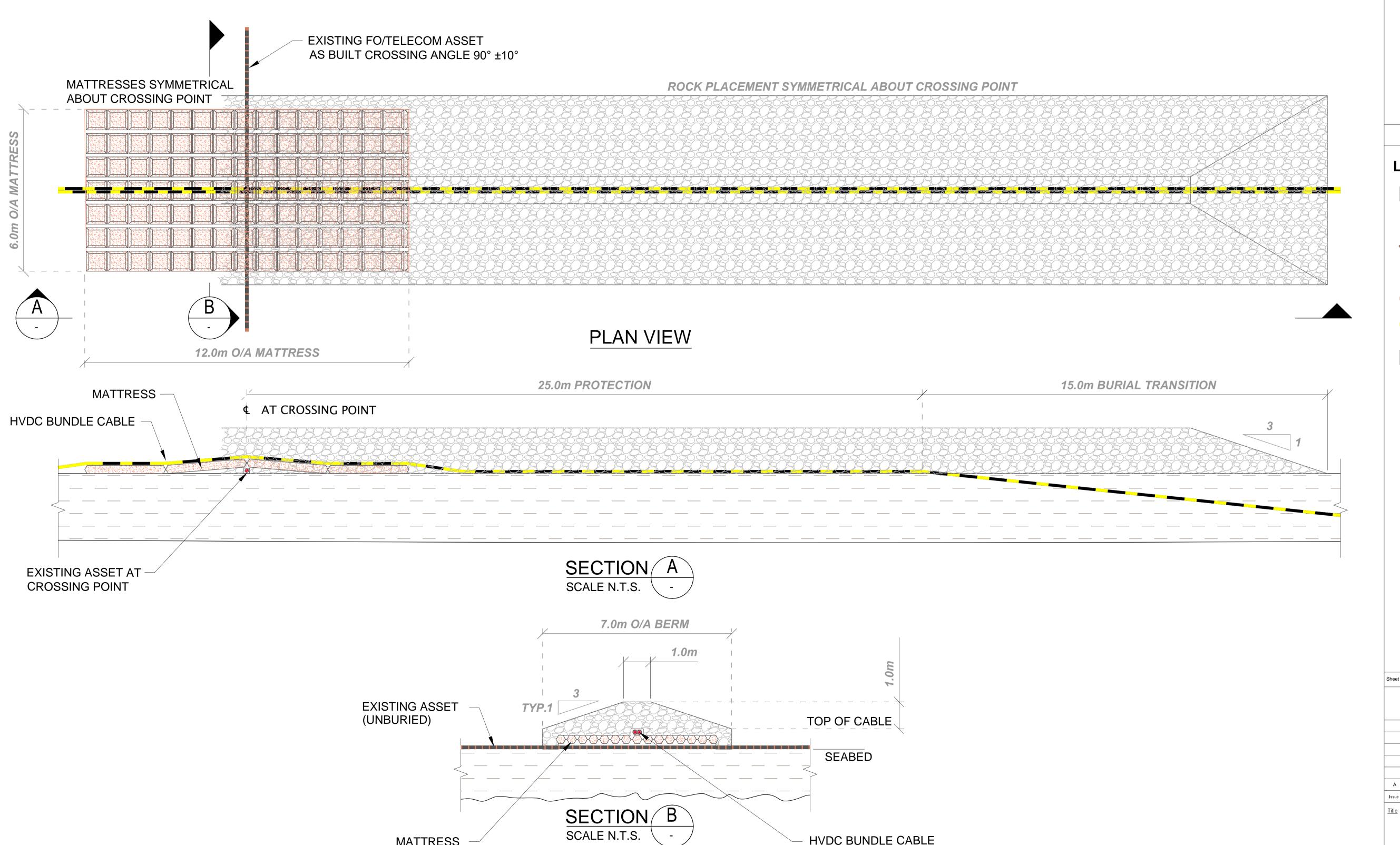
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3. No unauthorised disclosure, storage or copying. 4. Detailed design, including final dimensions, to be

agreed during crossing agreement discussions with third parties including burial technique.

5. For further explanation of these plans see the Guide

to the Plans Document. 6. For further information on construction phase, please refer to the construction section of the Environmental



HVDC BUNDLE CABLE

Legend

Application Document 2.13.4

Post Lay Rock Berm

Mattress (Section B)

Seabed Sediment

New HVDC Bundle

Sheet X Centroid Coordinate: N/A Sheet Y Centroid Coordinate: N/A

THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026

DESIGN AND LAYOUT PLANS - OFFSHORE ILLUSTRATIVE DRAWING OF HVDC BUNDLED CABLE CROSSING OVER UNBURIED FO/TELECOMS ASSET
REGULATION 5(2)(o)
SHEET 1 of 1

nationalgrid

Application Number EN020026 National Grid Drawing Reference

> DCO/M/DE/SS/1350 SHEET 1 OF 1

MATTRESS

THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026

ILLUSTRATIVE DRAWING OF HVDC BUNDLED CABLE CROSSING OVER BURIED FO/TELECOMS ASSET

ROCK PLACEMENT SYMMETRICAL ABOUT CROSSING POINT

TOP OF CABLE

HVDC BUNDLE CABLE

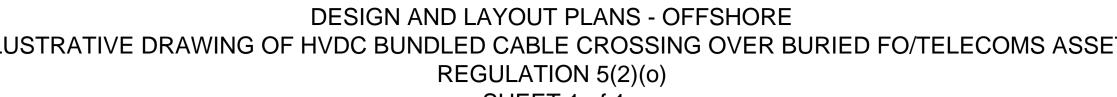
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SHEET 1 of 1

EXISTING FO/TELECOM ASSET

AS BUILT CROSSING ANGLE 90° ±10°

EXISTING ASSET – (BURIED)



Notes

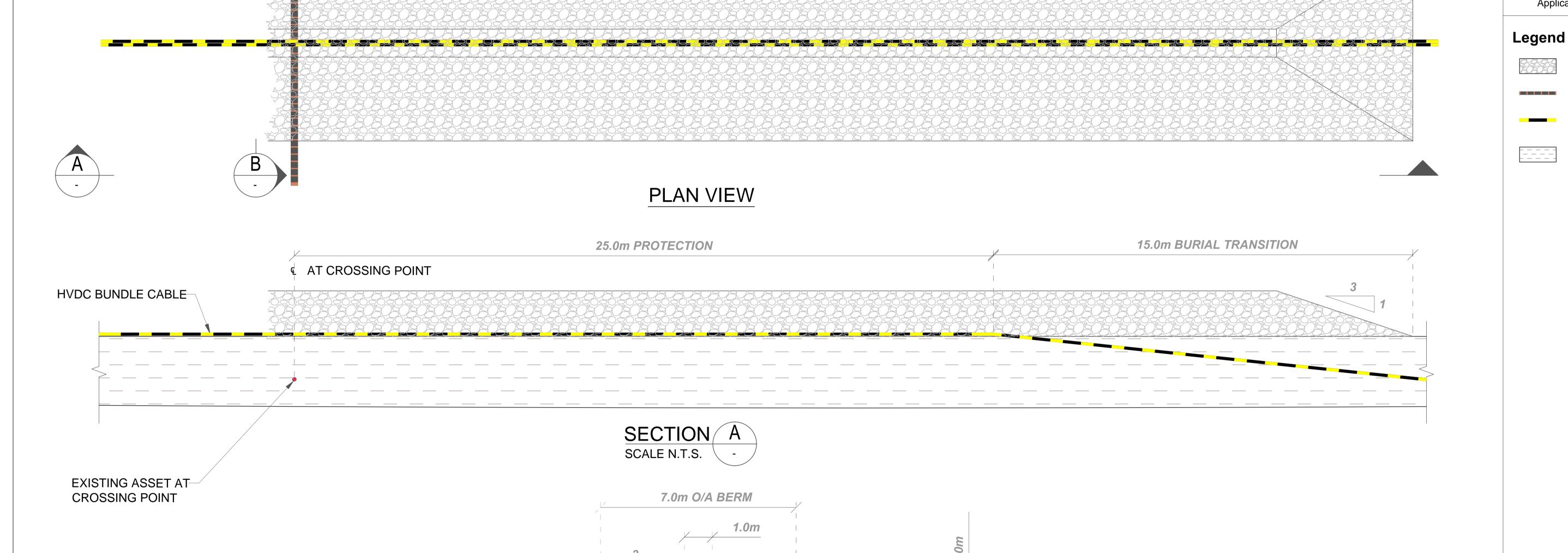
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4. Detailed design, including final dimensions, to be agreed during crossing agreement discussions with third parties including burial technique.
5. For further explanation of these plans see the Guide to the Plans Document.
6. For further information on construction phase, please refer to the construction section of the Environmental Statement.



Post Lay Rock Berm



SECTION B
SCALE N.T.S. -

Sheet X Centroid Coordinate: N/A Sheet Y Centroid Coordinate: N/A

THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026

DESIGN AND LAYOUT PLANS - OFFSHORE ILLUSTRATIVE DRAWING OF HVDC BUNDLED CABLE CROSSING OVER BURIED FO/TELECOMS ASSET REGULATION 5(2)(o) SHEET 1 of 1

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Application Number National Grid Drawing Reference

> DCO/M/DE/SS/1351 SHEET 1 OF 1

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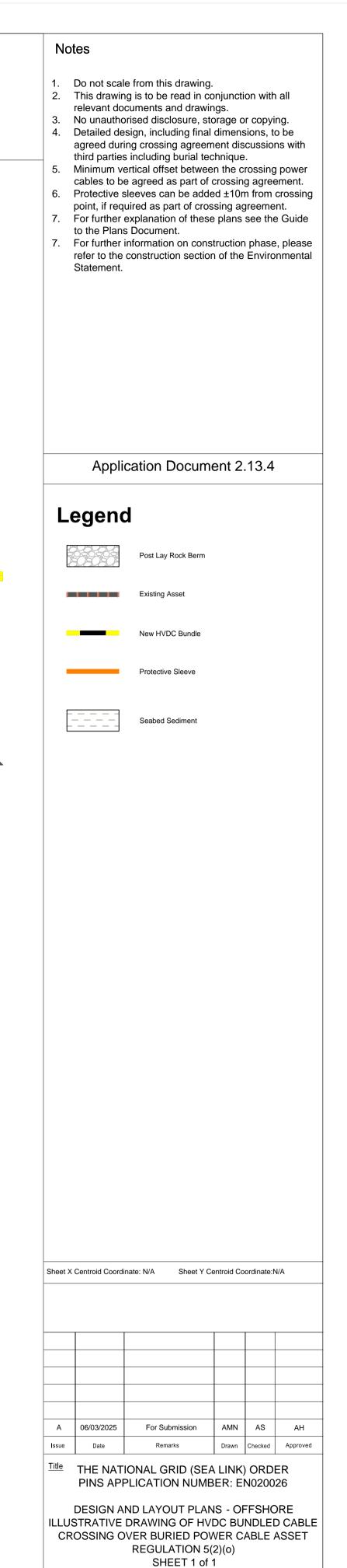
EN020026

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THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - OFFSHORE

ILLUSTRATIVE DRAWING OF HVDC BUNDLED CABLE CROSSING OVER BURIED POWER CABLE ASSET REGULATION 5(2)(o)

SHEET 1 of 1



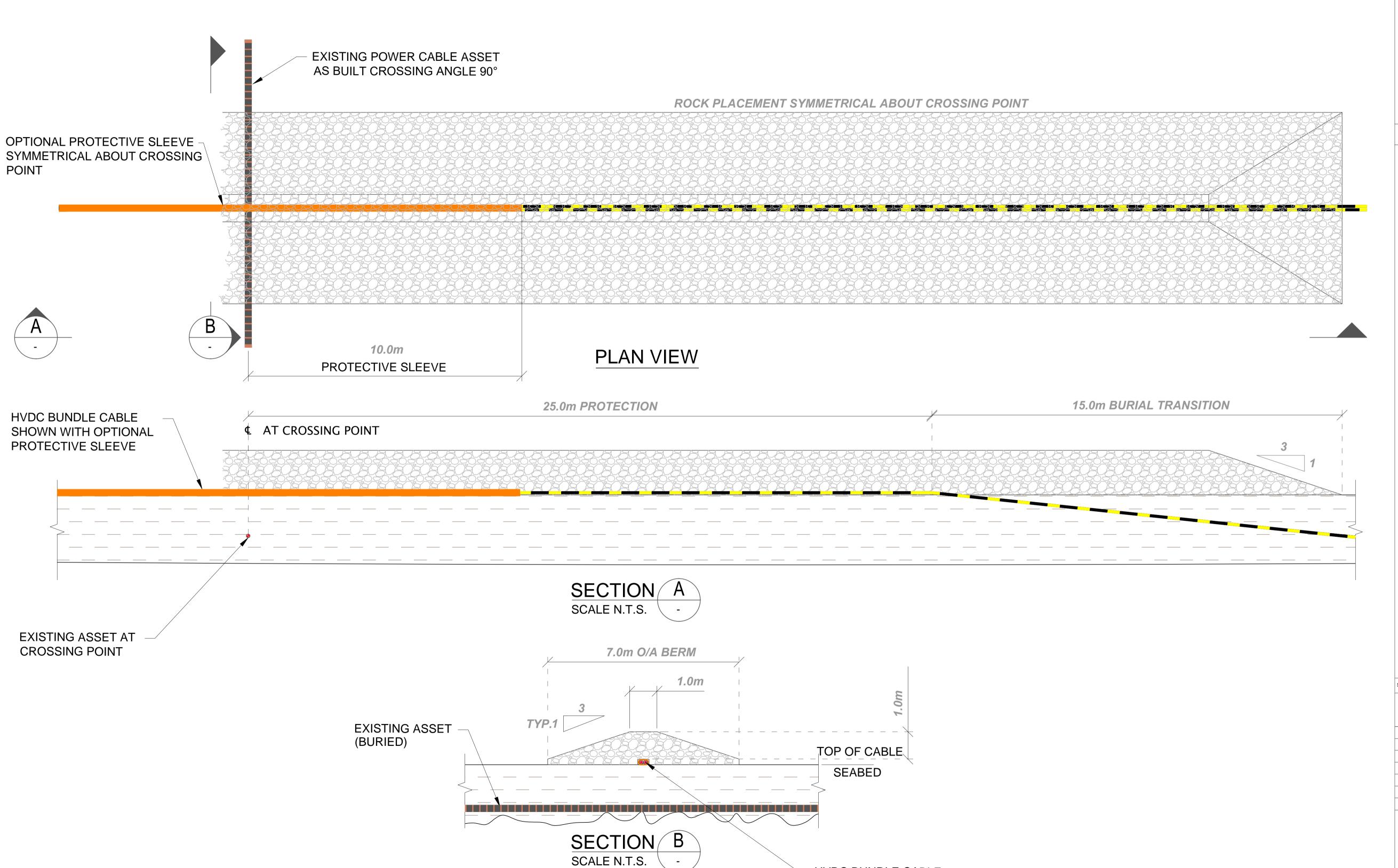
nationalgrid

EN020026

SHEET 1 OF 1

Application Number

National Grid Drawing Reference



HVDC BUNDLE CABLE

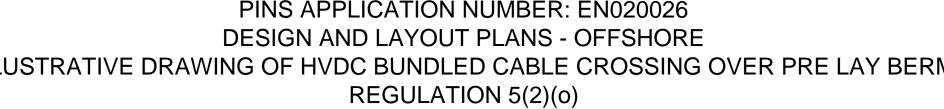
PROTECTIVE SLEEVE

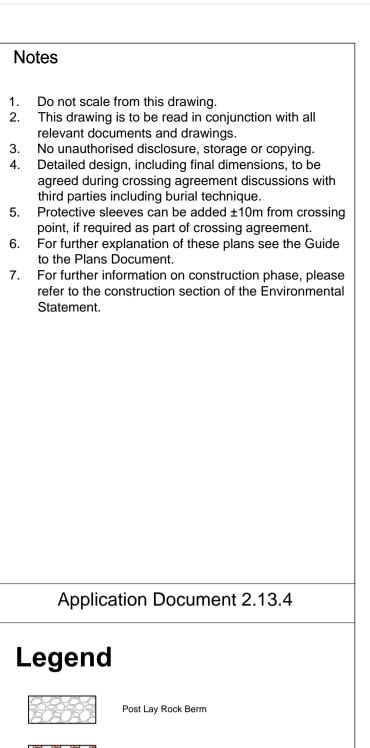
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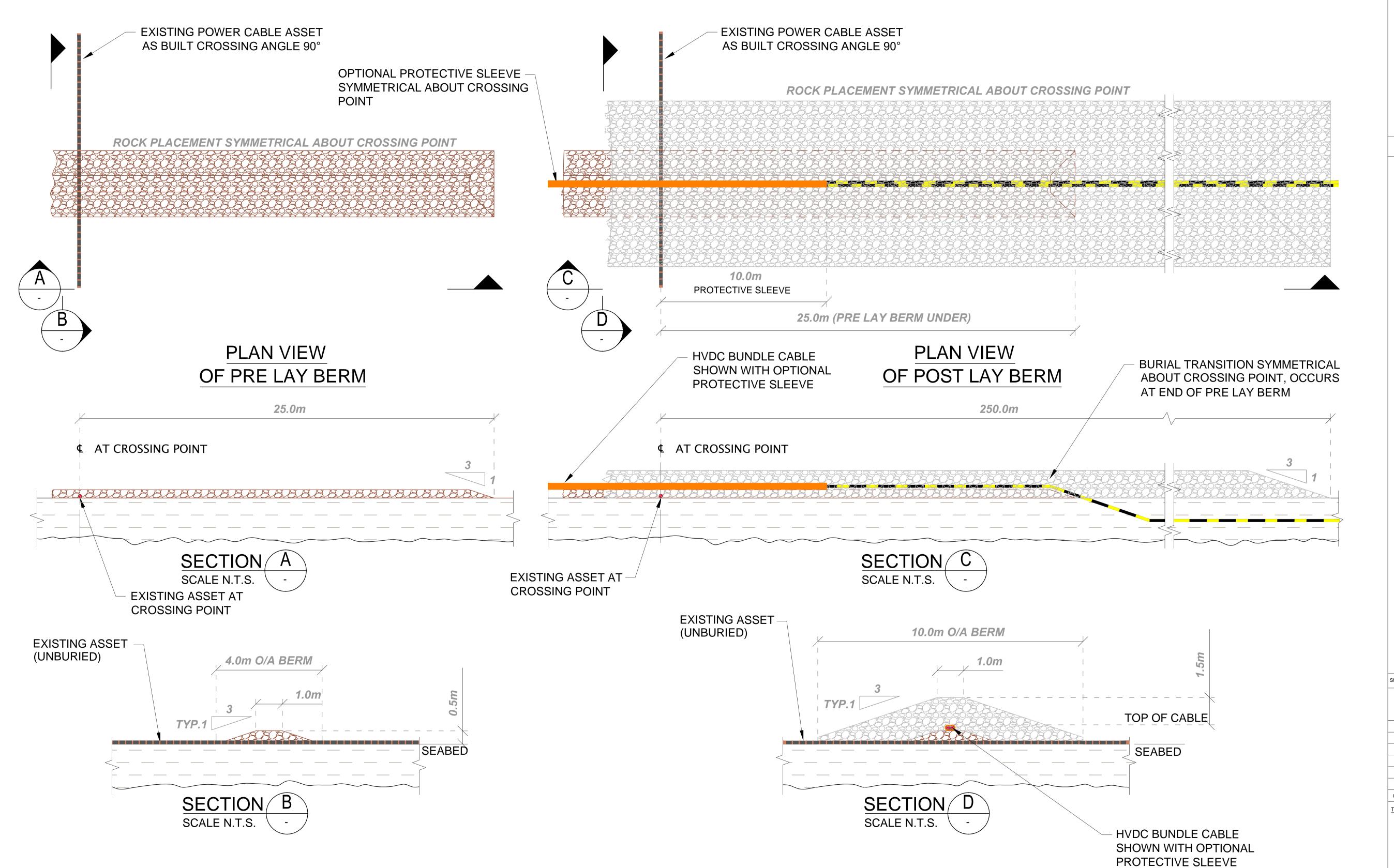
THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 **DESIGN AND LAYOUT PLANS - OFFSHORE**

ILLUSTRATIVE DRAWING OF HVDC BUNDLED CABLE CROSSING OVER PRE LAY BERM









Pre Lay Rock Berm

Sheet X Centroid Coordinate: N/A Sheet Y Centroid Coordinate: N/A

THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026

DESIGN AND LAYOUT PLANS - OFFSHORE ILLUSTRATIVE DRAWING OF HVDC BUNDLED CABLE CROSSING OVER PRE LAY BERM REGULATION 5(2)(0) SHEET 1 of 1

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Application Number EN020026 National Grid Drawing Reference

DCO/M/DE/SS/1353 SHEET 1 OF 1

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THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - OFFSHORE 1. Do not scale from this drawing. 2. This drawing is to be read in conjunction with all ILLUSTRATIVE DRAWING OF ROCK BERM SCHEMATICS PRE LAY AND POST LAY relevant documents and drawings. 3. No unauthorised disclosure, storage or copying. REGULATION 5(2)(o) 4. Detailed design, including final dimensions, to be agreed during crossing agreement discussions with SHEET 1 of 1 third parties including burial technique. 5. Height of berms dependent on water depth, grade of rock & tonnage of rock required for protection. 6. For further explanation of these plans see the Guide to the Plans Document. 7. For further information on construction phase, please refer to the construction section of the Environmental **HVDC BUNDLE CABLE** ROCK PLACEMENT SYMMETRICAL ABOUT AS-LAID CABLE Application Document 2.13.4 Legend Post Lay Rock Berm Semi-Trenchable Soil PLAN VIEW OF PRE LAID CABLE **PLAN VIEW** HVDC BUNDLE CABLE **BURIAL TRANSITION POINT** TARGET TRENCH DEPTH NOT ACHIEVED OF POST LAY BERM **Partially Trenched** Trenching Not Feasible SECTION D SECTION A SCALE N.T.S. SCALE N.T.S. **HVDC BUNDLE** CABLE (EXPOSED) WD/Rock Grade/Tonnage Dependent WD/Rock Grade/Tonnage Dependent SECTION B SCALE N.T.S. TOP OF CABLE SEABED **HVDC BUNDLE** TOP OF CABLE **CABLE** THE NATIONAL GRID (SEA LINK) ORDER TARGET TRENCH (PARTIALLY BURIED) PINS APPLICATION NUMBER: EN020026 DEPTH SECTION E **DESIGN AND LAYOUT PLANS - OFFSHORE** SECTION F ILLUSTRATIVE DRAWING OF ROCK BERM SCHEMATICS PRE LAY AND POST LAY REGULATION 5(2)(o) SHEET 1 of 1 SCALE N.T.S. SCALE N.T.S. SEABED ACHIEVED TRENCH DEPTH TARGET TRENCH nationalgrid DEPTH NATURAL BACKFILL SECTION C EN020026 ACHIEVED TRENCH DEPTH SCALE N.T.S.

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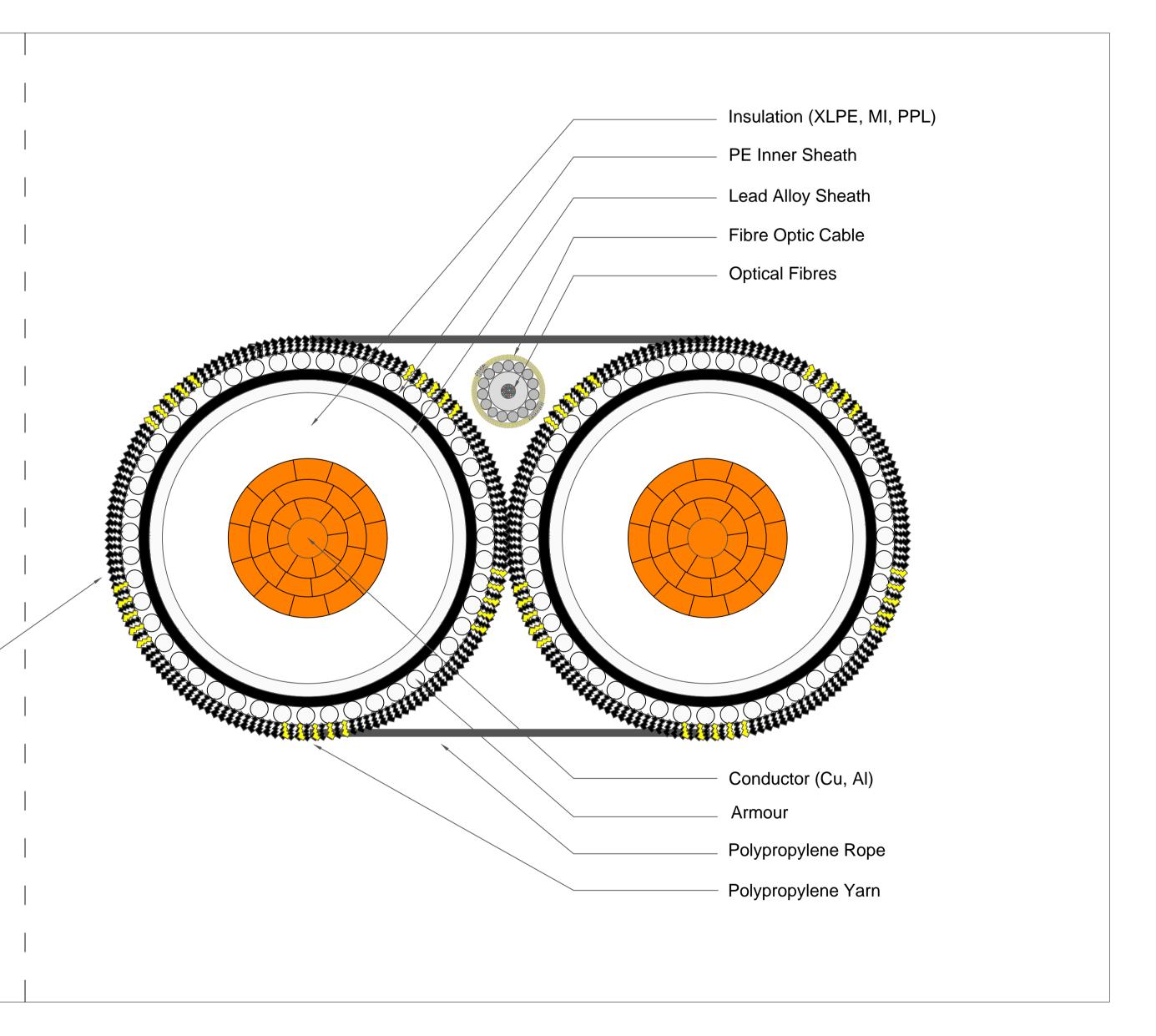
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THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - OFFSHORE ILLUSTRATIVE DRAWING OF HVDC BUNDLED CABLE PROFILE / CONFIGURATION REGULATION 5(2)(o) SHEET 1 of 1

Notes

- 1. Do not scale from this drawing.
- This drawing is to be read in conjunction with all relevant documents and drawings.
 No unauthorised disclosure, storage or copying.
 Detailed design, including final dimensions, to be
- decided at a later date. 5. The possibility of 'V' shaped trench due to shallow soil types and/or trench collapse cannot be ruled out.
- to the Plans Document. 7. For further information on construction phase, please refer to the construction section of the Environmental

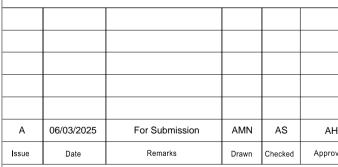
6. For further explanation of these plans see the Guide



Application Document 2.13.4

Legend

Sheet X Centroid Coordinate: N/A Sheet Y Centroid Coordinate: N/A



Title THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026

DESIGN AND LAYOUT PLANS - OFFSHORE ILLUSTRATIVE DRAWING OF HVDC BUNDLED CABLE PROFILE / CONFIGURATION REGULATION 5(2)(o) SHEET 1 of 1

Application Number EN020026

National Grid Drawing Reference

SHEET 1 OF 1

Trench Width

☐300mm to 1500mm☐

Representative Bundled Pair

(2 HVDC + 1 FO Cable)



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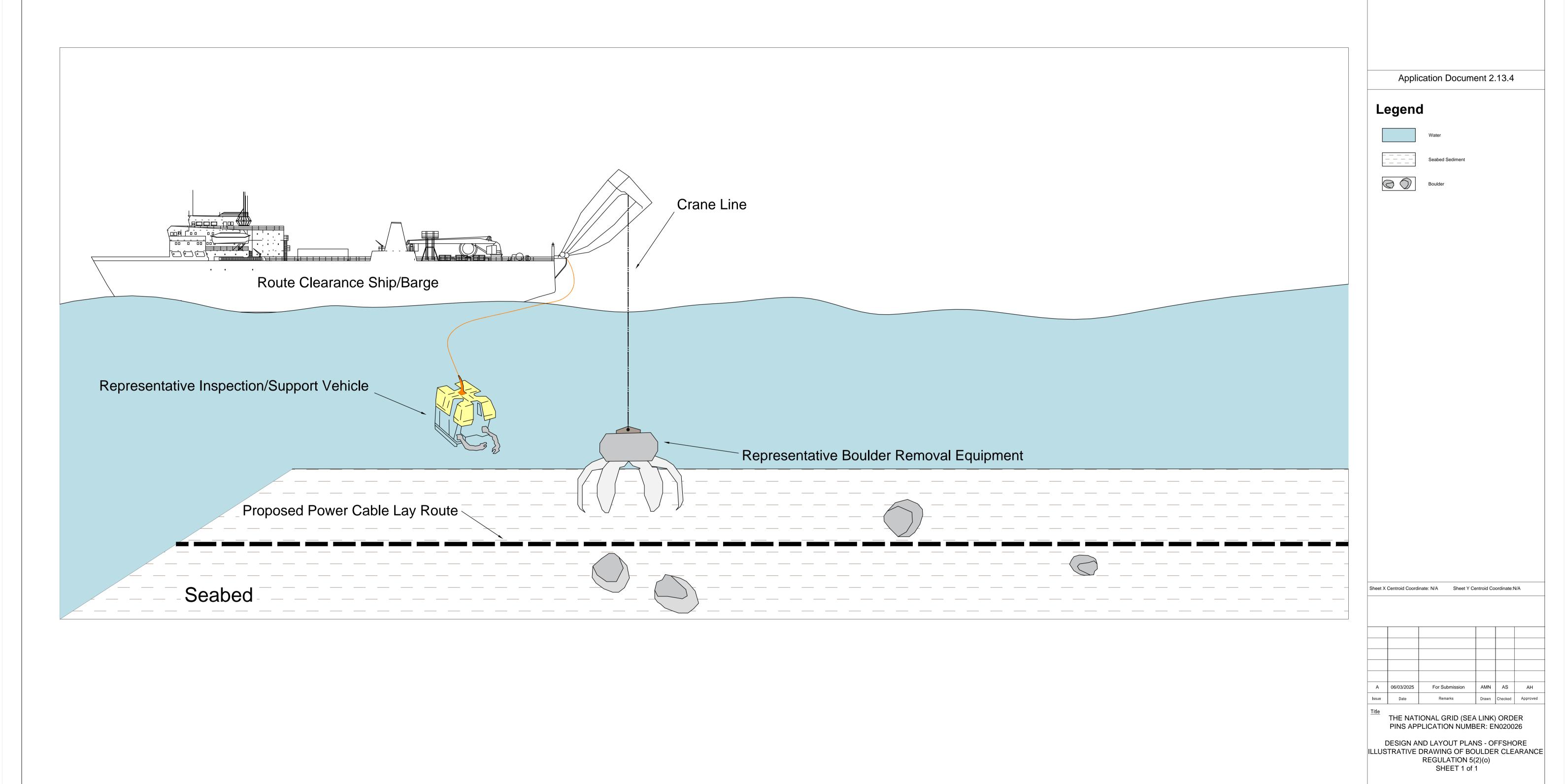
THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - OFFSHORE ILLUSTRATIVE DRAWING OF BOULDER CLEARANCE REGULATION 5(2)(o) SHEET 1 of 1

Notes

to the Plans Document.

- Do not scale from this drawing.
 This drawing is to be read in conjunction with all relevant documents and drawings.
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 Detailed design, including final dimensions, to be decided at a later date. 5. For further explanation of these plans see the Guide
- 6. For further information on construction phase, please refer to the construction section of the Environmental

nationalgrid





THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - OFFSHORE ILLUSTRATIVE DRAWING OF PRE LAY GRAPNEL RUN REGULATION 5(2)(o) SHEET 1 of 1

Notes

Do not scale from this drawing.
 This drawing is to be read in conjunction with all relevant documents and drawings.
 No unauthorised disclosure, storage or copying.
 Detailed design, including final dimensions, to be decided at a later date.
 PLGR = Pre Lay Grapnel Run

 For further explanation of these plans see the Guide to the Plans Document. 7. For further information on construction phase, please refer to the construction section of the Environmental Statement.

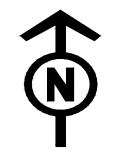
Application Document 2.13.4 Legend

Direction of Route Clearance Tow Line PLGR Ship/Barge Representative Grapnel Chain Assembly Seabed

THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026

DESIGN AND LAYOUT PLANS - OFFSHORE ILLUSTRATIVE DRAWING OF PRE LAY GRAPNEL RUN REGULATION 5(2)(o) SHEET 1 of 1

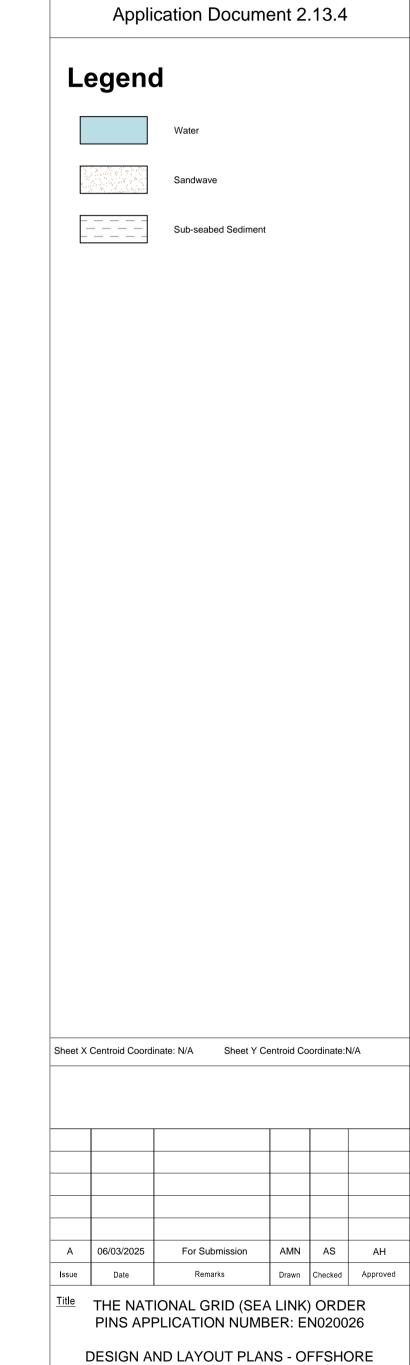
Application Number EN020026 National Grid Drawing Reference



THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - OFFSHORE ILLUSTRATIVE DRAWING OF INDICATIVE PRE-SWEEPING AND SIDECASTING REGULATION 5(2)(o) SHEET 1 of 1

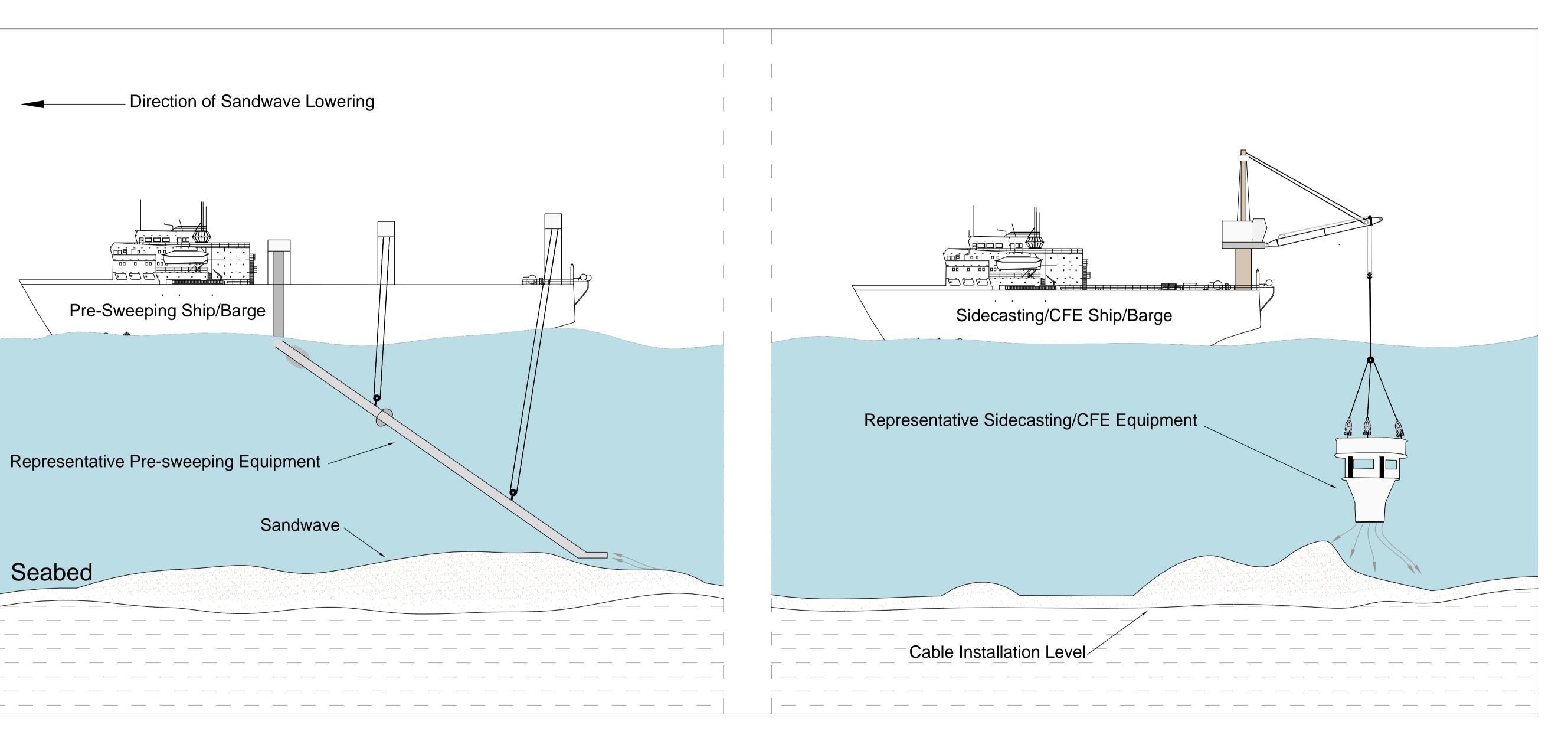
- 1. Do not scale from this drawing.
- Do not scale from this drawing.
 This drawing is to be read in conjunction with all relevant documents and drawings.
 No unauthorised disclosure, storage or copying.
 Detailed design, including final dimensions, to be decided at a later date.
 CFE = Controlled Flow Excavator.

- 6. For further explanation of these plans see the Guide
- to the Plans Document. 7. For further information on construction phase, please refer to the construction section of the Environmental



ILLUSTRATIVE DRAWING OF

INDICATIVE PRE-SWEEPING AND SIDECASTING
REGULATION 5(2)(0)
SHEET 1 of 1





Survey/Identification

Seabed

Representative

Aerial UXO Survey Equipment

Representative

Marine UXO Survey Equipment

THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - OFFSHORE ILLUSTRATIVE DRAWING OF UNEXPLODED ORDNANCE, REMOVAL AND DETONATION REGULATION 5(2)(o) SHEET 1 of 1

Inspection/Removal

Inspection/Recovery Ship/Barge

Representativé

Inspection/Recovery Vehicle

Notes

1. Do not scale from this drawing. This drawing is to be read in conjunction with all relevant documents and drawings.

3. No unauthorised disclosure, storage or copying.4. Detailed design, including final dimensions, to be

decided at a later date. 5. UXO = Unexploded Ordnance

6. For further explanation of these plans see the Guide to the Plans Document. 7. For further information on construction phase, please refer to the construction section of the Environmental

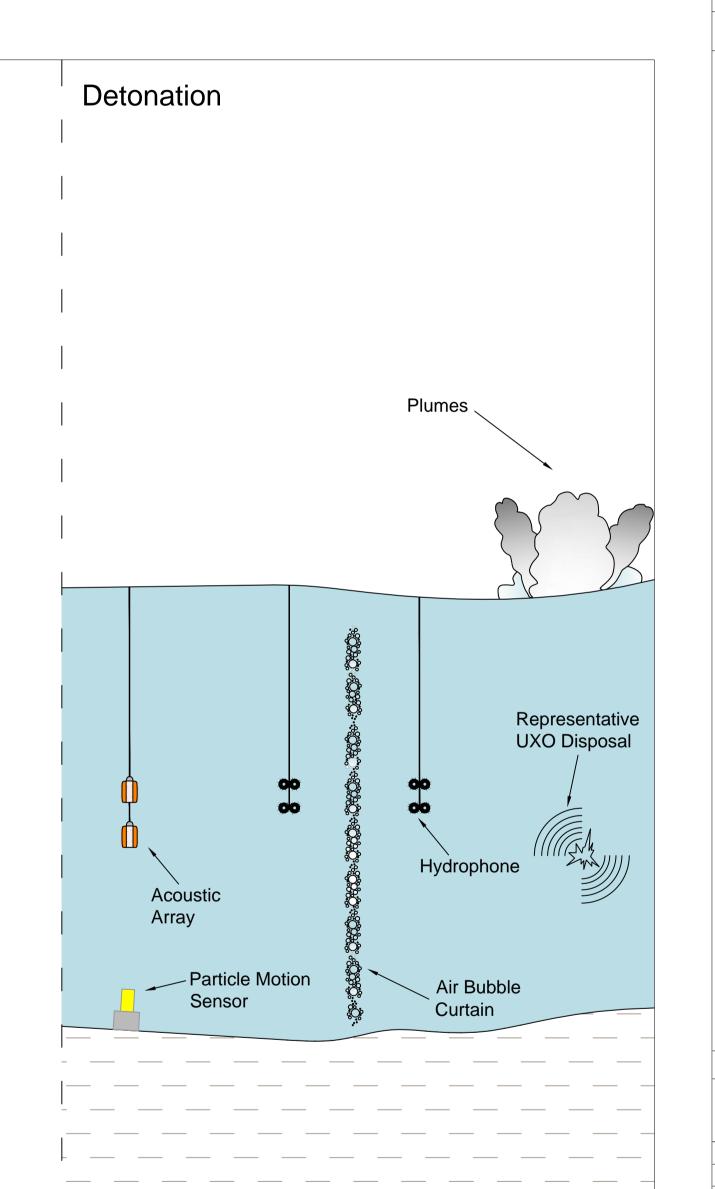
8. Acoustic Array = A collection of multiple sensors

arranged to detect acoustic signals. 9. Hydrophone = An underwater device that detects and records ocean sounds from all directions.

10. Particle Motion Sensor = Specialized acoustic devices designed to sense and respond to the

difference in pressure.

11. Air Bubble Curtain = System to mitigate underwater sound.



Application Document 2.13.4

Legend

Sheet X Centroid Coordinate: N/A Sheet Y Centroid Coordinate: N/A

Title THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026

DESIGN AND LAYOUT PLANS - OFFSHORE ILLUSTRATIVE DRAWING OF UNEXPLODED ORDNANCE, REMOVAL AND DETONATION REGULATION 5(2)(o) SHEET 1 of 1

Application Number

EN020026

National Grid Drawing Reference

SHEET 1 OF 1

Survey Ship/Barge

Representative UXO

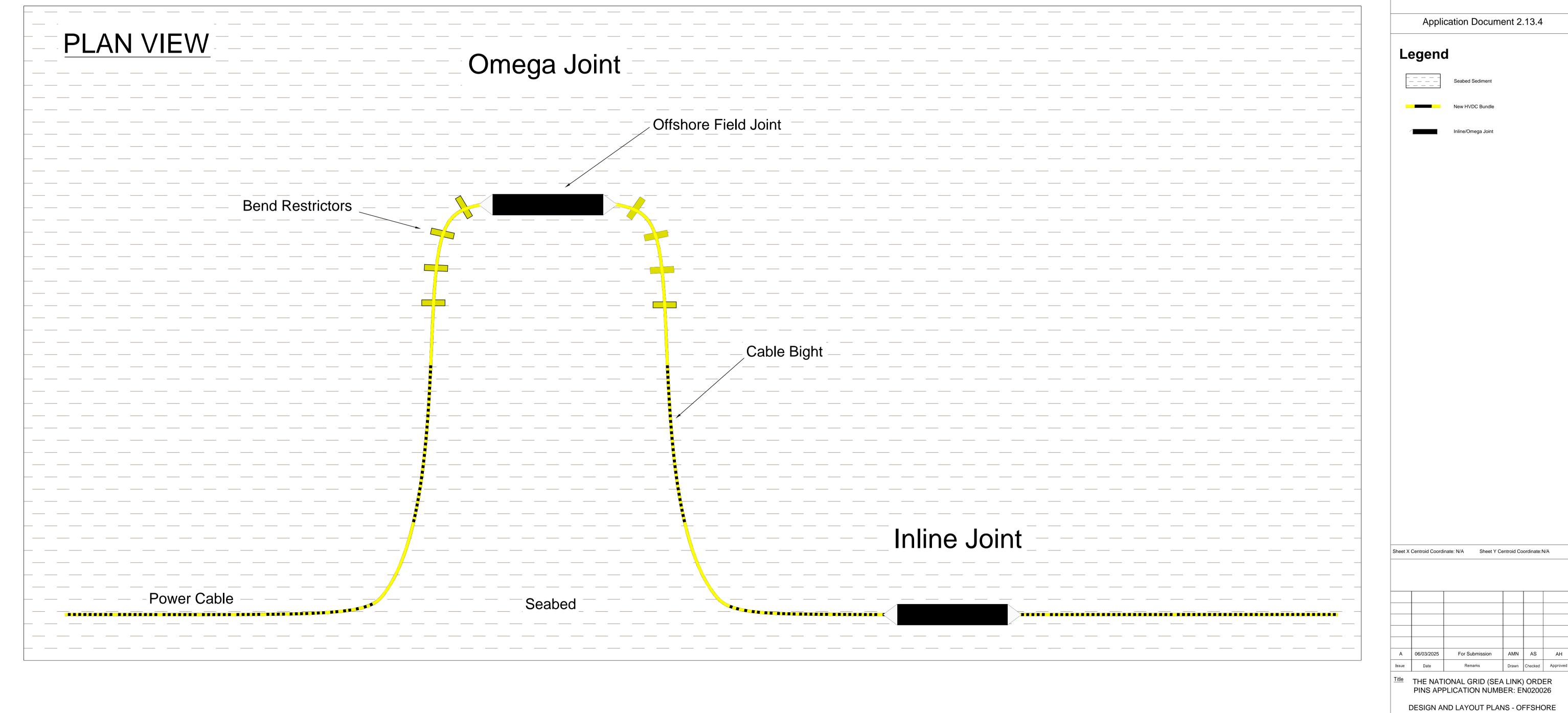


THE NATIONAL GRID (SEA LINK) ORDER
PINS APPLICATION NUMBER: EN020026
DESIGN AND LAYOUT PLANS - OFFSHORE
ILLUSTRATIVE DRAWING OF OMEGA AND INLINE JOINT
REGULATION 5(2)(0)
SHEET 1 of 1



- Do not scale from this drawing.
 This drawing is to be read in conjunction with all relevant documents and drawings.
- relevant documents and drawings.3. No unauthorised disclosure, storage or copying.
- Detailed design, including final dimensions, to be decided at a later date.
- 5. Infield joint is a joint made on board a cable laying vessel or barge, or in the beach areas, between cable lengths which have been armoured. They are generally used to connect two delivery lengths offshore creating a continuous linear 'in-line' asset.
 6. Omega joint is a joint made during cable lay or during
- a cable repair. The joint get its name because it results in a bight of cable laid to the side of the main cable route and looks like an ' Ω ' when viewed from
- For further explanation of these plans see the Guide to the Plans Document.
- 8. For further information on construction phase, please refer to the construction section of the Environmental Statement.

 8. Statement.



DESIGN AND LAYOUT PLANS - OFFSHO ILLUSTRATIVE DRAWING OF OMEGA AND INLINE JOINT REGULATION 5(2)(0) SHEET 1 of 1

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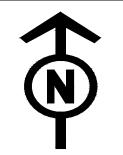
Application Number EN

EN020026

National Grid Drawing Reference

 DCO/M/DE/SS/1360

 Sheet Size
 Sheet
 Issue



THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - OFFSHORE ILLUSTRATIVE DRAWING OF SIMULTANEOUS LAY AND BURIAL REGULATION 5(2)(o) SHEET 1 of 1

Tow Line

Representative Cable Plough Equipment

Power Cable -

Control Umbilical

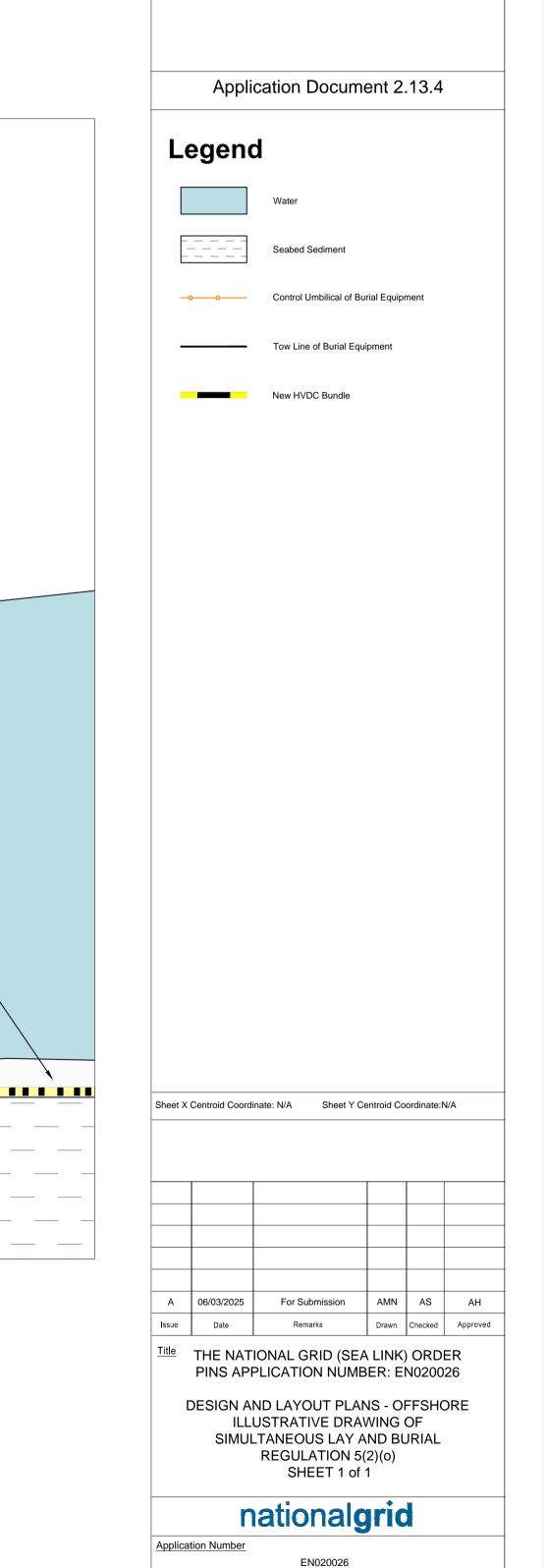
Buried Cable

Notes

- 1. Do not scale from this drawing.

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 This drawing is to be read in conjunction with all relevant documents and drawings.
 No unauthorised disclosure, storage or copying.
 Detailed design, including final dimensions, to be decided at a later date. 5. For further explanation of these plans see the Guide
- to the Plans Document. 6. For further information on construction phase, please

refer to the construction section of the Environmental



National Grid Drawing Reference

SHEET 1 OF 1

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Seabed

Direction of Cable Lay and Burial

Cable Lay Ship/Barge

Cable Carousel



THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - OFFSHORE ILLUSTRATIVE DRAWING OF LAY AND POST-LAY BURIAL REGULATION 5(2)(o) SHEET 1 of 1

_ Direction of Cable Burial

Pre-Laid Power Cable

Cable Burial Ship/Barge

Representative Cable Jetting Vehicle

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Application Document 2.13.4 Legend

Control Umbilical

111/

THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026

Buried Cable

DESIGN AND LAYOUT PLANS - OFFSHORE ILLUSTRATIVE DRAWING OF LAY AND POST-LAY BURIAL REGULATION 5(2)(o)

SHEET 1 OF 1

EN020026 National Grid Drawing Reference

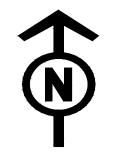
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Direction of Cable Lay

Cable Lay Ship/Barge

Seabed

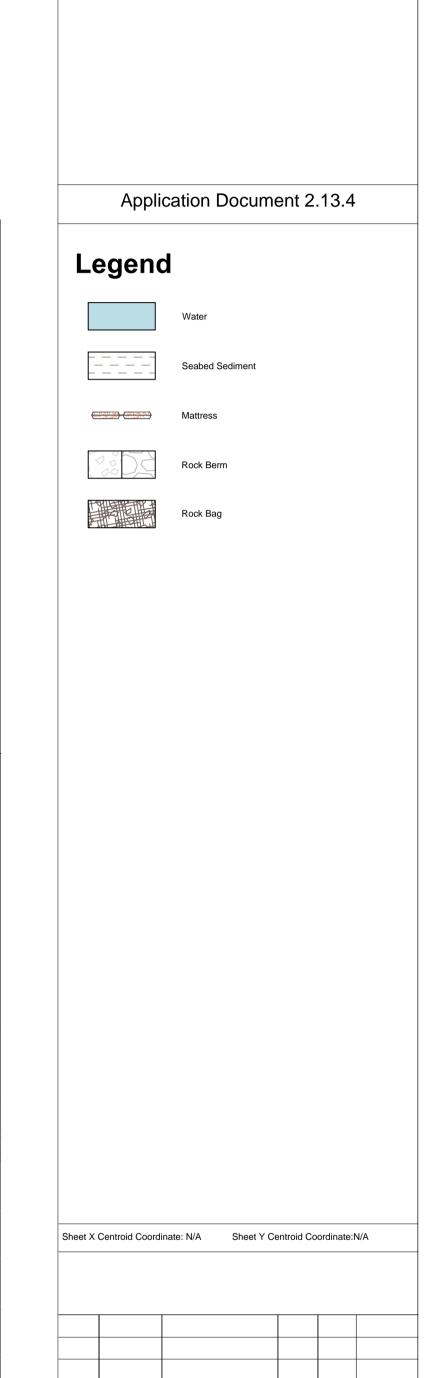
Application Number



THE NATIONAL GRID (SEA LINK) ORDER
PINS APPLICATION NUMBER: EN020026
DESIGN AND LAYOUT PLANS - OFFSHORE
ILLUSTRATIVE DRAWING OF CABLE PROTECTION SYSTEMS
REGULATION 5(2)(o)
SHEET 1 of 1

Notes

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- 2. This drawing is to be read in conjunction with all relevant documents and drawings.
- 3. No unauthorised disclosure, storage or copying.4. Detailed design, including final dimensions, to be
- 4. Detailed design, including final dimensions, to be decided at a later date.5. For further explanation of these plans see the Guide
- to the Plans Document.6. For further information on construction phase, please refer to the construction section of the Environmental



A 06/03/2025 For Submission AMN AS AH
Issue Date Remarks Drawn Checked Approved

Title THE NATIONAL GRID (SEA LINK) ORDER

THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026

DESIGN AND LAYOUT PLANS - OFFSHORE
ILLUSTRATIVE DRAWING OF
CABLE PROTECTION SYSTEMS
REGULATION 5(2)(0)
SHEET 1 of 1

nationalgrid

Application Number

EN020026

National Grid Drawing Reference

al Grid Drawing Reference

DCO/M/DE/SS/1363

Sheet Size Sheet Issue

SHEET 1 OF 1

Representative Cable
Protection System
Representative
Mattress

Section View
Representative Bundled Pair
(2 HVDC + 1 FO Cable)

Seabed

Seabed

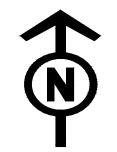
Seabed

Representative Bundled Pair
(2 HVDC + 1 FO Cable)

Seabed

Representative Bundled Pair
(2 HVDC + 1 FO Cable)

Seabed

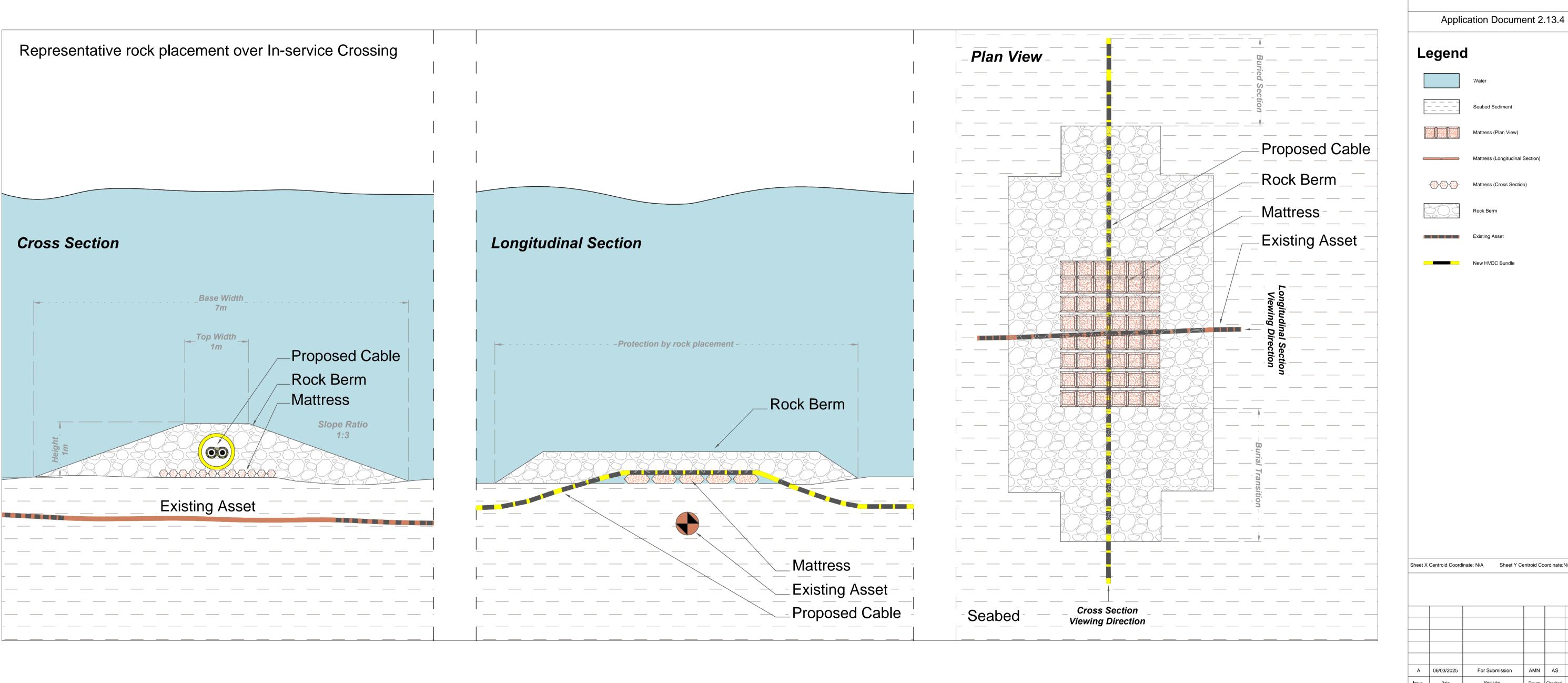


THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - OFFSHORE ILLUSTRATIVE DRAWING OF ROCK PLACEMENT SECTIONS REGULATION 5(2)(o) SHEET 1 of 1



- 1. Do not scale from this drawing.
- This drawing is to be read in conjunction with all relevant documents and drawings.
- 3. No unauthorised disclosure, storage or copying. 4. Detailed design, including final dimensions, to be
- agreed during crossing agreement discussions with third parties including burial technique.

 5. For further explanation of these plans see the Guide to the Plans Document.
- 6. For further information on construction phase, please refer to the construction section of the Environmental



Mattress (Cross Section)

Sheet X Centroid Coordinate: N/A Sheet Y Centroid Coordinate: N/A

THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026

DESIGN AND LAYOUT PLANS - OFFSHORE ILLUSTRATIVE DRAWING OF ROCK PLACEMENT SECTIONS
REGULATION 5(2)(0)
SHEET 1 of 1

nationalgrid

Application Number EN020026 National Grid Drawing Reference

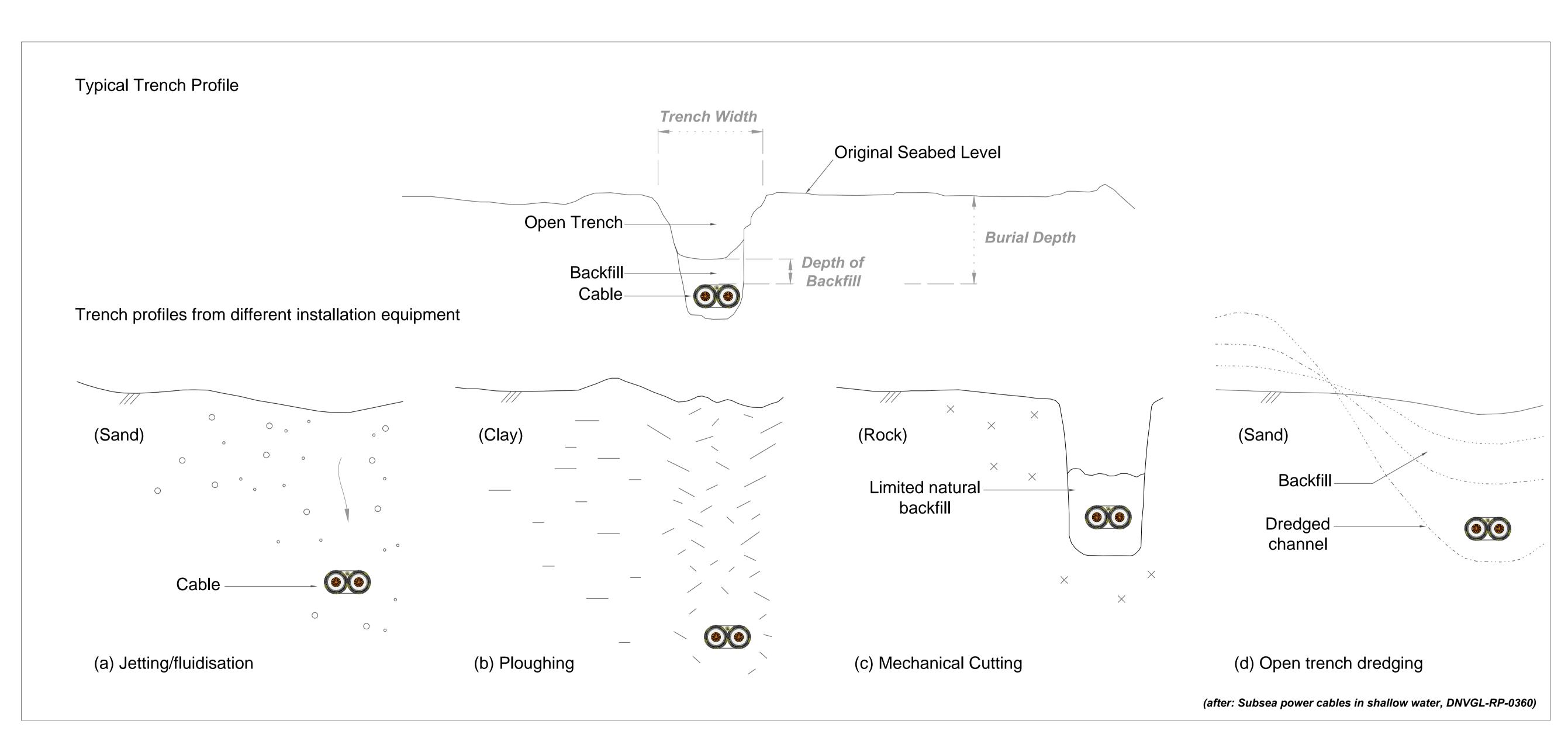


THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026 DESIGN AND LAYOUT PLANS - OFFSHORE ILLUSTRATIVE DRAWING OF TYPICAL MARINE TRENCH PROFILES REGULATION 5(2)(o) SHEET 1 of 1

Notes

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- decided at a later date.
- to the Plans Document. 6. For further information on construction phase, please refer to the construction section of the Environmental

For further explanation of these plans see the Guide



Application Document 2.13.4 Legend $\begin{array}{c|cccc} \times & \times & \\ \times & \times & \times \end{array}$ Rock

National Grid Drawing Reference

Title THE NATIONAL GRID (SEA LINK) ORDER PINS APPLICATION NUMBER: EN020026

DESIGN AND LAYOUT PLANS - OFFSHORE ILLUSTRATIVE DRAWING OF

TYPICAL MARINE TRENCH PROFILES

REGULATION 5(2)(0)

SHEET 1 of 1

nationalgrid