

The Great Grid Upgrade

Sea Link

Design Drawings

Version A

October 2023

To assist with understanding these drawings please see the **Guide to Interacting with the Consultation Plans and Drawings**

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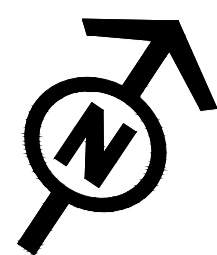
01. Onshore Design Drawings

To assist with understanding these drawings please see the **Guide to Interacting with the Consultation Plans and Drawings**

01-01. Friston 400kV Substation

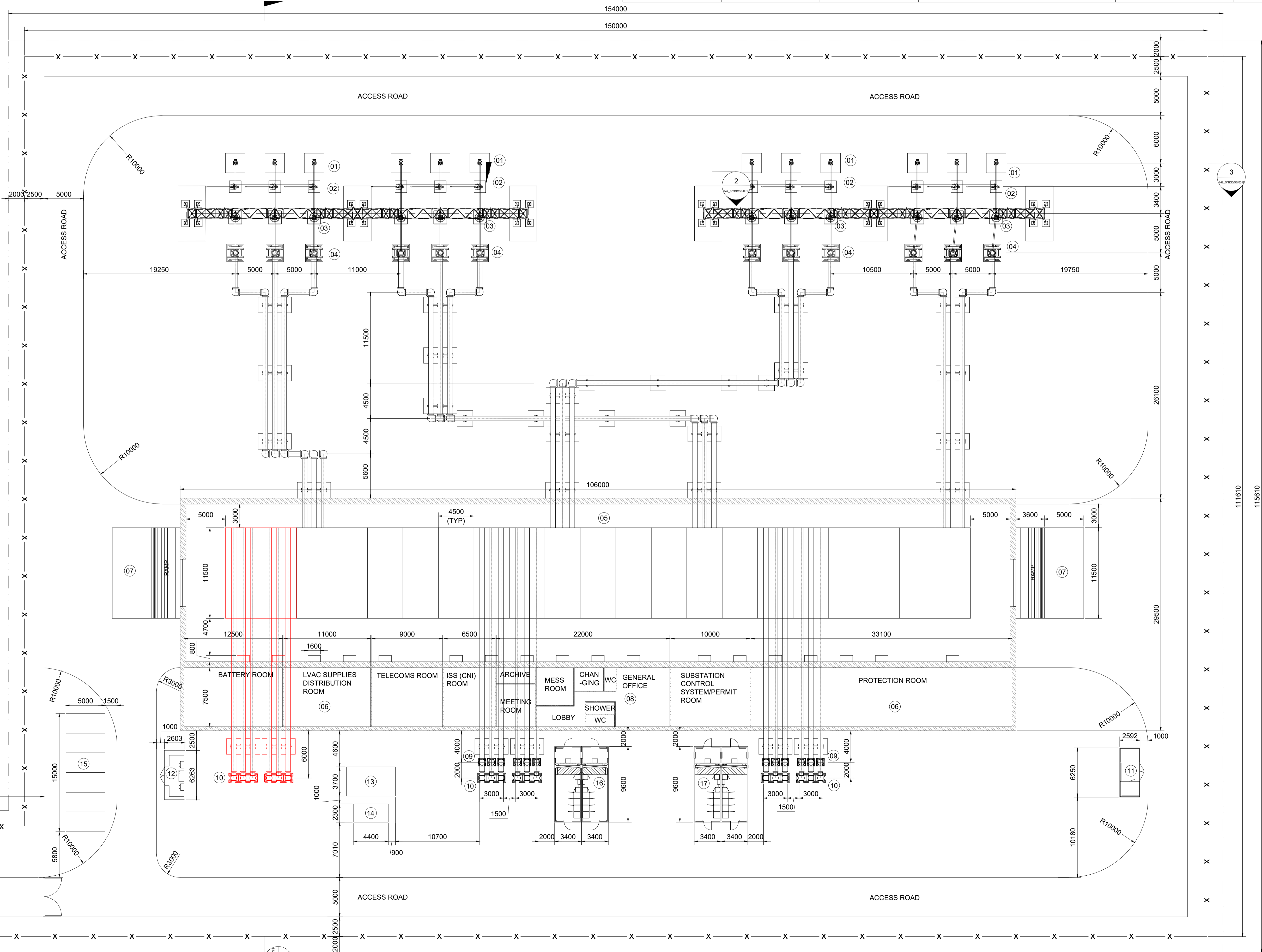
Drawing Category Name	Plan Title	Scheme	Drawing Numbers
Friston 400kV Substation	Typical Sea Link works should Friston 400kV GIS substation be developed by others	Suffolk Onshore Scheme	S42_S/TDD/SS/0001
	Typical Friston 400kV GIS substation in scenario where not construction by third party	Suffolk Onshore Scheme	S42_S/TDD/SS/0003
	Typical Friston 400kV GIS substation - elevation drawing	Suffolk Onshore Scheme	S42_S/TDD/SS/0019

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THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 TYPICAL SEA LINK WORKS SHOULD FRISTON 400KV GIS SUBSTATION BE DEVELOPED BY OTHERS
 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) D _v	DESIGN CLEARANCE FOR SAFETY (HORIZONTAL) D _{sh}	INSULATION HEIGHT l _h
kV	M	M	M	M	M	M
400	2.8	3.6	3.1	5.5	4.6	2.4



- Notes**
- For statutory consultation purposes only.
- These plans show the Draft Order Limits and Draft Cable Alignment and potential pylon locations. 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 (including pylon locations) would lie. Therefore the Draft Cable Alignment and pylon locations should be treated as indicative only. Further information is provided in our 'Guide to interacting with our consultation plans' document.
 - For further information on construction please refer to the construction section of the Preliminary Environmental Impact Report, Volume 1, Part 1, Chapter 4.
 - Abbreviations
 - AIS - Air Insulated Switchgear
 - CVT - Capacitive Voltage Transformer
 - GIS - Gas Insulated Switchgear
 - ISS - Integrated Security Solutions
 - CNI - Critical National Infrastructure
 - LVAC - Low Voltage Alternating Current
 - Elevation sections relate to S42_S/TDD/SS/0019.

Legend

- EXISTING EQUIPMENT
- NEW EQUIPMENT
- LIMIT OF LAND
- X FENCE

ID	DESCRIPTION
01	400kV AIS CVT
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	400kV GIS / CABLE INTERFACE
11	STORAGE
12	WORKSHOP
13	EMERGENCY DIESEL GENERATOR
14	DIESEL TANK
15	PARKING
16	DISTRIBUTED RELAY ROOM (OFTO EA2)
17	DISTRIBUTED RELAY ROOM (OFTO EA1N)

Issue	Date	Remarks	Drawn	Checked	Approved
A	07/09/2023	FINAL	SC	JW	KJ

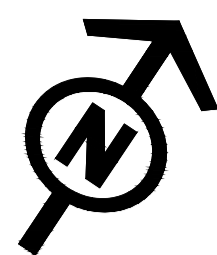
Title

THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 TYPICAL SEA LINK WORKS SHOULD FRISTON 400KV GIS SUBSTATION BE DEVELOPED BY OTHERS
 SHEET 1 OF 1

nationalgrid

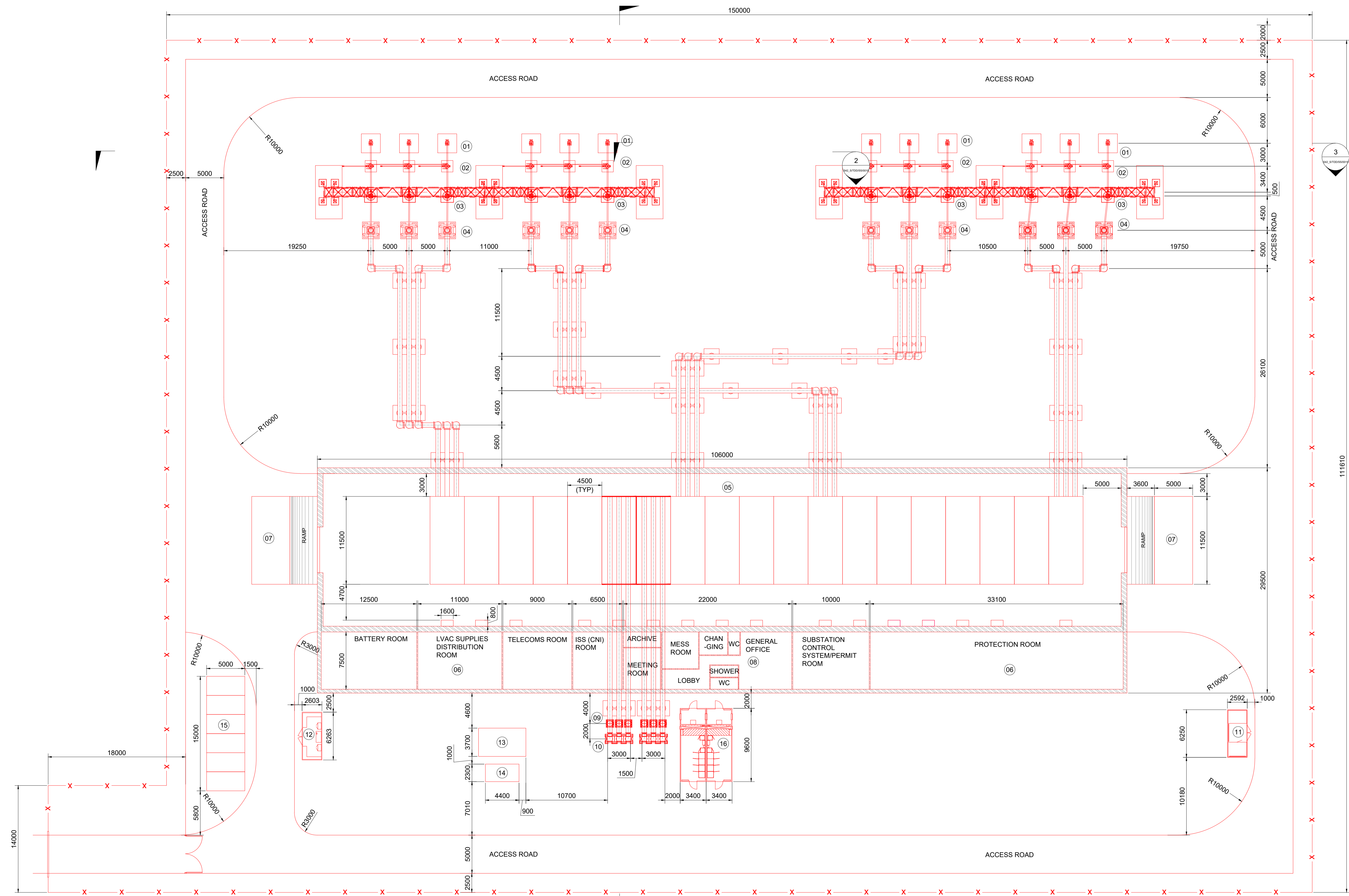
Application Number: EN020026
 National Grid Drawing Reference: S42_S/TDD/SS/0019

Scale	Sheet Size	Sheet	Issue
1:250	A1	SHEET 1 OF 1	A



**THE NATIONAL GRID ELECTRICITY
TRANSMISSION PLC (SEA LINK) ORDER
DESIGN DRAWINGS FOR CONSULTATION
TYPICAL FRISTON 400kV GIS SUBSTATION IN SCENARIO WHERE NO CONSTRUCTION BY THIRD PARTY
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) D _v	DESIGN CLEARANCE FOR SAFETY (HORIZONTAL) D _{sh}	INSULATION HEIGHT l _h
kV	M	M	M	M	M	M
400	2.8	3.6	3.1	5.5	4.6 (SEE POINT ii FROM NOTE 6)	2.4



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- These plans show the Draft Order Limits and Draft Cable Alignment and potential pylon locations. 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 (including pylon locations) would lie. Therefore the Draft Cable Alignment and pylon locations should be treated as indicative only. Further information is provided in our 'Guide to interacting with our consultation plans' document.
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 - LVAC - Low Voltage Alternating Current
 - Elevation sections relate to S42_S/TDD/SS/0019.

Legend

- x FENCE
- NEW INFRASTRUCTURE EQUIPMENT

ID	DESCRIPTION
01	400kV AIS CVT
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	400kV GIS / CABLE INTERFACE
11	STORAGE
12	WORKSHOP
13	EMERGENCY DIESEL GENERATOR
14	DIESEL TANK
15	PARKING
16	DISTRIBUTED RELAY ROOM (OFTO EA2)
17	DISTRIBUTED RELAY ROOM (OFTO EAIN)

Issue	Date	Remarks	Drawn	Checked	Approved
A	08/09/2023	FINAL	SC	JW	KJ

THE NATIONAL GRID ELECTRICITY
TRANSMISSION PLC (SEA LINK) ORDER
DESIGN DRAWINGS FOR CONSULTATION
TYPICAL FRISTON 400kV GIS SUBSTATION IN
SCENARIO WHERE NO CONSTRUCTION BY THIRD
PARTY
SHEET 1 OF 1

nationalgrid

Application Number: EN020026
National Grid Drawing Reference: S42_S/TDD/SS/0003

Scale	Sheet Size	Sheet	Issue
1:250	A1	SHEET 1 OF 1	A

THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 TYPICAL FRISTON 400kV GIS SUBSTATION - ELEVATION DRAWING
 SHEET 1 of 1

SUBSTATION MINIMUM ELECTRICAL CLEARANCES

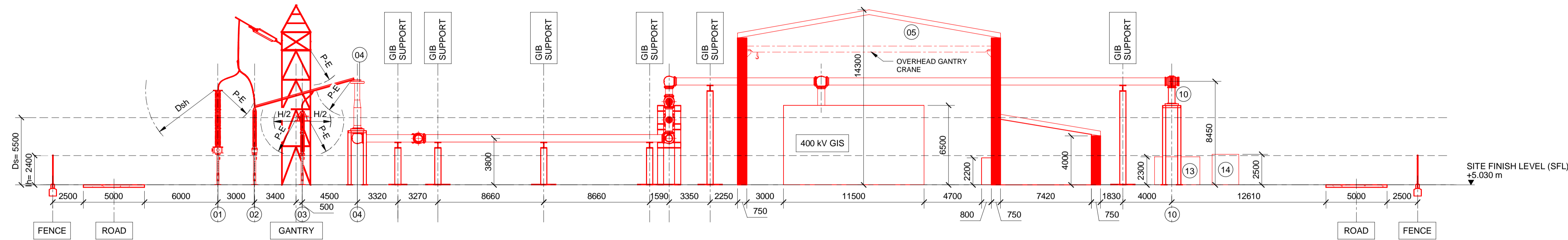
REF	CLEARANCE (mm)	NOMINAL SYSTEM VOLTAGE
		400kV
P-E	PHASE TO EARTH	2800
P-P	PHASE TO PHASE	3600
SD	SAFETY DISTANCE NATIONAL GRID SAFETY RULES	3100
Ds	DESIGN CLEARANCE FOR SAFETY (VERTICAL)	5500
Dsh	DESIGN CLEARANCE FOR SAFETY (HORIZONTAL)	4600
lh	INSULATION HEIGHT	2400

- Notes
- FOR STATUTORY CONSULTATION PURPOSES ONLY.
- THESE PLANS SHOW THE DRAFT ORDER LIMITS AND DRAFT CABLE ALIGNMENT AND POTENTIAL PYLON LOCATIONS. 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 (INCLUDING PYLON LOCATIONS) WOULD LIE. THEREFORE THE DRAFT CABLE ALIGNMENT AND PYLON LOCATIONS SHOULD BE TREATED AS INDICATIVE ONLY. FURTHER INFORMATION IS PROVIDED IN OUR 'GUIDE TO INTERACTING WITH OUR CONSULTATION PLANS' DOCUMENT.
 - FOR FURTHER INFORMATION ON CONSTRUCTION PLEASE REFER TO THE CONSTRUCTION SECTION OF THE PRELIMINARY ENVIRONMENTAL IMPACT REPORT, VOLUME 1, PART 1, CHAPTER 4.
 - 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

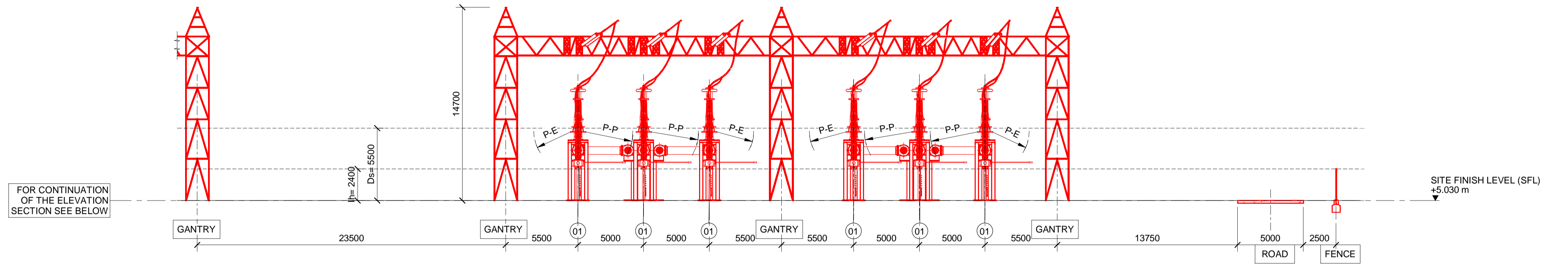
Legend

— New Equipment

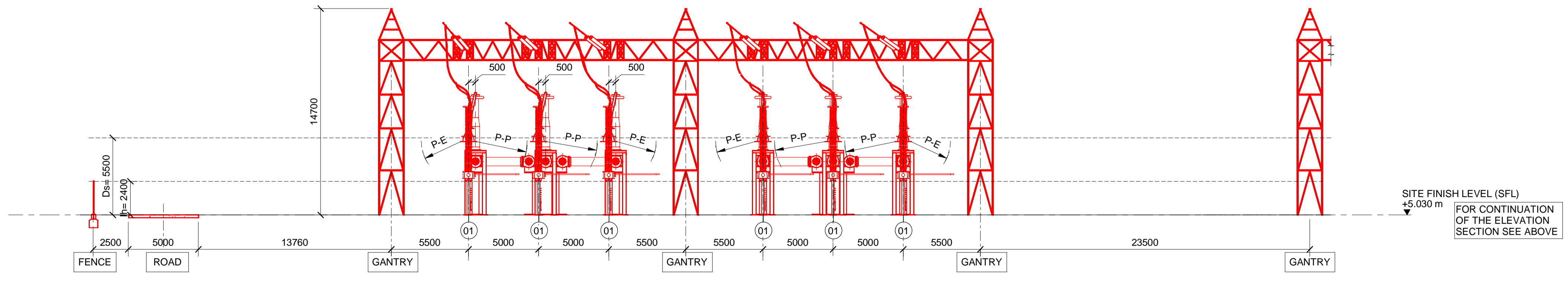
Equipment Schedule	
Item	Description
01	400kV AIS SURGE ARRESTOR
02	400kV AIS EARTH SWITCH
03	400kV AIS CVT
04	400kV GIS / AIR BUSHING
05	AMENITIES BUILDING
10	WORKSHOP
13	400 kV HARMONIC FILTER - CURRENT TRANSFORMER
14	400 kV HARMONIC FILTER - CAPACITOR



ELEVATION 1
1 : 200



ELEVATION 2
1 : 200



ELEVATION 3
1 : 200

Issue	Date	Remarks	Drawn	Checked	Approved
A	08/09/2023	FINAL	MS	JW	KJ

Title

THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 TYPICAL FRISTON 400kV GIS SUBSTATION - ELEVATION DRAWING
 SHEET 1 of 1

nationalgrid

Application Number: EN020026

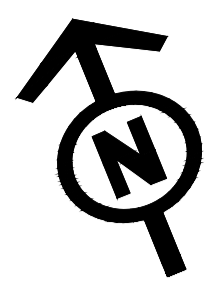
National Grid Drawing Reference: S42_S/TTD/SS/0019

Scale	Sheet Size	Sheet	Issue
1 : 200	A1	SHEET 1 of 1	A

01-02. Saxmundham Converter Station

Drawing Category Name	Plan Title	Scheme	Drawing Numbers
Saxmundham Converter Station	Typical Saxmundham converter station layout plan (GIS)	Suffolk Onshore Scheme	S42_S/TDD/SS/0015
	Typical Saxmundham converter station - elevation drawing	Suffolk Onshore Scheme	S42_S/TDD/SS/0020_SH1 S42_S/TDD/SS/0020_SH2

To assist with understanding these drawings please see the **Guide to Interacting with the Consultation Plans and Drawings**



**THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
DESIGN DRAWINGS FOR CONSULTATION
TYPICAL SAXMUNDHAM CONVERTER STATION LAYOUT PLAN (GIS)
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 lh
KV	M	M	M	M	M	M
400	2.8	3.6	3.1	5.5	(SEE POINT II FROM NOTE 10) 4.6	2.4

Notes

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- Abbreviations
 - PIR - Pre-Insertion Resistor
 - CAP - Capacitor
 - RES - Resistor
 - REA - Reactor
 - PI - Post Insulator
 - CT - Current Transformer
 - CVT - Capacitive Voltage Transformer
 - ES - Earth Switch
 - SA - Surge Arrester
 - PRR - Portable Relay Room
 - LCC - Local Control Cubicle
- Elevation sections relate to S42_S/TDD/SS/0020_SH1 & S42_S/TDD/SS/0020_SH2.



Legend

- PERIMETER FENCE
- INTERNAL FENCE
- BUILDINGS
- EXTERNAL EQUIPMENT AREAS
- CAR PARK

Issue	Date	Remarks	Drawn	Checked	Approved
A	01/09/2023	FINAL	SC	JW	KJ

THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
DESIGN DRAWINGS FOR CONSULTATION
TYPICAL SAXMUNDHAM CONVERTER STATION LAYOUT PLAN (GIS)
SHEET 1 of 1

nationalgrid

Application Number: EN020026
National Grid Drawing Reference: S42_S/TDD/SS/0015

Scale	Sheet Size	Sheet	Issue
NTS	A1	SHEET 1 OF 1	A

THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 TYPICAL SAXMUNDHAM CONVERTER STATION -ELEVATION DRAWING
 SHEET 1 OF 2

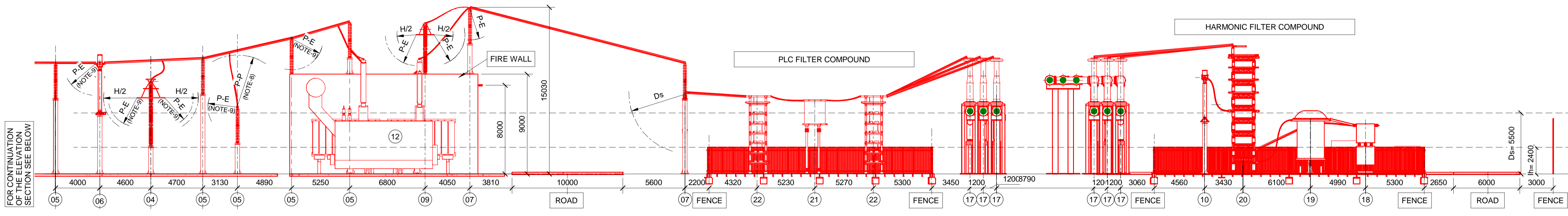
SUBSTATION MINIMUM ELECTRICAL CLEARANCES		
REF	CLEARANCE (mm)	NOMINAL SYSTEM VOLTAGE
		400kV
P-E	PHASE TO EARTH	2800
P-P	PHASE TO PHASE	3600
SD	SAFETY DISTANCE NATIONAL GRID SAFETY RULES	3100
Ds	DESIGN CLEARANCE FOR SAFETY (VERTICAL)	5500
Dsh	DESIGN CLEARANCE FOR SAFETY (HORIZONTAL)	4600
Ih	INSULATION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

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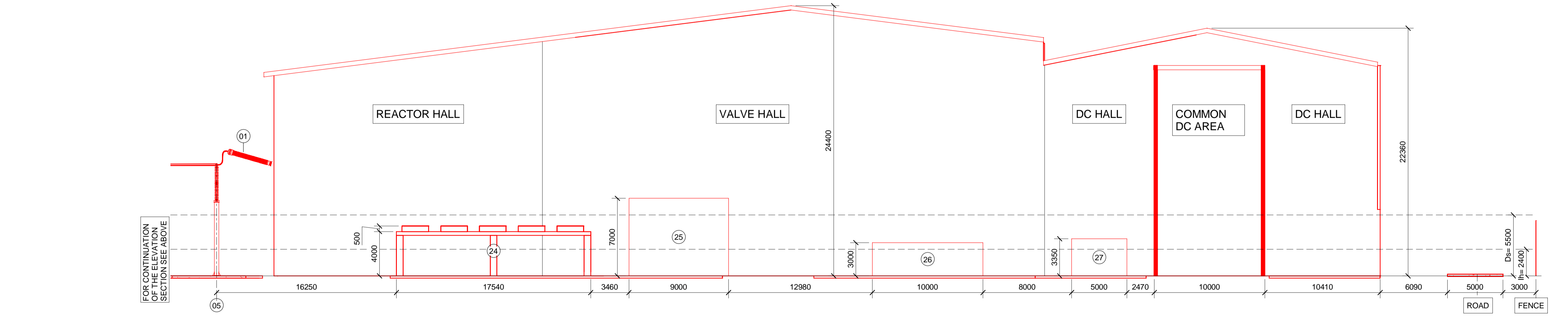
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— New Equipment

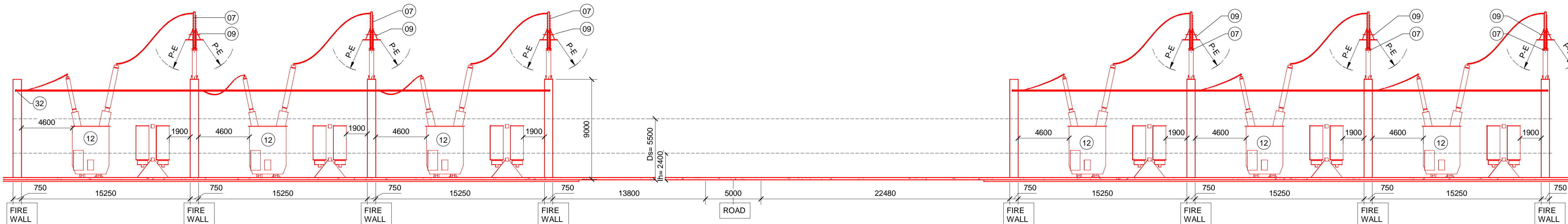
Equipment Schedule	
Item	Description
01	AIR BUSHING WALL PENETRATION
02	550KV AIS CVT
03	550KV AIS EARTH SWITCH
04	550KV AIS SURGE ARRESTOR
05	550KV POST INSULATOR
06	550KV CURRENT TRANSFORMER
07	400 kV AIS POST INSULATOR
08	400 kV AIS EARTH SWITCH
09	400 kV AIS SURGE ARRESTOR
10	400 kV AIS CURRENT TRANSFORMER
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
32	11kV POST INSULATOR



ELEVATION 1
1 : 200



ELEVATION 2
1 : 200



ELEVATION 3
1 : 200

Issue	Date	Remarks	Drawn	Checked	Approved
A	08/09/2023	FINAL	MS	JW	KJ

Title

THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 TYPICAL SAXMUNDHAM CONVERTER STATION -ELEVATION DRAWING
 SHEET 1 OF 2

nationalgrid

Application Number: EN020026
 National Grid Drawing Reference: S42_S/TDD/SS/0020
 Scale: 1 : 200
 Sheet Size: A1
 Sheet: SHEET 1 OF 2
 Issue: A

**THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC(SEA LINK)
DESIGN DRAWINGS FOR CONSULTATION
TYPICAL SAXMUNDHAM CONVERTER STATION -ELEVATION DRAWING
SHEET 2 OF 2**

SUBSTATION MINIMUM ELECTRICAL CLEARANCES

REF	CLEARANCE (mm)	NOMINAL SYSTEM VOLTAGE
		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
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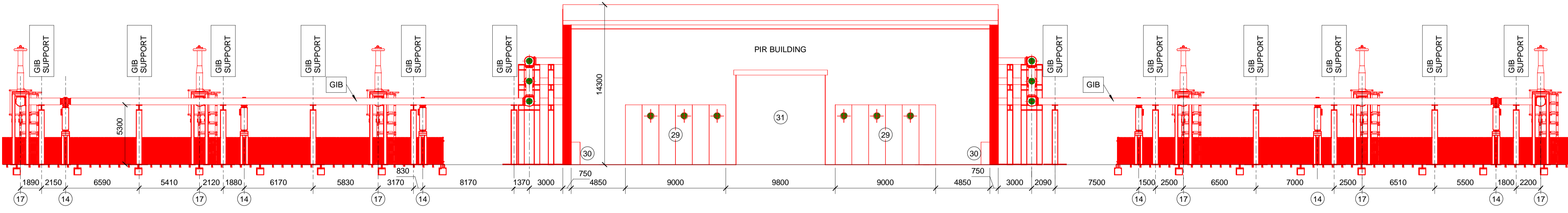
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Legend

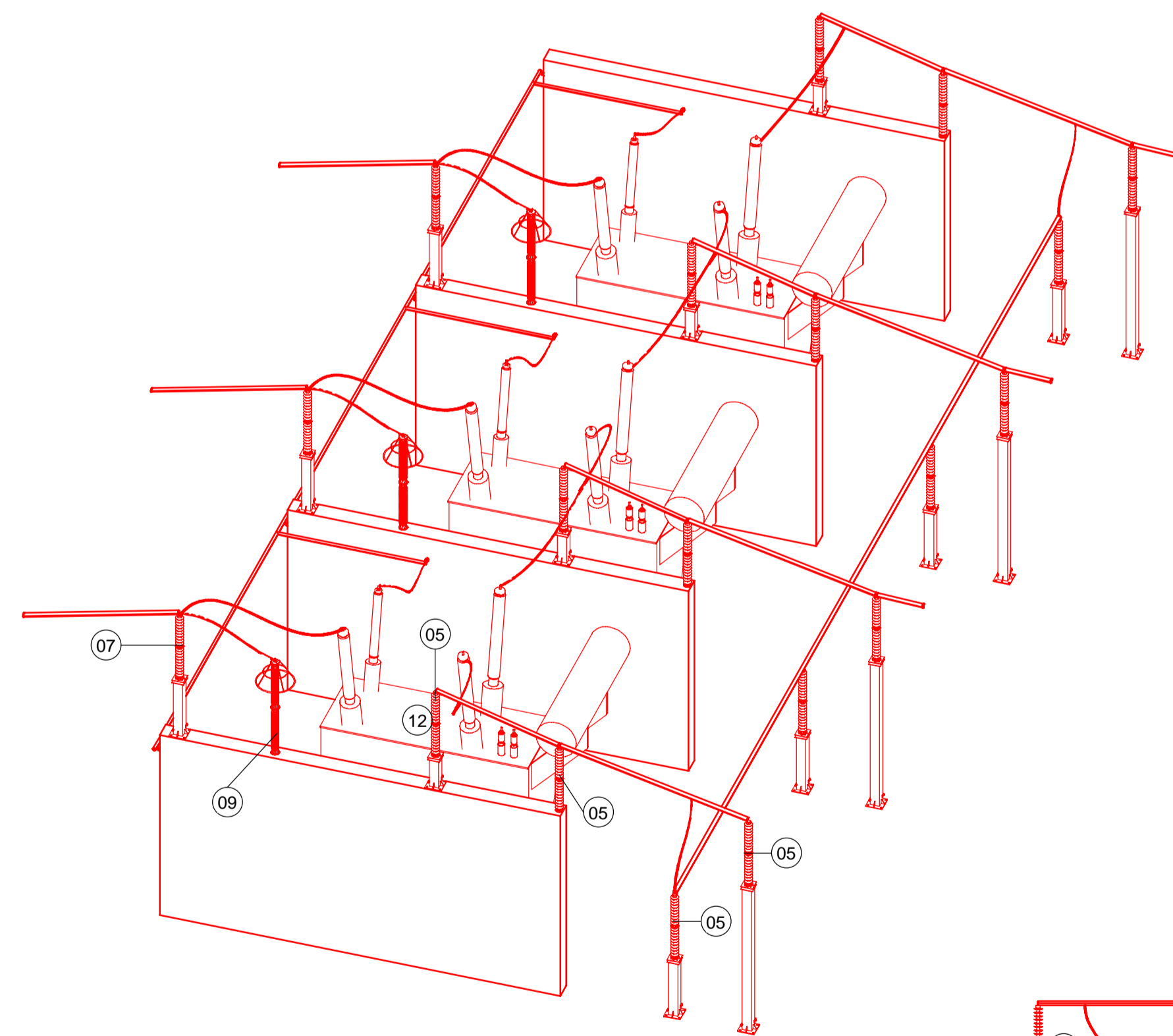
— New Equipment

Equipment Schedule

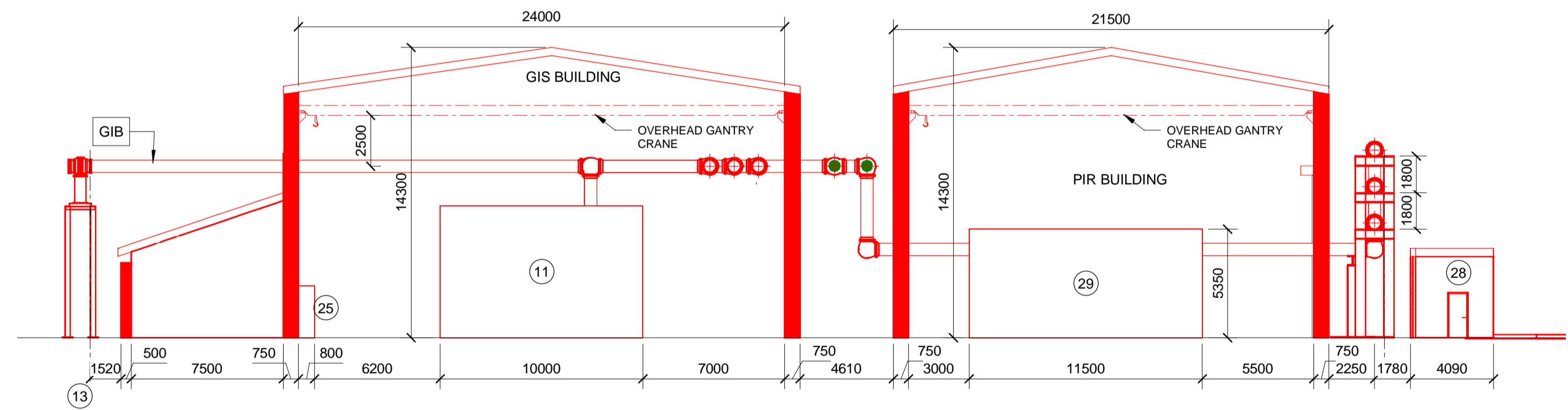
Item	Description
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02	550KV AIS CVT
03	550KV AIS EARTH SWITCH
04	550KV AIS SURGE ARRESTOR
05	550KV POST INSULATOR
06	550KV CURRENT TRANSFORMER
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09	400 kV AIS SURGE ARRESTOR
10	400 kV AIS CURRENT TRANSFORMER
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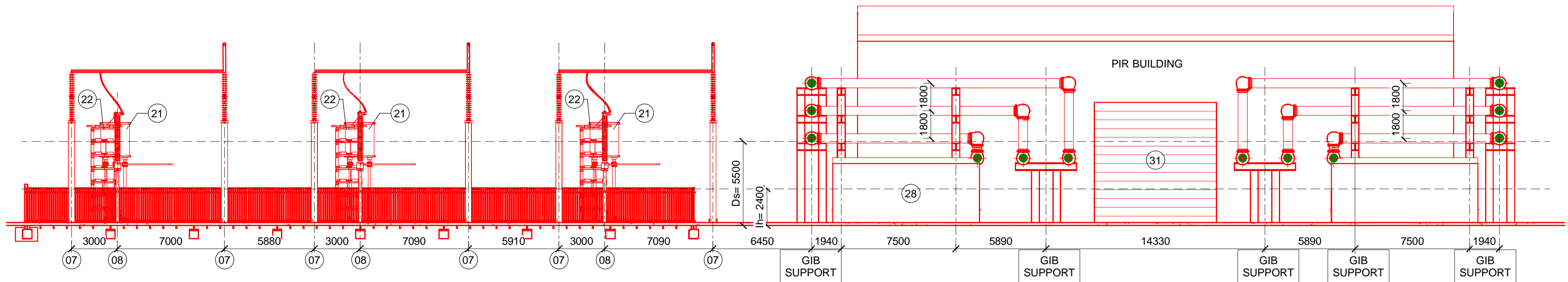
ELEVATION 4
1 : 200



Transformer Area ISO View



ELEVATION 5
1 : 200



ELEVATION 6
1 : 200

A	08/09/2023	FINAL	MS	JW	KJ
Issue	Date	Remarks	Drawn	Checked	Approved

Title

THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC(SEA LINK)
DESIGN DRAWINGS FOR CONSULTATION
TYPICAL SAXMUNDHAM CONVERTER STATION -ELEVATION DRAWING
SHEET 2 OF 2

01-03.

Suffolk Only - HVDC & HVAC Cross Sections for Sea Link plus ducts for up to two other projects

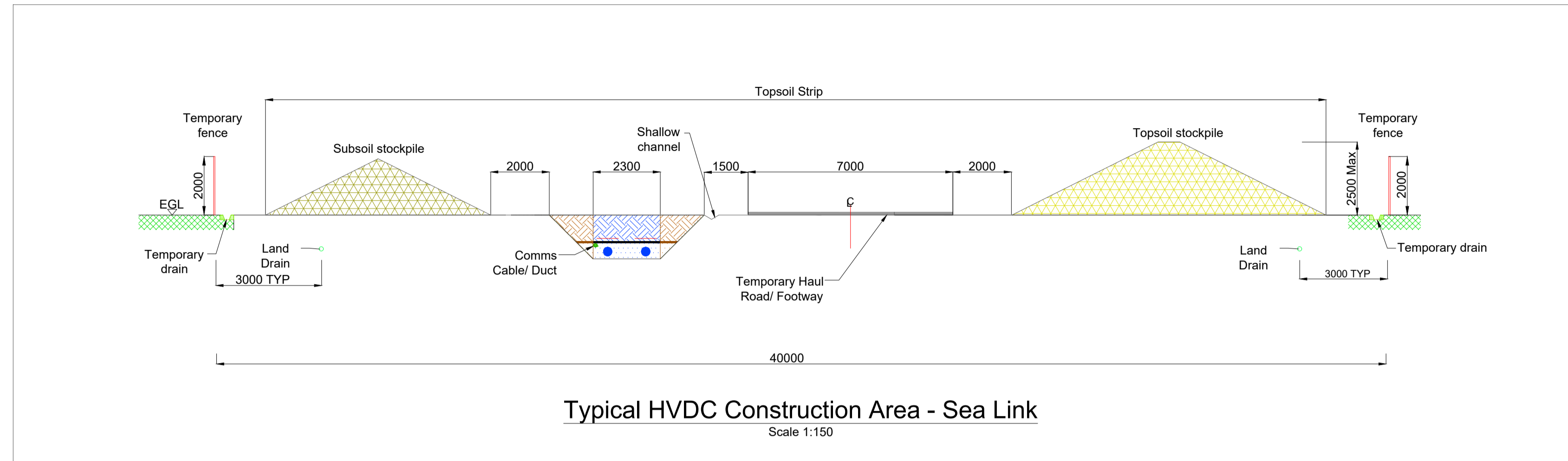
Drawing Category Name	Plan Title	Scheme	Drawing Numbers
Suffolk Only - HVDC & HVAC Cross Sections for Sea Link plus ducts for up to two other projects	Typical HVDC construction area for Sea Link plus ducts for up to two further projects	Suffolk Onshore Scheme	S42_S/TDD/SS/0018
	Typical HVAC construction area for Sea Link plus ducts for up to two further projects	Suffolk Onshore Scheme	S42_S/TDD/SS/0013
	Typical HVAC and HVDC combined construction area for Sea Link plus ducts for up to two further projects	Suffolk Onshore Scheme	S42_S/TDD/SS/0014

To assist with understanding these drawings please see the **Guide to Interacting with the Consultation Plans and Drawings**

THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 TYPICAL HVDC CONSTRUCTION AREA FOR SEA LINK PLUS DUCTS
 FOR UP TO TWO FURTHER PROJECTS
 SHEET 1 OF 1

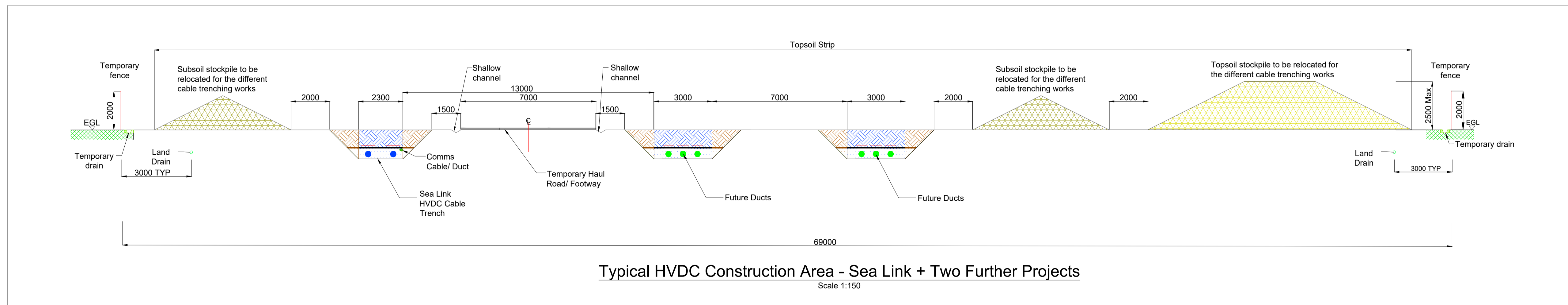
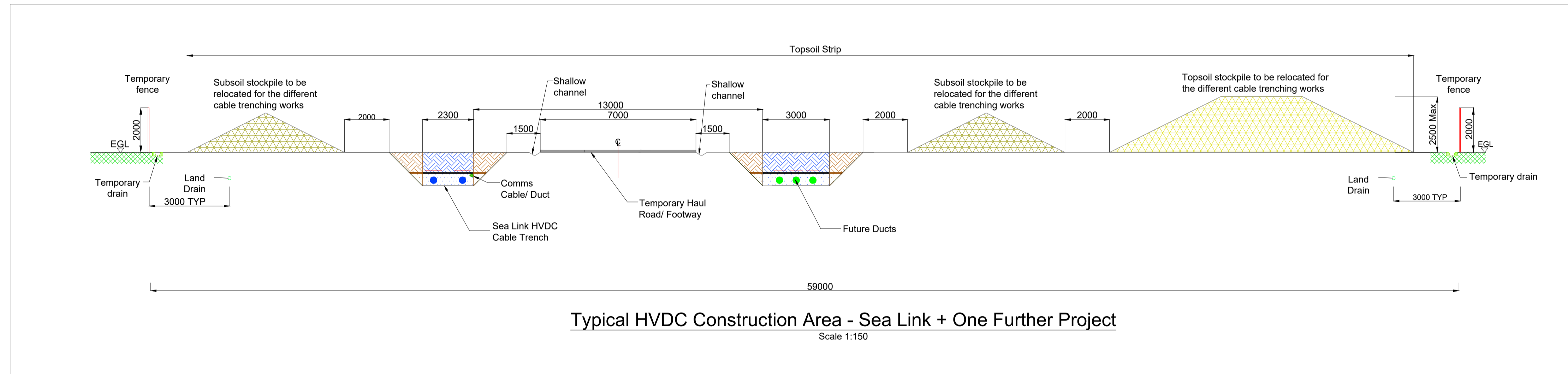
Notes
 For statutory consultation purposes only.
 These plans show the Draft Order Limits and Draft Cable Alignment and potential pylon locations. Due to the need for future flexibility, National Grid will be applying for Order Limits and Limits of Deviation within its Development Consent Order, within which any final alignment (including pylon locations) would lie. Therefore the Draft Cable Alignment and pylon locations should be treated as indicative only. Further information is provided in our 'Guide to interacting with our consultation plans' document.

For further information on construction please refer to the construction section of the Preliminary Environmental Impact Report, Volume 1, Part 1, Chapter 4.



Legend

- Well-compacted thermally suitable backfill
- Well-compacted thermally suitable backfill (Splayed Excavation)
- Cement-bound sand cable surround
- 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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Issue	Date	Remarks	Drawn	Checked	Approved
A	01/09/2023	FINAL	SC	JW	KJ

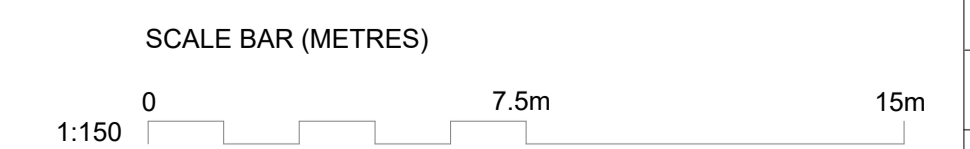
Title
 THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 TYPICAL HVDC CONSTRUCTION AREA FOR SEA LINK PLUS DUCTS FOR UP TO TWO FURTHER PROJECTS
 SHEET 1 OF 1

nationalgrid

Application Number EN020026

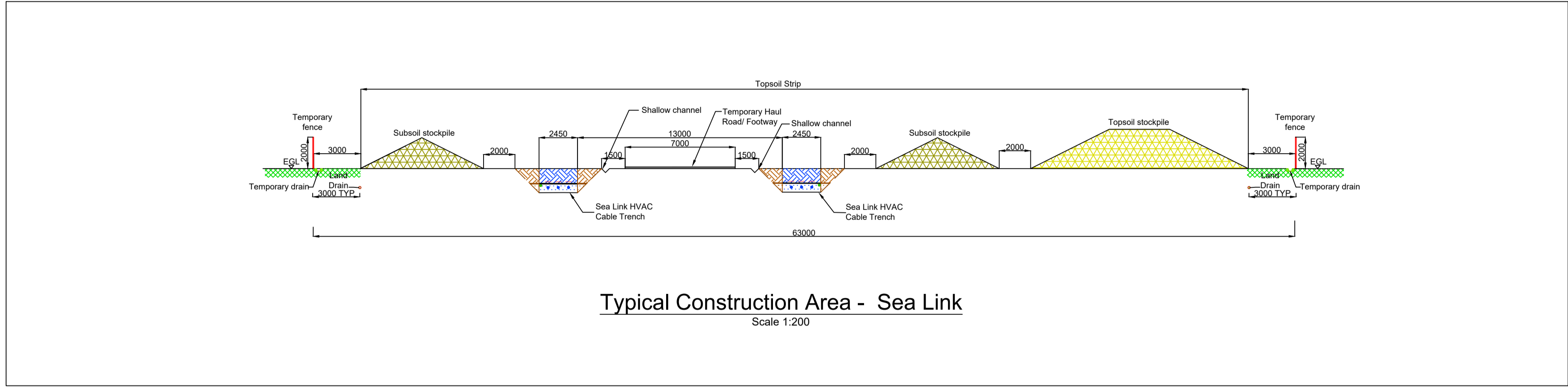
National Grid Drawing Reference S42_S/TDD/ISS/0018

Scale	Sheet Size	Sheet	Issue
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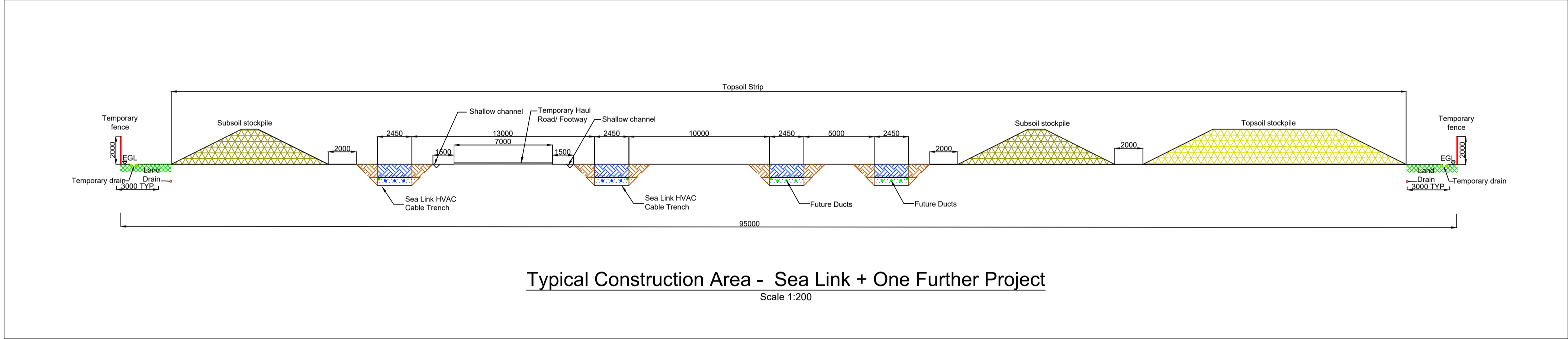


THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 TYPICAL HVAC CONSTRUCTION AREA FOR SEA LINK PLUS
 DUCTS FOR UP TO TWO FURTHER PROJECTS
 SHEET 1 OF 1

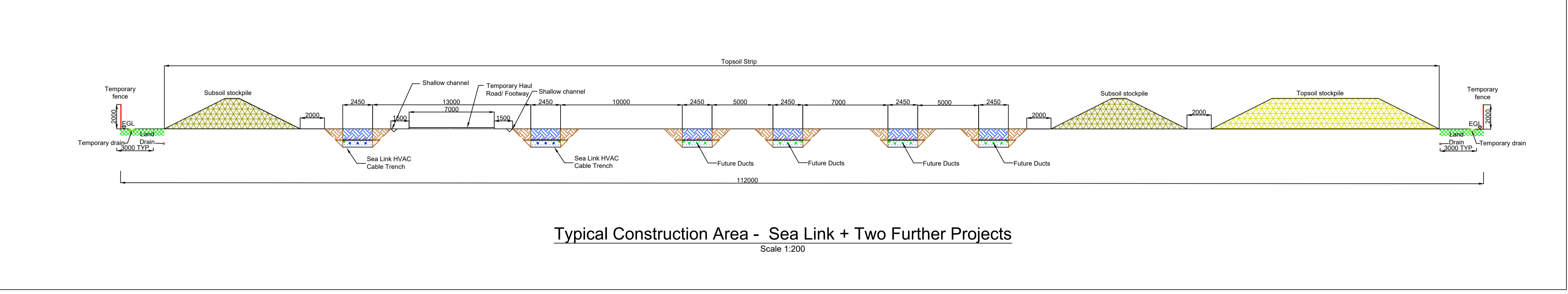
Notes
 For statutory consultation purposes only.
 These plans show the Draft Order Limits and Draft Cable Alignment and potential pylon locations. Due to the need for future flexibility, National Grid will be applying for Order Limits and Limits of Deviation within its Development Consent Order, within which any final alignment (including pylon locations) would lie. Therefore the Draft Cable Alignment and pylon locations should be treated as indicative only. Further information is provided in our 'Guide to interacting with our consultation plans' document.
 For further information on construction please refer to the construction section of the Preliminary Environmental Impact Report, Volume 1, Part 1, Chapter 4.



Typical Construction Area - Sea Link
 Scale 1:200



Typical Construction Area - Sea Link + One Further Project
 Scale 1:200



Typical Construction Area - Sea Link + Two Further Projects
 Scale 1:200

Legend

- Well-compacted thermally suitable backfill
- Well-compacted thermally suitable backfill (Splayed Excavation)
- Cement-bound sand cable surround
- 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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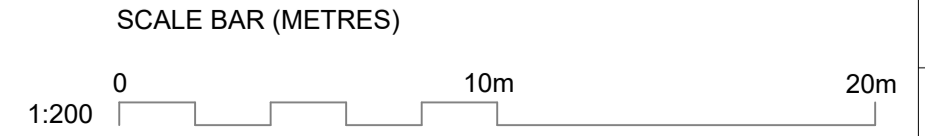
Issue	Date	Remarks	Drawn	Checked	Approved
A	01/09/2023	FINAL	SC	JW	KJ

Title
 THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 TYPICAL HVAC CONSTRUCTION AREA FOR SEA LINK PLUS DUCTS FOR UP TO TWO FURTHER PROJECTS
 SHEET 1 OF 1

nationalgrid

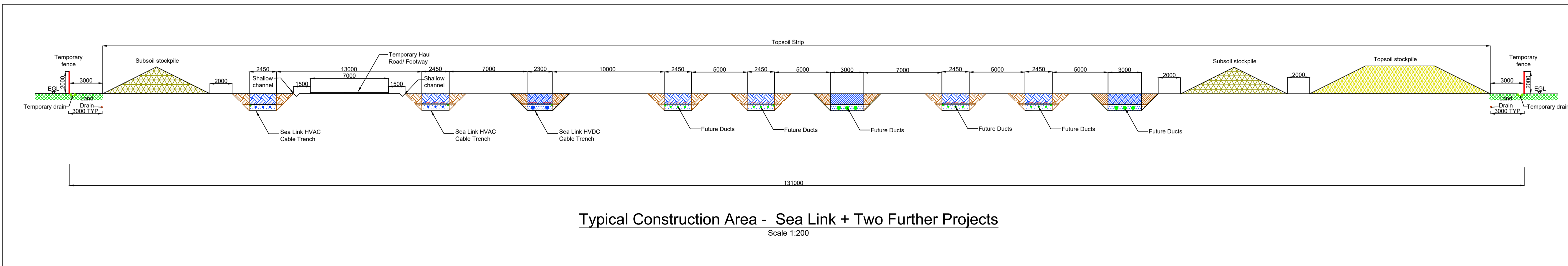
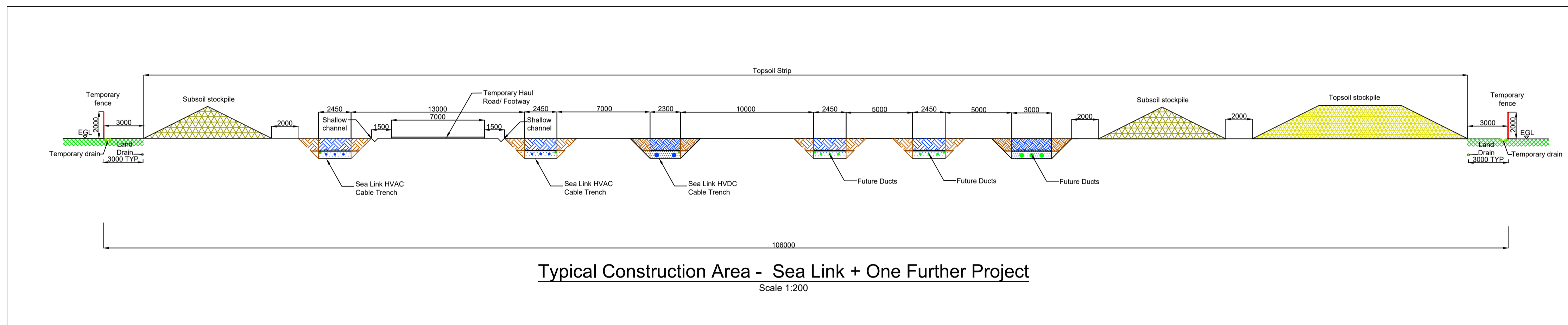
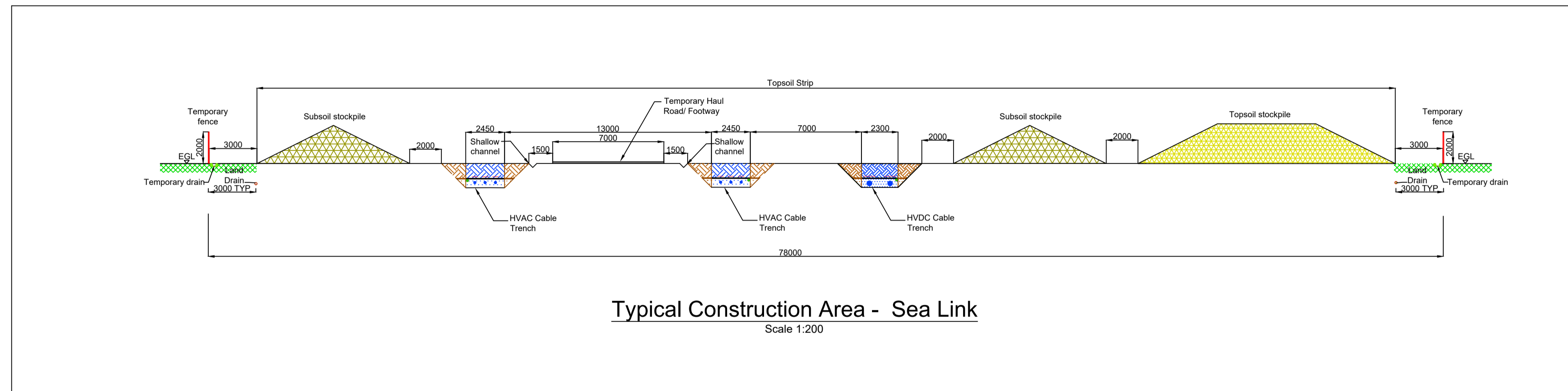
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 National Grid Drawing Reference: S42_S/ITDO/SS/0013

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AS SHOWN	A1	SHEET 1 OF 1	A



THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 TYPICAL HVAC AND HVDC COMBINED CONSTRUCTION AREA
 FOR SEA LINK PLUS DUCTS FOR UP TO TWO FURTHER PROJECTS
 SHEET 1 OF 1

Notes
 For statutory consultation purposes only.
 These plans show the Draft Order Limits and Draft Cable Alignment and potential pylon locations. 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 (including pylon locations) would lie. Therefore the Draft Cable Alignment and pylon locations should be treated as indicative only. Further information is provided in our 'Guide to interacting with our consultation plans' document.
 For further information on construction please refer to the construction section of the Preliminary Environmental Impact Report, Volume 1, Part 1, Chapter 4.



Legend

- Well-compacted thermally suitable backfill
- Well-compacted thermally suitable backfill (Splayed Excavation)
- Cement-bound sand cable surround
- 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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Issue	Date	Remarks	Drawn	Checked	Approved
A	01/09/2023	FINAL	SC	JW	KJ

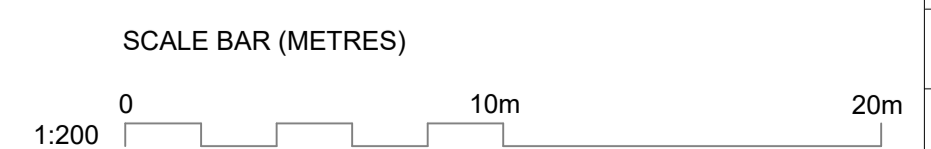
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 THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 TYPICAL HVAC AND HVDC COMBINED CONSTRUCTION AREA
 FOR SEA LINK PLUS DUCTS FOR UP TO TWO FURTHER PROJECTS
 SHEET 1 OF 1



Application Number EN020026

National Grid Drawing Reference S42_S/TDO/SS/0014

Scale	Sheet Size	Sheet	Issue
AS SHOWN	A1	SHEET 1 OF 1	A



01-04. HVDC & HVAC Arrangement & Cross Sections

Drawing Category Name	Plan Title	Scheme	Drawing Numbers
HVDC & HVAC Arrangement & Cross Sections	Typical HVAC direct buried cross section and construction area	Suffolk Onshore Scheme	S42_S/TDD/SS/0010
	Typical 400kv HVAC joint bay arrangement	Suffolk Onshore Scheme	S42_S/TDD/SS/0011
	Typical HVAC direct buried cross section and construction area	Onshore Schemes	S42_T/TDD/SS/3001
	Typical HVAC joint bay arrangements	Onshore Schemes	S42_T/TDD/SS/3003
	Typical HVAC and HVDC combined construction area	Suffolk Onshore Scheme	S42_S/TDD/SS/0012

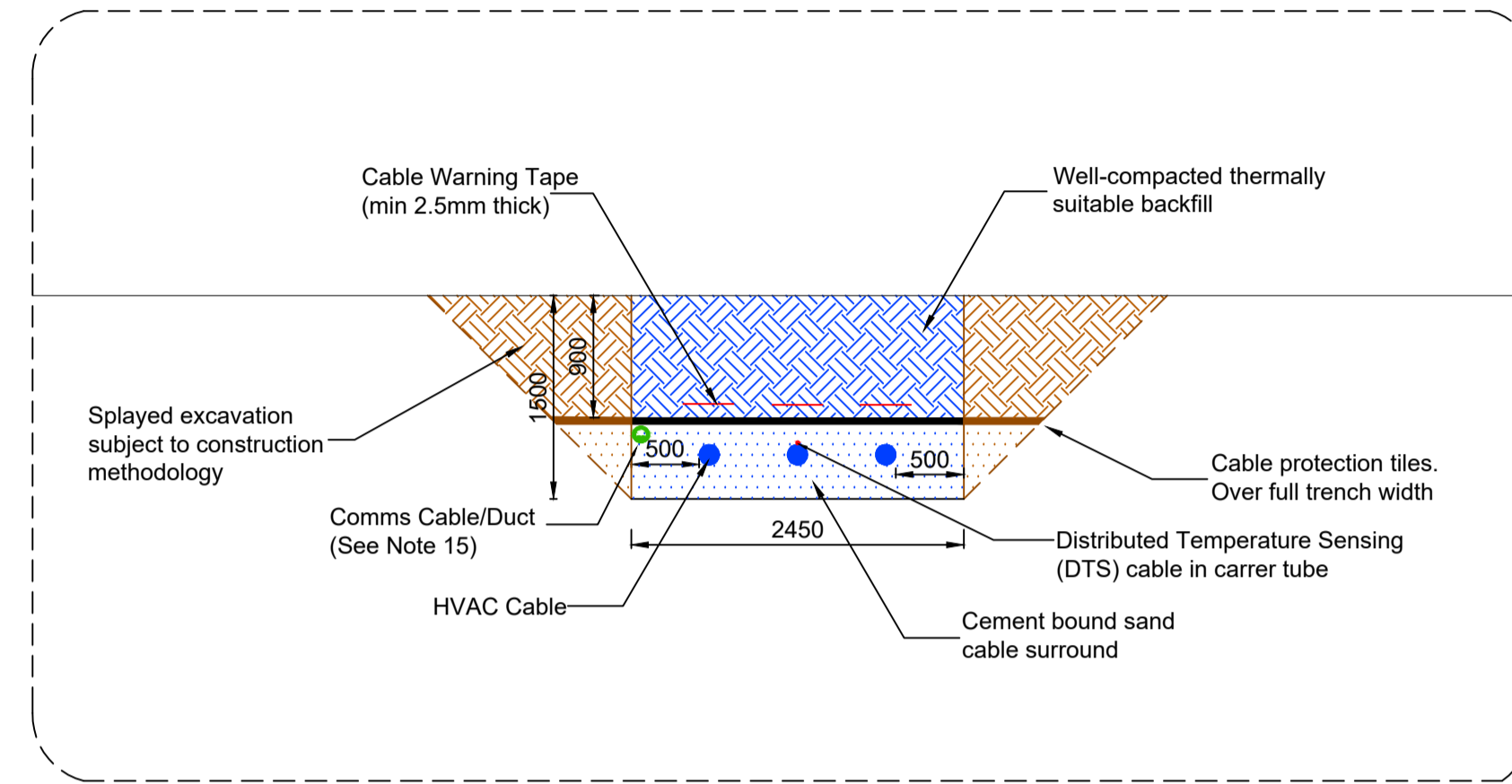
To assist with understanding these drawings please see the **Guide to Interacting with the Consultation Plans and Drawings**

THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 TYPICAL HVAC DIRECT BURIED CROSS SECTION AND CONSTRUCTION AREA
 SHEET 1 OF 1

Notes

For statutory consultation purposes only. These plans show the Draft Order Limits and Draft Cable Alignment and potential pylon locations. 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 (including pylon locations) would lie. Therefore the Draft Cable Alignment and pylon locations should be treated as indicative only. Further information is provided in our 'Guide to interacting with our consultation plans' document.

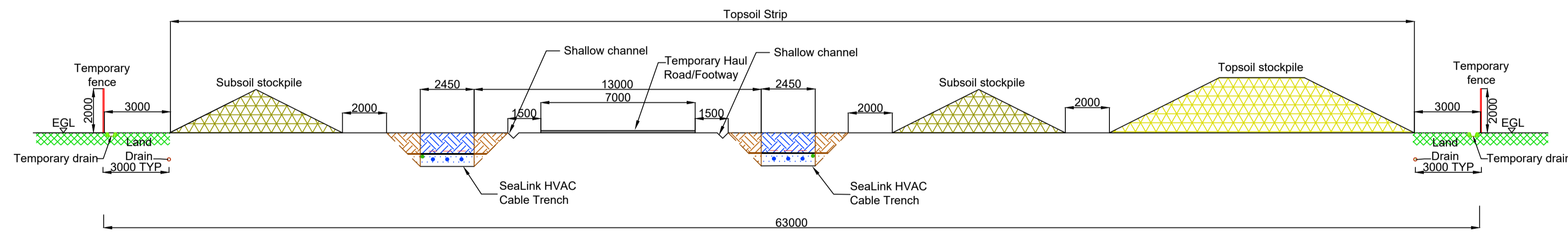
For further information on construction please refer to the construction section of the Preliminary Environmental Impact Report, Volume 1, Part 1, Chapter 4.



Direct Buried Cable Cross Section
 Scale 1:50

Legend

- Well-compacted thermally suitable backfill
- Well-compacted thermally suitable backfill (Splayed Excavation)
- Cement-bound sand cable surround
- Cement-bound sand cable surround (Splayed Excavation)
- Cable protection tiles
- Cable warning tape
- Topsoil stockpile
- Subsoil stockpile
- Existing Ground
- Temporary Haul Road/ Footway



Typical Construction Area - Two Trenches
 Scale 1:150

Sheet X Centroid Coordinate: Sheet Y Centroid Coordinate:

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Issue	Date	Remarks	Drawn	Checked	Approved
A	01/09/2023	FINAL	SC	JW	KJ

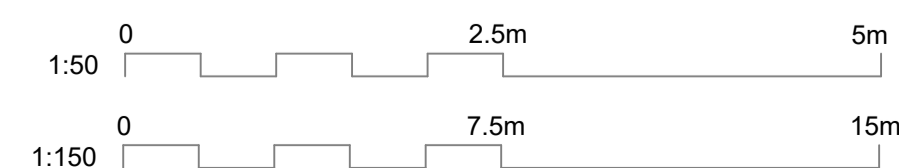
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 THE NATIONAL GRID ELECTRICITY TRANSMISSION
 PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 TYPICAL HVAC DIRECT BURIED CROSS SECTION
 AND CONSTRUCTION AREA
 SHEET 1 OF 1



Application Number EN020026

National Grid Drawing Reference S42_S/TDD/SS/0010

Scale	Sheet Size	Sheet	Issue
AS SHOWN	A1	SHEET 1 OF 1	A
















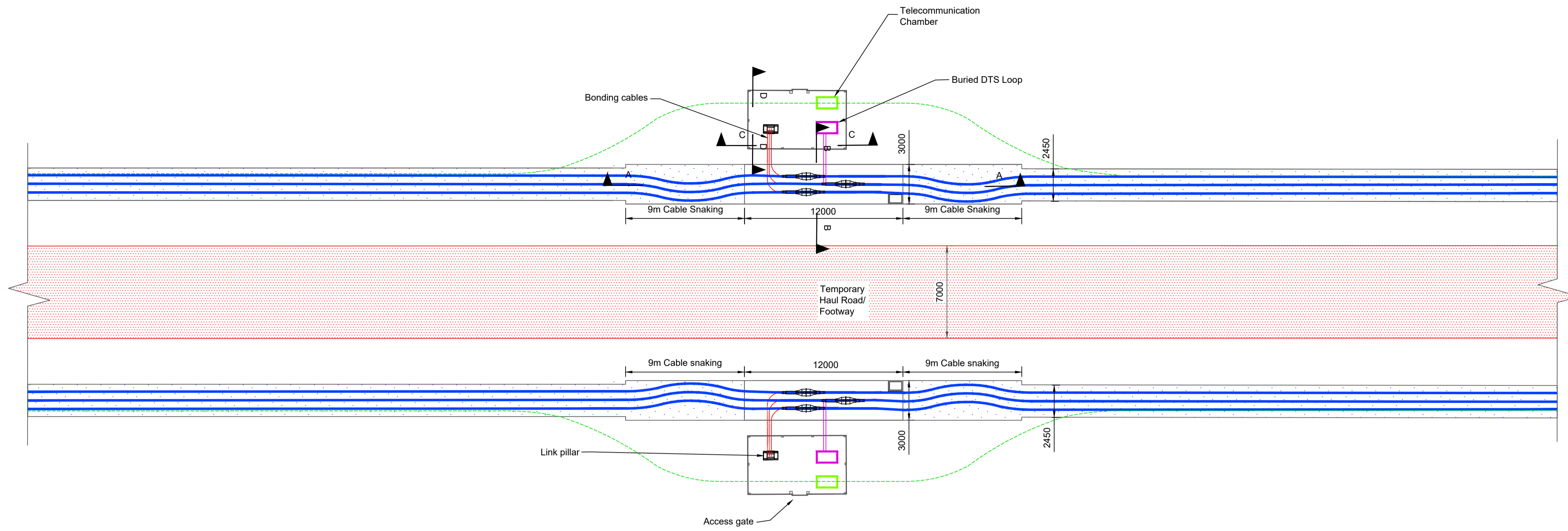
THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 TYPICAL 400kV HVAC JOINT BAY ARRANGEMENT
 SHEET 1 OF 1

Notes
 For statutory consultation purposes only.
 These plans show the Draft Order Limits and Draft Cable Alignment and potential pylon locations. 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 (including pylon locations) would lie.
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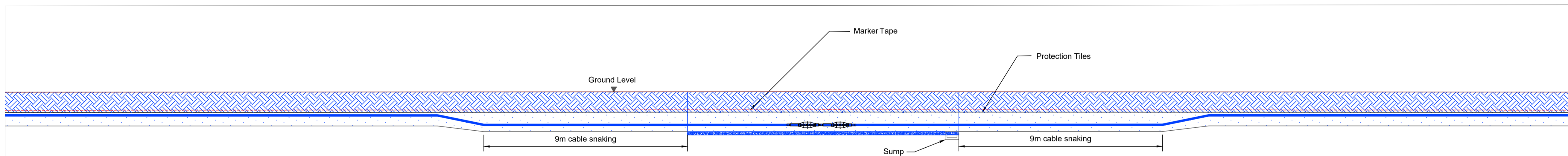
For further information on construction please refer to the construction section of the Preliminary Environmental Impact Report, Volume 1, Part 1, Chapter 4.

Legend

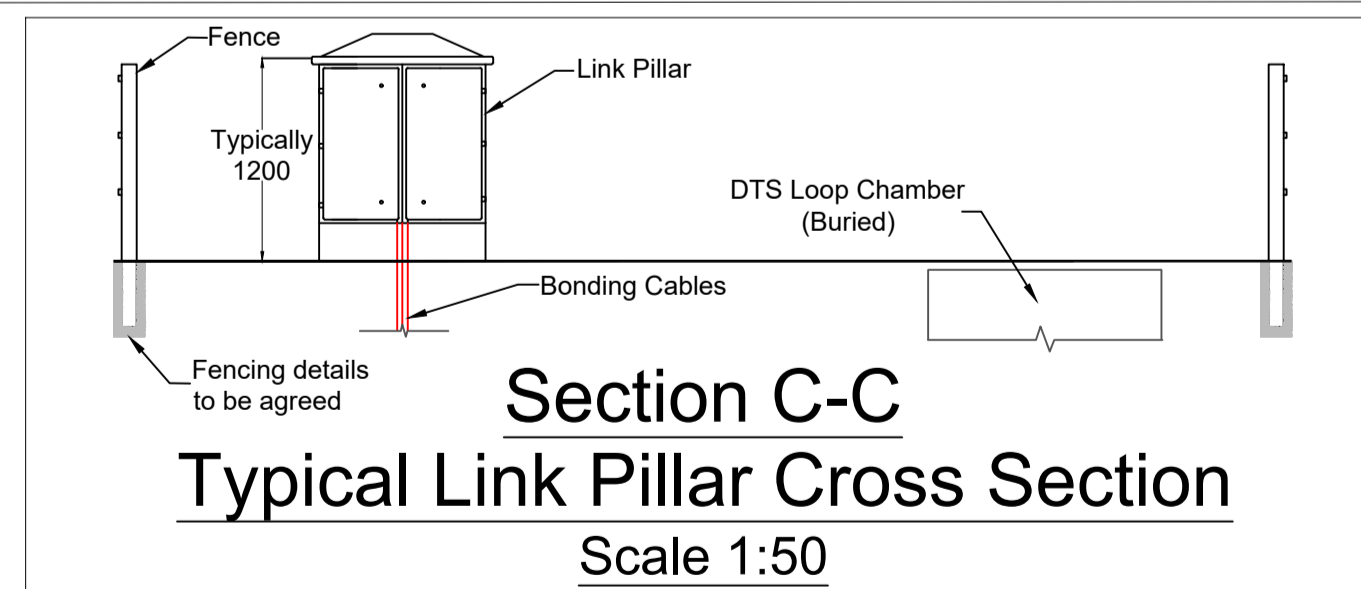
-  Cable protection cover
-  400 kV Power Cable
-  Bonding Cable
-  Cement-bound Sand (CBS)
-  Well-compacted thermally suitable indigenous soil
-  Concrete
-  Temporary Haul Road/ Footway
-  Cable Warning Tape
-  Telecommunication Chamber
-  Distributed Temperature Sensing (DTS) Loop
-  Timber Fence
-  DTS Cables
-  Communication Cable Duct



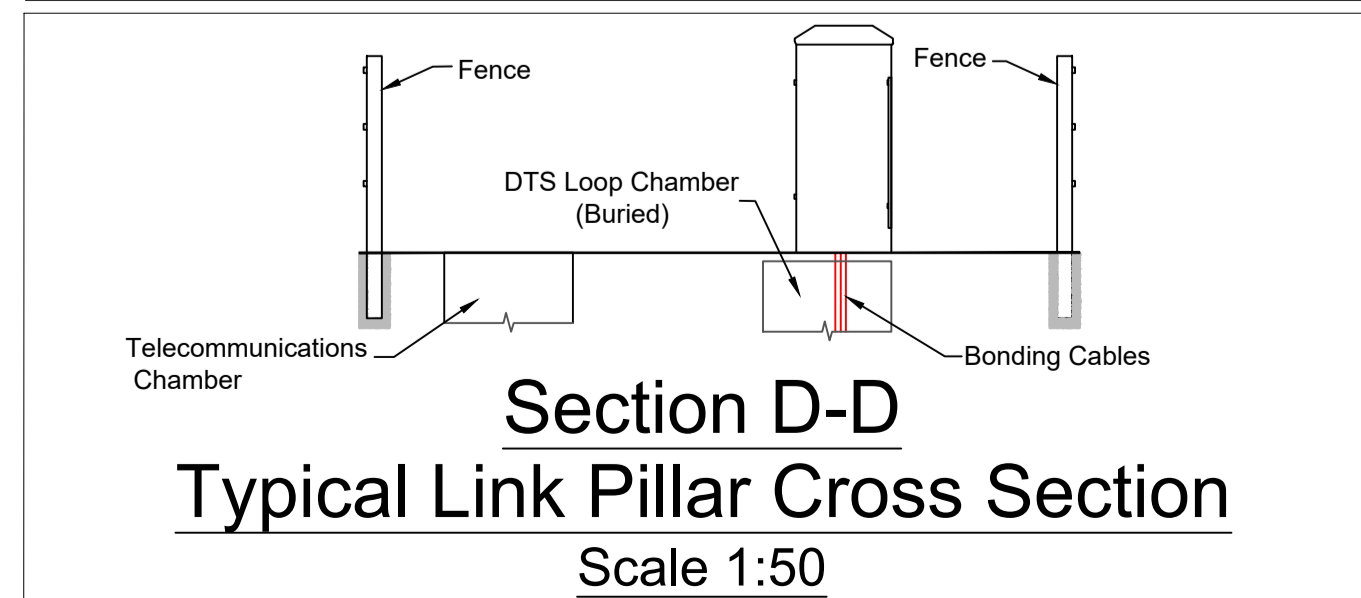
Typical HVAC Cable Joint Bay Layout
 Scale 1:200



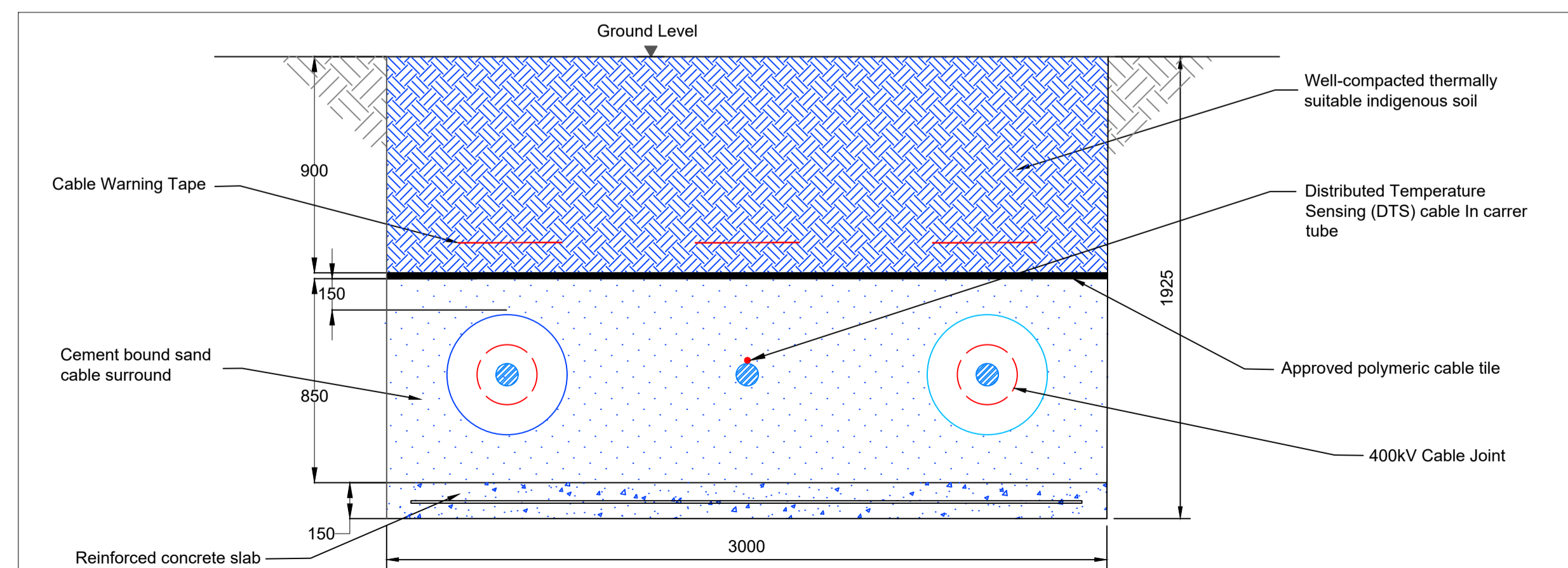
Section A-A
Typical HVAC Cable Joint Bay Long Section
 Scale 1:100



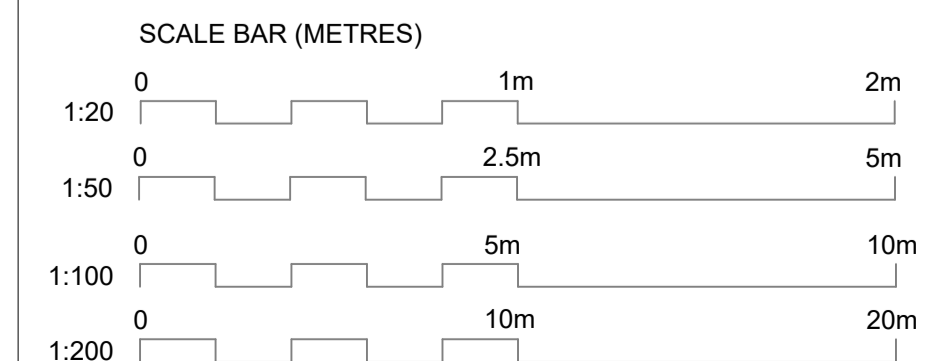
Section C-C
Typical Link Pillar Cross Section
 Scale 1:50



Section D-D
Typical Link Pillar Cross Section
 Scale 1:50



Section B-B
Typical HVAC Cable Joint Bay Cross Section
 Scale 1:20



Sheet X Centroid Coordinate: Sheet Y Centroid Coordinate:

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A	01/09/2023	FINAL	SC	JW	KJ

Title
 THE NATIONAL GRID ELECTRICITY TRANSMISSION
 PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 TYPICAL 400kV HVAC JOINT BAY ARRANGEMENT
 SHEET 1 OF 1

nationalgrid

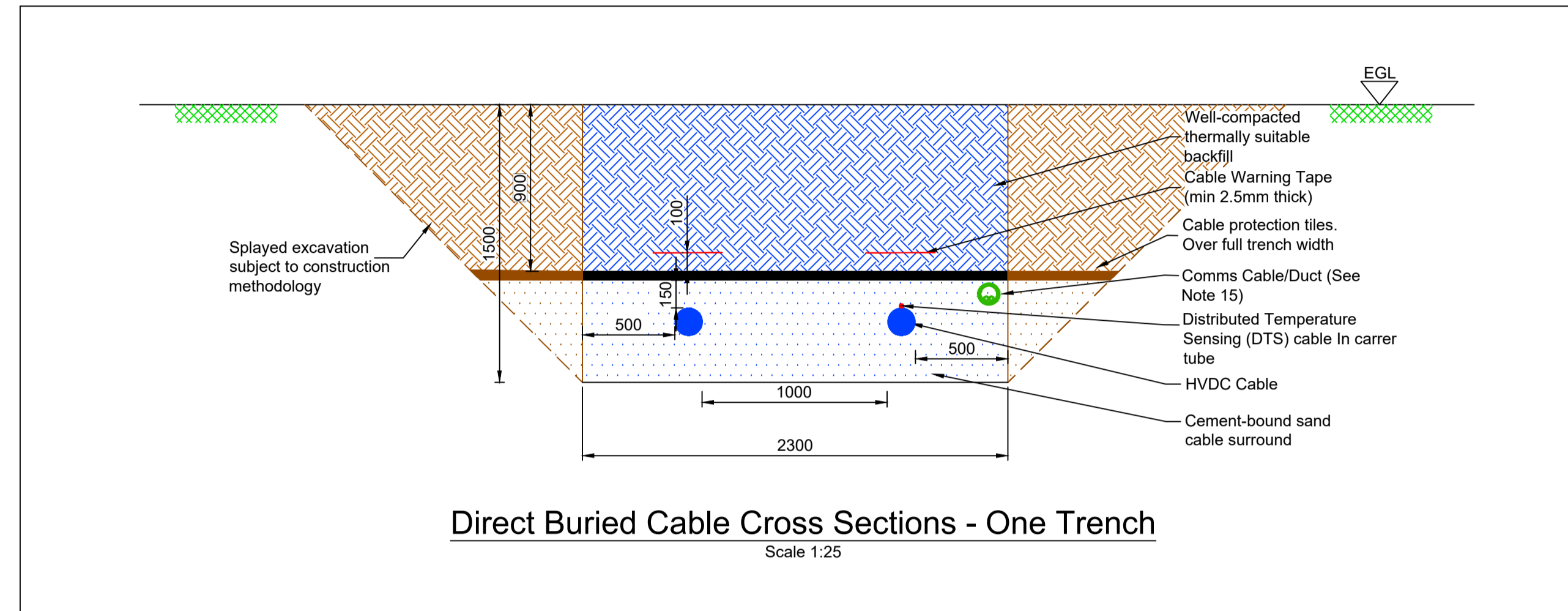
Application Number: EN020026
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 Scale: AS SHOWN Sheet Size: A1 Sheet: SHEET 1 OF 1 Issue: A

THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 TYPICAL HVDC DIRECT BURIED CABLE
 CROSS SECTION AND CONSTRUCTION AREA
 SHEET 1 OF 1

Notes

For statutory consultation purposes only.
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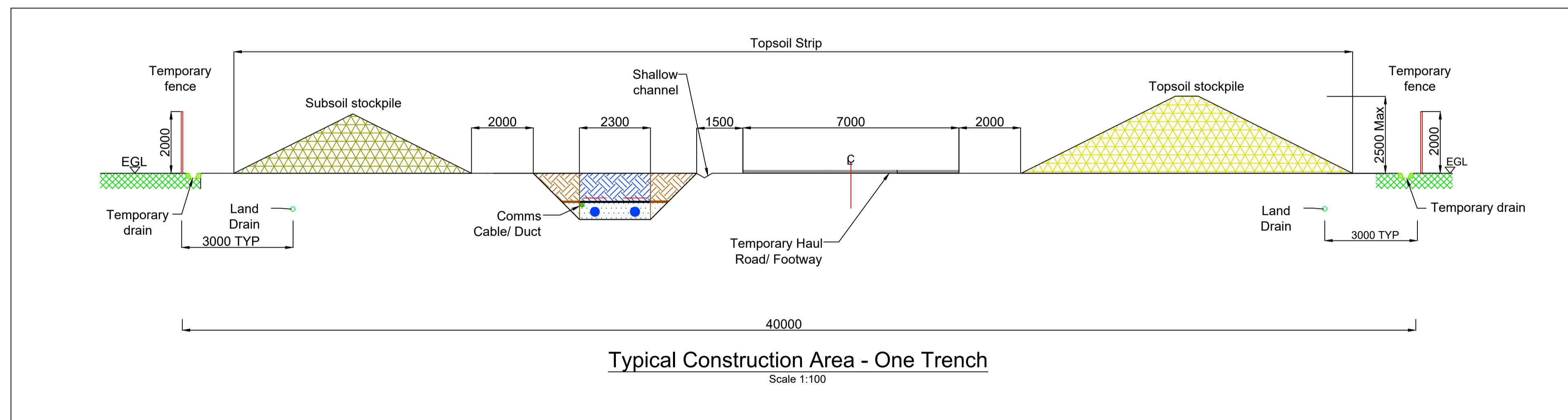


Direct Buried Cable Cross Sections - One Trench

Scale 1:25

Legend

- Well-compacted thermally suitable backfill
- Well-compacted thermally suitable backfill (Splayed Excavation)
- Cement-bound sand cable surround
- Cement-bound sand cable surround (Splayed Excavation)
- Cable protection tiles
- Cable warning tape
- Topsoil stockpile
- Subsoil stockpile
- Existing Ground
- Temporary Haul Road/ Footway



Typical Construction Area - One Trench

Scale 1:100

Sheet X Centroid Coordinate: Sheet Y Centroid Coordinate:

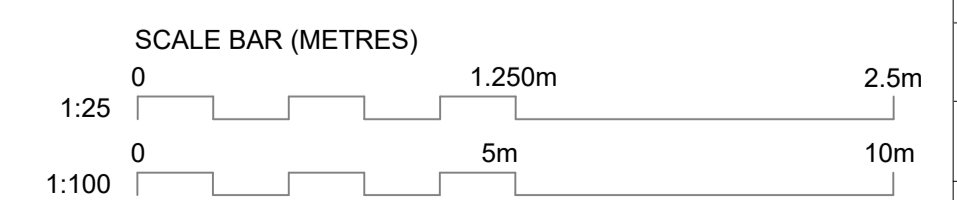
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Issue	Date	Remarks	Drawn	Checked	Approved
A	01/09/2023	FINAL	SC	JW	KJ

Title
 THE NATIONAL GRID ELECTRICITY TRANSMISSION
 PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 TYPICAL HVDC DIRECT BURIED CABLE
 CROSS SECTION AND CONSTRUCTION AREA
 SHEET 1 OF 1

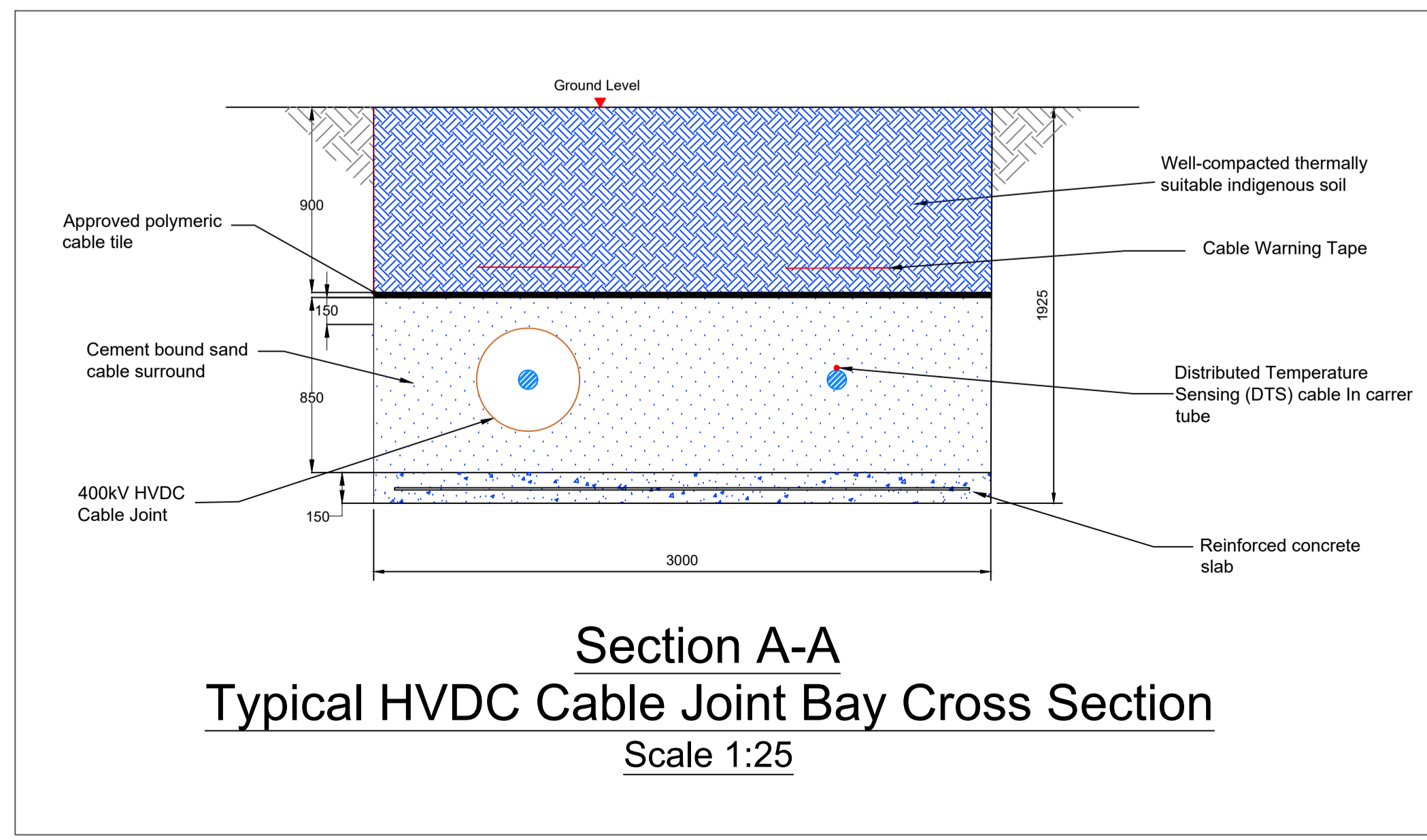
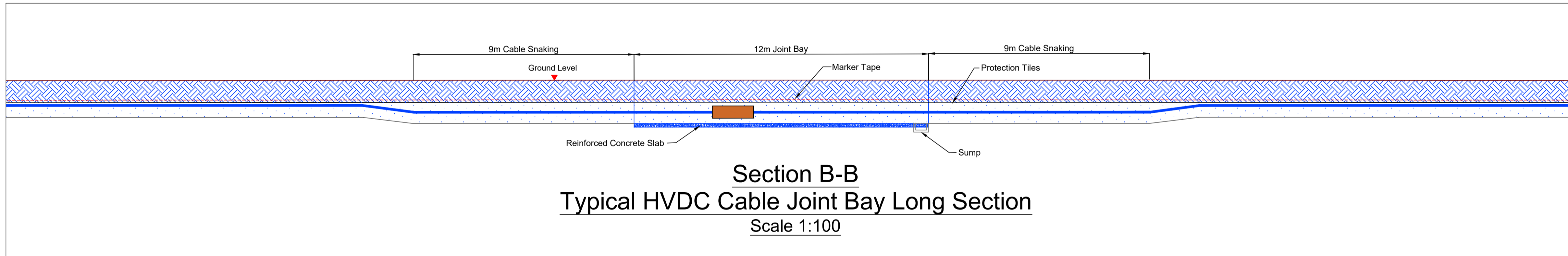
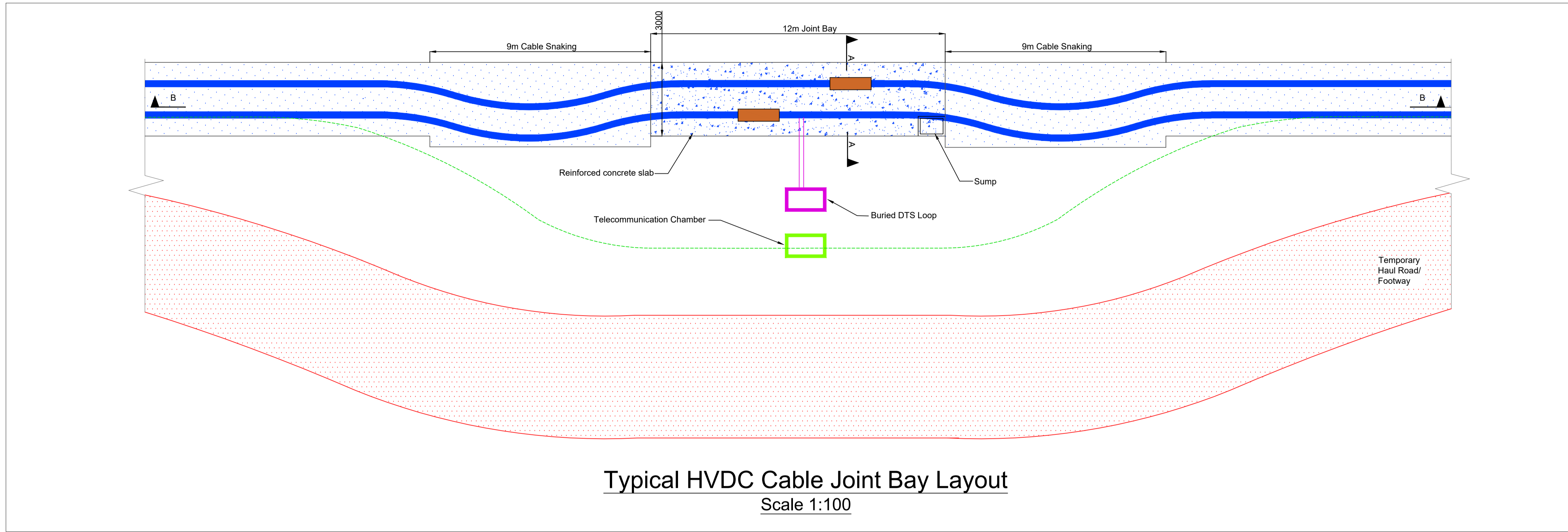
nationalgrid

Application Number	EN020026			
National Grid Drawing Reference	S42_T/IDD/SS/3001			
Scale	Sheet Size	Sheet	Issue	
AS SHOWN	A1	SHEET 1 OF 1	A	



THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 TYPICAL HVDC JOINT BAY ARRANGEMENT
 SHEET 1 OF 1

Notes
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 For further information on construction please refer to the construction section of the Preliminary Environmental Impact Report, Volume 1, Part 1, Chapter 4.



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:

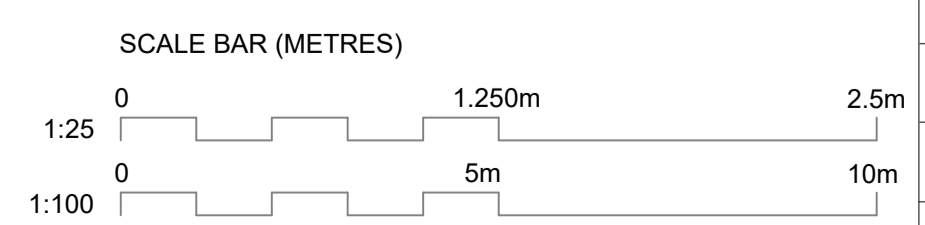
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Issue	Date	Remarks	Drawn	Checked	Approved
A	01/09/2023	FINAL	SC	JW	KJ

Title
 THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 TYPICAL HVDC JOINT BAY ARRANGEMENT
 SHEET 1 OF 1

nationalgrid

Application Number	EN020026
National Grid Drawing Reference	S42_TY/DD/SS/3003
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Sheet Size	A1
Sheet	SHEET 1 OF 1
Issue	A





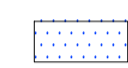
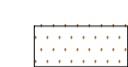






THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 TYPICAL HVAC AND HVDC COMBINED CONSTRUCTION AREA
 SHEET 1 OF 1

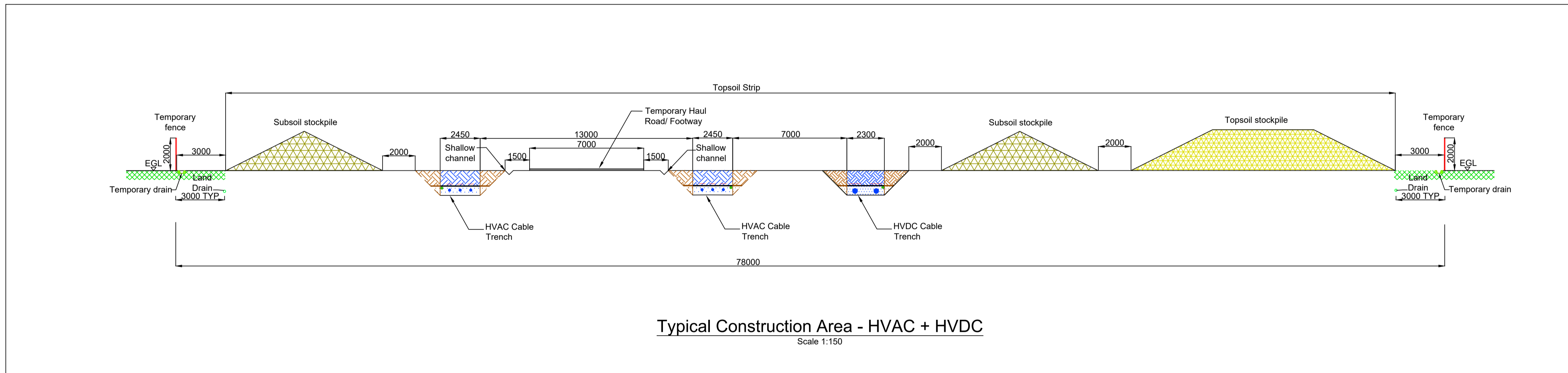
Notes

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For further information on construction please refer to the construction section of the Preliminary Environmental Impact Report, Volume 1, Part 1, Chapter 4.

Legend

-  Well-compacted thermally suitable backfill
-  Well-compacted thermally suitable backfill (Splayed Excavation)
-  Cement-bound sand cable surround
-  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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Issue	Date	Remarks	Drawn	Checked	Approved
A	01/09/2023	FINAL	SC	JW	KJ

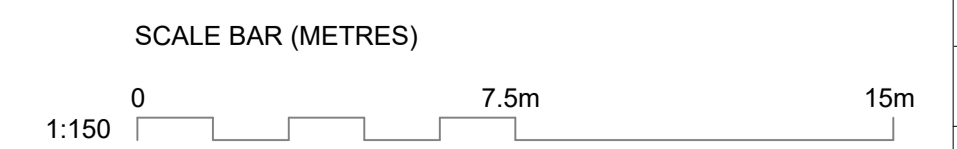
Title
 THE NATIONAL GRID ELECTRICITY TRANSMISSION
 PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 TYPICAL HVAC AND HVDC COMBINED
 CONSTRUCTION AREA
 SHEET 1 OF 1



Application Number
 EN020026

National Grid Drawing Reference
 S42_S/TTDD/SS/0012

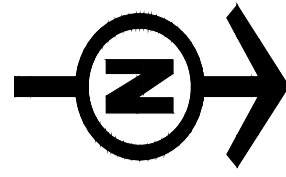
Scale	Sheet Size	Sheet	Issue
AS SHOWN	A1	SHEET 1 OF 1	A



01-05. Minster Converter Station

Drawing Category Name	Plan Title	Scheme	Drawing Numbers
Minster Converter Station	Typical Minster converter station - layout plan (GIS)	Kent Onshore Scheme	S42_K/TDD/SS/2002
	Typical minster converter station - elevation drawing	Kent Onshore Scheme	S42_K/TDD/PS/2005_SH1 S42_K/TDD/PS/2005_SH2

To assist with understanding these drawings please see the **Guide to Interacting with the Consultation Plans and Drawings**



THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 TYPICAL MINSTER CONVERTER STATION - LAYOUT PLAN (GIS)
 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 lh
KV	M	M	M	M	M	M
400	2.8	3.6	3.1	5.5	(SEE POINT II FROM NOTE 10) 4.6	2.4

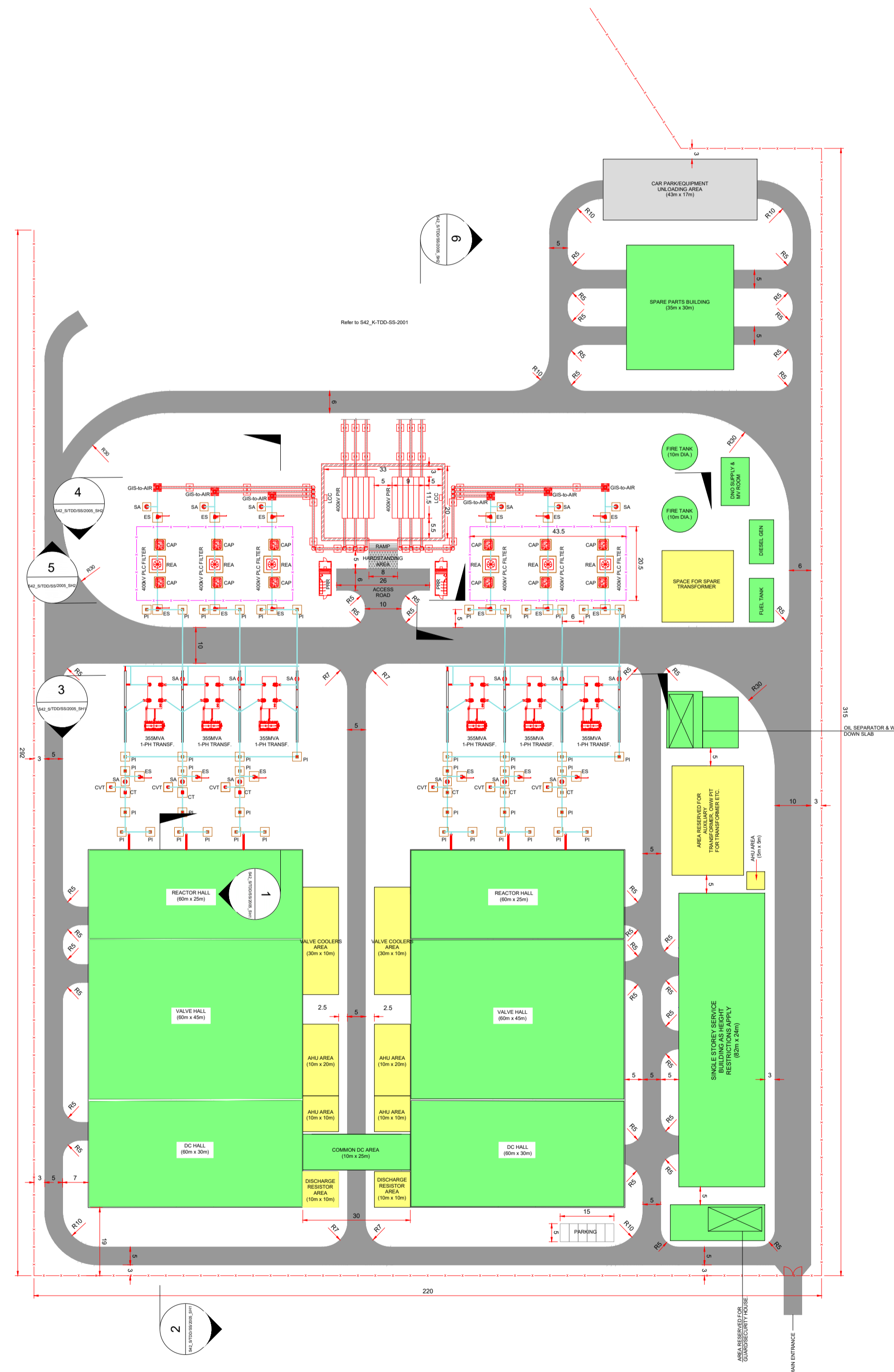
Notes

For statutory consultation purposes only.

- These plans show the Draft Order Limits and Draft Cable Alignment and potential pylon locations. 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 (including pylon locations) would lie. Therefore the Draft Cable Alignment and pylon locations should be treated as indicative only. Further information is provided in our 'Guide to interacting with our consultation plans' document.
- For further information on construction please refer to the construction section of the Preliminary Environmental Impact Report, Volume 1, Part 1, Chapter 4.
- Abbreviations
 PIR - Pre-Insertion Resistor
 CAP - Capacitor
 RES - Resistor
 REA - Reactor
 PI - Post Insulator
 CT - Current Transformer
 CVT - Capacitive Voltage Transformer
 ES - Earth Switch
 SA - Surge Arrester
 PRR - Portable Relay Room
 LCC - Local Control Cubicle
- Elevation sections relate to S42_S/TDD/SS/2005_SH1 & S42_S/TDD/SS/2005_SH2.

Legend

- PERIMETER FENCE
- INTERNAL FENCE
- BUILDINGS
- EXTERNAL EQUIPMENT AREAS
- CAR PARK



Issue	Date	Remarks	Drawn	Checked	Approved
A	01/09/2023	FINAL	SC	JW	KJ

Title

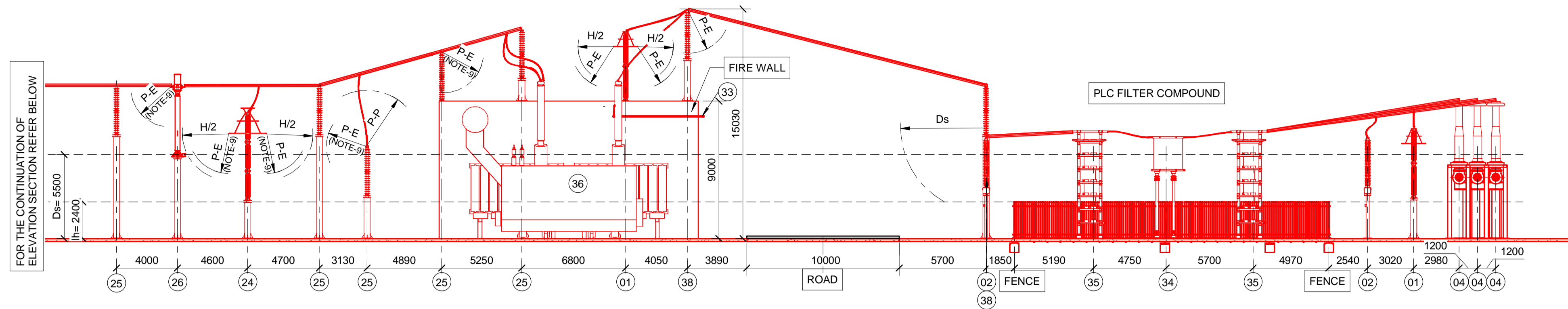
THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 TYPICAL MINSTER CONVERTER STATION - LAYOUT PLAN (GIS)
 SHEET 1 of 1

nationalgrid

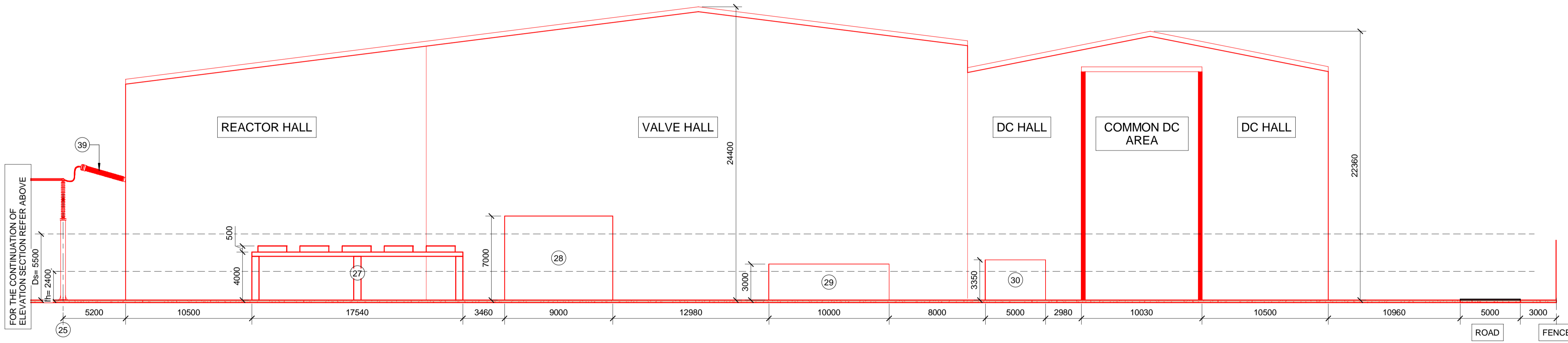
Application Number: EN020026
 National Grid Drawing Reference: S42_K/TDD/SS/2002

Scale	Sheet Size	Sheet	Issue
NTS	A1	SHEET 1 OF 1	A

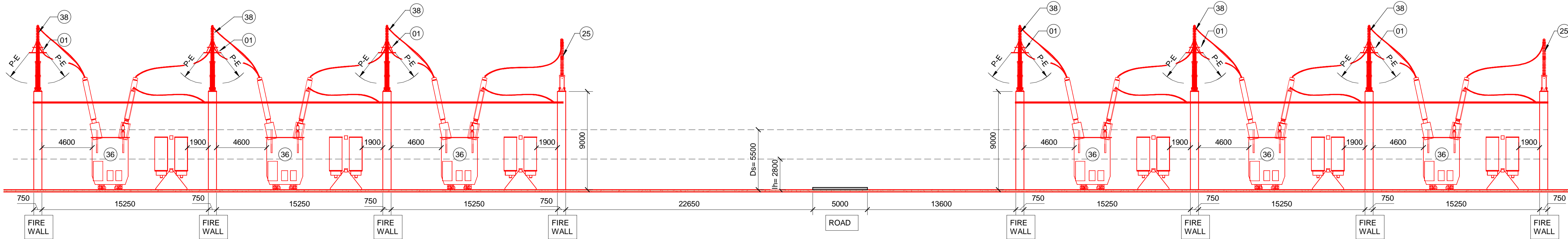
THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 TYPICAL MINSTER CONVERTER STATION - ELEVATION DRAWING
 SHEET 1 OF 2



ELEVATION 1
 1 : 200



ELEVATION 2
 1 : 200



ELEVATION 3
 1 : 200

SUBSTATION MINIMUM ELECTRICAL CLEARANCES

REF	CLEARANCE (mm)	NOMINAL SYSTEM VOLTAGE
		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
Ih	INSULATION HEIGHT	2400

Notes

FOR STATUTORY CONSULTATION PURPOSES ONLY.

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 - 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

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
20	LCC
21	ROLLING SHUTTER
22	560kV AIS CVT
23	550kV AIS EARTH SWITCH
24	550kV AIS SURGE ARRESTOR
25	550kV POST INSULATOR
26	550kV CURRENT TRANSFORMER
27	EXTERNAL FIN FAN COOLER
28	BUILDING FOR PUMP SKID COOLING SYSTEM
29	AHU FOR REACTOR & VALVE HALL BUILDING
30	AHU FOR DC HALL BUILDING
31	PORTABLE RELAY ROOM
32	400 kV PIR
33	11kV POST INSULATOR
34	400 kV PLC FILTER - REACTOR
35	400 kV PLC FILTER - CAPACITOR
36	400 kV 1PH TRANSFORMER
38	400 kV AIS POST INSULATOR
39	AIR BUSHING WALL PENETRATION

Issue	Date	Remarks	MS	JW	KJ
A	08/09/2023	FINAL			

Title

THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 TYPICAL MINSTER CONVERTER STATION - ELEVATION DRAWING
 SHEET 1 OF 2

nationalgrid

Application Number: EN020026
 National Grid Drawing Reference: S42_KTDD/PS/2005

Scale: 1 : 200
 Sheet Size: A1
 Sheet: SHEET 1 OF 2
 Issue: A

THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 TYPICAL MINSTER CONVERTER STATION - ELEVATION DRAWING
 SHEET 2 OF 2

SUBSTATION MINIMUM ELECTRICAL CLEARANCES

REF	CLEARANCE (mm)	NOMINAL SYSTEM VOLTAGE
P-E	PHASE TO EARTH	400kV
P-P	PHASE TO PHASE	2800
SD	SAFETY DISTANCE NATIONAL GRID SAFETY RULES	3600
Ds	DESIGN CLEARANCE FOR SAFETY (VERTICAL)	5500
Dsh	DESIGN CLEARANCE FOR SAFETY (HORIZONTAL)	4600
lh	INSULATION HEIGHT	2400

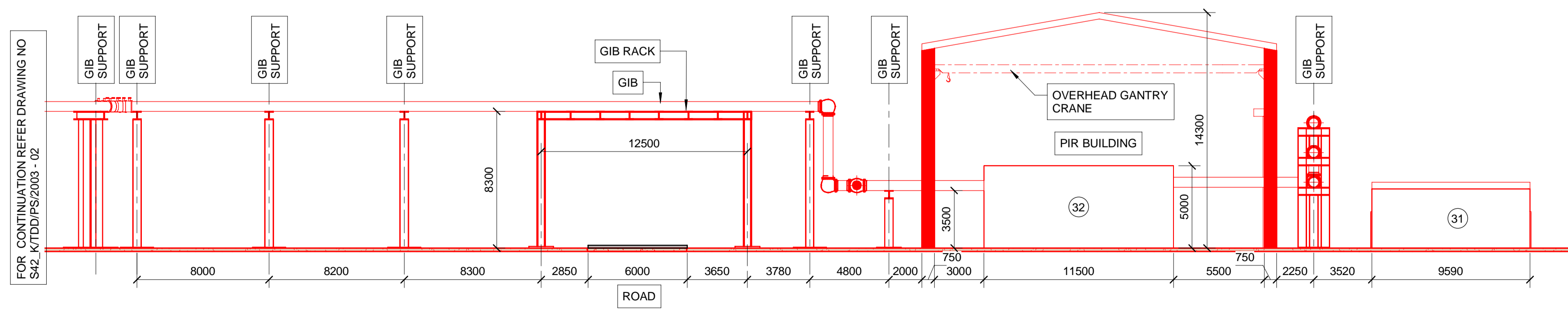
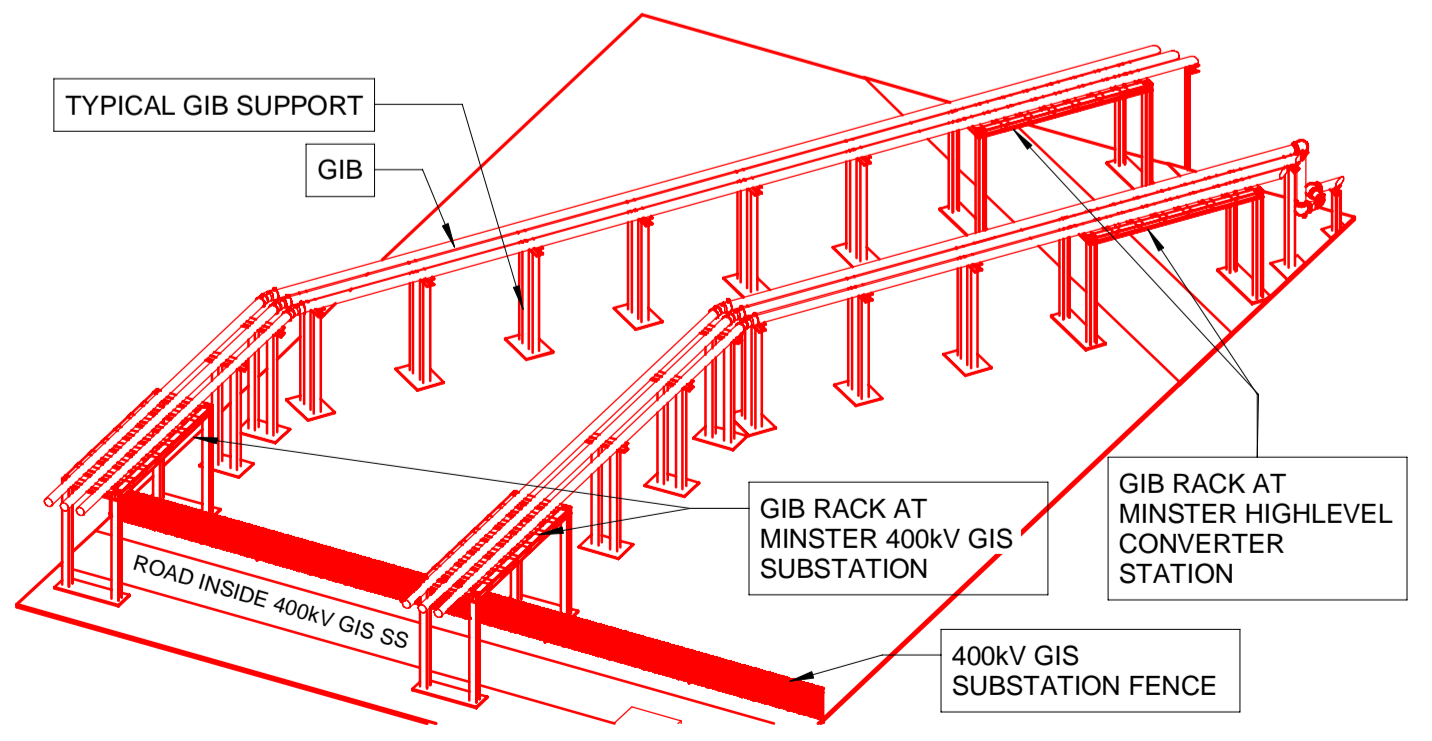
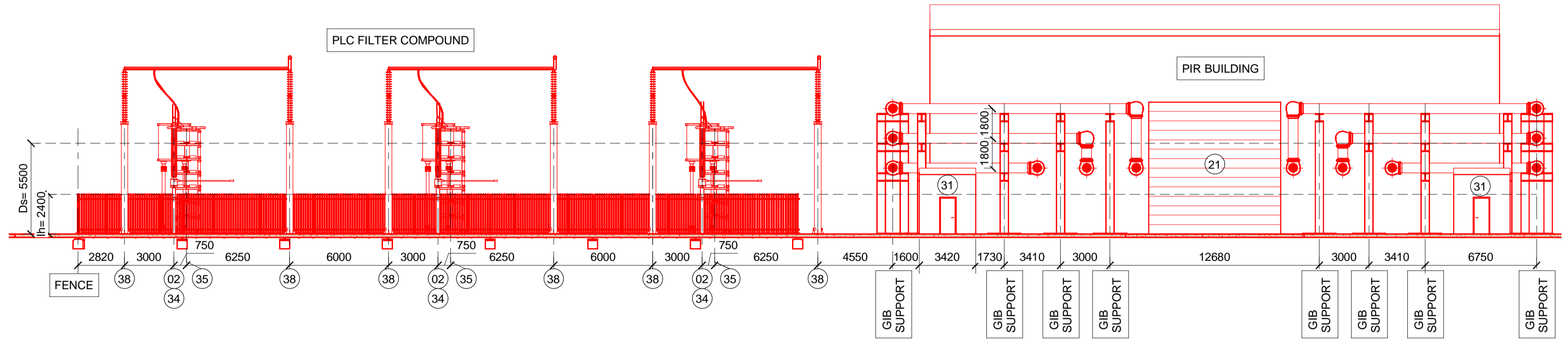
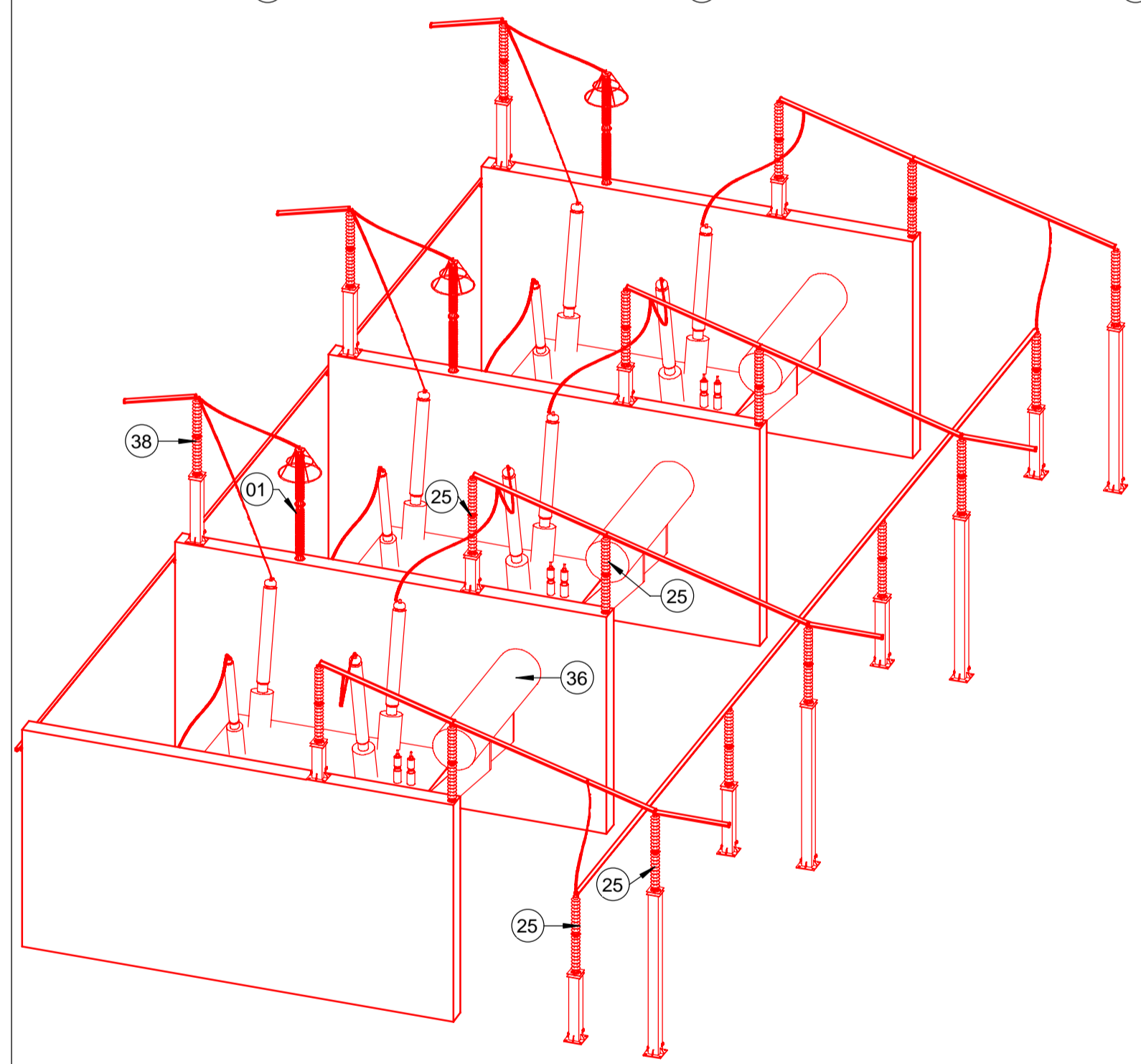
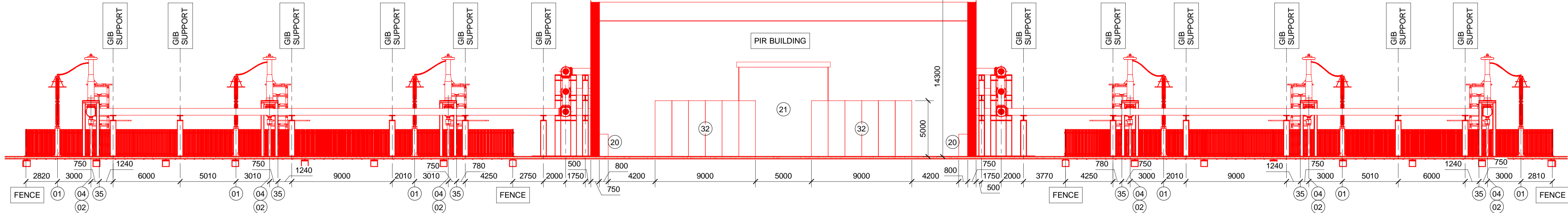
- Notes
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 - GIS - GAS INSULATED SWITCHGEAR
 - PIR - PRE INSERTION RESISTOR
 - LCC - LOCAL CONTROL CUBICLE
 - PH - PHASE
 - GIB - GAS INSULATED BUSDUCT

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
20	LCC
21	ROLLING SHUTTER
22	550kV AIS CVT
23	550kV AIS EARTH SWITCH
24	550kV AIS SURGE ARRESTOR
25	550kV POST INSULATOR
26	550kV CURRENT TRANSFORMER
27	EXTERNAL FIN FAN COOLER
28	BUILDING FOR PUMP SKID COOLING SYSTEM
29	AHU FOR REACTOR & VALVE HALL BUILDING
30	AHU FOR DC HALL BUILDING
31	PORTABLE RELAY ROOM
32	400 kV PIR
33	11kV POST INSULATOR
34	400 kV PLC FILTER - REACTOR
35	400 kV PLC FILTER - CAPACITOR
36	400 kV 1PH TRANSFORMER
38	400 kV AIS POST INSULATOR
39	AIR BUSHING WALL PENETRATION



Issue	Date	Remarks	MS	JW	KJ
A	08/09/2023	FINAL	MS	JW	KJ

Title

THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 TYPICAL MINSTER CONVERTER STATION - ELEVATION DRAWING
 SHEET 2 OF 2

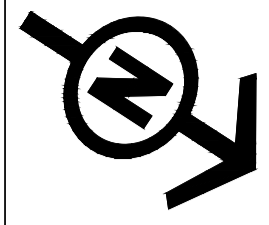
nationalgrid

Application Number: EN020026
 National Grid Drawing Reference: S42_K/TDD/PS/2005
 Scale: 1 : 200
 Sheet Size: A1
 Sheet: SHEET 2 OF 2
 Issue: A

01-06. Minster 400kV Substation

Drawing Category Name	Plan Title	Scheme	Drawing Numbers
Minster 400kV Substation	Typical Minster 400kV GIS substation - overall layout	Kent Onshore Scheme	S42_K/TDD/SS/2001
	Typical 400kV GIS substation - elevation drawing	Kent Onshore Scheme	S42_K/TDD/PS/2003_SH1 S42_K/TDD/PS/2003_SH2

To assist with understanding these drawings please see the **Guide to Interacting with the Consultation Plans and Drawings**



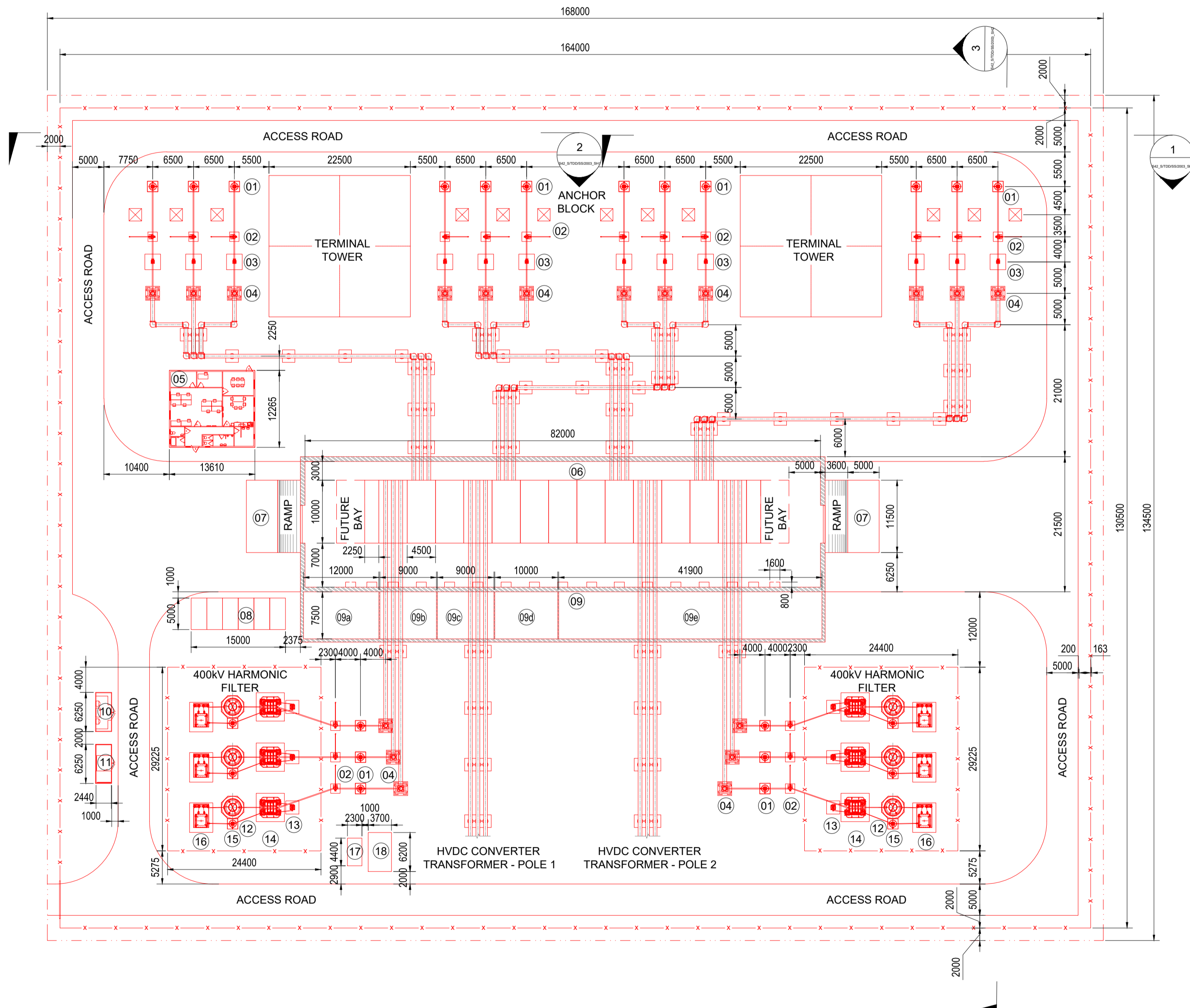
THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 TYPICAL MINSTER 400KV GIS SUBSTATION - OVERALL LAYOUT
 SHEET 1 of 1

NOMINAL SYSTEM VOLTAGE	PHASE TO EARTH	PHASE TO PHASE	SAFETY DISTANCE (FROM NATIONAL GRID SAFETY RULES)	DESIGN CLEARANCE FOR SAFETY (VERTICAL) D _s	DESIGN CLEARANCE FOR SAFETY (HORIZONTAL) D _{sh}	INSULATION HEIGHT I _h
kV	M	M	M	M	M (SEE POINT ii FROM NOTE 6)	M
400	2.8	3.6	3.1	5.5	4.6	2.4

- Notes**
- For statutory consultation purposes only.**
- These plans show the Draft Order Limits and Draft Cable Alignment and potential pylon locations. 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 (including pylon locations) would lie. Therefore the Draft Cable Alignment and pylon locations should be treated as indicative only. Further information is provided in our 'Guide to interacting with our consultation plans' document.
 - For further information on construction please refer to the construction section of the Preliminary Environmental Impact Report, Volume 1, Part 1, Chapter 4.
 - Abbreviations
 AIS - Air Insulated Switchgear
 CVT - Capacitive Voltage Transformer
 GIS - Gas Insulated Switchgear
 LVAC - Low Voltage Alternating Current
 HVDC - High Voltage Direct Current
 - Elevation sections relate to S42_S/TDD/SS/2003_SH1 & S42_S/TDD/SS/2003_SH2.

- Legend**
- LIMIT OF LAND
 - X FENCE
 - NEW EQUIPMENT

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
18	EMERGENCY DIESEL GENERATOR



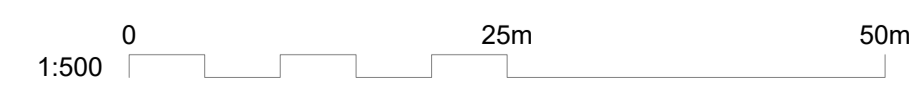
Issue	Date	Remarks	Drawn	Checked	Approved
A	01/09/2023	FINAL	SC	JW	KJ

Title

THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 TYPICAL MINSTER 400KV GIS SUBSTATION - OVERALL LAYOUT
 SHEET 1 of 1

nationalgrid

Application Number: EN020026
 National Grid Drawing Reference: S42_K/TDD/SS/2001
 Scale: 1:500
 Sheet Size: A1
 Sheet: SHEET 1 OF 1
 Issue: A



THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 TYPICAL 400kV GIS SUBSTATION - ELEVATION DRAWING
 SHEET 1 of 2

Notes

FOR STATUTORY CONSULTATION PURPOSES ONLY.

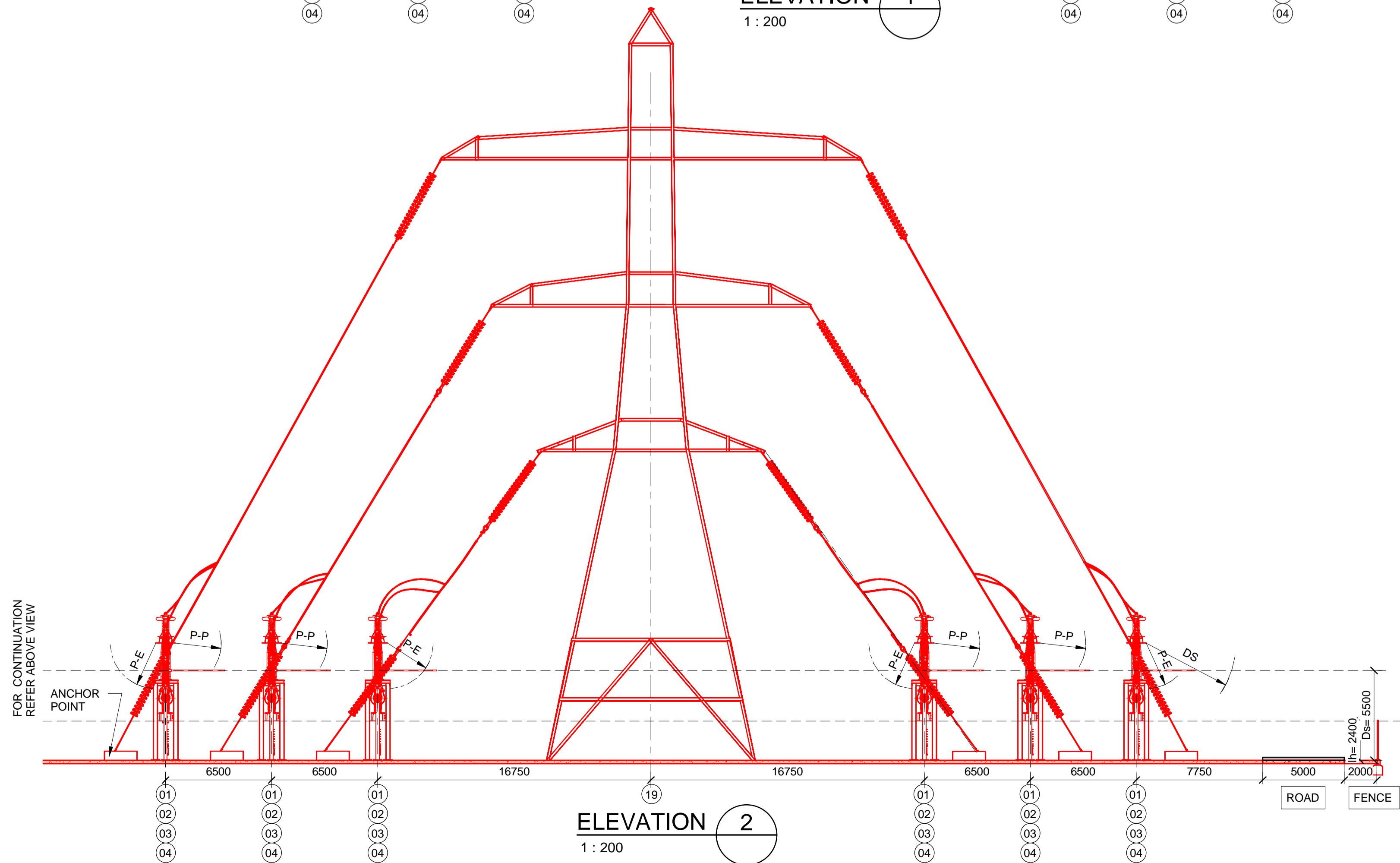
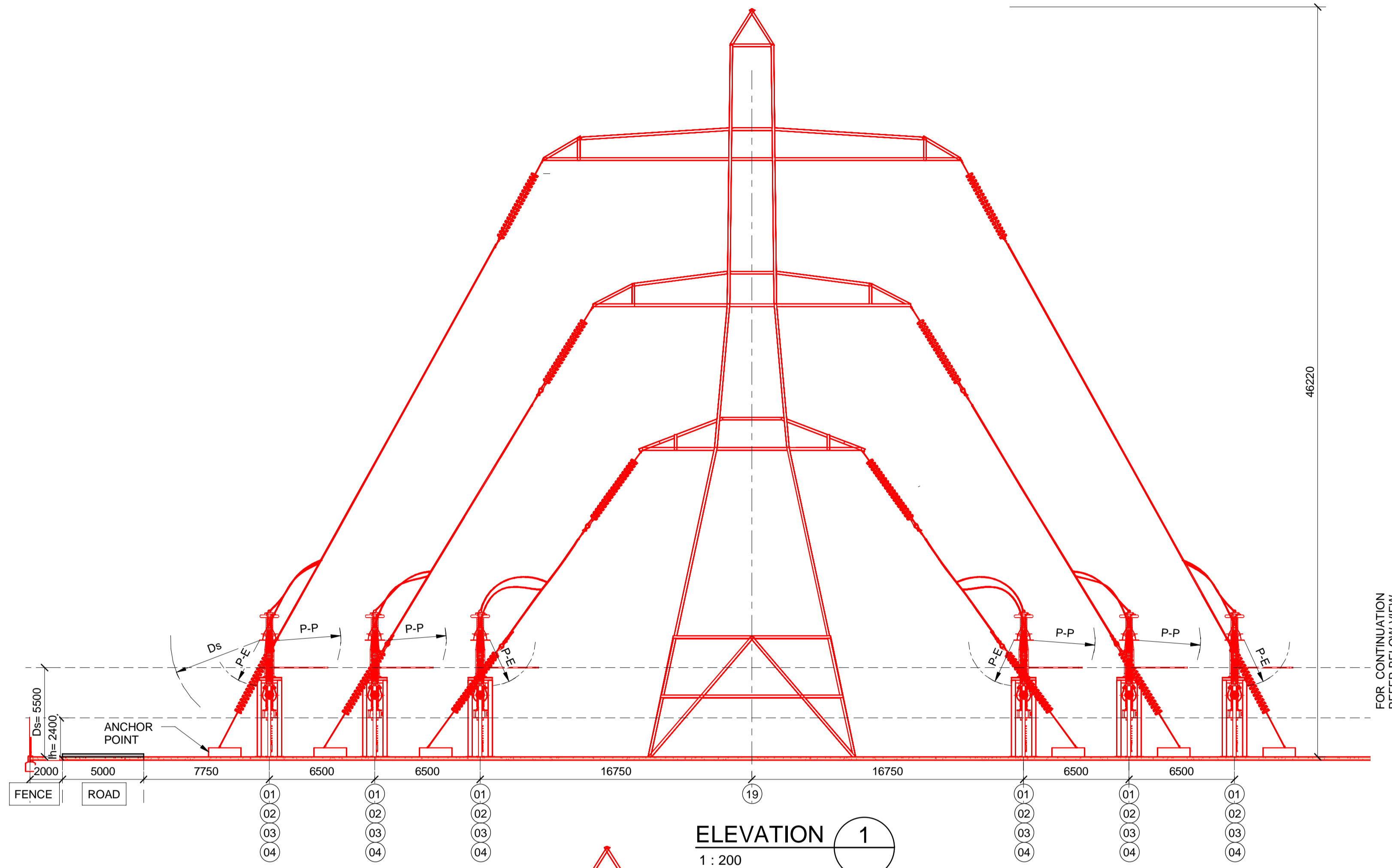
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 - PH - PHASE
 - GIB - GAS INSULATED BUSDUCT

SUBSTATION MINIMUM ELECTRICAL CLEARANCES		
REF	CLEARANCE (mm)	NOMINAL SYSTEM VOLTAGE
		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

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



Issue	Date	Remarks	Drawn	Checked	Approved
A	08/09/2023	FINAL	MS	JW	KJ

Title

THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 TYPICAL 400kV GIS SUBSTATION - ELEVATION DRAWING
 SHEET 1 of 2

nationalgrid

Application Number: EN020026

National Grid Drawing Reference: S42_KTDD/PS/2003

Scale	Sheet Size	Sheet	Issue
1 : 200	A1	SHEET 1 of 2	A

THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 TYPICAL 400kV GIS SUBSTATION - ELEVATION DRAWING
 SHEET 2 OF 2

SUBSTATION MINIMUM ELECTRICAL CLEARANCES		
REF	CLEARANCE (mm)	NOMINAL SYSTEM VOLTAGE
		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
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Ih	INSULATION HEIGHT	2400

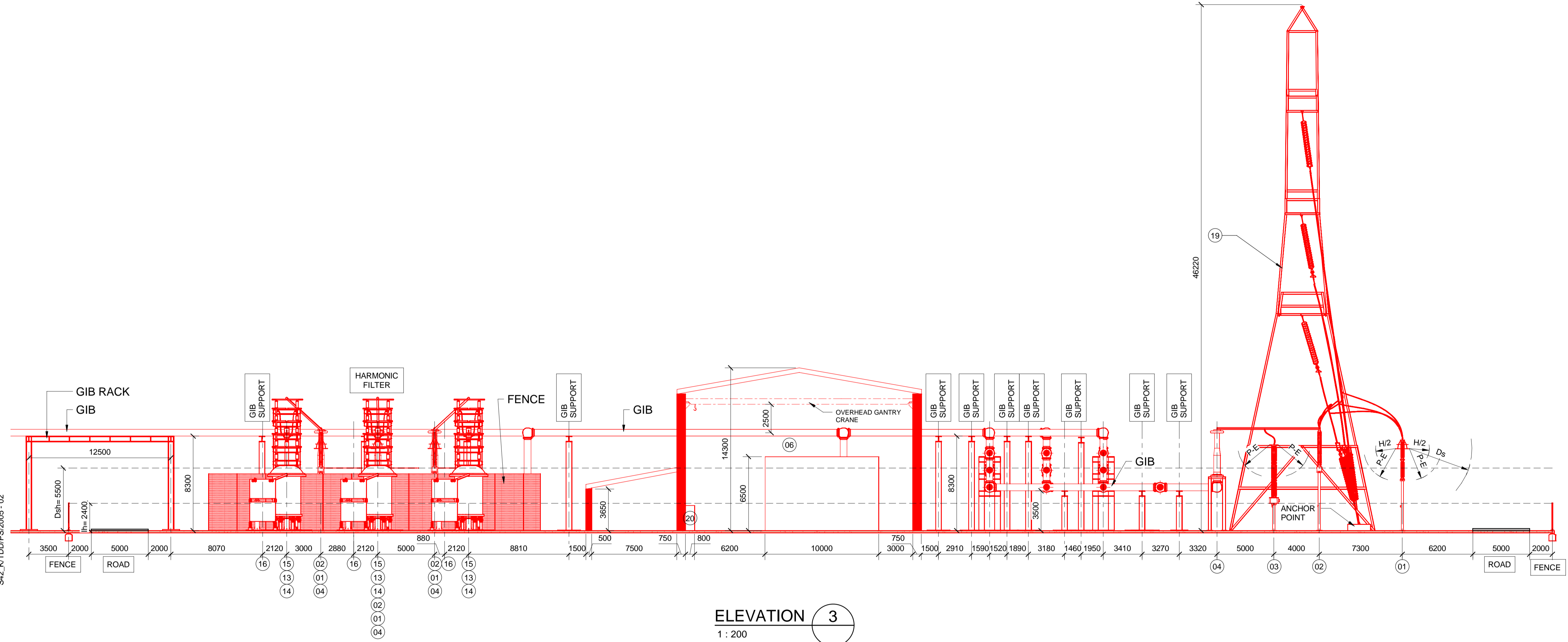
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 - LCC - LOCAL CONTROL CUBICLE
 - PH - PHASE
 - GIB - GAS INSULATED BUSDUCT

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

FOR CONTINUATION REFER DRAWING NO S42_K/TDD/PS/2005 - 02



ELEVATION 3
 1 : 200

Issue	Date	Remarks	Drawn	Checked	Approved
A	08/09/2023	FINAL	MS	JW	KJ

Title

THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 TYPICAL 400kV GIS SUBSTATION - ELEVATION DRAWING
 SHEET 2 OF 2

nationalgrid

Application Number: EN020026
 National Grid Drawing Reference: S42_K/TDD/PS/2003

Scale	Sheet Size	Sheet	Issue
1 : 200	A1	SHEET 2 OF 2	A

01-07. Bellmouths, Compounds & Pylon Types

Drawing Category Name	Plan Title	Scheme	Drawing Numbers
Compounds, Bellmouths & Pylon Types	Typical bellmouth arrangement details	Onshore Schemes	S42_T/TDD/SS/3002
	Typical OHL_and construction works construction compound	Onshore Schemes	S42_T/TDD/SS/3004
	Typical converter and substation works construction compounds	Onshore Schemes	S42_T/TDD/SS/3005
	Typical OHL pylon detail	Onshore Schemes	S42_T/TDD/SS/3006

To assist with understanding these drawings please see the **Guide to Interacting with the Consultation Plans and Drawings**

THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 TYPICAL BELLMOUTH ARRANGEMENT DETAILS
 SHEET 1 OF 1

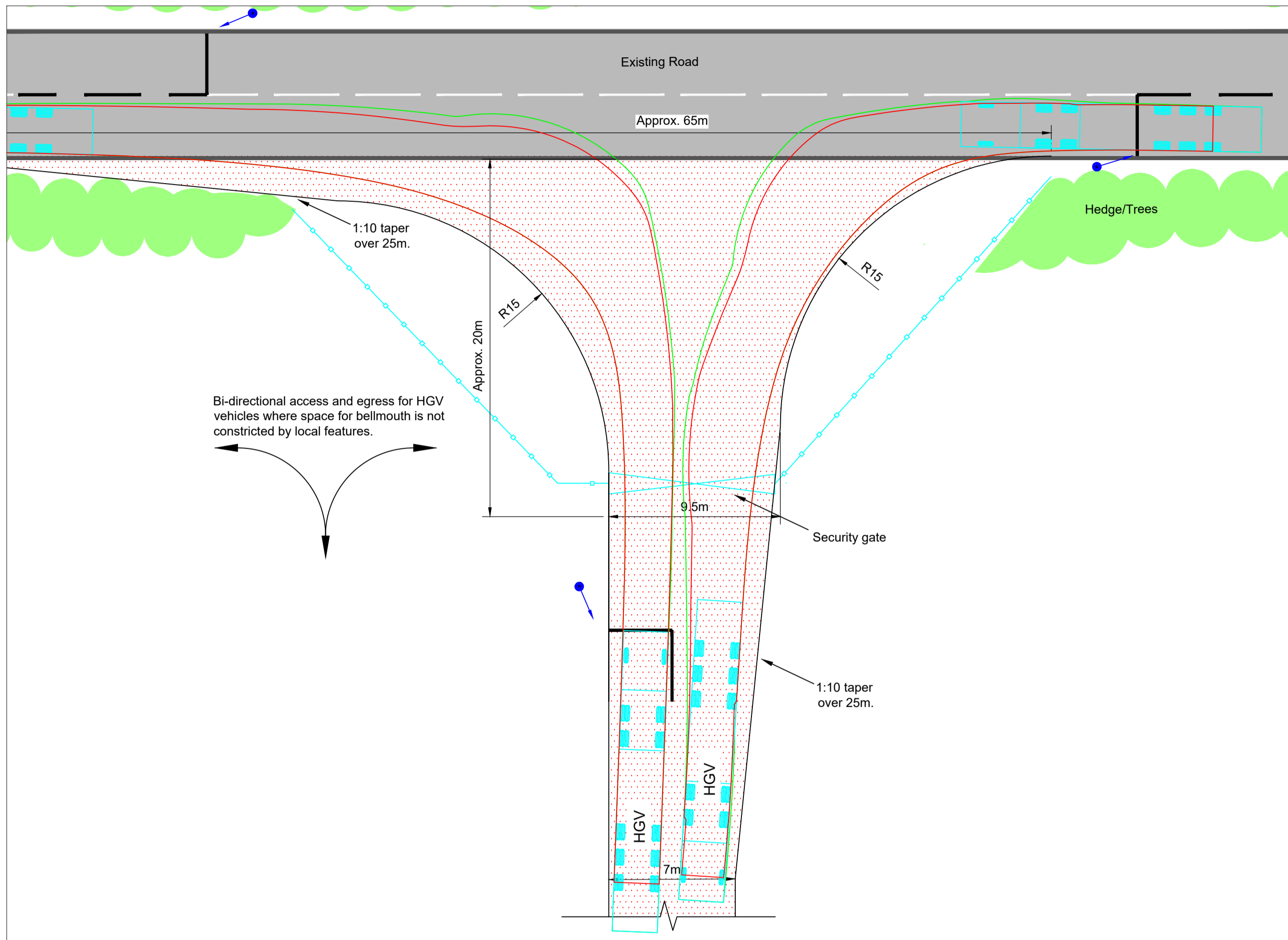
Notes

For statutory consultation purposes only.
 These plans show the Draft Order Limits and Draft Cable Alignment and potential pylon locations. 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 (including pylon locations) would lie.
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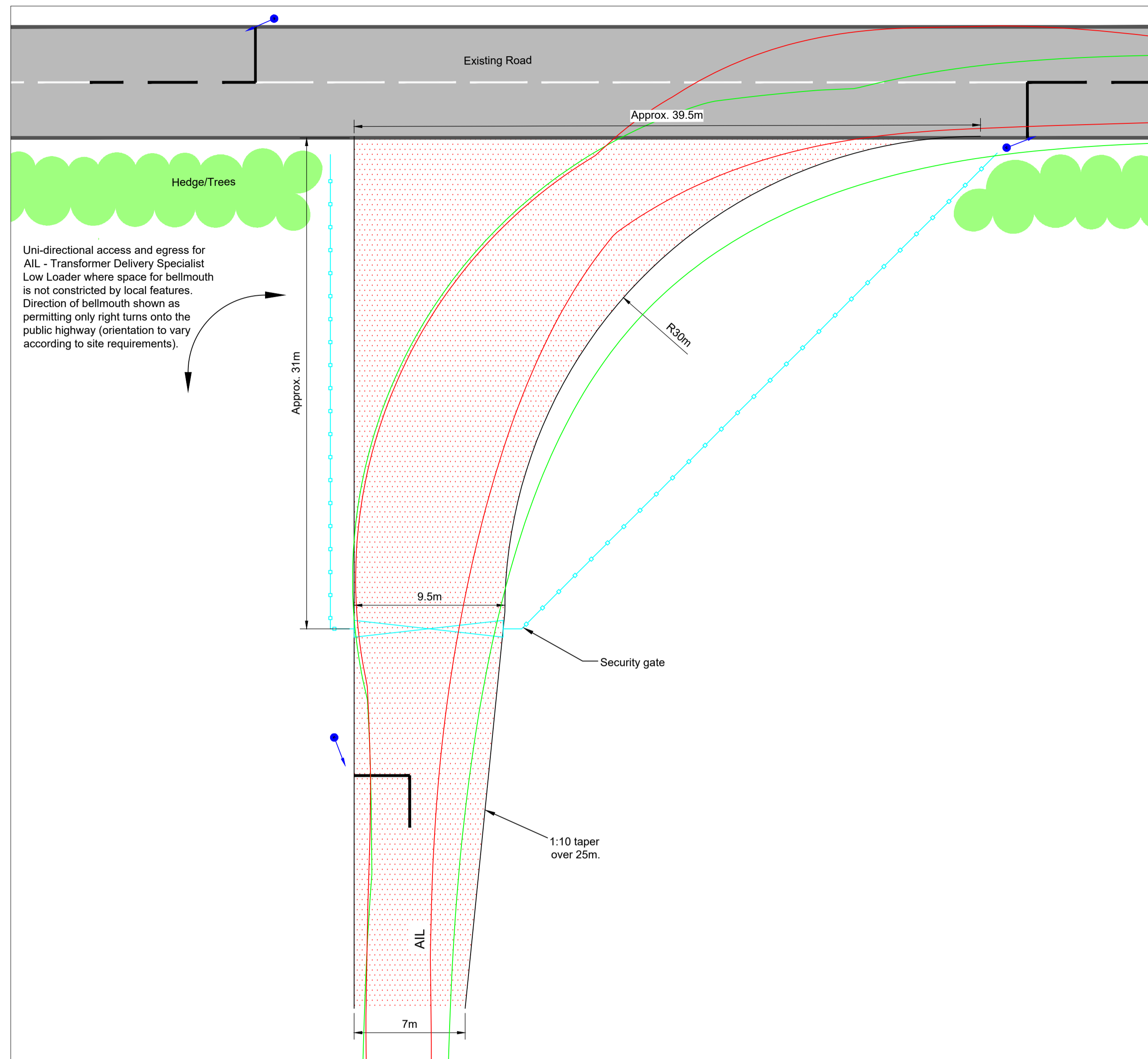
For further information on construction please refer to the construction section of the Preliminary Environmental Impact Report, Volume 1, Part 1, Chapter 4.

Legend

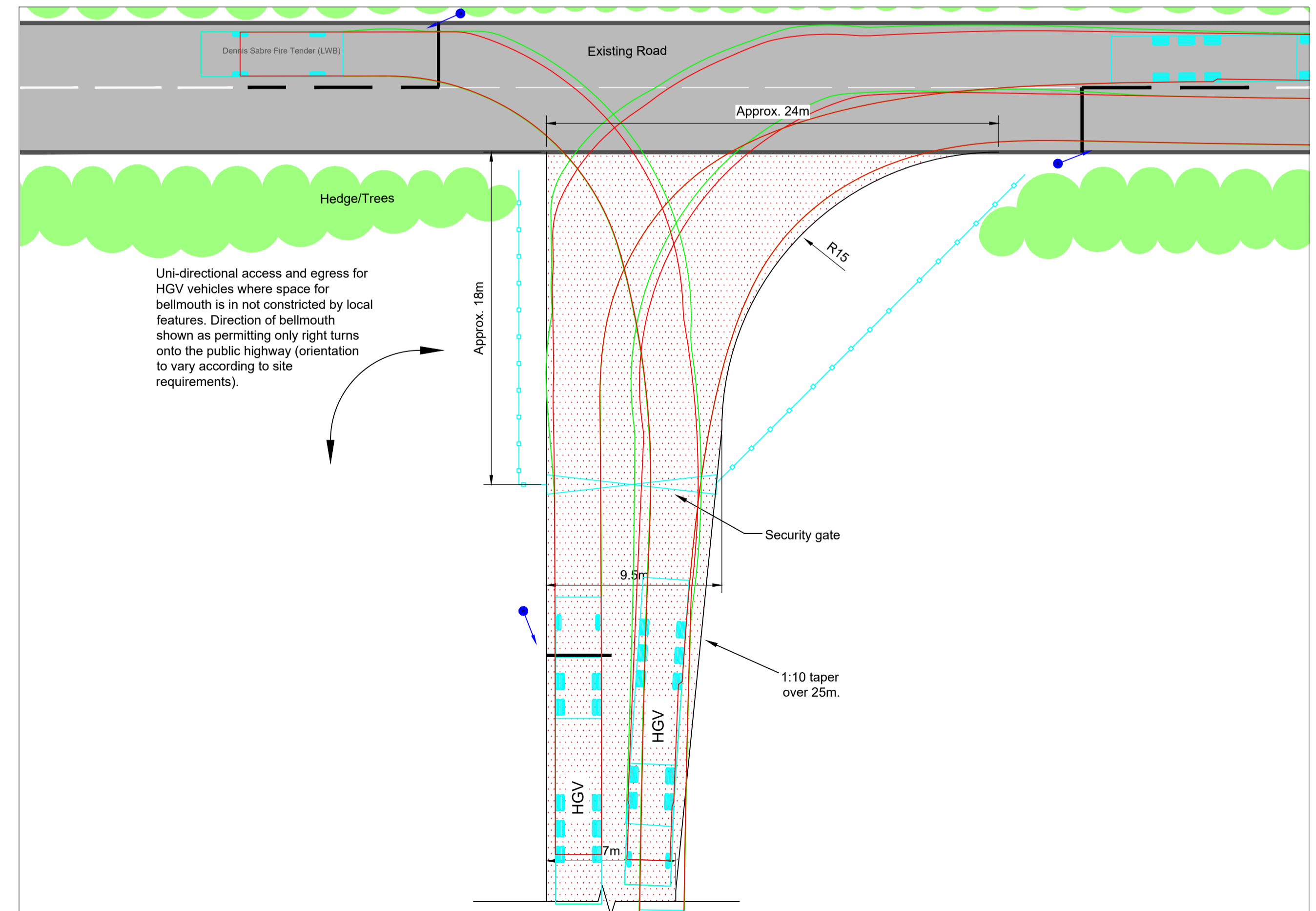
- Hedges/Trees
- Temporary 3 or 4 Way Traffic Lights
- Security Gate
- Access Track and Bellmouth
- Security Fence
- Stop Line
- Vehicle total width swept path
- Vehicle wheelbase swept path



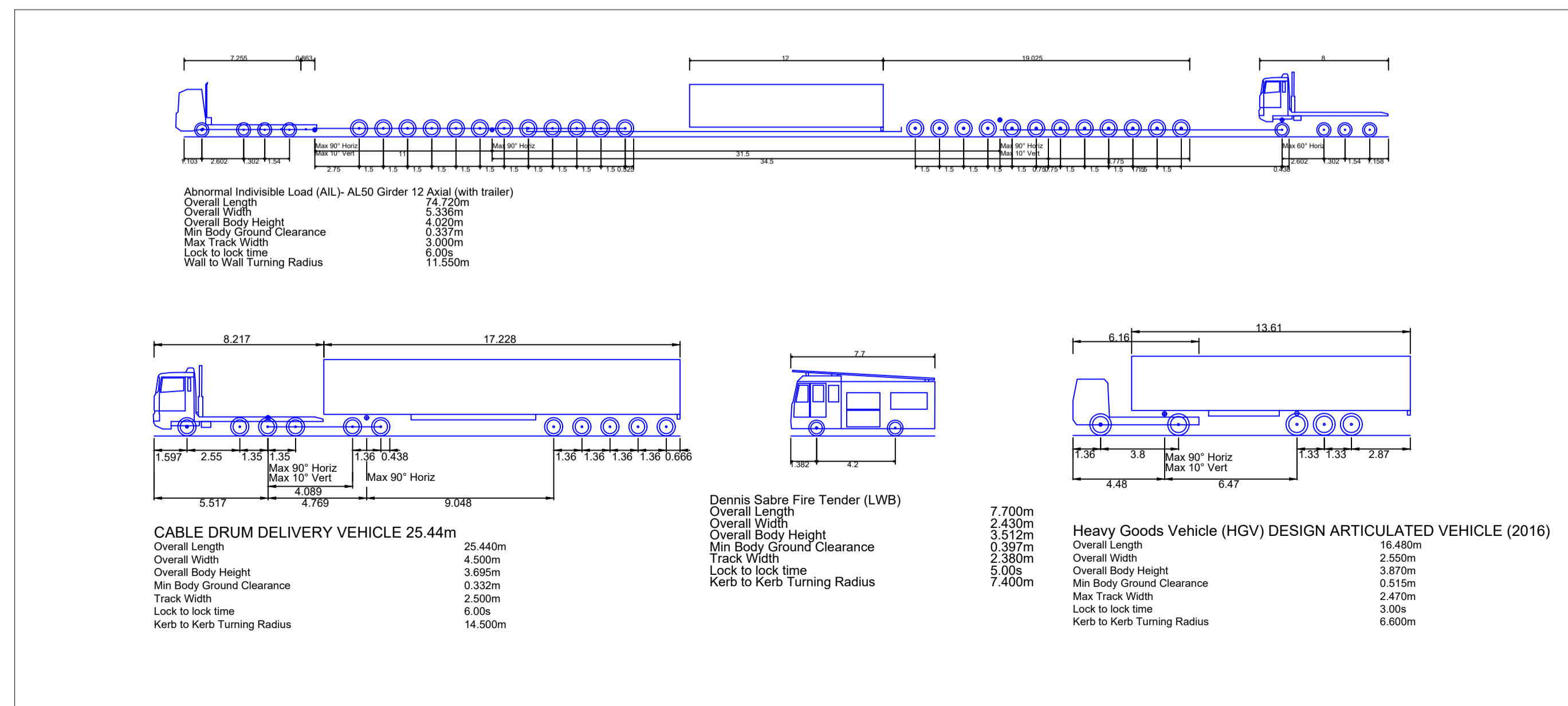
Type 1 Bellmouth - Bi-Directional (HGV and Cable Drum Delivery Vehicle)
1:200



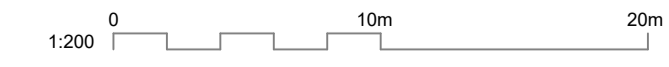
Type 3 Bellmouth - Uni-Directional (AIL)
1:200



Type 2 Bellmouth - Uni-Directional (HGV and Cable Drum Delivery Vehicle)
1:200



Autotrack Model
NTS



Sheet X Centroid Coordinate: Sheet Y Centroid Coordinate:

Issue	Date	Remarks	Drawn	Checked	Approved
A	01/09/2023	FINAL	SC	JW	KJ

Title
 THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 TYPICAL BELLMOUTH ARRANGEMENT DETAILS
 SHEET 1 OF 1



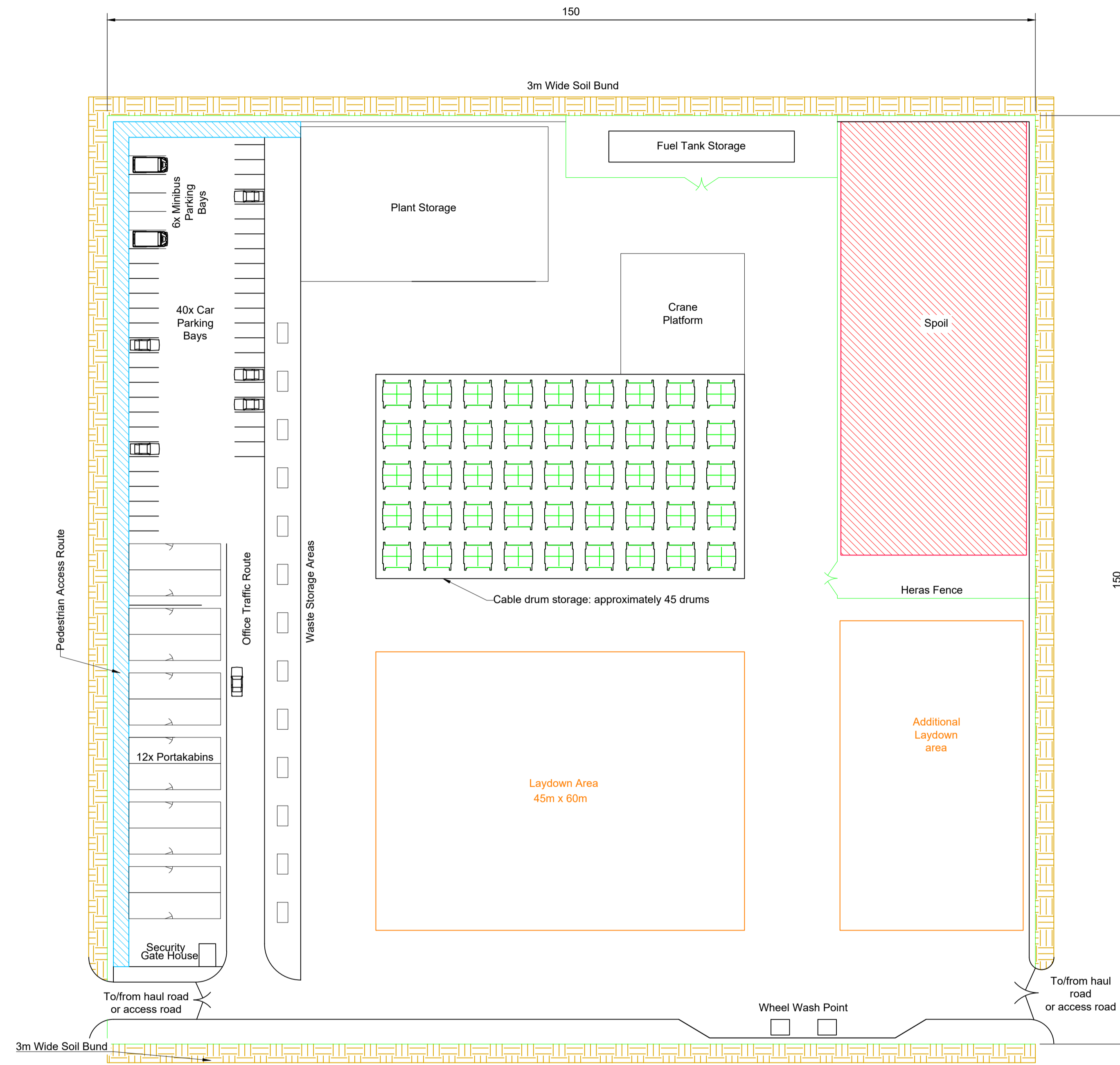
Application Number
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National Grid Drawing Reference
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Scale	Sheet Size	Sheet	Issue
AS SHOWN	A1	SHEET 1 OF 1	A

THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 TYPICAL OHL AND CONSTRUCTION WORKS CONSTRUCTION COMPOUND
 SHEET 1 OF 1

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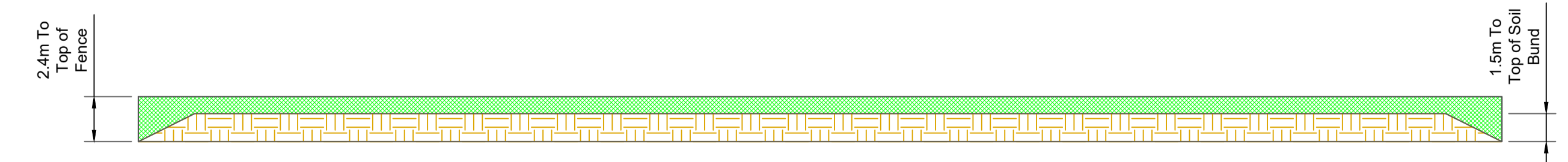
Legend

	Pedestrian Access
	Soil Bund
	Spoil
	Laydown Area

Typical Cable Construction Layout Plan
 1:500

A ▲

▲ A



Elevation View A-A
 1:500

Sheet X Centroid Coordinate: Sheet Y Centroid Coordinate:

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Issue	Date	Remarks	Drawn	Checked	Approved
A	01/09/2023	FINAL	SC	JW	KJ

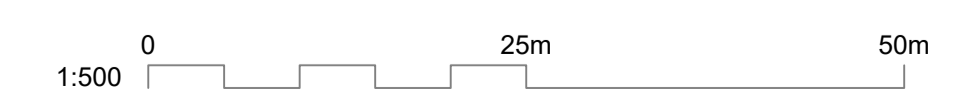
Title
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 TYPICAL OHL AND CONSTRUCTION WORKS CONSTRUCTION COMPOUND
 SHEET 1 OF 1



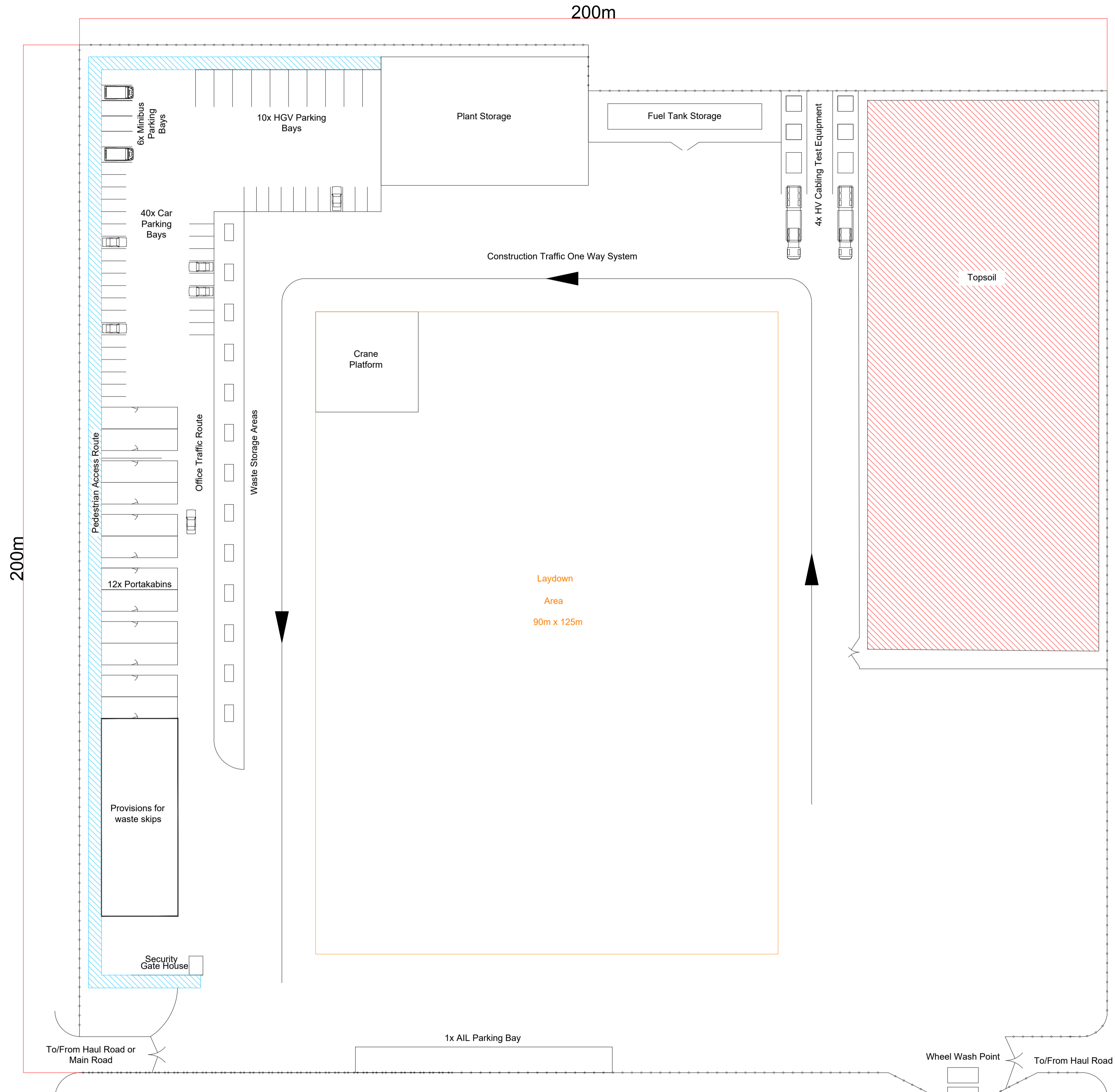
Application Number: EN020026

National Grid Drawing Reference: S42_T/IDD/ISS/3004

Scale	Sheet Size	Sheet	Issue
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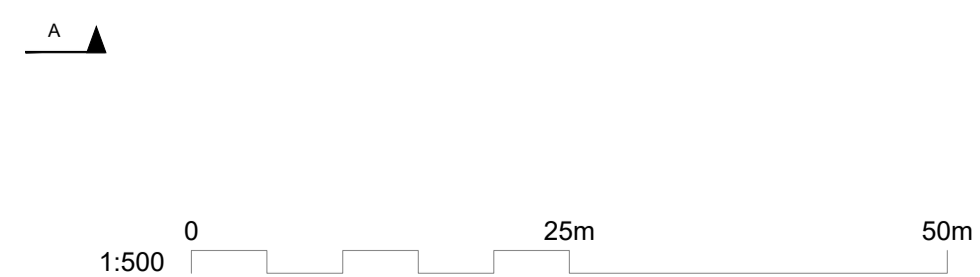
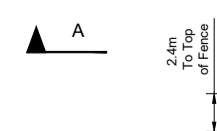


THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 TYPICAL CONVERTER AND SUBSTATION WORKS CONSTRUCTION COMPOUNDS
 SHEET 1 of 1



Typical Converter Station Construction
 Layout Plan

Elevation View A-A



Notes

For statutory consultation purposes only.

- These plans show the Draft Order Limits and Draft Cable Alignment and potential pylon locations. 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 (including pylon locations) would lie. Therefore the Draft Cable Alignment and pylon locations should be treated as indicative only. Further information is provided in our 'Guide to interacting with our consultation plans' document.
- For further information on construction please refer to the construction section of the Preliminary Environmental Impact Report, Volume 1, Part 1, Chapter 4.
- Abbreviations
 AIL - Abnormal Indivisible Loads
 HGV - Heavy Goods Vehicle
 HV - High Voltage

Legend

- Pedestrian Access
- Topsoil
- Security Fence

Sheet X Centroid Coordinate: Sheet Y Centroid Coordinate:

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Issue	Date	Remarks	Drawn	Checked	Approved
A	01/09/2023	FINAL	MS	JW	KJ

Title

THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 TYPICAL CONVERTER AND SUBSTATION WORKS CONSTRUCTION COMPOUNDS
 SHEET 1 of 1

nationalgrid

Application Number: EN020026

National Grid Drawing Reference: S42_T/TDD/SS/3005

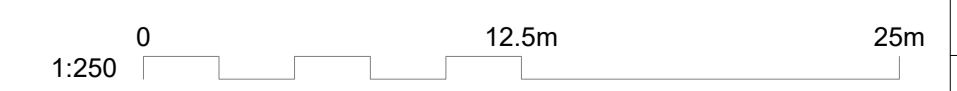
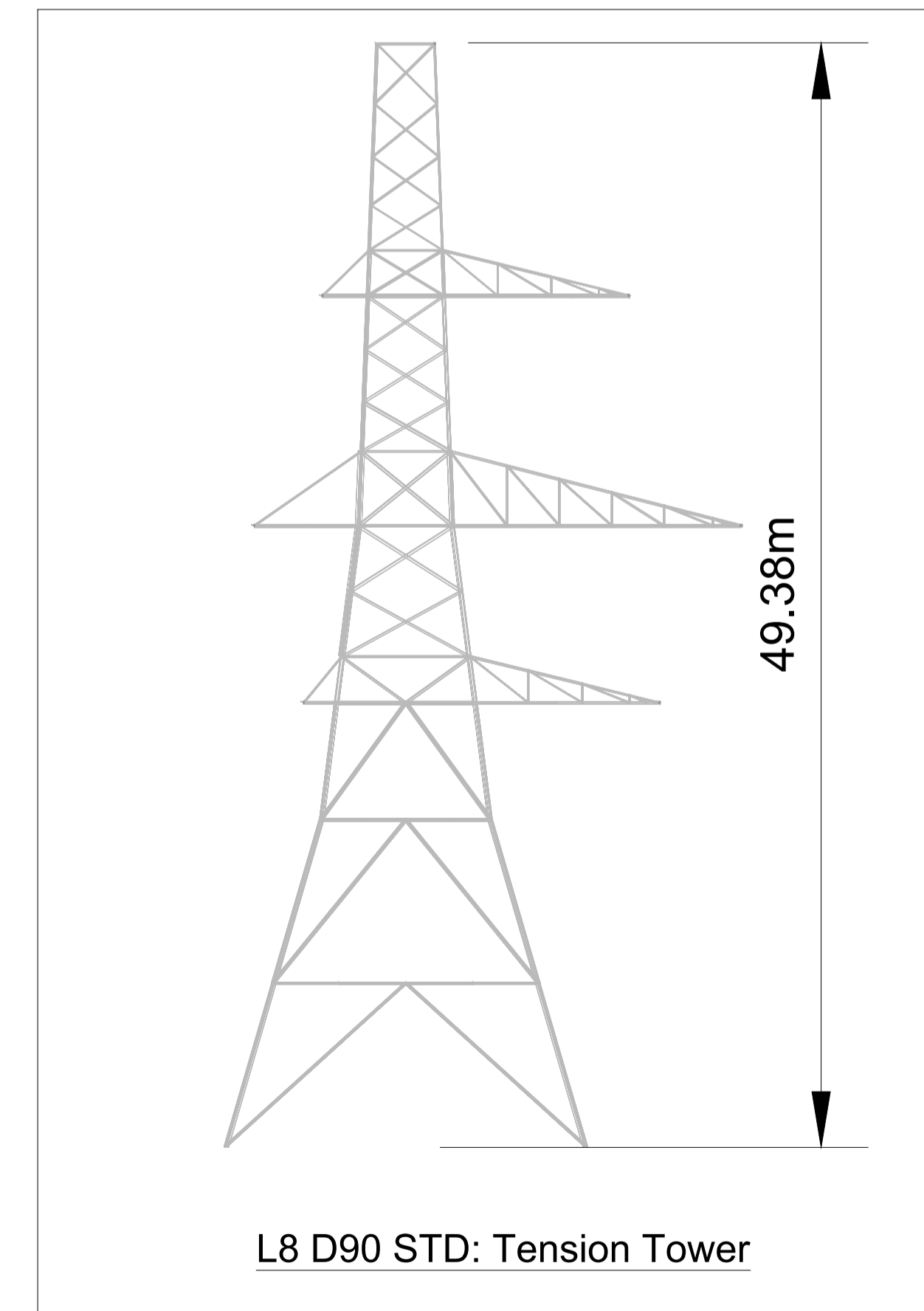
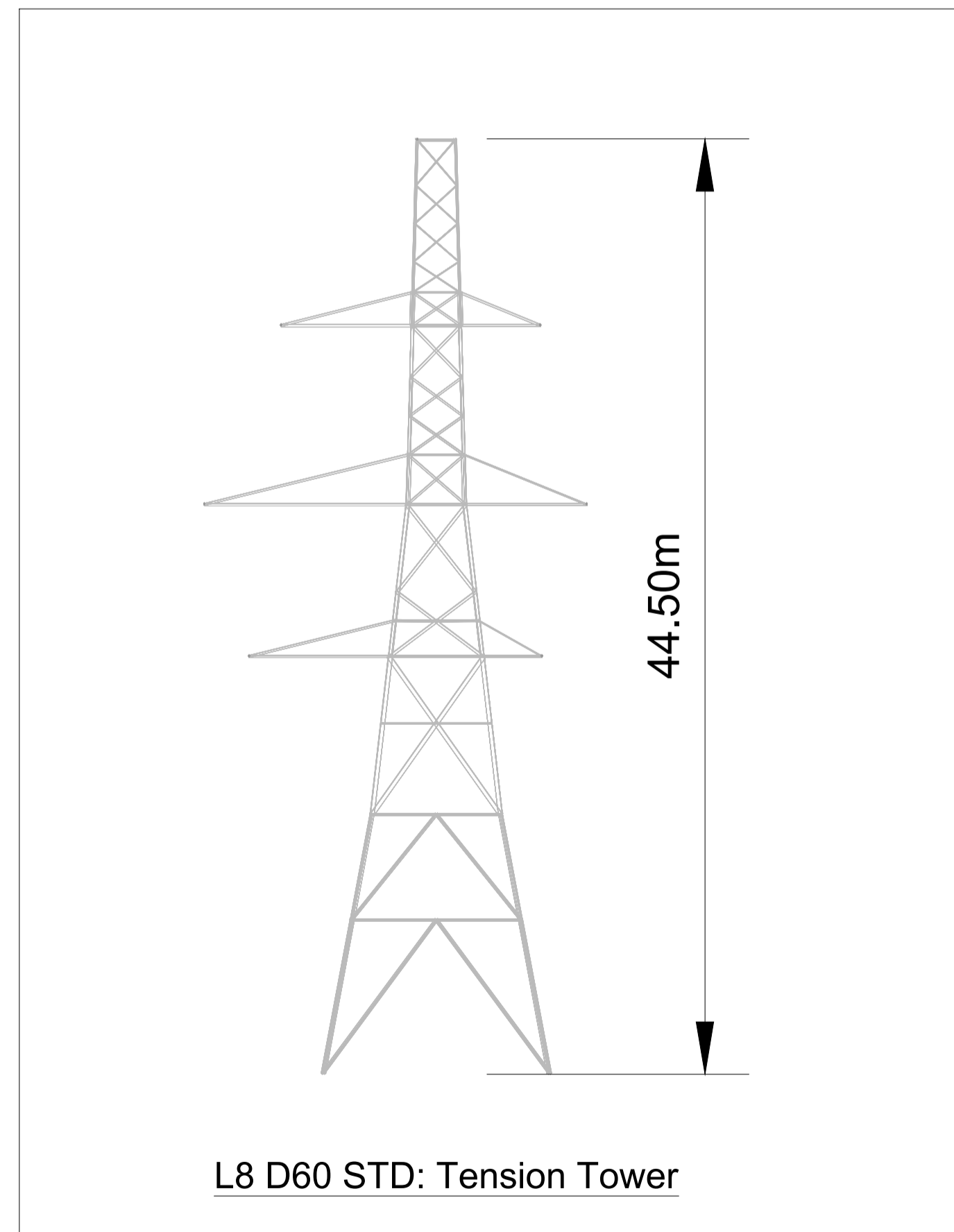
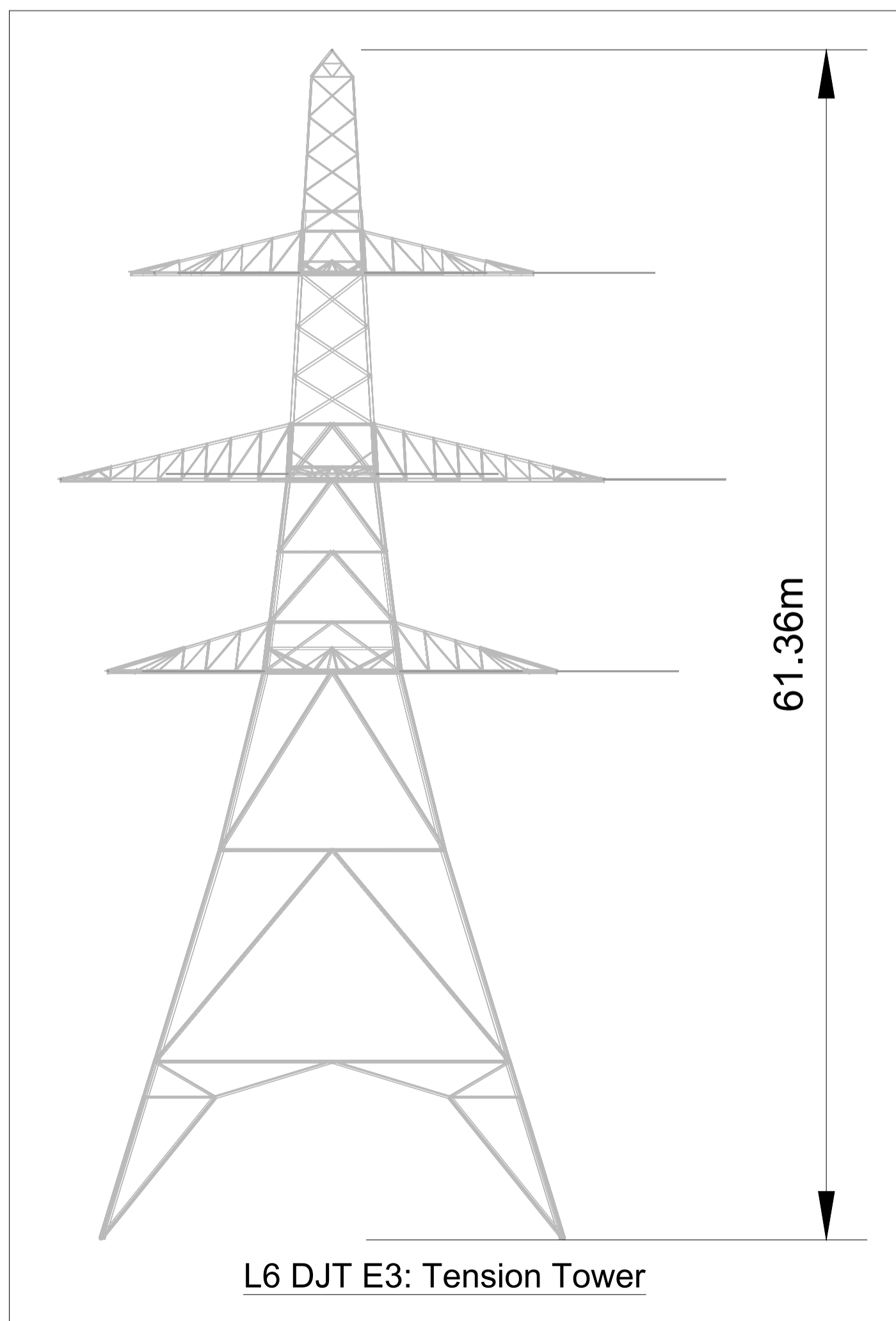
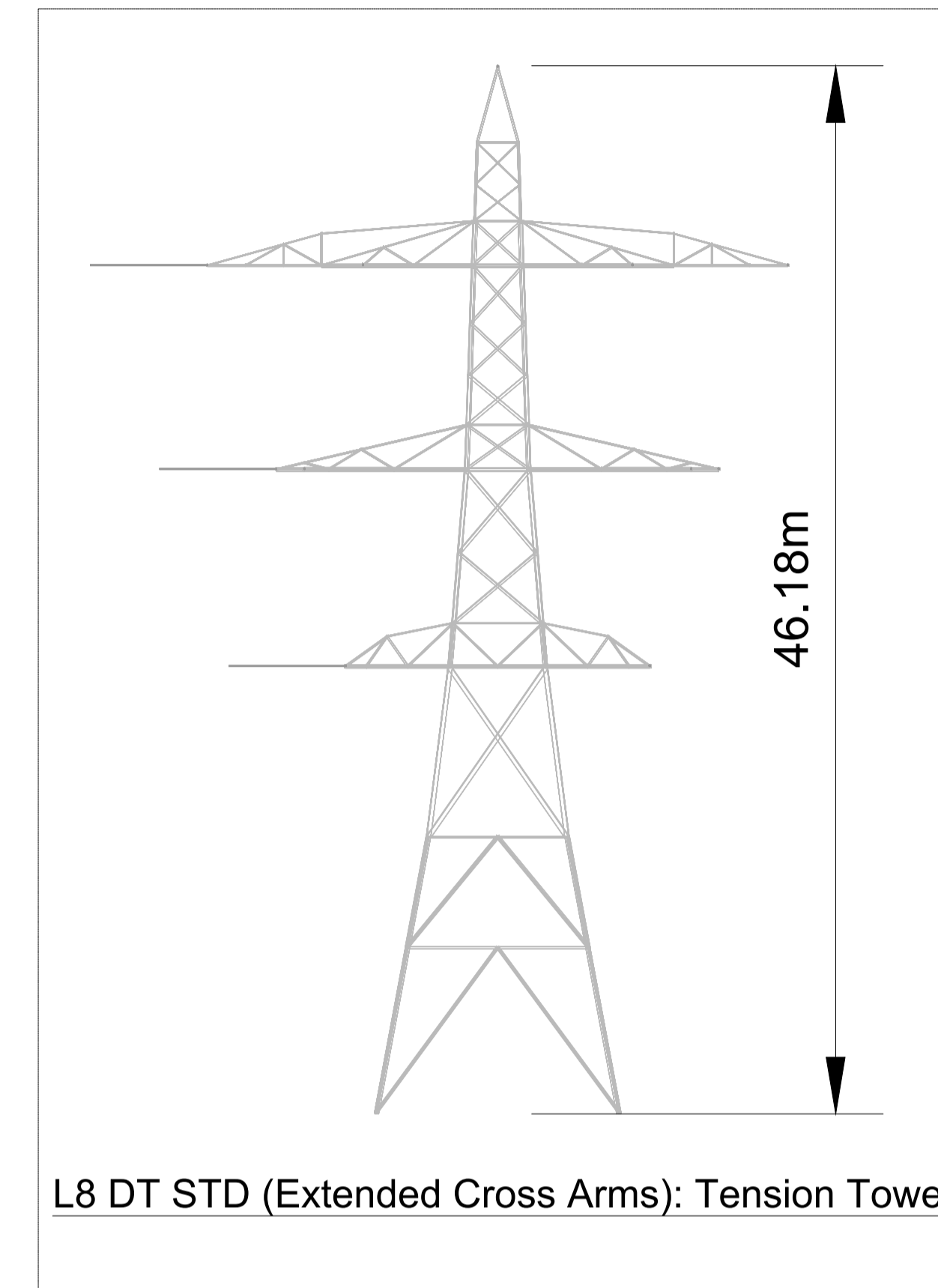
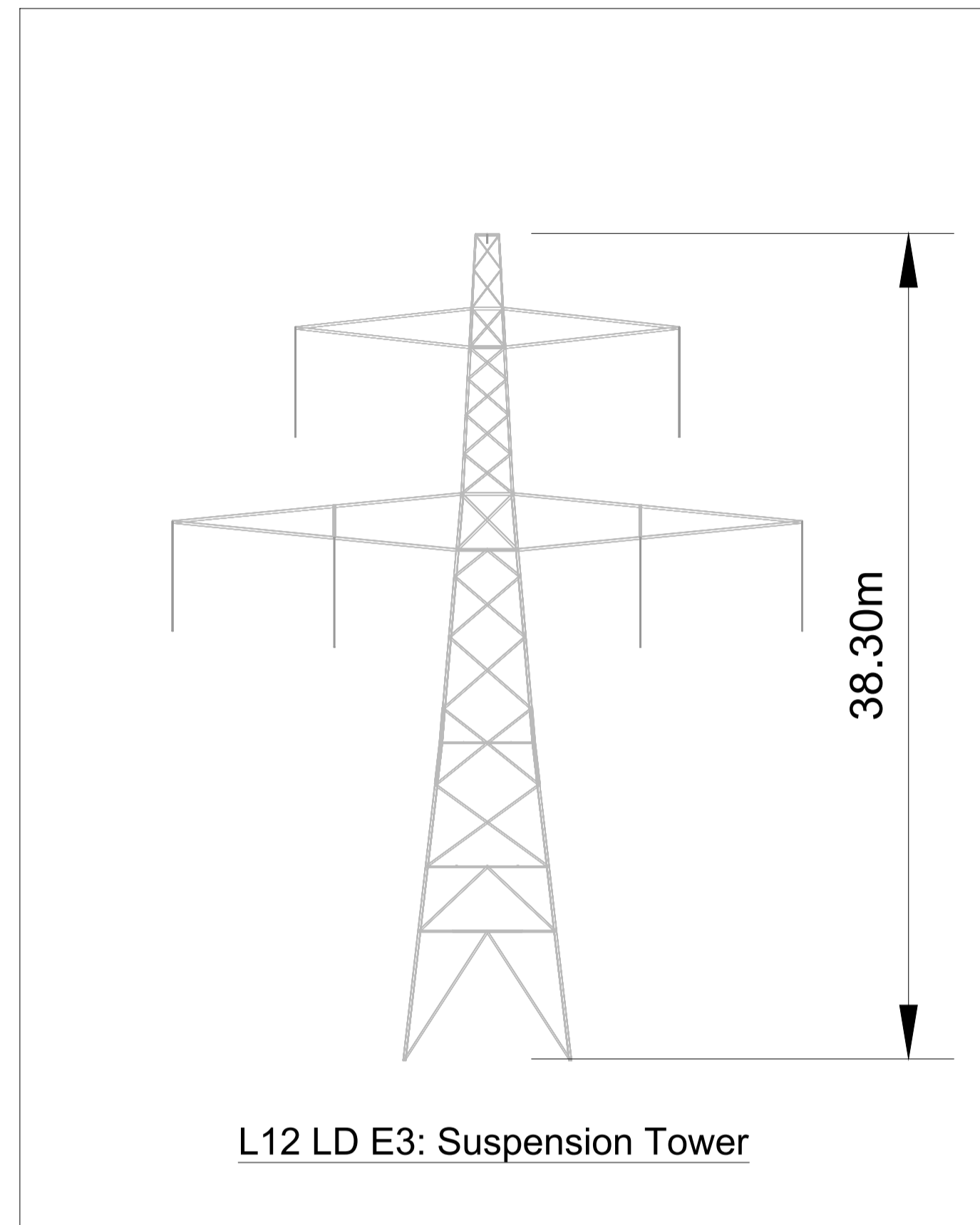
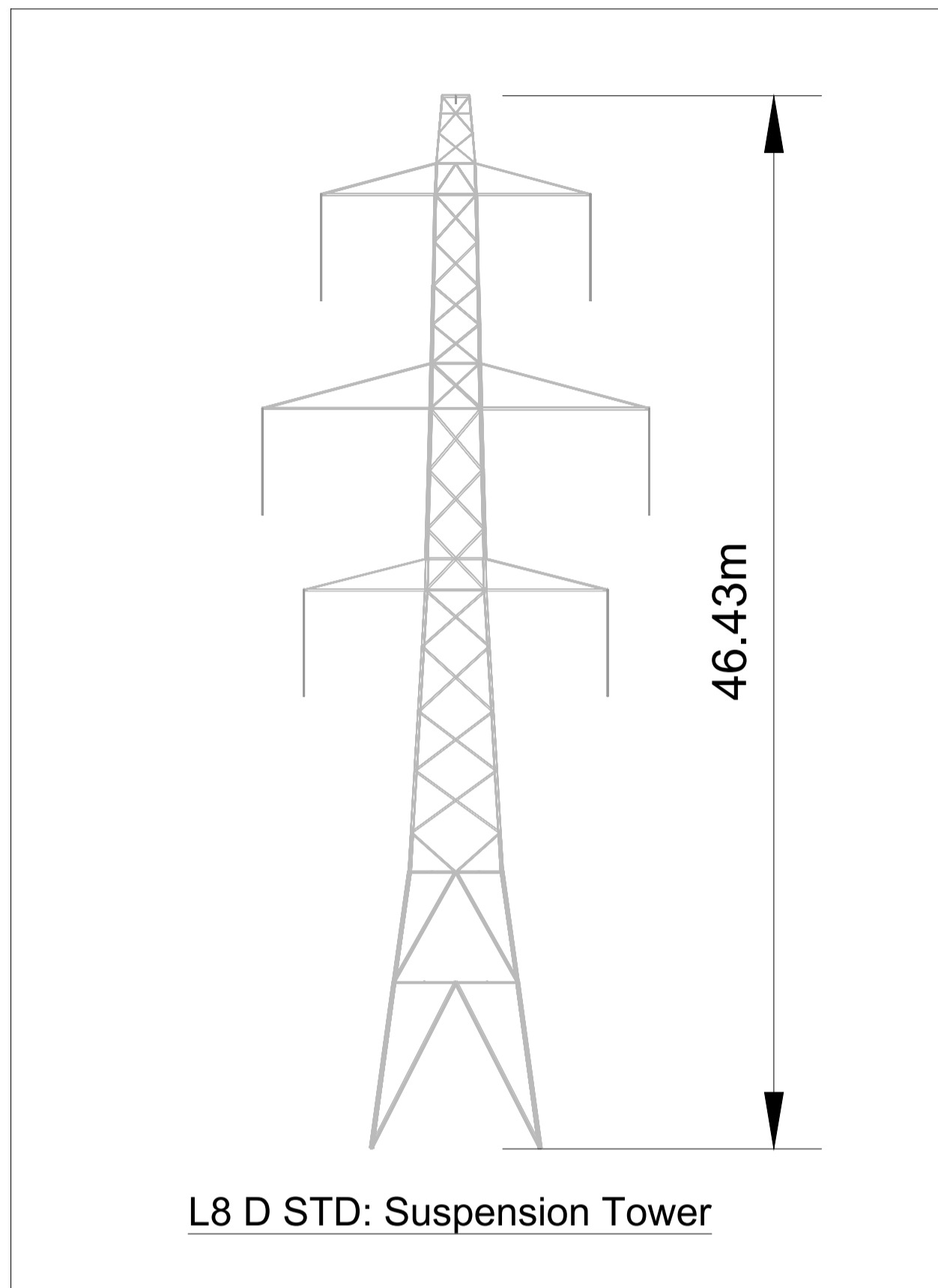
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THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 TYPICAL OHL PYLON DETAIL
 SHEET 1 of 1

Notes

For statutory consultation purposes only. These plans show the Draft Order Limits and Draft Cable Alignment and potential pylon locations. 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 (including pylon locations) would lie. Therefore the Draft Cable Alignment and pylon locations should be treated as indicative only. Further information is provided in our 'Guide to interacting with our consultation plans' document.

For further information on construction please refer to the construction section of the Preliminary Environmental Impact Report, Volume 1, Part 1, Chapter 4.



Issue	Date	Remarks	Drawn	Checked	Approved
A	01/09/2023	FINAL	MS	JW	KJ

Title
 THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 TYPICAL OHL PYLON DETAIL
 SHEET 1 of 1

nationalgrid

Application Number: EN020026

National Grid Drawing Reference: S42_T/TDD/SS/3006

Scale	Sheet Size	Sheet	Issue
1:250	A1	SHEET 1 OF 1	A

02. Offshore Design Drawings

To assist with understanding these drawings please see the **Guide to Interacting with the Consultation Plans and Drawings**

02-01. Pre-Cable Installation Works

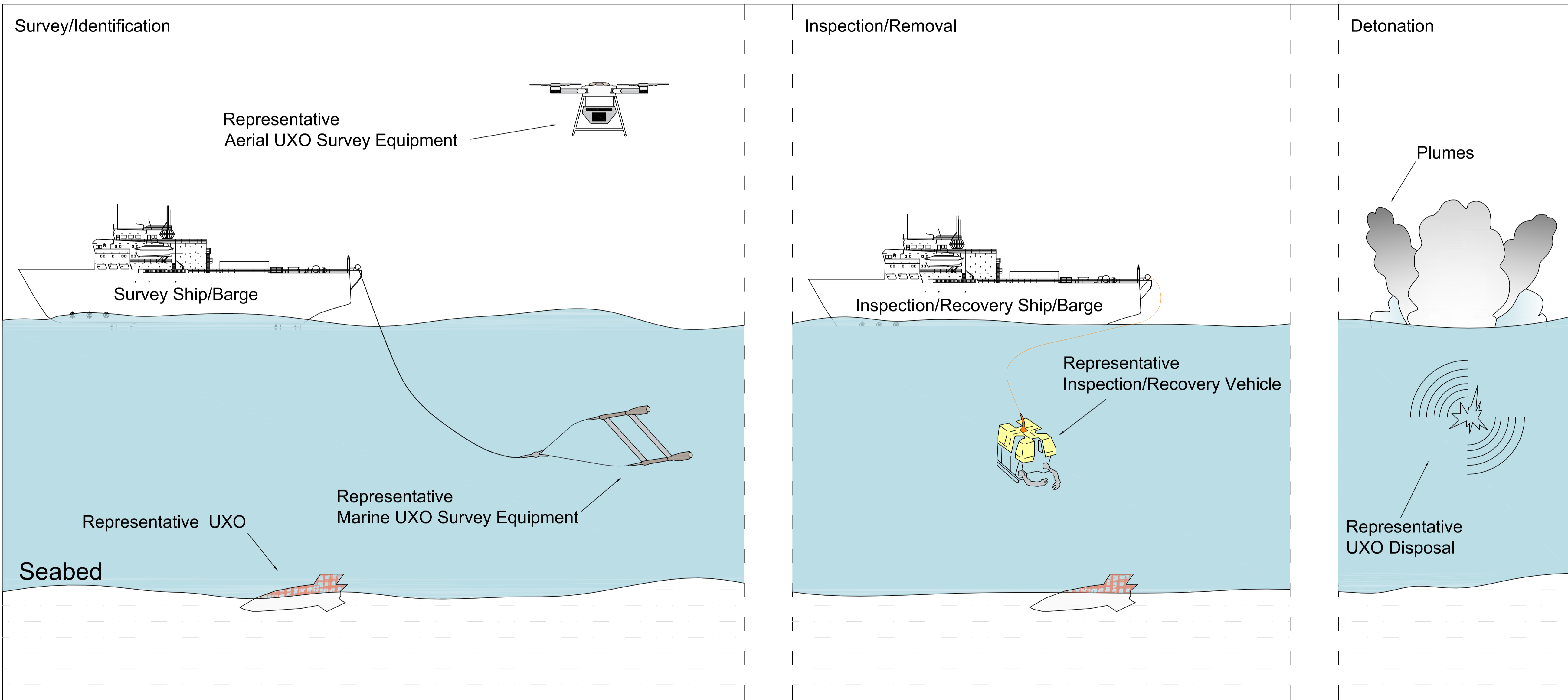
Drawing Category Name	Plan Title	Scheme	Drawing Numbers
Pre-Cable Installation Works	Illustration of unexploded ordnance, removal and detonation	Offshore Scheme	S42_M/TDD/SS/1030
	Illustration of boulder clearance	Offshore Scheme	S42_M/TDD/SS/1027
	Illustration of pre-lay grapnel run	Offshore Scheme	S42_M/TDD/SS/1028
	Illustration of indicative pre-sweeping and sidecasting	Offshore Scheme	S42_M/TDD/SS/1029

To assist with understanding these drawings please see the **Guide to Interacting with the Consultation Plans and Drawings**



ILLUSTRATION OF
UNEXPLODED ORDNANCE, REMOVAL AND DETONATION
SHEET 1 of 1

- Notes
- For statutory consultation purposes only**
1. Do not scale from this drawing.
 2. All dimensions are in metres/millimetres unless otherwise stated.
 3. This drawing is to be read in conjunction with all relevant documents and drawings.
 4. No unauthorised disclosure, storage or copying.
 5. Detailed design, including final dimensions, to be decided at a later date.
 6. UXO = Unexploded Ordnance
 7. For further explanation of these plans see the Guide to the Plans Document.
 8. For further information on construction please refer to the construction section of the Preliminary Environmental Impact Report, Volume 1, Part 1, Chapter 4



Legend

- Water
- Seabed Sediment

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

Issue	Date	Remarks	Drawn	Checked	Approved
A	24/10/2023	FINAL	AMN	FSS	KG

Title

THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
DESIGN DRAWINGS FOR CONSULTATION
ILLUSTRATION OF UNEXPLODED ORDNANCE, REMOVAL AND DETONATION
SHEET 1 of 1



Application Number

National Grid Drawing Reference
S42_M/TDD/SS/1030

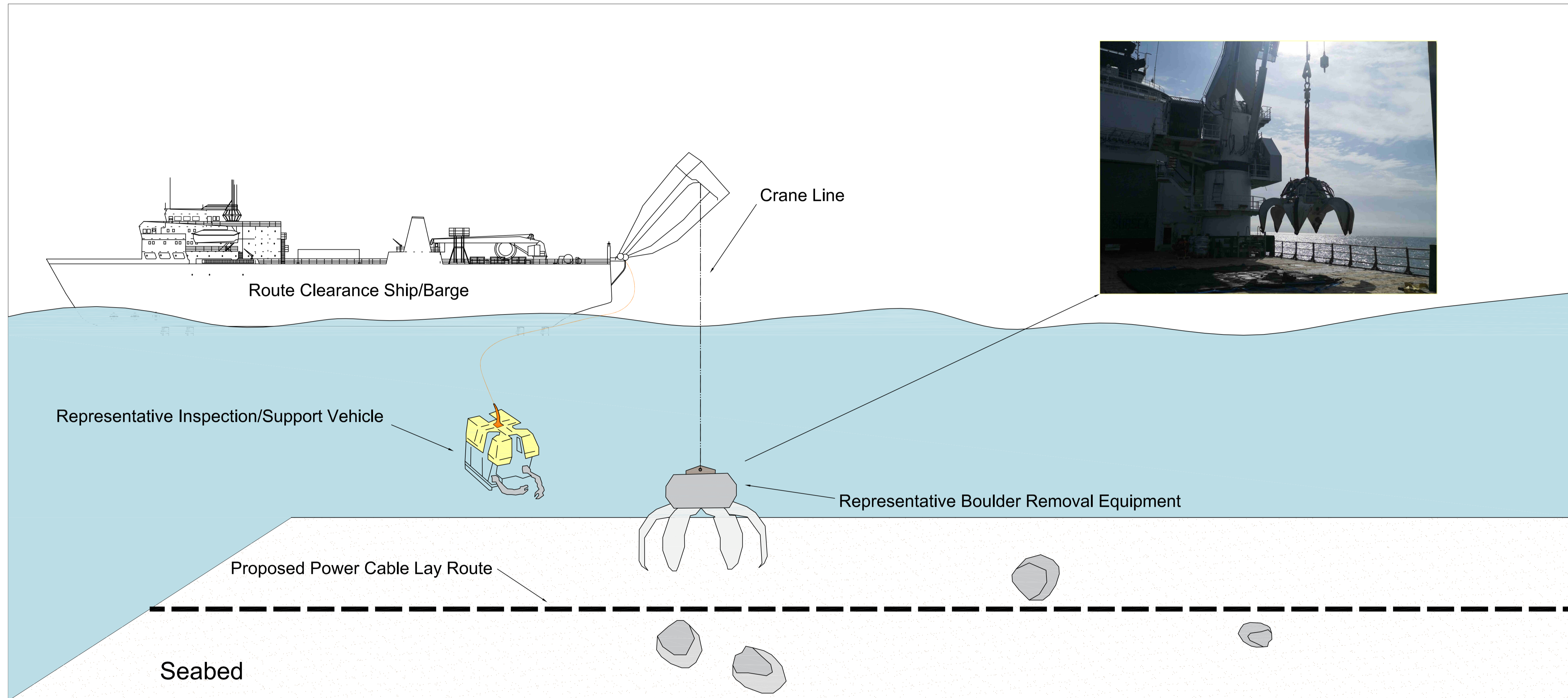
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NTS	A1	SHEET 1 OF 1	A





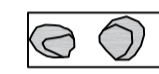
THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
DESIGN DRAWINGS FOR CONSULTATION

ILLUSTRATION OF BOULDER CLEARANCE
SHEET 1 of 1

- Notes
- For statutory consultation purposes only**
1. Do not scale from this drawing.
 2. All dimensions are in metres/millimetres unless otherwise stated.
 3. This drawing is to be read in conjunction with all relevant documents and drawings.
 4. No unauthorised disclosure, storage or copying.
 5. Detailed design, including final dimensions, to be decided at a later date.
 6. For further explanation of these plans see the Guide to the Plans Document.
 7. For further information on construction please refer to the construction section of the Preliminary Environmental Impact Report, Volume 1, Part 1, Chapter 4



Legend

-  Water
-  Seabed Sediment
-  Boulder

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

Issue	Date	Remarks	Drawn	Checked	Approved
A	24/10/2023	FINAL	AMN	FSS	KG

Title

THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
DESIGN DRAWINGS FOR CONSULTATION
ILLUSTRATION OF BOULDER CLEARANCE
SHEET 1 of 1



Application Number

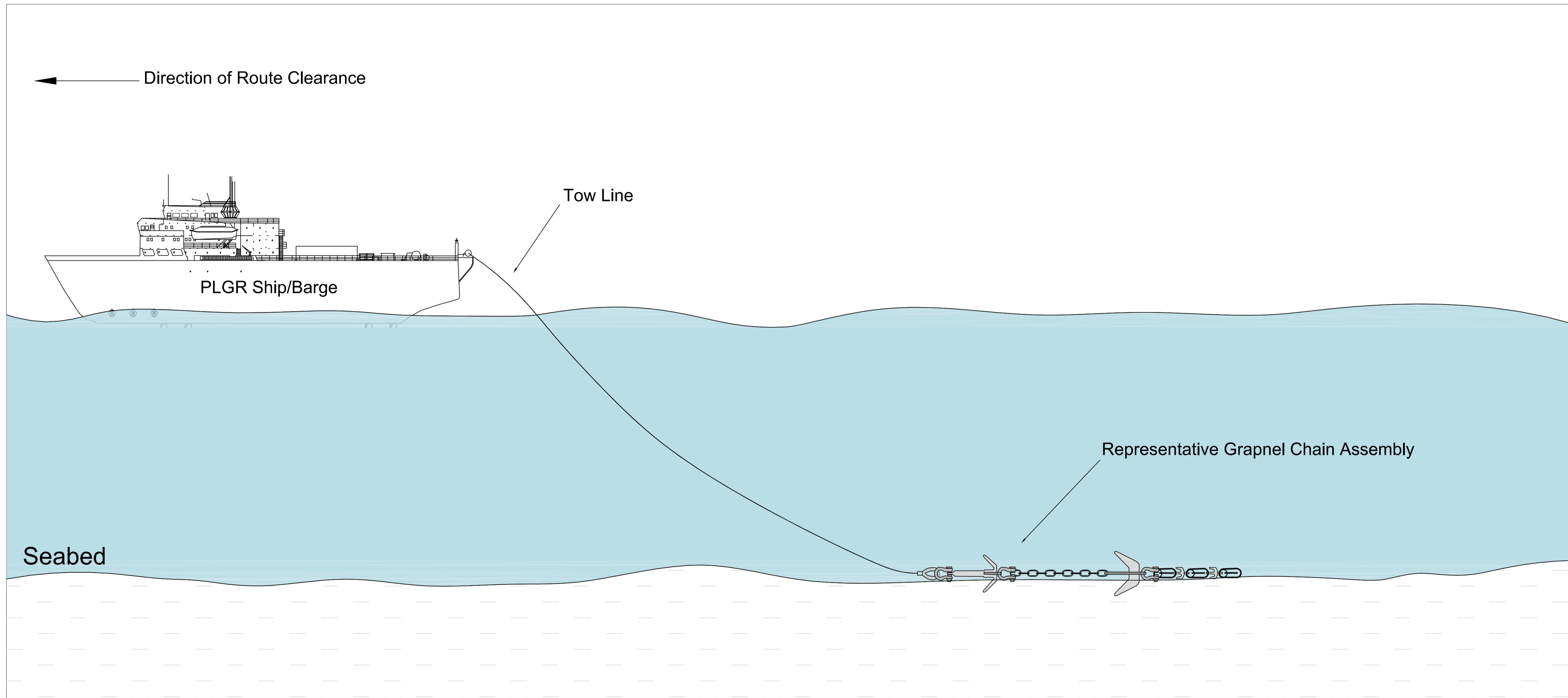
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S42_M/TDD/SS/1027

Scale	Sheet Size	Sheet	Issue
NTS	A1	SHEET 1 OF 1	A



ILLUSTRATION OF
PRE LAY GRAPNEL RUN
SHEET 1 of 1

- Notes**
For statutory consultation purposes only
1. Do not scale from this drawing.
 2. All dimensions are in metres/millimetres unless otherwise stated.
 3. This drawing is to be read in conjunction with all relevant documents and drawings.
 4. No unauthorised disclosure, storage or copying.
 5. Detailed design, including final dimensions, to be decided at a later date.
 6. PLGR = Pre Lay Grapnel Run
 7. For further explanation of these plans see the Guide to the Plans Document.
 8. For further information on construction please refer to the construction section of the Preliminary Environmental Impact Report, Volume 1, Part 1, Chapter 4



Legend

- Water
- Seabed Sediment

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

Issue	Date	Remarks	Drawn	Checked	Approved
A	24/10/2023	FINAL	AMN	FSS	KG

Title
THE NATIONAL GRID ELECTRICITY
TRANSMISSION PLC (SEA LINK) ORDER
DESIGN DRAWINGS FOR CONSULTATION
ILLUSTRATION OF
PRE LAY GRAPNEL RUN
SHEET 1 of 1



Application Number

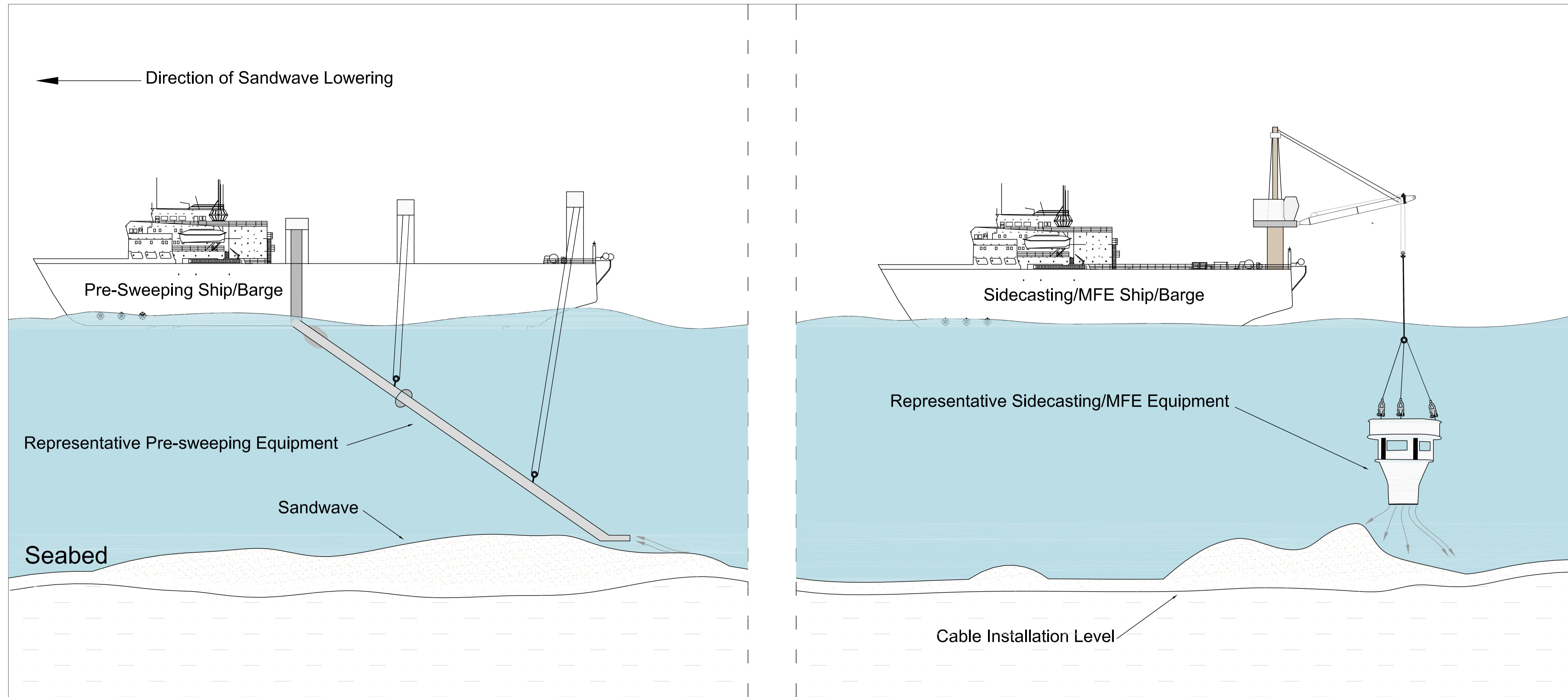
National Grid Drawing Reference
S42_M/TDD/SS/1028

Scale	Sheet Size	Sheet	Issue
NTS	A1	SHEET 1 OF 1	A



ILLUSTRATION OF
INDICATIVE PRE-SWEEPING AND SIDECASTING
SHEET 1 of 1

- Notes
- For statutory consultation purposes only**
1. Do not scale from this drawing.
 2. All dimensions are in metres/millimetres unless otherwise stated.
 3. This drawing is to be read in conjunction with all relevant documents and drawings.
 4. No unauthorised disclosure, storage or copying.
 5. Detailed design, including final dimensions, to be decided at a later date.
 6. MFE = Mass Flow Excavator.
 7. For further explanation of these plans see the Guide to the Plans Document.
 8. For further information on construction please refer to the construction section of the Preliminary Environmental Impact Report, Volume 1, Part 1, Chapter 4



Legend

- Water
- Sandwave

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

Issue	Date	Remarks	Drawn	Checked	Approved
A	24/10/2023	FINAL	AMN	FSS	KG

Title

THE NATIONAL GRID ELECTRICITY
TRANSMISSION PLC (SEA LINK) ORDER
DESIGN DRAWINGS FOR CONSULTATION
ILLUSTRATION OF
INDICATIVE PRE-SWEEPING AND SIDECASTING
SHEET 1 of 1



Application Number

National Grid Drawing Reference
S42_M/TDD/SS/1029

Scale	Sheet Size	Sheet	Issue
NTS	A1	SHEET 1 OF 1	A

02-02. Cable Installation Works

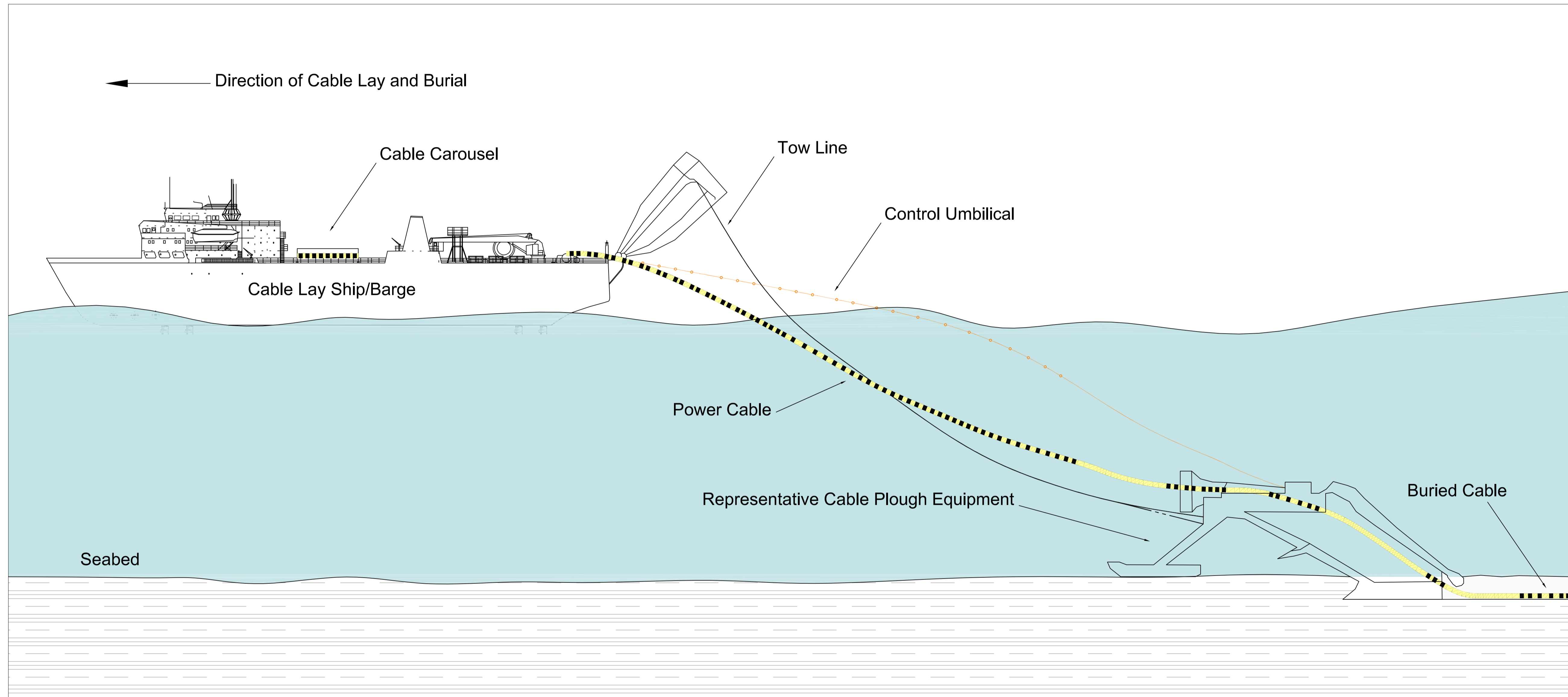
Drawing Category Name	Plan Title	Scheme	Drawing Numbers
Cable Installation Works	Illustration of simultaneous lay and burial	Offshore Scheme	S42_M/TDD/SS/1032
	Illustration of lay and post-lay burial	Offshore Scheme	S42_M/TDD/SS/1033
	Illustration of illustration of omega and inline joint	Offshore Scheme	S42_M/TDD/SS/1031

To assist with understanding these drawings please see the **Guide to Interacting with the Consultation Plans and Drawings**








ILLUSTRATION OF
SIMULTANEOUS LAY AND BURIAL
SHEET 1 of 1

- Notes**
For statutory consultation purposes only
1. Do not scale from this drawing.
 2. All dimensions are in metres/millimetres unless otherwise stated.
 3. This drawing is to be read in conjunction with all relevant documents and drawings.
 4. No unauthorised disclosure, storage or copying.
 5. Detailed design, including final dimensions, to be decided at a later date.
 6. For further explanation of these plans see the Guide to the Plans Document.
 7. For further information on construction please refer to the construction section of the Preliminary Environmental Impact Report, Volume 1, Part 1, Chapter 4



Legend

-  Water
-  Seabed Sediment
-  Control Umbilical of Burial Equipment
-  Tow Line of Burial Equipment
-  New HVDC Bundle

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

Issue	Date	Remarks	Drawn	Checked	Approved
A	24/10/2023	FINAL	AMN	FSS	KG

Title
THE NATIONAL GRID ELECTRICITY
TRANSMISSION PLC (SEA LINK) ORDER
DESIGN DRAWINGS FOR CONSULTATION
ILLUSTRATION OF
SIMULTANEOUS LAY AND BURIAL
SHEET 1 of 1



Application Number

National Grid Drawing Reference
S42_M/TDD/SS/1032

Scale	Sheet Size	Sheet	Issue
NTS	A1	SHEET 1 OF 1	A

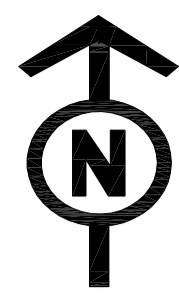
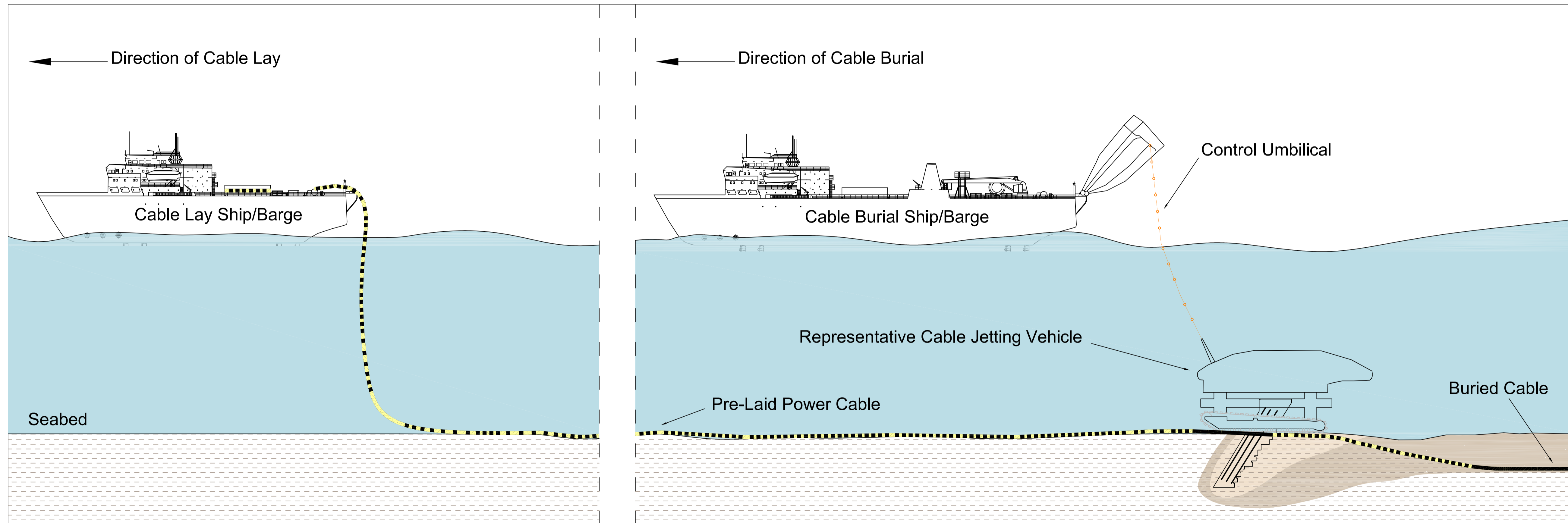


ILLUSTRATION OF
LAY AND POST-LAY BURIAL
SHEET 1 of 1

- Notes**
For statutory consultation purposes only
1. Do not scale from this drawing.
 2. All dimensions are in metres/millimetres unless otherwise stated.
 3. This drawing is to be read in conjunction with all relevant documents and drawings.
 4. No unauthorised disclosure, storage or copying.
 5. Detailed design, including final dimensions, to be decided at a later date.
 6. For further explanation of these plans see the Guide to the Plans Document.
 7. For further information on construction please refer to the construction section of the Preliminary Environmental Impact Report, Volume 1, Part 1, Chapter 4



Legend

- Water
- Seabed Sediment
- Fluidization Area
- Sedimentation Area
- Control Umbilical of Burial Equipment
- New HVDC Bundle

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

Issue	Date	Remarks	Drawn	Checked	Approved
A	24/10/2023	FINAL	AMN	FSS	KG

Title
THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
DESIGN DRAWINGS FOR CONSULTATION
ILLUSTRATION OF
LAY AND POST-LAY BURIAL
SHEET 1 of 1



Application Number

National Grid Drawing Reference
S42_M/TDD/SS/1033

Scale	Sheet Size	Sheet	Issue
NTS	A1	SHEET 1 OF 1	A

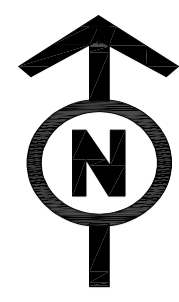


ILLUSTRATION OF
OMEGA AND INLINE JOINT
SHEET 1 of 1

Notes
For statutory consultation purposes only

1. Do not scale from this drawing.
2. All dimensions are in metres/millimetres unless otherwise stated.
3. This drawing is to be read in conjunction with all relevant documents and drawings.
4. No unauthorised disclosure, storage or copying.
5. Detailed design, including final dimensions, to be decided at a later date.
6. 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.
7. 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 above.
8. For further explanation of these plans see the Guide to the Plans Document.
9. For further information on construction please refer to the construction section of the Preliminary Environmental Impact Report, Volume 1, Part 1, Chapter 4

Omega Joint



Offshore Field Joint

Bend Restrictors




Cable Bight

Inline Joint

Power Cable

Seabed

Legend

-  Seabed Sediment
-  New HVDC Bundle
-  Inline/Omega Joint

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

Issue	Date	Remarks	Drawn	Checked	Approved
A	24/10/2023	FINAL	AMN	FSS	KG

Title
THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
DESIGN DRAWINGS FOR CONSULTATION
ILLUSTRATION OF
OMEGA AND INLINE JOINT
SHEET 1 of 1



Application Number

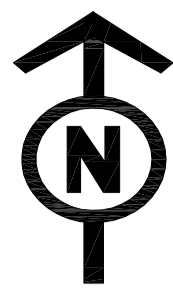
National Grid Drawing Reference
S42_M/TDD/SS/1031

Scale	Sheet Size	Sheet	Issue
NTS	A1	SHEET 1 OF 1	A

02-03. Cable Configuration and Trench Profiles

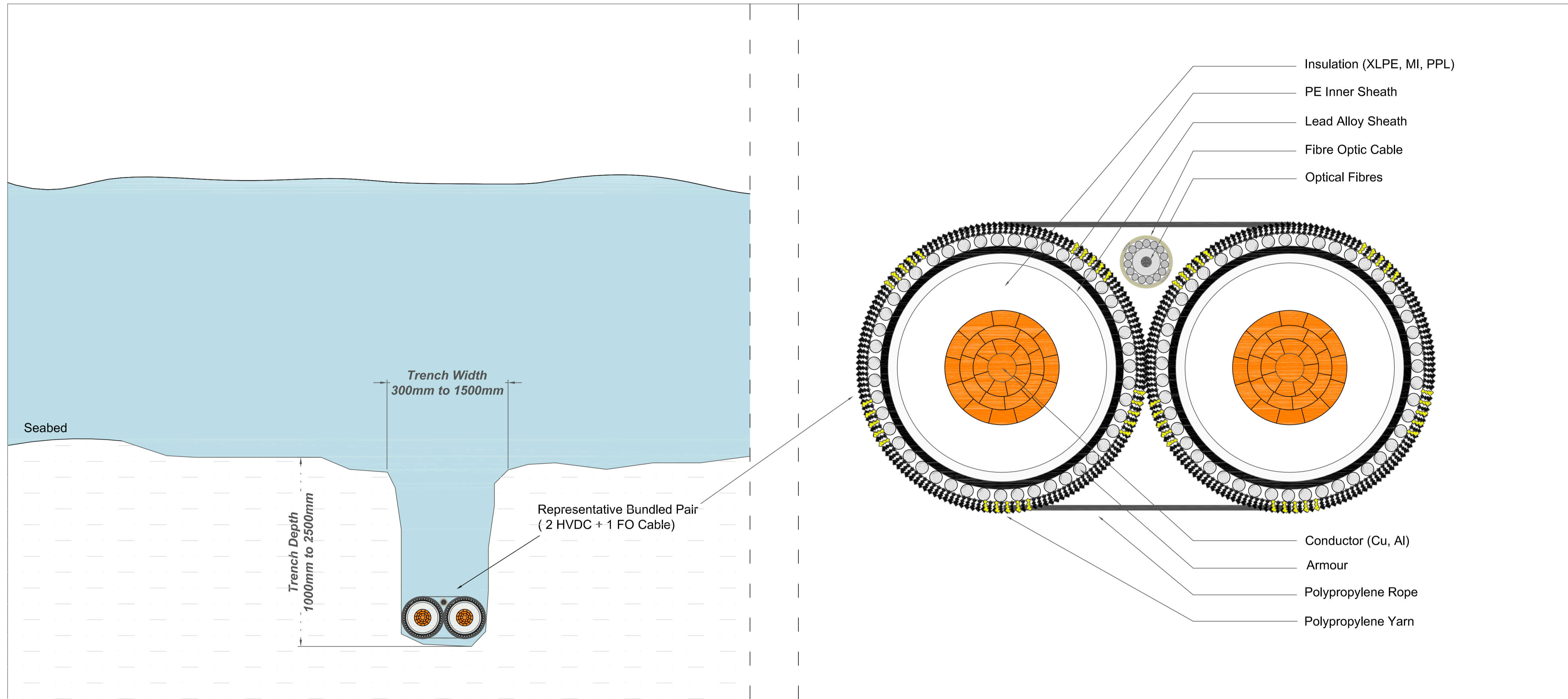
Drawing Category Name	Plan Title	Scheme	Drawing Numbers
Cable Configuration and Trench Profiles	Illustration of bundled cable profile/ configuration	Offshore Scheme	S42_M/TDD/SS/1026
	Illustration of typical marine trench profiles	Offshore Scheme	S42_M/TDD/SS/1036

To assist with understanding these drawings please see the **Guide to Interacting with the Consultation Plans and Drawings**



THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 ILLUSTRATION OF
 HVDC BUNDLED CABLE PROFILE / CONFIGURATION
 SHEET 1 of 1

- Notes
- For statutory consultation purposes only**
1. Do not scale from this drawing.
 2. All dimensions are in metres/millimetres unless otherwise stated.
 3. This drawing is to be read in conjunction with all relevant documents and drawings.
 4. No unauthorised disclosure, storage or copying.
 5. Detailed design, including final dimensions, to be decided at a later date.
 6. The possibility of 'V' shaped trench due to shallow soil types and/or trench collapse cannot be ruled out.
 7. For further explanation of these plans see the Guide to the Plans Document.
 8. For further information on construction please refer to the construction section of the Preliminary Environmental Impact Report, Volume 1, Part 1, Chapter 4



Legend

- Water
- Sub-seabed Sediment

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

Issue	Date	Remarks	Drawn	Checked	Approved
A	24/10/2023	FINAL	AMN	FSS	KG

Title
 THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 ILLUSTRATION OF
 HVDC BUNDLED CABLE PROFILE / CONFIGURATION
 SHEET 1 of 1



Application Number

National Grid Drawing Reference
 S42_M/TDD/ISS/1026

Scale	Sheet Size	Sheet	Issue
NTS	A1	SHEET 1 OF 1	A

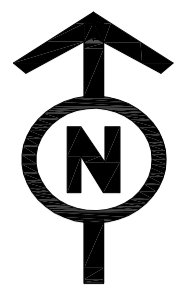
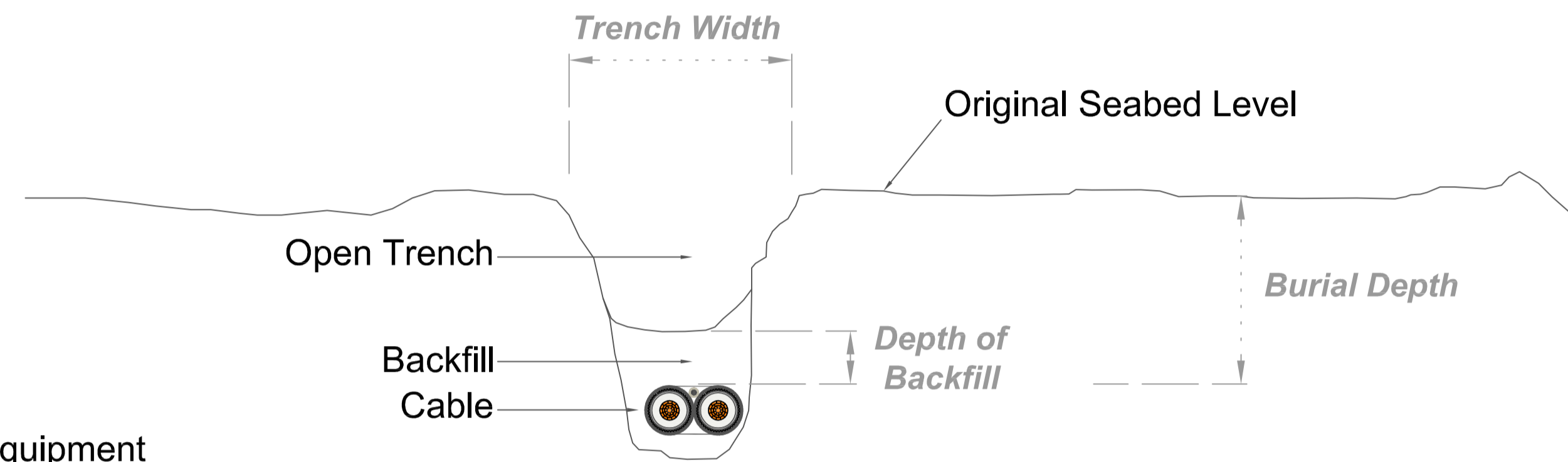


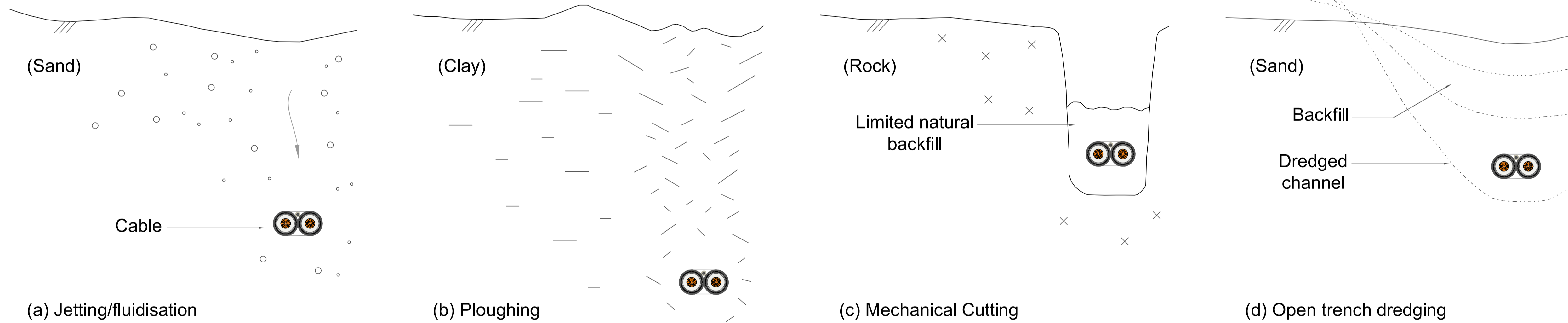
ILLUSTRATION OF
TYPICAL MARINE TRENCH PROFILES
SHEET 1 of 1

- Notes
- For statutory consultation purposes only**
1. Do not scale from this drawing.
 2. All dimensions are in metres/millimetres unless otherwise stated.
 3. This drawing is to be read in conjunction with all relevant documents and drawings.
 4. No unauthorised disclosure, storage or copying.
 5. Detailed design, including final dimensions, to be decided at a later date.
 6. For further explanation of these plans see the Guide to the Plans Document.
 7. For further information on construction please refer to the construction section of the Preliminary Environmental Impact Report, Volume 1, Part 1, Chapter 4

Typical Trench Profile



Trench profiles from different installation equipment



(after: *Subsea power cables in shallow water, DNVGL-RP-0360*)

Legend

- Sand
- Clay
- Rock

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

Issue	Date	Remarks	Drawn	Checked	Approved
A	24/10/2023	FINAL	AMN	FSS	KG

Title
THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
DESIGN DRAWINGS FOR CONSULTATION
ILLUSTRATION OF
TYPICAL MARINE TRENCH PROFILES
SHEET 1 of 1



Application Number: -

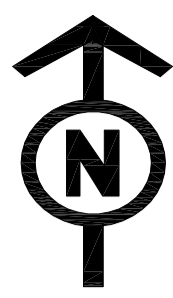
National Grid Drawing Reference: S42_M/TDD/SS/1036

Scale	Sheet Size	Sheet	Issue
NTS	A1	SHEET 1 OF 1	A

02-04. Cable Crossings and Protection

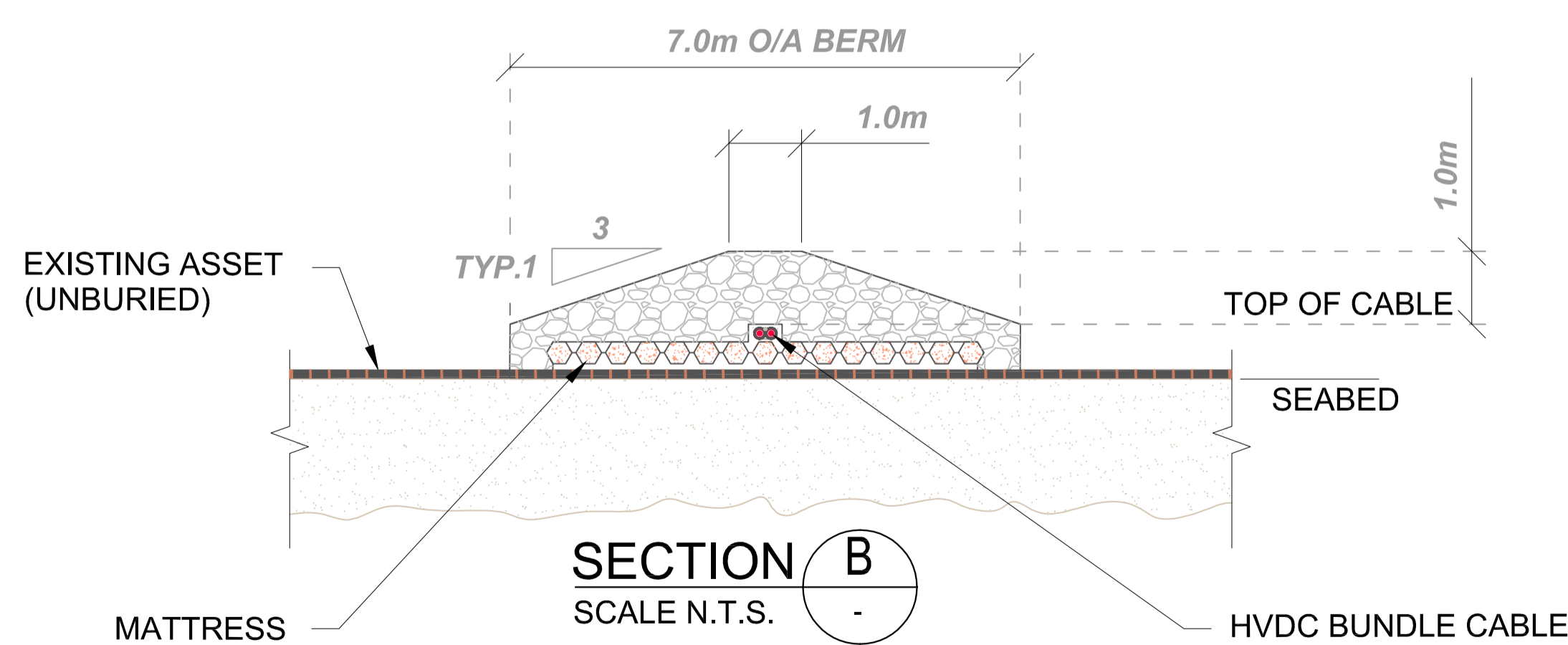
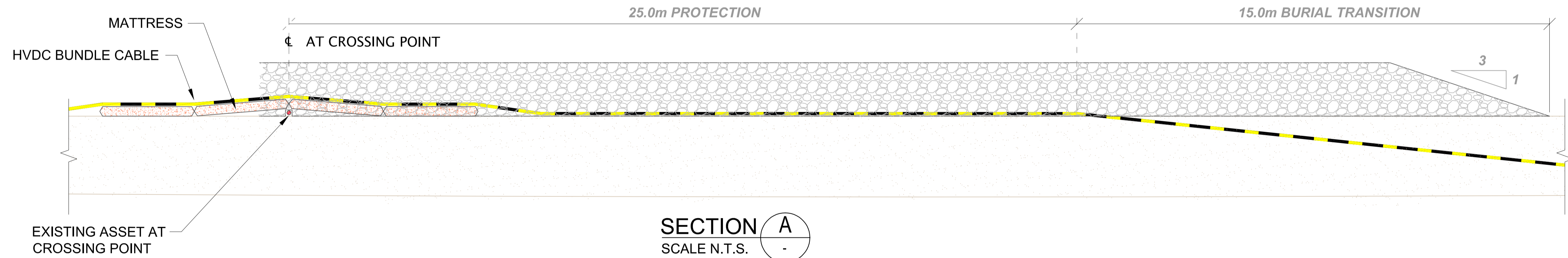
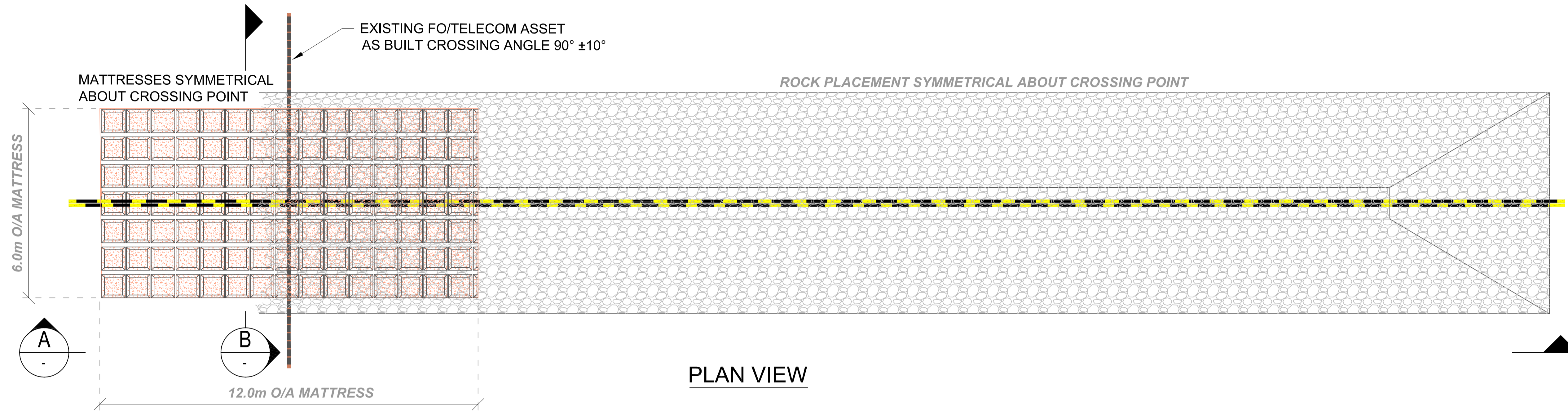
Drawing Category Name	Plan Title	Scheme	Drawing Numbers
Cable Crossings and Protection	Indicative HVDC bundled cable crossing over unburied fibre optic/telecoms asset	Offshore Scheme	S42_M/TDD/SS/1021
	Indicative HVDC bundled cable crossing over buried FO/telecoms asset	Offshore Scheme	S42_M/TDD/SS/1022
	Indicative HVDC bundled cable crossing over buried power cable asset	Offshore Scheme	S42_M/TDD/SS/1023
	Indicative HVDC bundled cable crossing over pre lay berm	Offshore Scheme	S42_M/TDD/SS/1024
	Indicative rock berm schematics pre lay and post lay	Offshore Scheme	S42_M/TDD/SS/1025
	Illustration of cable protective systems	Offshore Scheme	S42_M/TDD/SS/1034
	Illustration of rock placement sections	Offshore Scheme	S42_M/TDD/SS/1035

To assist with understanding these drawings please see the **Guide to Interacting with the Consultation Plans and Drawings**



INDICATIVE HVDC BUNDLED CABLE CROSSING
OVER UNBURIED FO/TELECOMS ASSET
SHEET 1 of 1

- Notes**
For statutory consultation purposes only
1. Do not scale from this drawing.
 2. All dimensions are in metres/millimetres unless otherwise stated.
 3. This drawing is to be read in conjunction with all relevant documents and drawings.
 4. No unauthorised disclosure, storage or copying.
 5. Detailed design, including final dimensions, to be agreed during crossing agreement discussions, to be agreed during crossing agreement discussions with third parties including burial technique.
 6. For further explanation of these plans see the Guide to the Plans Document.
 7. For further information on construction please refer to the construction section of the Preliminary Environmental Impact Report, Volume 1, Part 1, Chapter 4



Legend

- Post Lay Rock Berm
- Mattress (Plan View)
- Mattress (Section A)
- Mattress (Section B)
- Existing Asset
- New HVDC Bundle

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

Issue	Date	Remarks	Drawn	Checked	Approved
A	24/10/2023	FINAL	AMN	FSS	KG

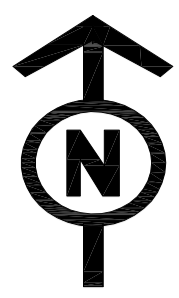
Title
THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
DESIGN DRAWINGS FOR CONSULTATION
INDICATIVE HVDC BUNDLED CABLE CROSSING
OVER UNBURIED FO/TELECOMS ASSET
SHEET 1 of 1

nationalgrid

Application Number

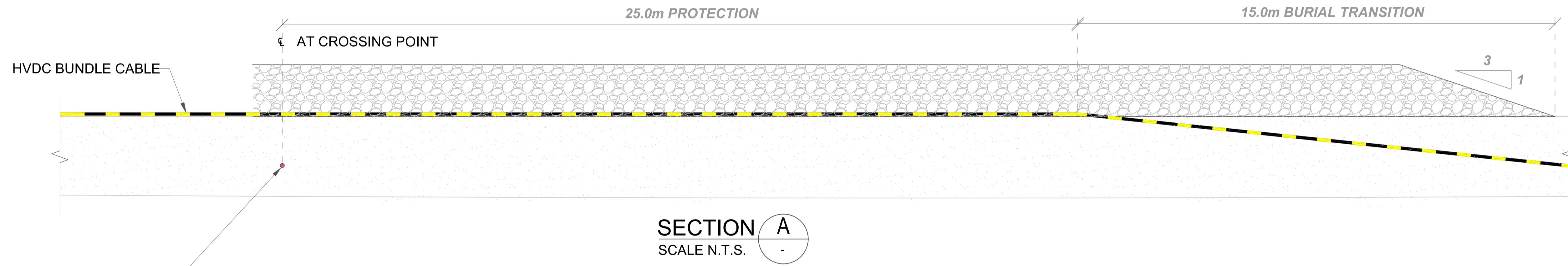
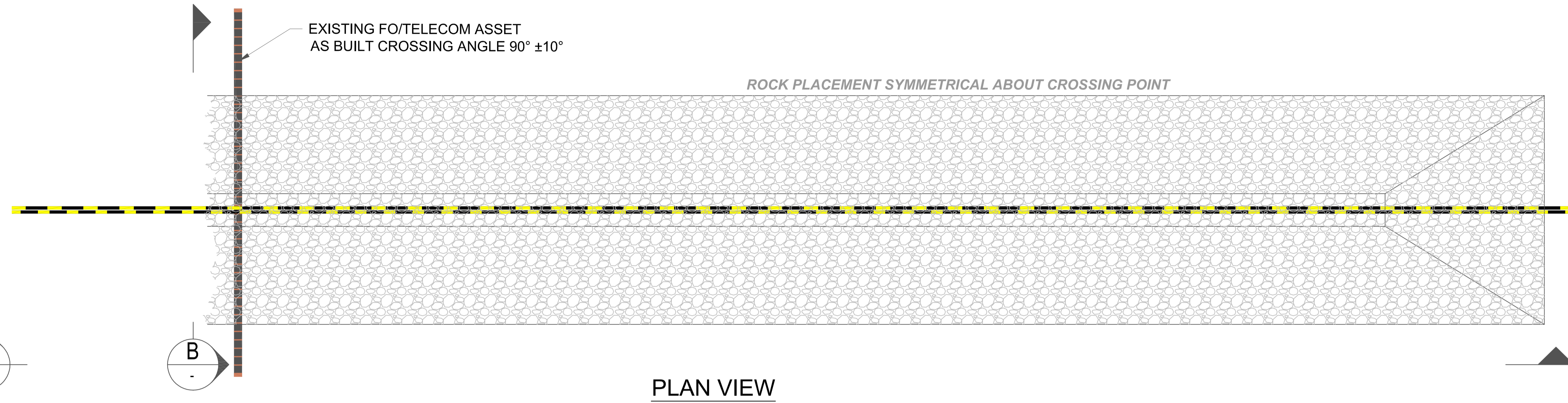
National Grid Drawing Reference
S42_M/TDD/SS/1021

Scale	Sheet Size	Sheet	Issue
NTS	A1	SHEET 1 OF 1	A



THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 INDICATIVE HVDC BUNDLED CABLE CROSSING
 OVER BURIED FO/TELECOMS ASSET
 SHEET 1 of 1

- Notes
- For statutory consultation purposes only**
- Do not scale from this drawing.
 - All dimensions are in metres/millimetres unless otherwise stated.
 - 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 agreed during crossing agreement discussions with third parties including burial technique.
 - For further explanation of these plans see the Guide to the Plans Document.
 - For further information on construction please refer to the construction section of the Preliminary Environmental Impact Report, Volume 1, Part 1, Chapter 4



Legend

- Post Lay Rock Berm
- Existing Asset
- New HVDC Bundle

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

Issue	Date	Remarks	Drawn	Checked	Approved
A	24/10/2023	FINAL	AMN	FSS	KG

Title

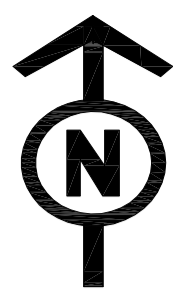
THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 INDICATIVE HVDC BUNDLED CABLE CROSSING
 OVER BURIED FO/TELECOMS ASSET
 SHEET 1 of 1



Application Number

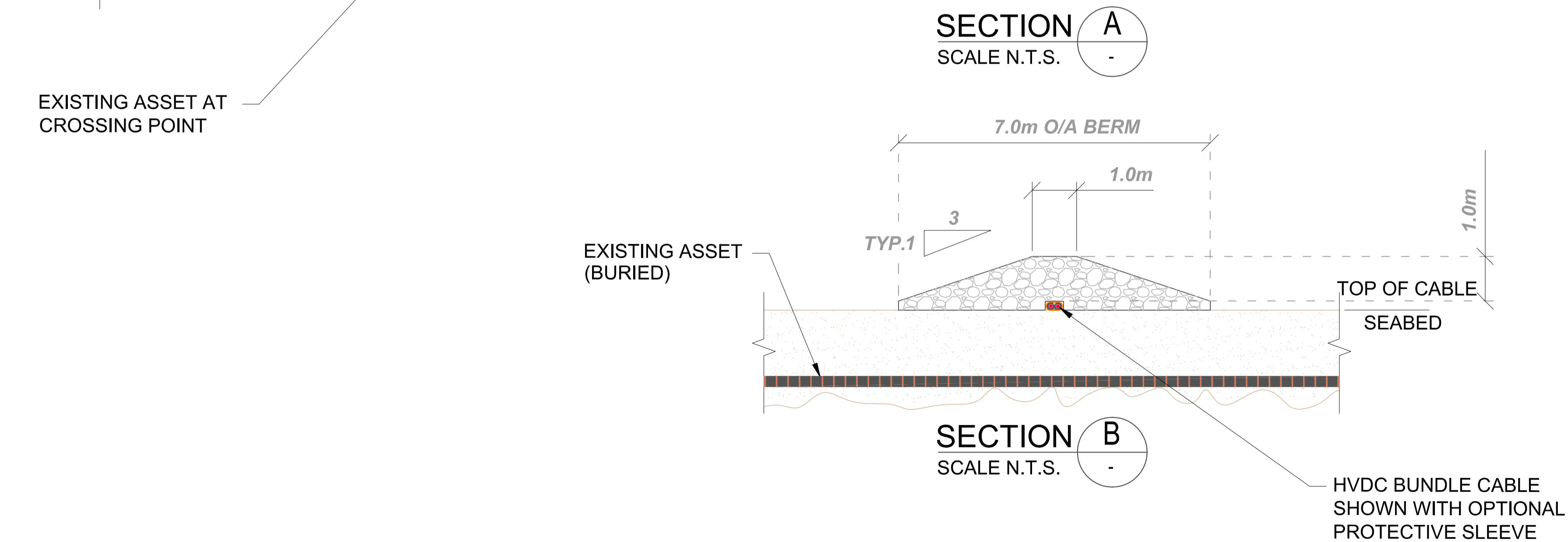
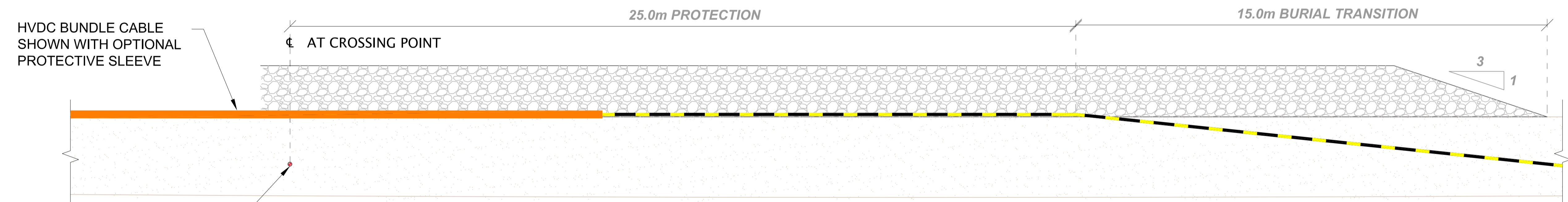
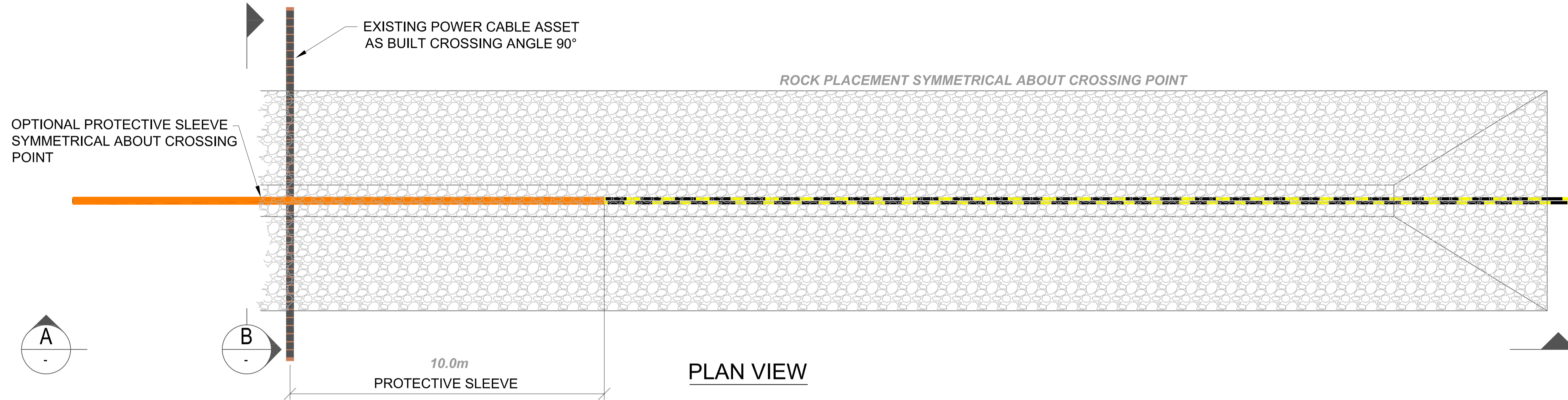
National Grid Drawing Reference
 S42_M/TDD/ISS/1022

Scale	Sheet Size	Sheet	Issue
NTS	A1	SHEET 1 OF 1	A



THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 INDICATIVE HVDC BUNDLED CABLE CROSSING
 OVER BURIED POWER CABLE ASSET
 SHEET 1 of 1

- Notes**
 For statutory consultation purposes only
1. Do not scale from this drawing.
 2. All dimensions are in metres/millimetres unless otherwise stated.
 3. This drawing is to be read in conjunction with all relevant documents and drawings.
 4. No unauthorised disclosure, storage or copying.
 5. Detailed design, including final dimensions, to be agreed during crossing agreement discussions with third parties including burial technique.
 6. Minimum vertical offset between the crossing power cables to be agreed as part of crossing agreement.
 7. Protective sleeves can be added $\pm 10m$ from crossing point, if required as part of crossing agreement.
 8. For further explanation of these plans see the Guide to the Plans Document.
 7. For further information on construction please refer to the construction section of the Preliminary Environmental Impact Report, Volume 1, Part 1, Chapter 4



Legend

- Post Lay Rock Berm
- Existing Asset
- New HVDC Bundle
- Protective Sleeve

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

Issue	Date	Remarks	Drawn	Checked	Approved
A	24/10/2023	FINAL	AMN	FSS	KG

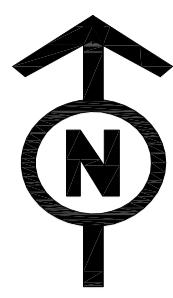
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 TRANSMISSION PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 INDICATIVE HVDC BUNDLED CABLE CROSSING
 OVER BURIED POWER CABLE ASSET
 SHEET 1 of 1



Application Number

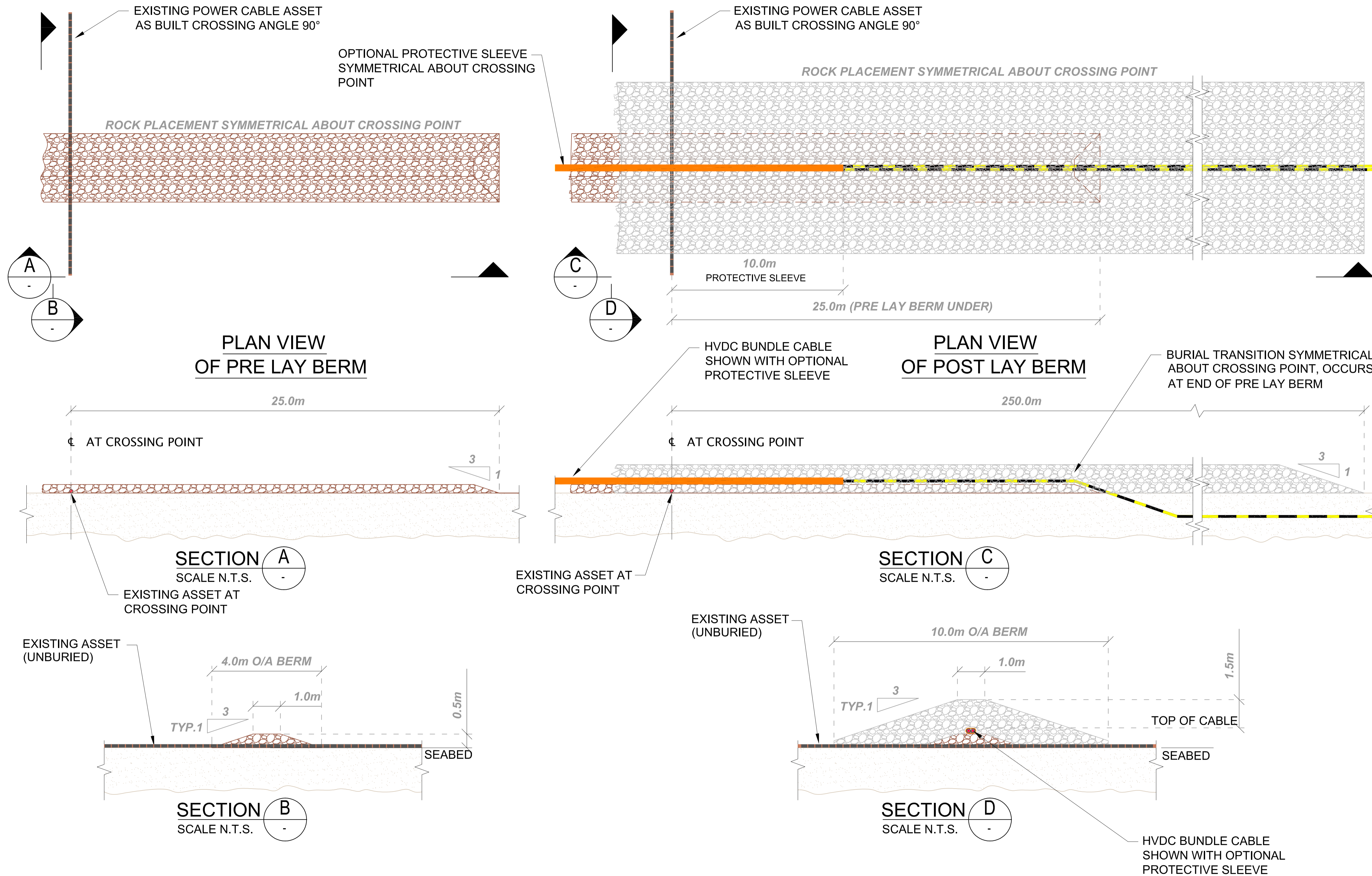
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Scale	Sheet Size	Sheet	Issue
NTS	A1	SHEET 1 OF 1	A



THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 INDICATIVE HVDC BUNDLED CABLE CROSSING
 OVER PRE LAY BERM
 SHEET 1 of 1

- Notes**
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 2. All dimensions are in metres/millimetres unless otherwise stated.
 3. This drawing is to be read in conjunction with all relevant documents and drawings.
 4. No unauthorised disclosure, storage or copying.
 5. Detailed design, including final dimensions, to be agreed during crossing agreement discussions with third parties including burial technique.
 6. Protective sleeves can be added $\pm 10m$ from crossing point, if required as part of crossing agreement.
 7. For further explanation of these plans see the Guide to the Plans Document.
 8. For further information on construction please refer to the construction section of the Preliminary Environmental Impact Report, Volume 1, Part 1, Chapter 4



Legend

- Post Lay Rock Berm
- Pre Lay Rock Berm
- Existing Asset
- New HVDC Bundle
- Protective Sleeve

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

Issue	Date	Remarks	Drawn	Checked	Approved
A	24/10/2023	For Information	AMN	FSS	KG

Title
 THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 INDICATIVE HVDC BUNDLED CABLE CROSSING
 OVER PRE LAY BERM
 SHEET 1 of 1

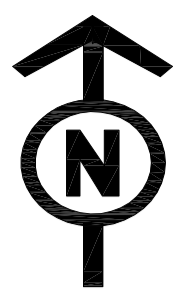


Application Number

National Grid Drawing Reference

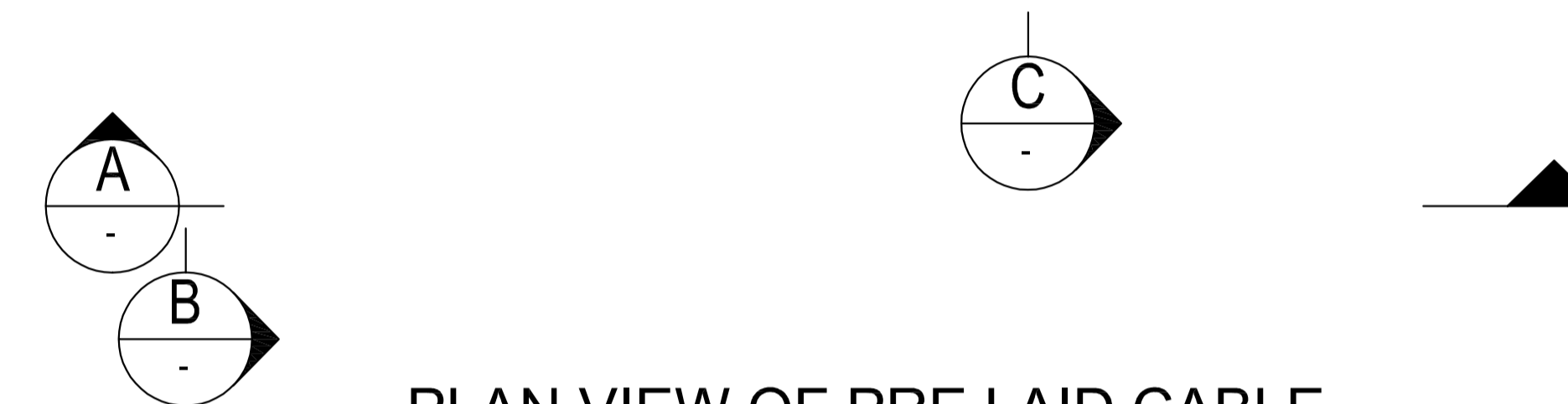
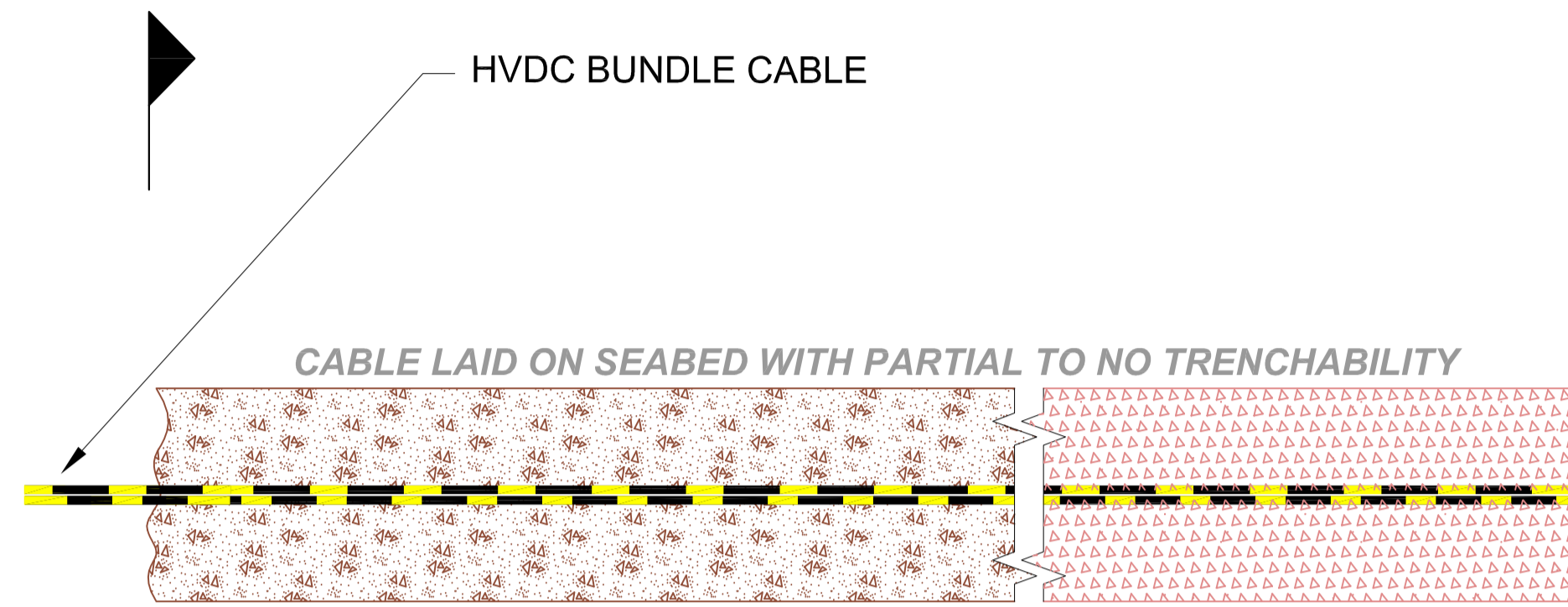
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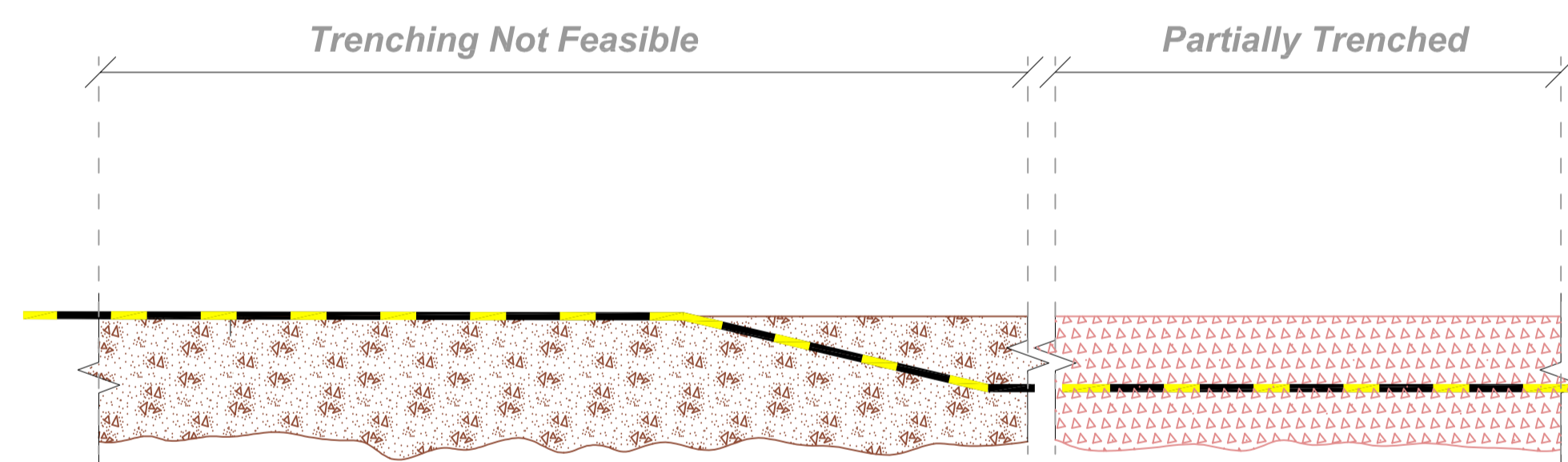


THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 INDICATIVE ROCK BERM SCHEMATICS
 PRE LAY AND POST LAY
 SHEET 1 of 1

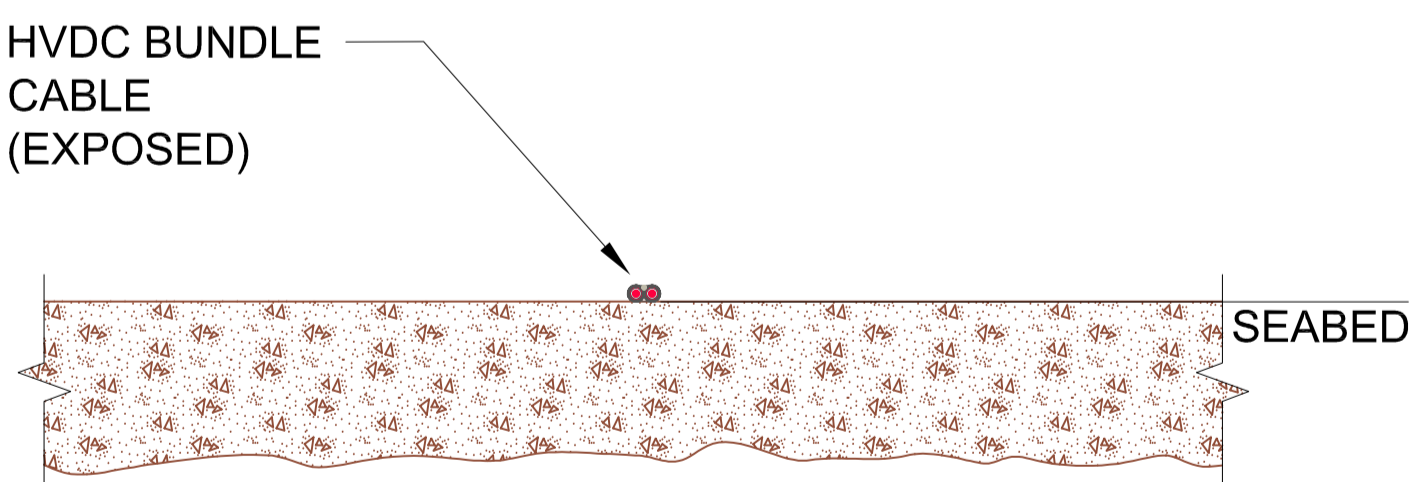
- Notes
- For statutory consultation purposes only**
1. Do not scale from this drawing.
 2. All dimensions are in metres/millimetres unless otherwise stated.
 3. This drawing is to be read in conjunction with all relevant documents and drawings.
 4. No unauthorised disclosure, storage or copying.
 5. Detailed design, including final dimensions, to be agreed during crossing agreement discussions with third parties including burial technique.
 6. Height of berms dependent on water depth, grade of rock & tonnage of rock required for protection.
 7. For further explanation of these plans see the Guide to the Plans Document.
 8. For further information on construction please refer to the construction section of the Preliminary Environmental Impact Report, Volume 1, Part 1, Chapter 4



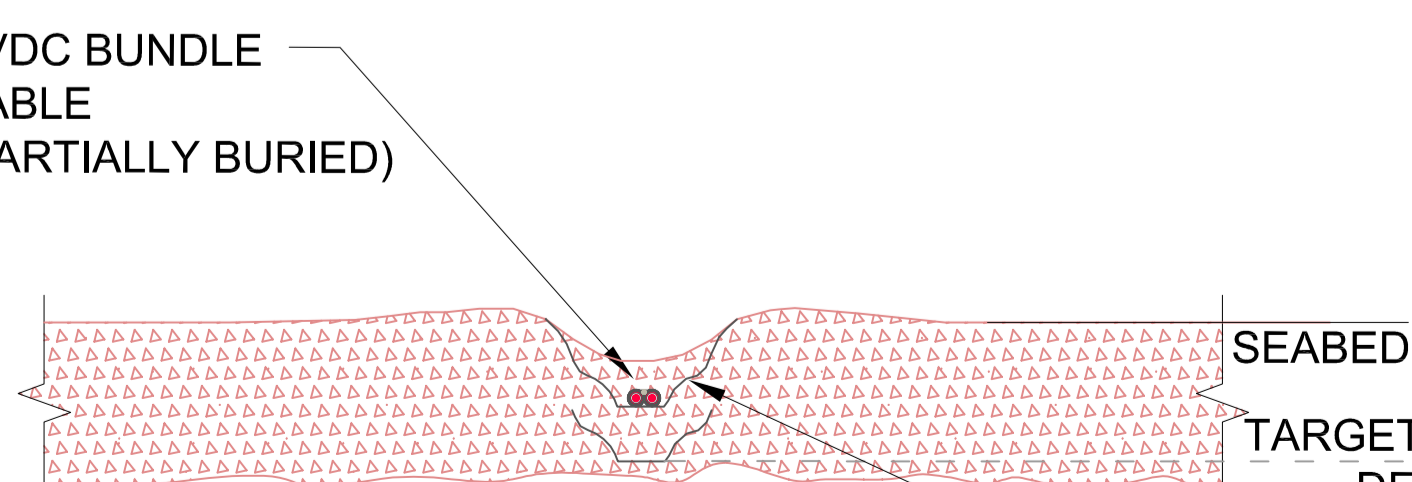
PLAN VIEW OF PRE LAID CABLE
 TARGET TRENCH DEPTH NOT ACHIEVED



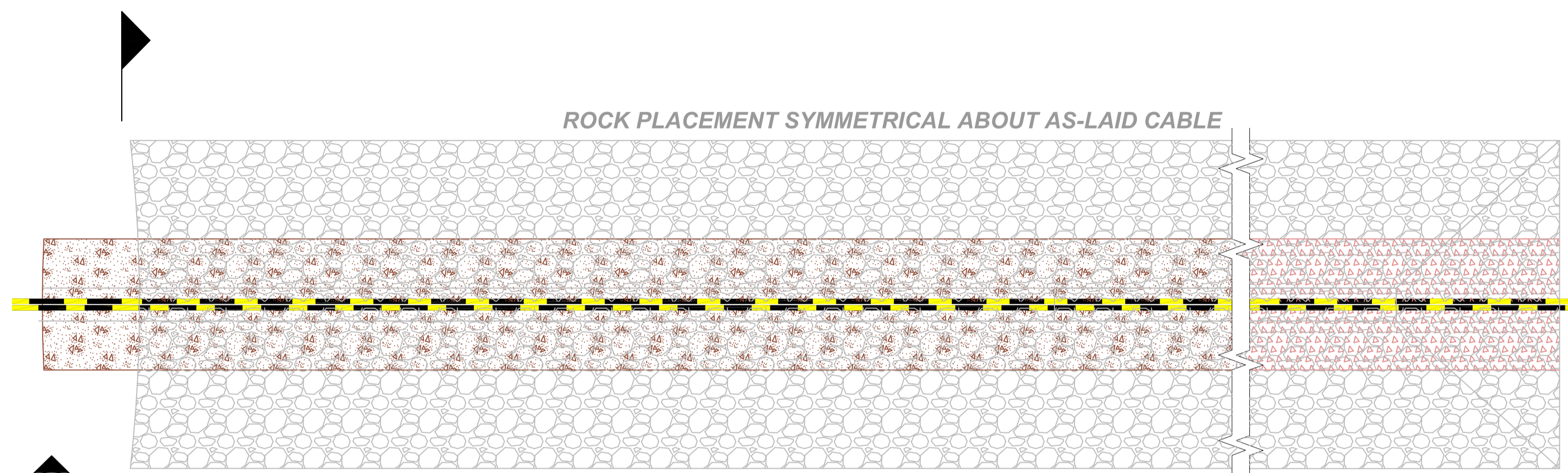
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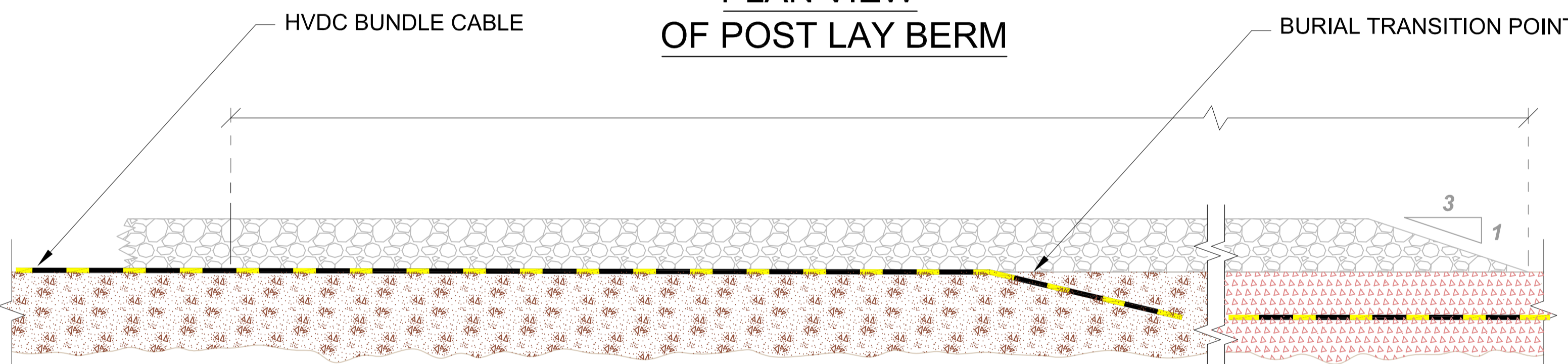
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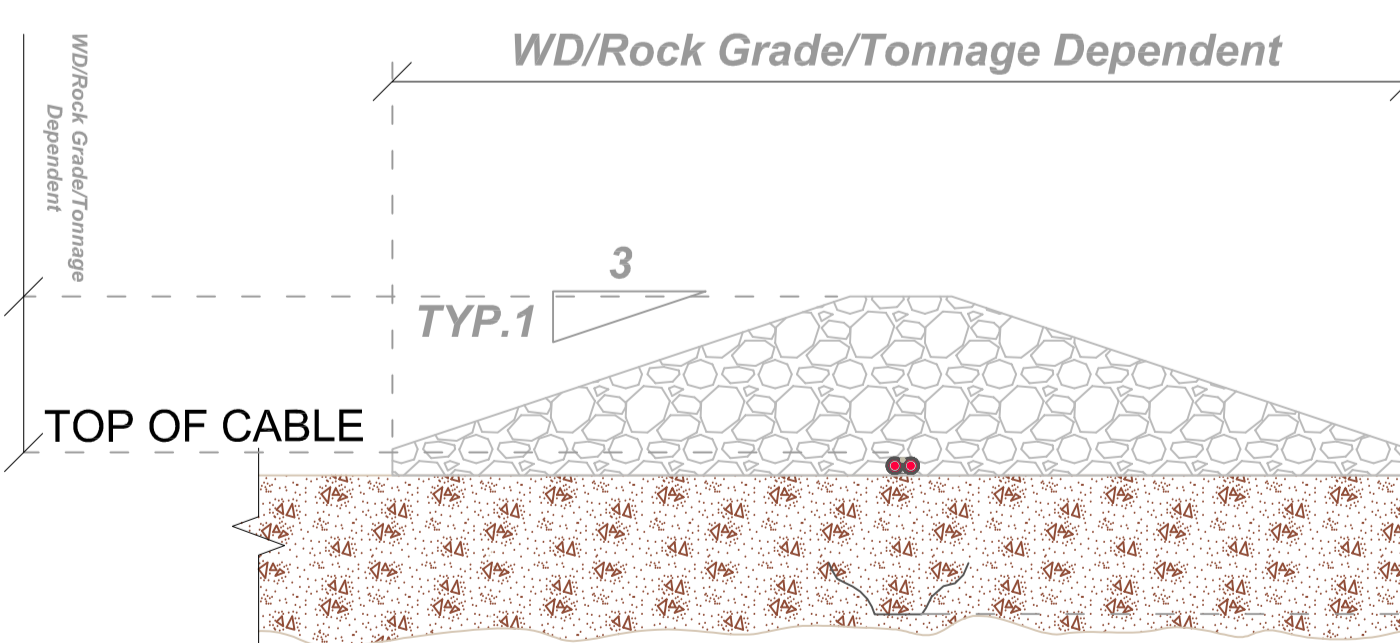
SECTION C
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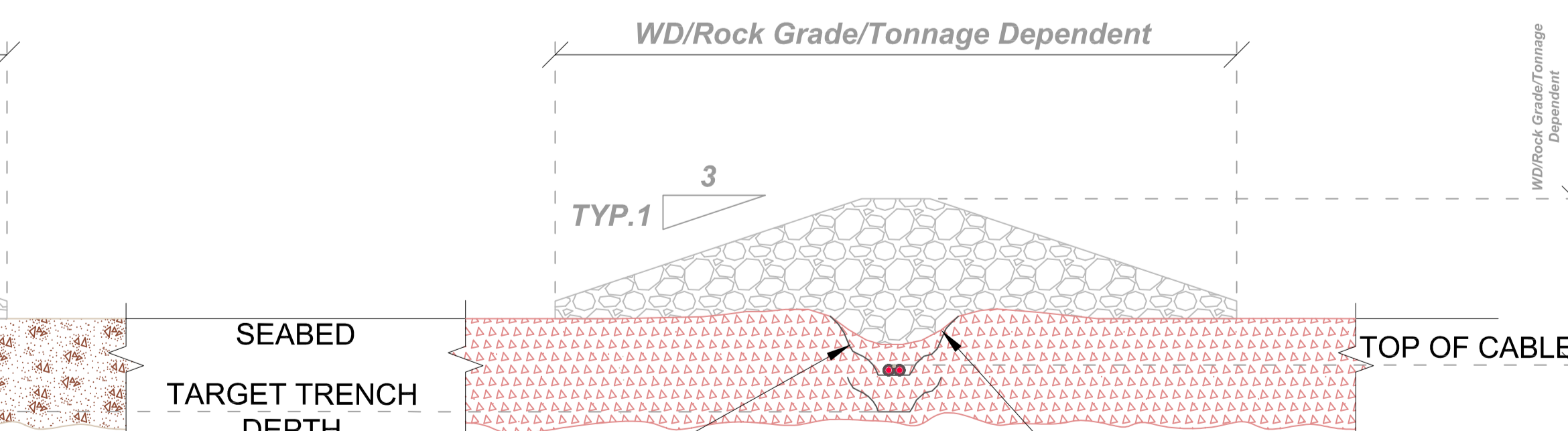
PLAN VIEW OF POST LAY BERM



SECTION D
 SCALE N.T.S.



SECTION E
 SCALE N.T.S.



SECTION F
 SCALE N.T.S.

Legend

- Post Lay Rock Berm
- Non-Trenchable Soil
- Semi-Trenchable Soil
- New HVDC Bundle

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

Issue	Date	Remarks	Drawn	Checked	Approved
A	24/10/2023	FINAL	AMN	FSS	KG

THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
 DESIGN DRAWINGS FOR CONSULTATION
 INDICATIVE ROCK BERM SCHEMATICS
 PRE LAY AND POST LAY
 SHEET 1 of 1



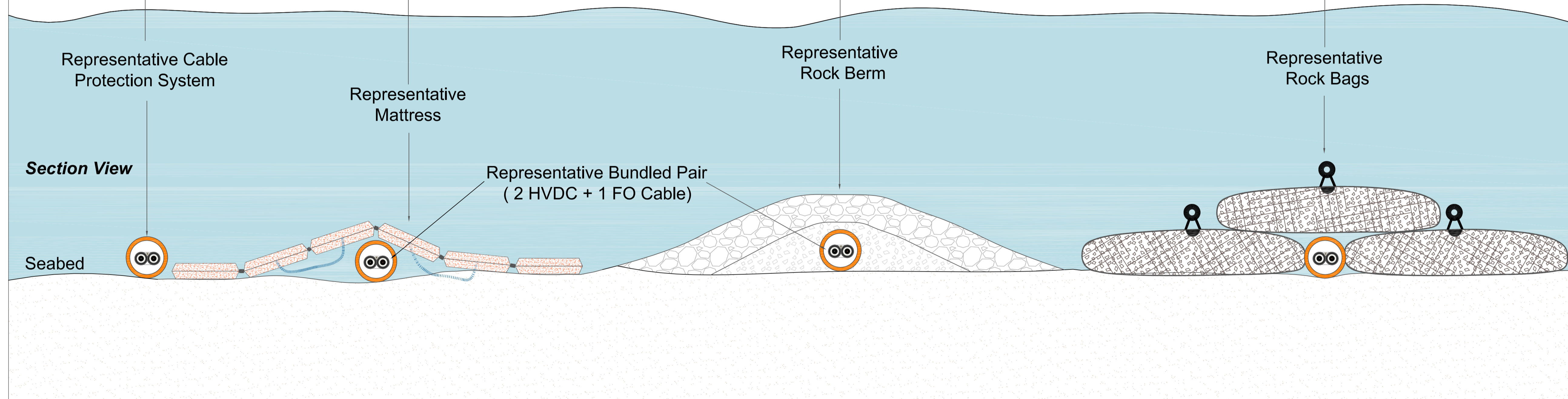
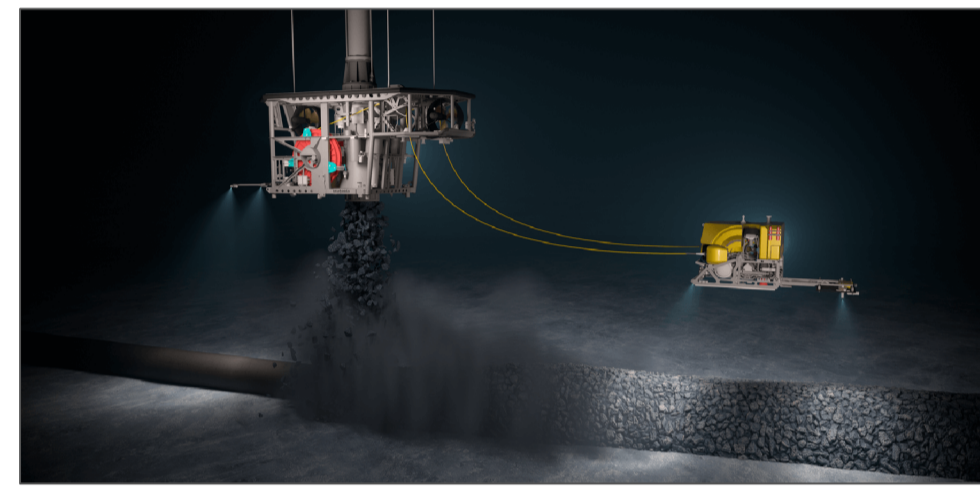
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Scale	Sheet Size	Sheet	Issue	
NTS	A1	SHEET 1 OF 1	A	



ILLUSTRATION OF
CABLE PROTECTION SYSTEMS
SHEET 1 of 1

- Notes
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 6. For further explanation of these plans see the Guide to the Plans Document.
 7. For further information on construction please refer to the construction section of the Preliminary Environmental Impact Report, Volume 1, Part 1, Chapter 4

Representative images of various Cable Protection Methodologies



Legend

- Water
- Seabed Sediment
- Mattress
- Rock Berm
- Rock Bag

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

Issue	Date	Remarks	Drawn	Checked	Approved
A	24/10/2023	FINAL	AMN	FSS	KG

Title

THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
DESIGN DRAWINGS FOR CONSULTATION
ILLUSTRATION OF
CABLE PROTECTION SYSTEMS
SHEET 1 of 1



Application Number

National Grid Drawing Reference
S42_M/TDD/SS/1034

Scale	Sheet Size	Sheet	Issue
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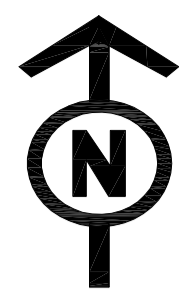
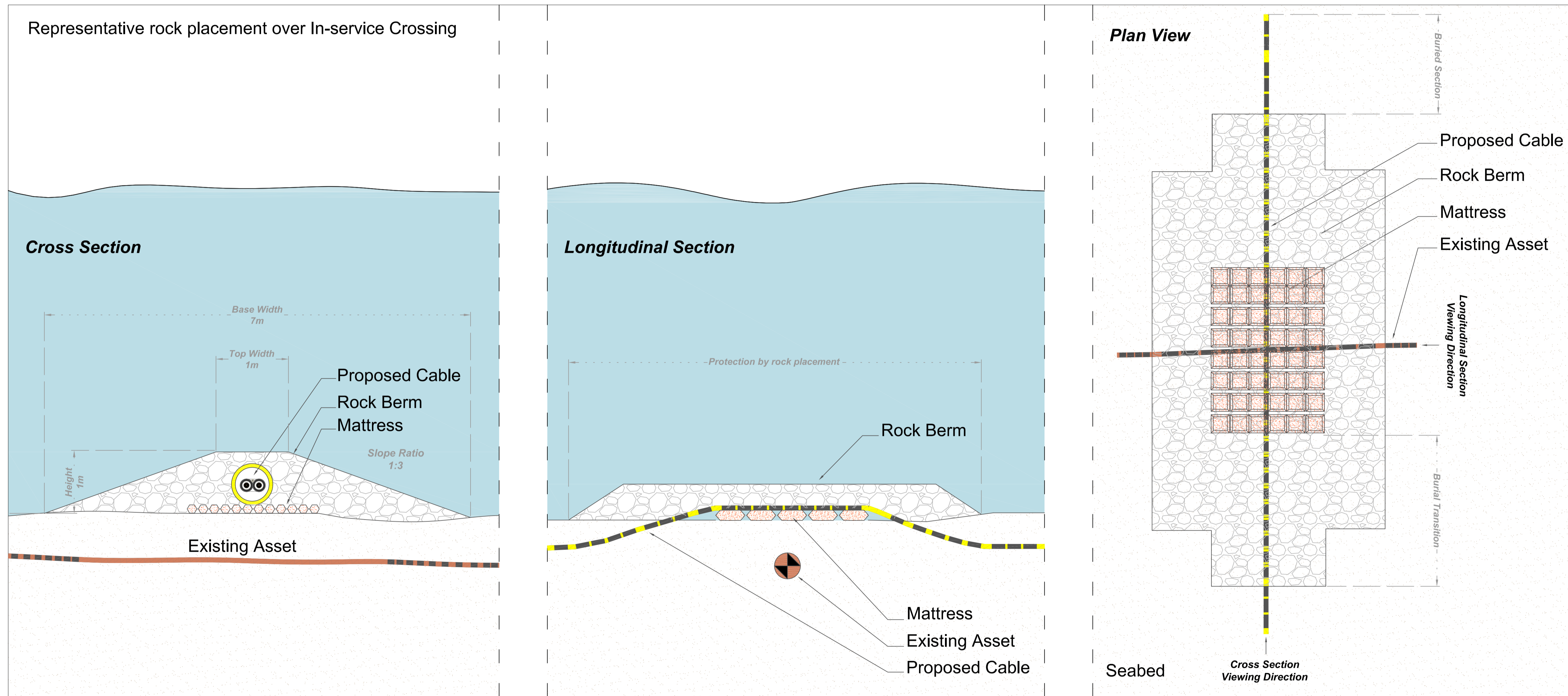


ILLUSTRATION OF
ROCK PLACEMENT SECTIONS
SHEET 1 of 1

- Notes
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Legend

- Water
- Seabed Sediment
- Mattress (Plan View)
- Mattress (Longitudinal Section)
- Mattress (Cross Section)
- Rock Berm
- Existing Asset
- New HVDC Bundle

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

Issue	Date	Remarks	Drawn	Checked	Approved
A	24/10/2023	FINAL	AMN	FSS	KG

Title

THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
DESIGN DRAWINGS FOR CONSULTATION
ILLUSTRATION OF
ROCK PLACEMENT SECTIONS
SHEET 1 of 1

nationalgrid

Application Number

National Grid Drawing Reference
S42_M/TDD/SS/1035

Scale	Sheet Size	Sheet	Issue
NTS	A1	SHEET 1 OF 1	A

02-05. Landfall Trenchless Installation Technique

Drawing Category Name	Plan Title	Scheme	Drawing Numbers
Landfall Trenchless Installation Technique	Illustration of typical HDD landfall	Offshore Schemes	S42_M/TDD/SS/1043

To assist with understanding these drawings please see the **Guide to Interacting with the Consultation Plans and Drawings**

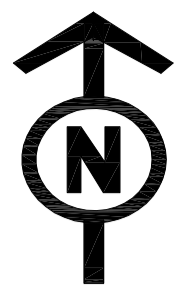
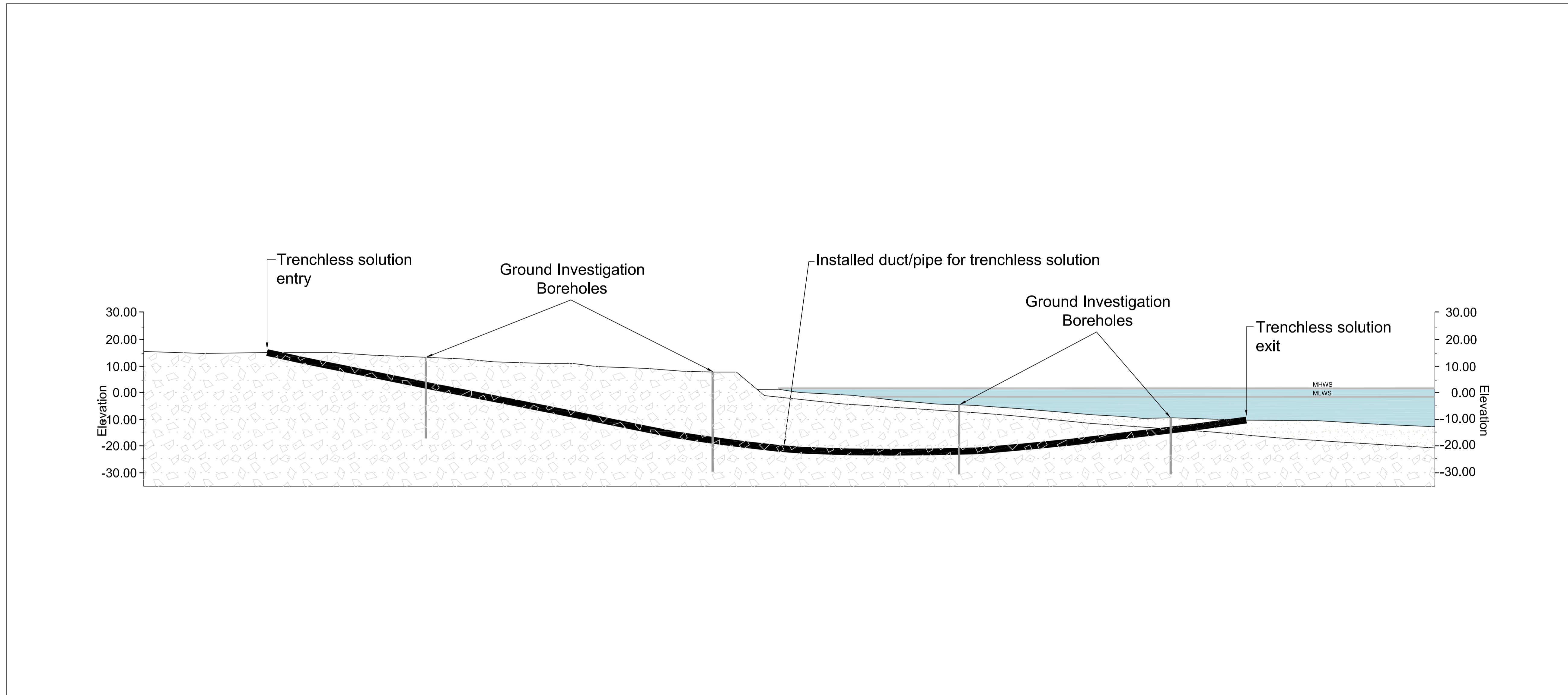


ILLUSTRATION OF
TYPICAL HDD LANDFALL
SHEET 1 of 1

- Notes
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 - Detailed design, including final dimensions, to be decided at a later date.
 - Typical lengths for example can vary between 800m to 1500m, depending on the local geological ground conditions.
 - HDD = Horizontal Directional Drilling
 - 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.
 - For further information on construction please refer to the construction section of the Preliminary Environmental Impact Report, Volume 1, Part 1, Chapter 4



Legend

- Water
- Seabed Sediment
- Bedrock

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

Issue	Date	Remarks	Drawn	Checked	Approved
A	24/10/2023	FINAL	AMN	FSS	KG

Title

THE NATIONAL GRID ELECTRICITY
TRANSMISSION PLC (SEA LINK) ORDER
DESIGN DRAWINGS FOR CONSULTATION
ILLUSTRATION OF
TYPICAL HDD LANDFALL
SHEET 1 of 1



Application Number -

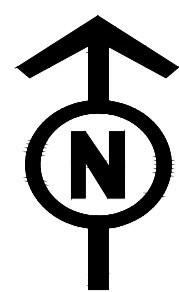
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S42_M/TDD/SS/1043

Scale	Sheet Size	Sheet	Issue
NTS	A1	SHEET 1 OF 1	A

02-06. Landfall Installation - Aldeburgh For Sea Link Only

Drawing Category Name	Plan Title	Scheme	Drawing Numbers
Landfall Installation - Aldeburgh For Sea Link Only	Indicative horizontal direction drill solution for sea link only Aldeburgh	Suffolk Onshore Scheme	S42_M/TDD/SS/1042
	Indicative layout of HDD construction compound for sea link only Aldeburgh	Suffolk Onshore Scheme	S42_M/TDD/SS/1044

To assist with understanding these drawings please see the **Guide to Interacting with the Consultation Plans and Drawings**



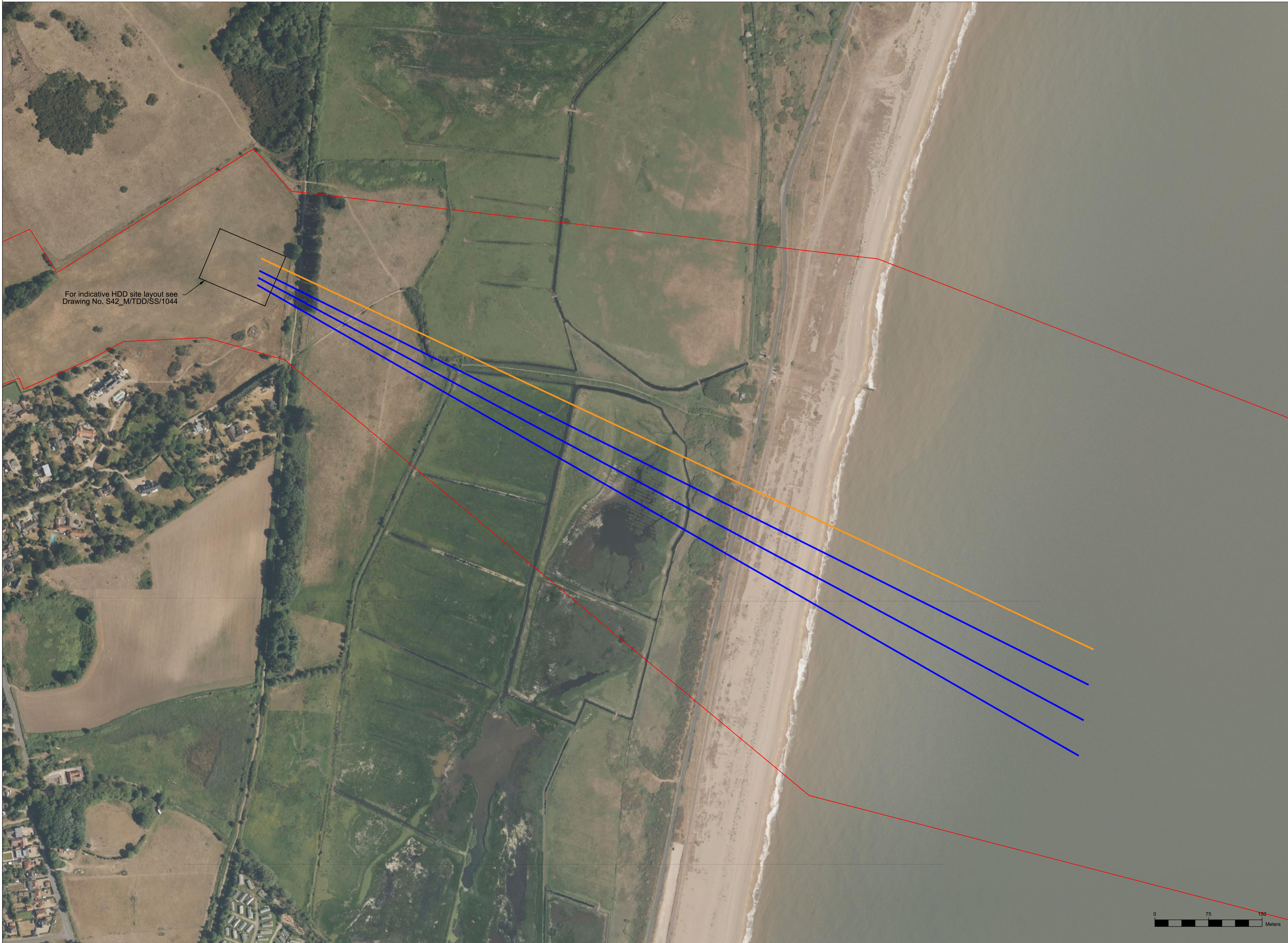
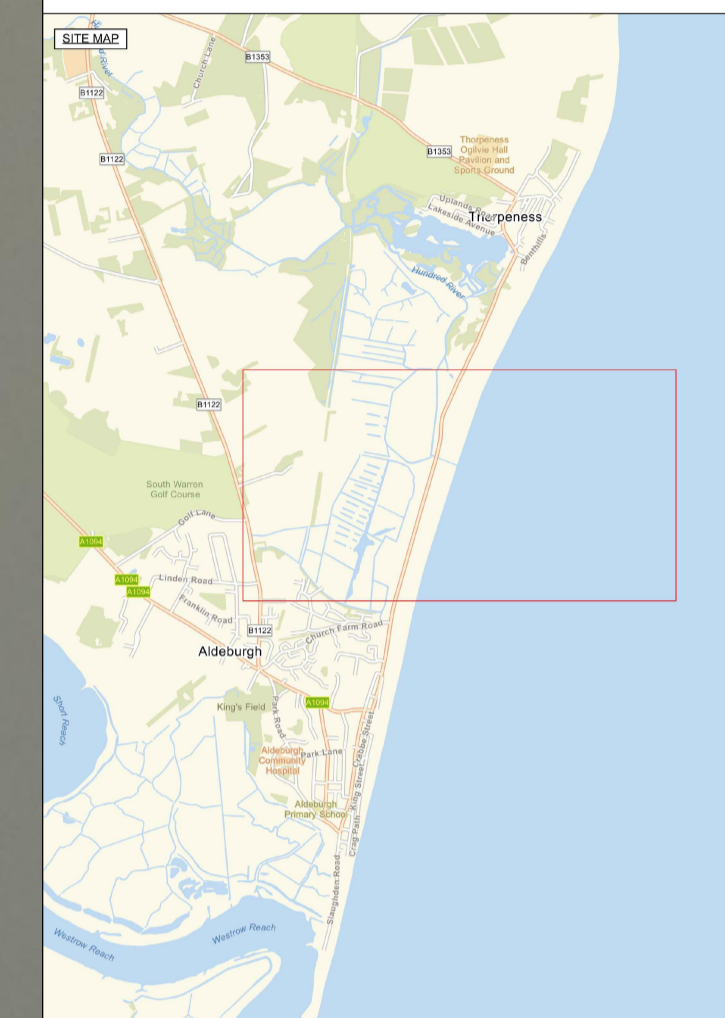
THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
DESIGN DRAWINGS FOR CONSULTATION

INDICATIVE HORIZONTAL DIRECTIONAL DRILL SOLUTION FOR SEA LINK ONLY ALDEBURGH
SHEET 1 of 1

Notes

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2. All dimensions are in metres/millimetres unless otherwise stated.
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4. No unauthorised disclosure, storage or copying.
5. Detailed design, including final dimensions, to be decided at a later date.
6. For further explanation of these plans see the Guide to the Plans Document.
7. For further information on construction please refer to the construction section of the Preliminary Environmental Impact Report, Volume 1, Part 1, Chapter 4.
8. Background Bing Maps aerial photography from Spatial Manager application, © 2019 Microsoft.
10. HDD = Horizontal Directional Drill.



Legend

- Indicative Sea Link HDD Alignment
- Indicative Reserve HDD Alignment - duct only
- Draft Order Limit

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

A	25/08/2023	FINAL	TR	FS	KG

Issue	Date	Remarks	Drawn	Checked	Approved

Title THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
DESIGN DRAWINGS FOR CONSULTATION
INDICATIVE HORIZONTAL DIRECTIONAL DRILL SOLUTION FOR SEA LINK ONLY ALDEBURGH

SHEET 1 of 1

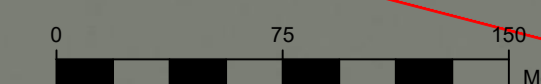


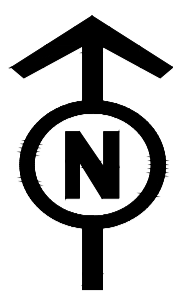
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National Grid Drawing Reference

S42_M/TDD/SS/1042

Scale	Sheet Size	Sheet	Issue
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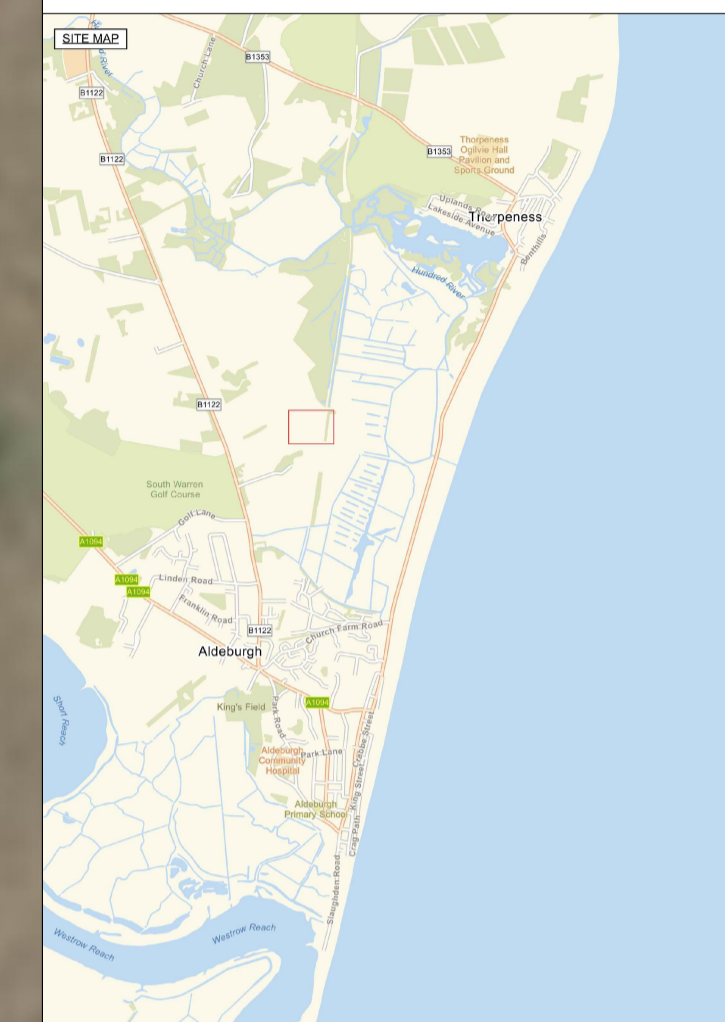
THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
DESIGN DRAWINGS FOR CONSULTATION

INDICATIVE LAYOUT OF HDD CONSTRUCTION COMPOUND FOR SEA LINK ONLY ALDEBURGH
SHEET 1 of 1

Notes

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6. For further explanation of these plans see the Guide to the Plans Document.
7. For further information on construction please refer to the construction section of the Preliminary Environmental Impact Report, Volume 1, Part 1, Chapter 4.
8. Background Bing Maps aerial photography from Spatial Manager application, © 2019 Microsoft.
9. For indicative HDD alignments see Drawing No. S42_M/TDD/SS/1042
10. HDD = Horizontal Directional Drill.



Legend

- Indicative Sea Link HDD Alignment
- Indicative Reserve HDD Alignment - duct only
- Draft Order Limit

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

Issue	Date	Remarks	Drawn	Checked	Approved
A	25/08/2023	FINAL	TR	FS	KG

Title THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER

DESIGN DRAWINGS FOR CONSULTATION

INDICATIVE LAYOUT OF HDD CONSTRUCTION COMPOUND FOR SEA LINK ONLY ALDEBURGH

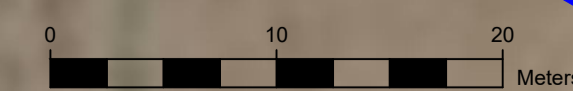
SHEET 1 of 1



Application Number

National Grid Drawing Reference S42_M/TDD/SS/1044

Scale	Sheet Size	Sheet	Issue
NTS	A1	SHEET 1 OF 1	01



02-07. Landfall Installation - Aldeburgh For Sea Link Plus Ducts for up to two further projects

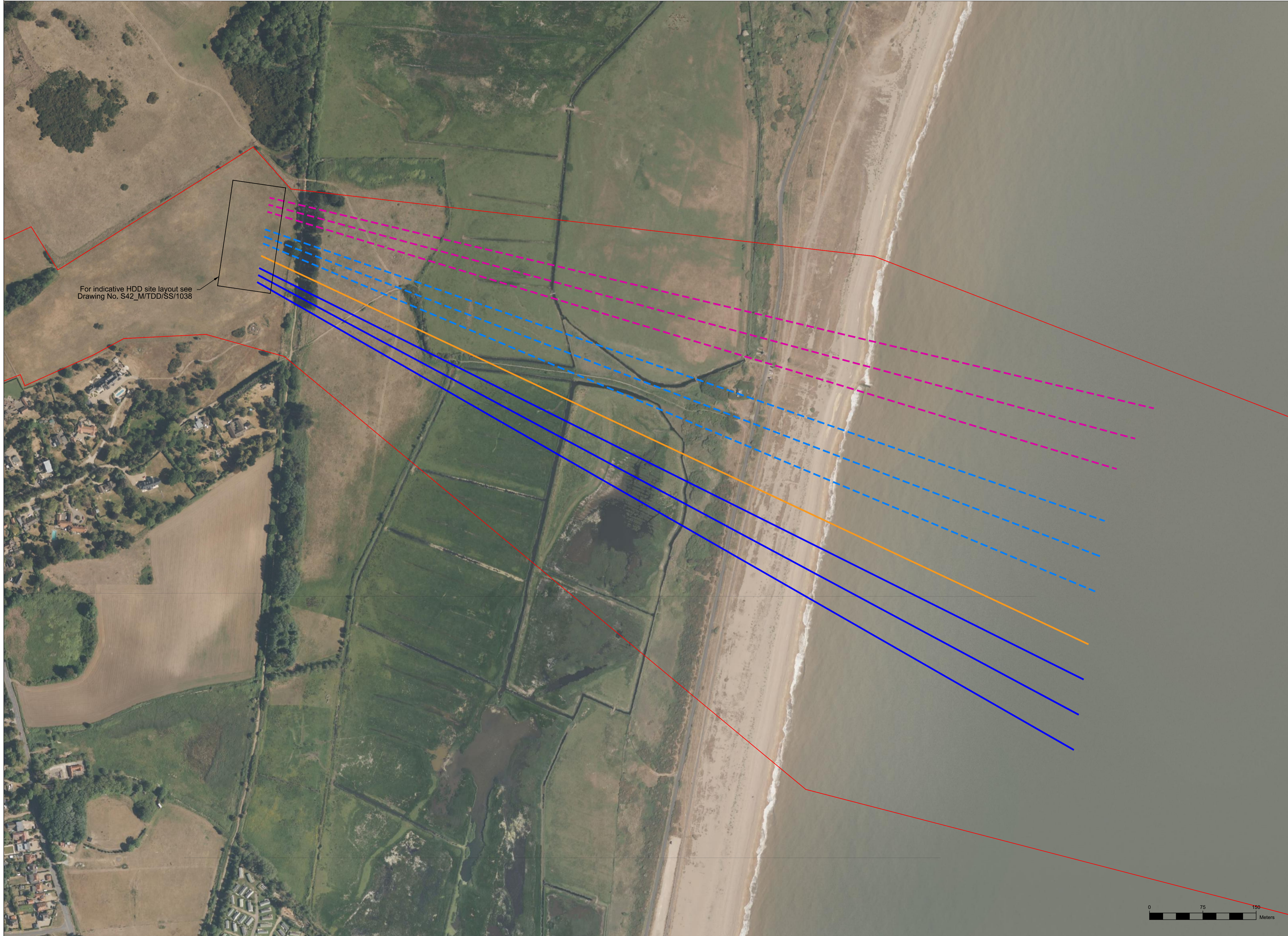
Drawing Category Name	Plan Title	Scheme	Drawing Numbers
Landfall Installation - Aldeburgh For Sea Link Plus Ducts for up to two further projects	Indicative horizontal directional drill solution for sea link plus ducts for up to two further projects Aldeburgh	Suffolk Onshore Scheme	S42_M/TDD/SS/1041
	Indicative layout of HDD construction compound for sea link plus ducts for up to two further projects Aldeburgh	Suffolk Onshore Scheme	S42_M/TDD/SS/1038

To assist with understanding these drawings please see the **Guide to Interacting with the Consultation Plans and Drawings**

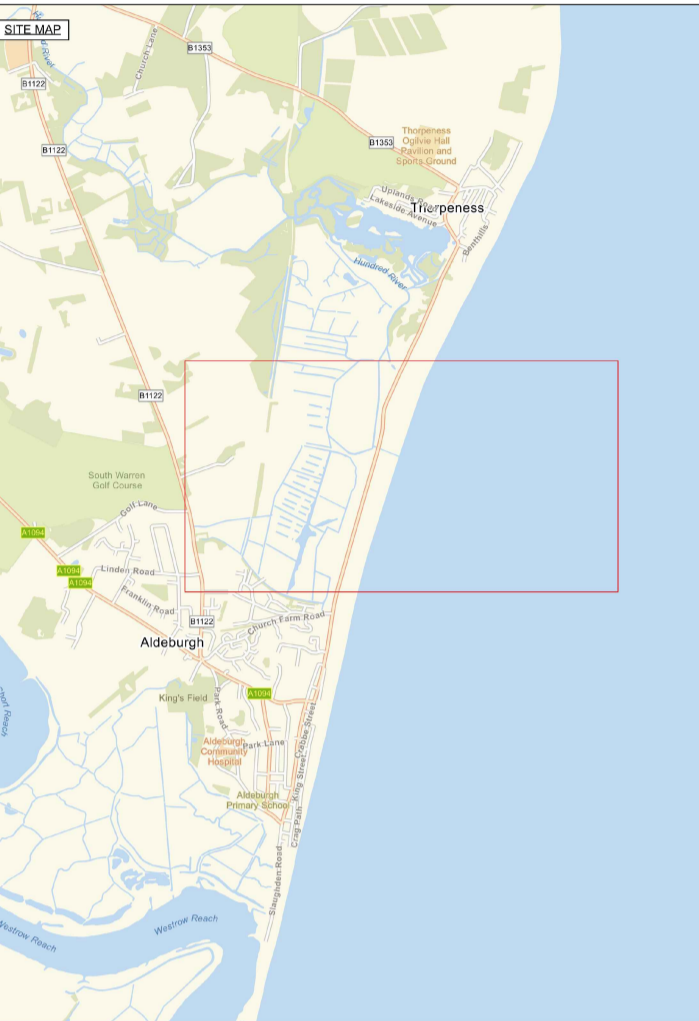


THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
DESIGN DRAWINGS FOR CONSULTATION

INDICATIVE HORIZONTAL DIRECTIONAL DRILL SOLUTION FOR SEA LINK PLUS DUCTS FOR UP TO TWO FURTHER PROJECTS ALDEBURGH
SHEET 1 of 1



- Notes
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 2. All dimensions are in metres/millimetres unless otherwise stated.
 3. This drawing is to be read in conjunction with all relevant documents and drawings.
 4. No unauthorised disclosure, storage or copying.
 5. Detailed design, including final dimensions, to be decided at a later date.
 6. For further explanation of these plans see the Guide to the Plans Document.
 7. For further information on construction please refer to the construction section of the Preliminary Environmental Impact Report, Volume 1, Part 1, Chapter 4.
 8. Background Bing Maps aerial photography from Spatial Manager application, © 2019 Microsoft.
 10. HDD = Horizontal Directional Drill.



Legend

- Indicative Sea Link HDD Alignment
- Indicative Reserve HDD Alignment - duct only
- Indicative Additional Co-Location Ducts
- Indicative Additional Co-Location Ducts
- Draft Order Limit

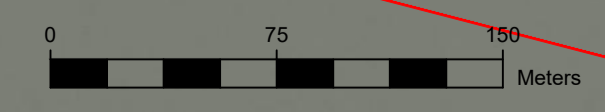
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Issue	Date	Remarks	Drawn	Checked	Approved
A	25/08/2023	FINAL	TR	FS	KG

Title THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
DESIGN DRAWINGS FOR CONSULTATION
INDICATIVE HORIZONTAL DIRECTIONAL DRILL SOLUTION FOR SEA LINK PLUS DUCTS FOR UP TO TWO FURTHER PROJECTS ALDEBURGH
SHEET 1 of 1



Application Number			
National Grid Drawing Reference			
S42_M/TDD/SS/1041			
Scale	Sheet Size	Sheet	Issue
NTS	A1	SHEET 1 OF 1	01





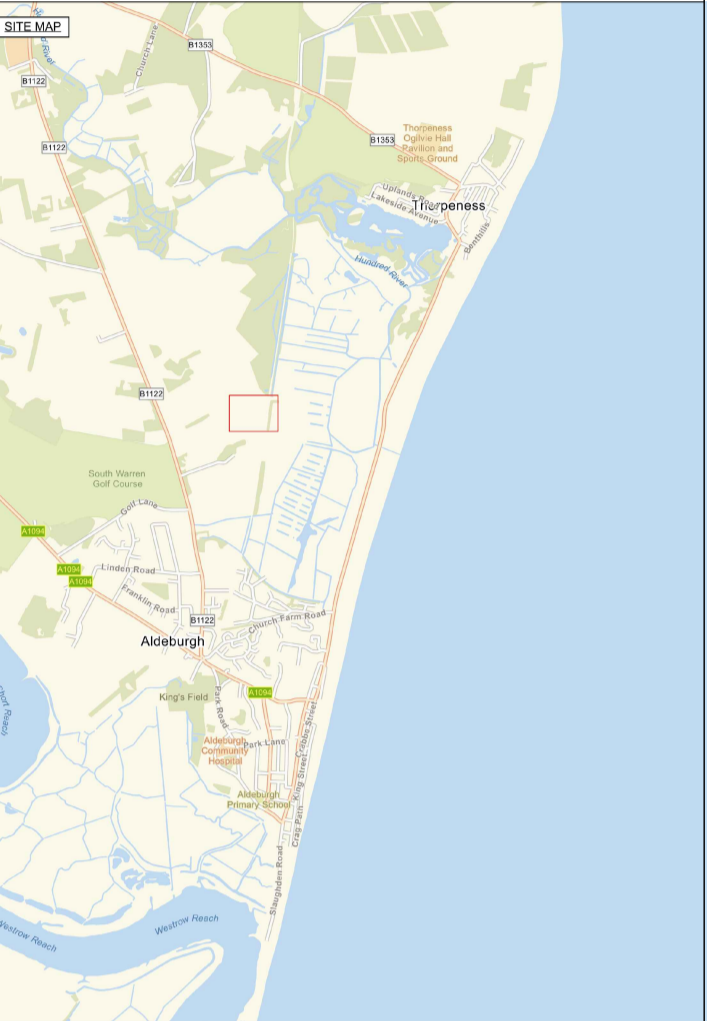
THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
DESIGN DRAWINGS FOR CONSULTATION

INDICATIVE LAYOUT OF HDD CONSTRUCTION COMPOUND FOR SEA LINK PLUS DUCTS FOR UP TO TWO FURTHER PROJECTS ALDEBURGH
SHEET 1 of 1

Notes

For statutory consultation purposes only

1. Do not scale from this drawing.
2. All dimensions are in metres/millimetres unless otherwise stated.
3. This drawing is to be read in conjunction with all relevant documents and drawings.
4. No unauthorised disclosure, storage or copying.
5. Detailed design, including final dimensions, to be decided at a later date.
6. For further explanation of these plans see the Guide to the Plans Document.
7. For further information on construction please refer to the construction section of the Preliminary Environmental Impact Report, Volume 1, Part 1, Chapter 4.
8. Background Bing Maps aerial photography from Spatial Manager application, © 2019 Microsoft.
9. For indicative HDD alignments see Drawing No. S42_M/TDD/SS/1041
10. HDD = Horizontal Directional Drill.



Legend

- Indicative Sea Link HDD Alignment
- Indicative Reserve HDD Alignment - duct only
- - - Indicative Additional Co-Location Ducts
- - - Indicative Additional Co-Location Ducts
- Draft Order Limit

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

Issue	Date	Remarks	Drawn	Checked	Approved
A	25/08/2023	FINAL	TR	FS	KG

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INDICATIVE LAYOUT OF HDD CONSTRUCTION COMPOUND FOR SEA LINK PLUS DUCTS FOR UP TO TWO FURTHER PROJECTS ALDEBURGH

SHEET 1 of 1

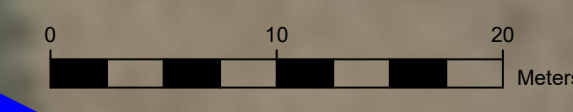
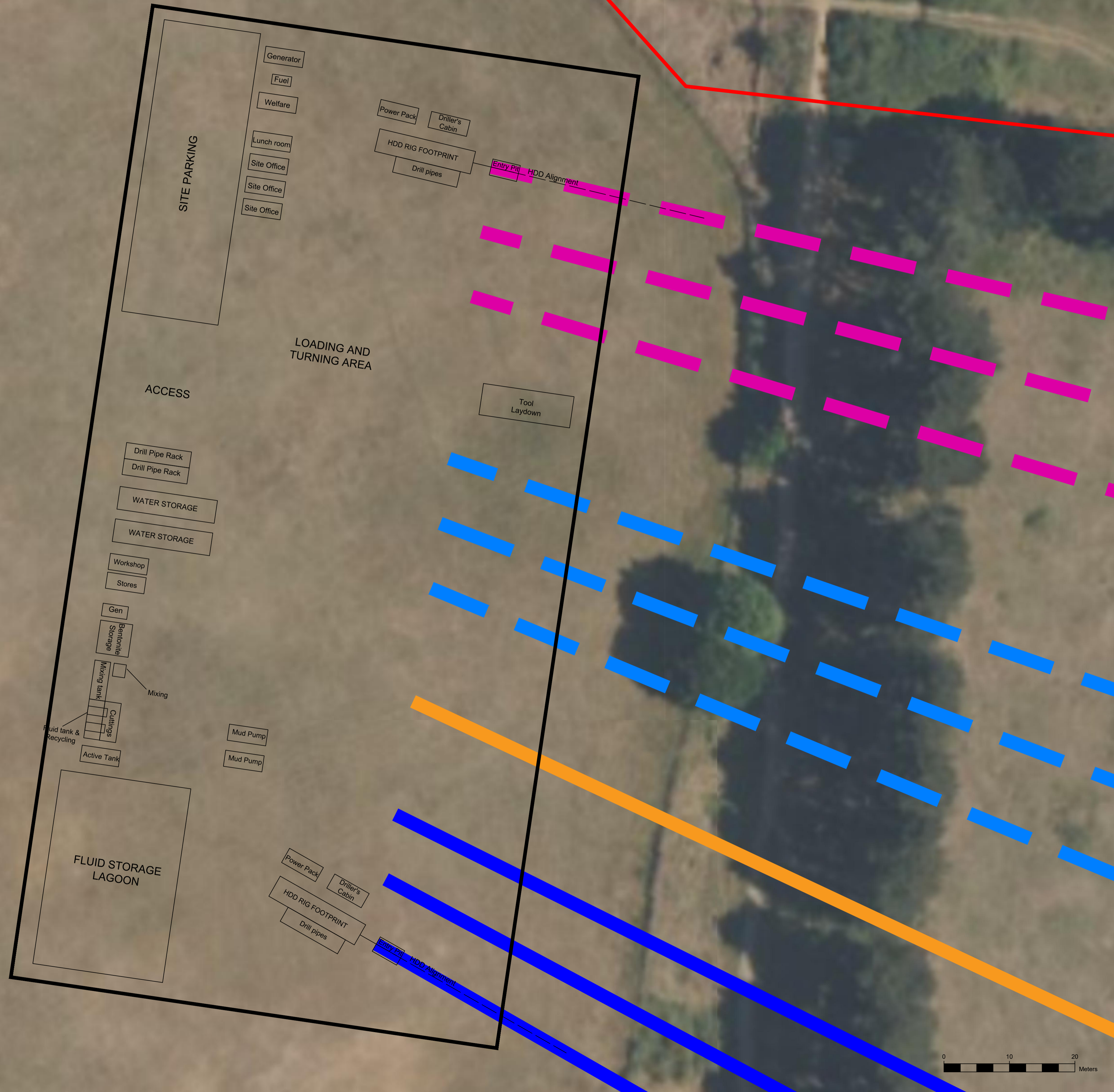


Application Number

National Grid Drawing Reference

S42_M/TDD/SS/1038

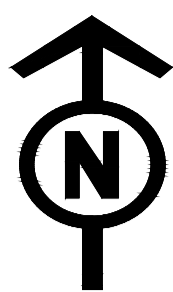
Scale	Sheet Size	Sheet	Issue
NTS	A1	SHEET 1 OF 1	01



02-08. Landfall Installation - Pegwell Bay

Drawing Category Name	Plan Title	Scheme	Drawing Numbers
Landfall Installation - Pegwell Bay	Indicative horizontal directional drill solution Pegwell bay	Kent Onshore Scheme	S42_M/TDD/SS/1039
	Indicative layout of HDD construction compound Pegwell bay	Kent Onshore Scheme	S42_M/TDD/SS/1037
	Indicative direct pipe solution Pegwell bay	Kent Onshore Scheme	S42_M/TDD/SS/1040

To assist with understanding these drawings please see the **Guide to Interacting with the Consultation Plans and Drawings**



THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
DESIGN DRAWINGS FOR CONSULTATION

INDICATIVE HORIZONTAL DIRECTIONAL DRILL SOLUTION PEGWELL BAY
SHEET 1 of 1

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8. Background Bing Maps aerial photography from Spatial Manager application, © 2019 Microsoft.
9. HDD = Horizontal Directional Drill.



Legend

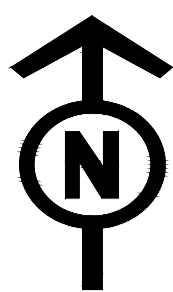
- Indicative HDD Alignment
- Indicative Reserve HDD Alignment - duct only
- Indicative HDD duct stringing for pushed installation
- Draft Order Limit
- Historic Landfill

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

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Title THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
DESIGN DRAWINGS FOR CONSULTATION
INDICATIVE HORIZONTAL DIRECTIONAL DRILL SOLUTION PEGWELL BAY
SHEET 1 of 1

Application Number			
National Grid Drawing Reference			
S42_M/TDD/SS/1039			
Scale	Sheet Size	Sheet	Issue
NTS	A1	SHEET 1 OF 1	01



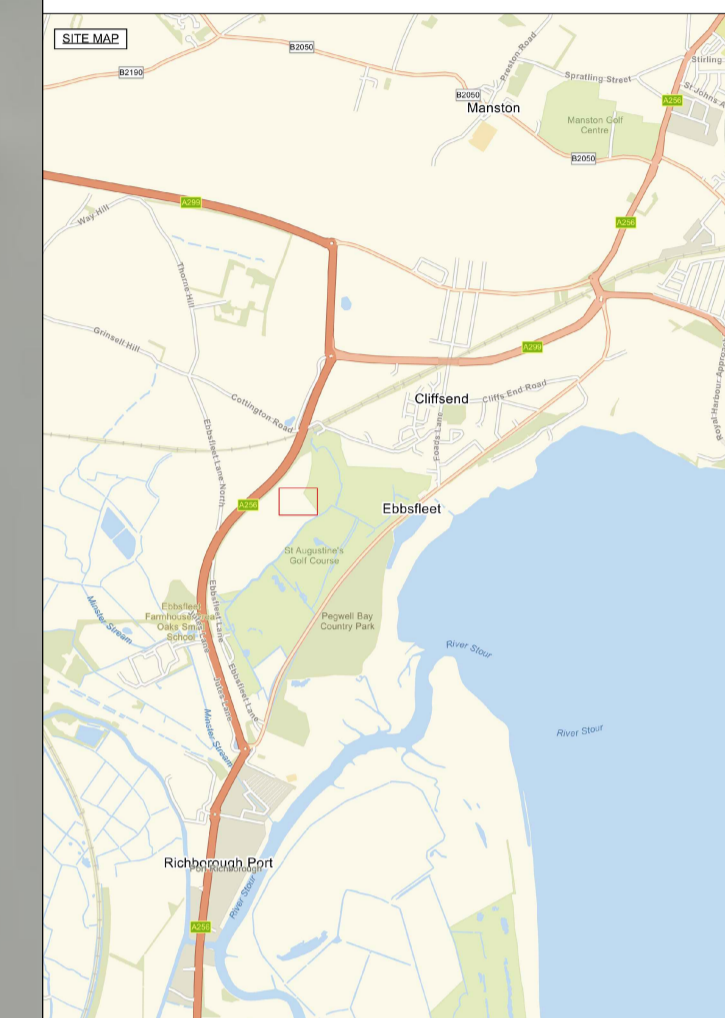
THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
DESIGN DRAWINGS FOR CONSULTATION

INDICATIVE LAYOUT OF HDD CONSTRUCTION COMPOUND PEGWELL BAY
SHEET 1 of 1

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8. Background Bing Maps aerial photography from Spatial Manager application, © 2019 Microsoft.
9. For indicative HDD alignments see Drawing No. S42_M/TDD/SS/1039
10. For General Arrangement Plan see Drawing No. S42_K/IGA/PS/2003
11. HDD = Horizontal Directional Drill.



Legend

- Indicative HDD Alignment
- Indicative Reserve HDD Alignment - duct only
- Draft Order Limit



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

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DESIGN DRAWINGS FOR CONSULTATION

INDICATIVE LAYOUT OF HDD CONSTRUCTION COMPOUND PEGWELL BAY

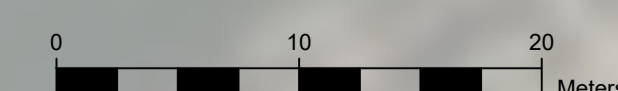
SHEET 1 of 1



Application Number

National Grid Drawing Reference S42_M/TDD/SS/1037

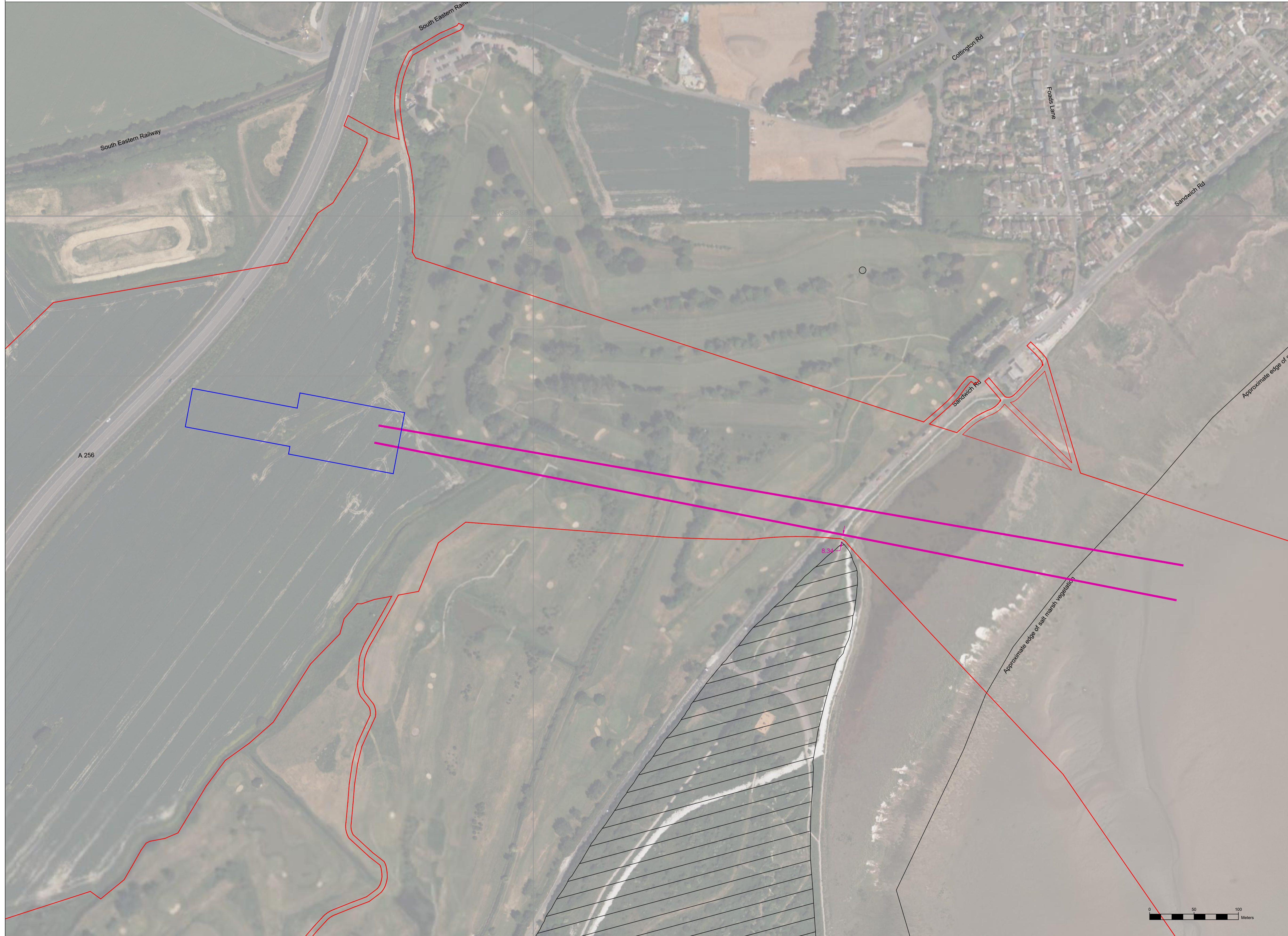
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NTS	A1	SHEET 1 OF 1	01





THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (SEA LINK) ORDER
DESIGN DRAWINGS FOR CONSULTATION

INDICATIVE DIRECT PIPE SOLUTION PEGWELL BAY
SHEET 1 of 1



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8. Background Bing Maps aerial photography from Spatial Manager application, © 2019 Microsoft.



Legend

- Indicative Direct Pipe Alignment
- Indicative Direct Pipe Working Area
- Draft Order Limit
- Historic Landfill

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

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DESIGN DRAWINGS FOR CONSULTATION
INDICATIVE DIRECT PIPE SOLUTION PEGWELL BAY
SHEET 1 of 1



Application Number

National Grid Drawing Reference S42_M/TDD/SS/1040

Scale	Sheet Size	Sheet	Issue
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