Appendix 2. Project Description

2.12. Project Drawings

Statutory Drawings

Refer to full set of planning drawings that have been provided as part of this planning submission.

Non Statutory Drawings

OUTGOING TRANSMITTAL

AtkinsRéalis

Project Name: CASHLA PEAKER PLANT
Project Reference No: PEK3

AtkinsRéalis, 150 Airside Business Park, Swords, Co Dublin, K67 K5W4

Documents - AtkinsRealis

Date of Issue	
Day	31
Month	10
Year	25

File Reference No.	Title	Sheet Size	Revision
PEK3-ATK-ZZ-ZZ-DR-A-ATK-000009	Control Building Floor & Roof Plan		0
PEK3-ATK-ZZ-ZZ-DR-A-ATK-000010	Control Building Elevations & Sections		0
PEK3-ATK-ZZ-ZZ-DR-CE-900070	Site Elevation Locations		0
PEK3-ATK-ZZ-ZZ-DR-CE-900071	Site Elevations		0
PEK3-ATK-ZZ-ZZ-DR-CE-900072	Site Elevations		0
PEK3-ATK-ZZ-ZZ-DR-CE-903107	Site Elevations		0
PEK3-ATK-ZZ-ZZ-DR-CE-900001	Site Location		0

			Number of Issues
	AN COIMISIÚN PLEANÁLA		1
Total number of sets			1

Format of Issue codes		Format of Issue
	D - Disk, E - Email, P - Print, R - A3 Reduction ET - Electronic Transmittal	E

Document / Drawing Issue Sheet

Project Title	Athenry to Cashla 220kV Grid Connection

Project No.	300-101269

Title	Drawing/ Doc Number	Size	Revision								
Site Location Map - Sheet 1 of 4	300101269-DR-101		N1	P1		P2					
Site Location Map - Sheet 2 of 4	300101269-DR-102		N1	P1		P2					
Site Location Map - Sheet 3 of 4	300101269-DR-103		N1	P1		P2					
Site Location Map - Sheet 4 of 4	300101269-DR-104		N1	P1		P2					
Site Layout Plan - Sheet 1 of 12	300101269-DR-105		N1	P1		P2					
Site Layout Plan - Sheet 2 of 12	300101269-DR-106		N1	P1		P2					
Site Layout Plan - Sheet 3 of 12	300101269-DR-107		N1	P1		P2					
Site Layout Plan - Sheet 4 of 12	300101269-DR-108		N1	P1		P2					
Site Layout Plan - Sheet 5 of 12	300101269-DR-109		N1	P1		P2					
Site Layout Plan - Sheet 6 of 12	300101269-DR-110		N1	P1		P2					
Site Layout Plan - Sheet 7 of 12	300101269-DR-111		N1	P1		P2					
Site Layout Plan - Sheet 8 of 12	300101269-DR-112		N1	P1		P2					
Site Layout Plan - Sheet 9 of 12	300101269-DR-113		N1	P1		P2					
Site Layout Plan - Sheet 10 of 12	300101269-DR-114		N1	P1		P2					
Site Layout Plan - Sheet 11 of 12	300101269-DR-115		N1	P1		P2					
Site Layout Plan - Sheet 12 of 12	300101269-DR-116		N1	P1		P2					
Typical Section Through Roadway SD1 With ECC	300101269-DR-117		N1	P1		P2					
Typical Section Through Roadway SD1 No ECC	300101269-DR-118		N1	P1		P2					
Typical Section Through Roadway SD2 With ECC	300101269-DR-119		N1	P1		P2					
Typical Section Through Roadway SD2 No ECC	300101269-DR-120		N1	P1		P2					
Typical Section Through Roadway SD4 With ECC	300101269-DR-121		N1	P1		P2					
Typical Section Through Roadway SD4 No ECC	300101269-DR-122		N1	P1		P2					
Typical Section Through Roadway SD5 With ECC	300101269-DR-123		N1	P1		P2					
Typical Section Through Roadway SD5 No ECC	300101269-DR-124		N1	P1		P2					
Ducting in Access Track With ECC	300101269-DR-125		N1	P1		P2					
Ducting in Access Track No ECC	300101269-DR-126		N1	P1		P2					

Issue Date										
	D	03	05	25	04					
	M	06	09	9.0	02					
	Y	25	25	25	26					

Distribution List	Number of copies								
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Bord Gais	1	1	1	1					

Status	I	PL	PL	PL					

Method	E	E	E	E					

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Issue Method:
C = CD, E = Email, P = Paper

Designed by James Cronin

Approved by Damien Browne

Issued by Damien Browne

For & on behalf of TLI Group

Document / Drawing Issue Sheet

Project Title	Athenry to Cashla 220kV Grid Connection

Project No.	300-101269

Title	Drawing/ Doc Number	Size	Revision								
Ducting Through Off-Road/Grassland With ECC	300101269-DR-127		N1	P1		P2					
Ducting Through Off-Road/Grassland No ECC	300101269-DR-128		N1	P1		P2					
Culvert Undercrossing	300101269-DR-129		N1	P1		P2					
Culvert Overcrossing	300101269-DR-130		N1	P1		P2					
Watermain Undercrossing	300101269-DR-131		N1	P1		P2					
Gas Undercrossing	300101269-DR-132		N1	P1		P2					
Gas Overcrossing	300101269-DR-133		N1	P1		P2					
Comms Chamber Details	300101269-DR-134		N1	P1		P2					
Link Box Chamber Details	300101269-DR-135		N1	P1		P2					
Joint Bay Section Details	300101269-DR-136		N1	P1		P2					
Joint Bay Arrangement Details	300101269-DR-137		N1	P1		P2					
M6 HDD Crossing 1	300101269-DR-138		N1	P1	P2	P3					
M6 HDD Crossing 2	300101269-DR-139		N1	P1	P2	P3					
M17 HDD Crossing 3	300101269-DR-140		N1	P1	P2	P3					
Construction Methodology	300101269-R02-01			1		3					

Issue Date										
	D	03	05	25	04					
	M	06	09	09	02					
	Y	25	25	25	26					

Distribution List	Number of copies								
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Method	E	E	E	E					

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Designed by James Cronin

Approved by Damien Browne

Issued by Damien Browne

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DO NOT SCALE

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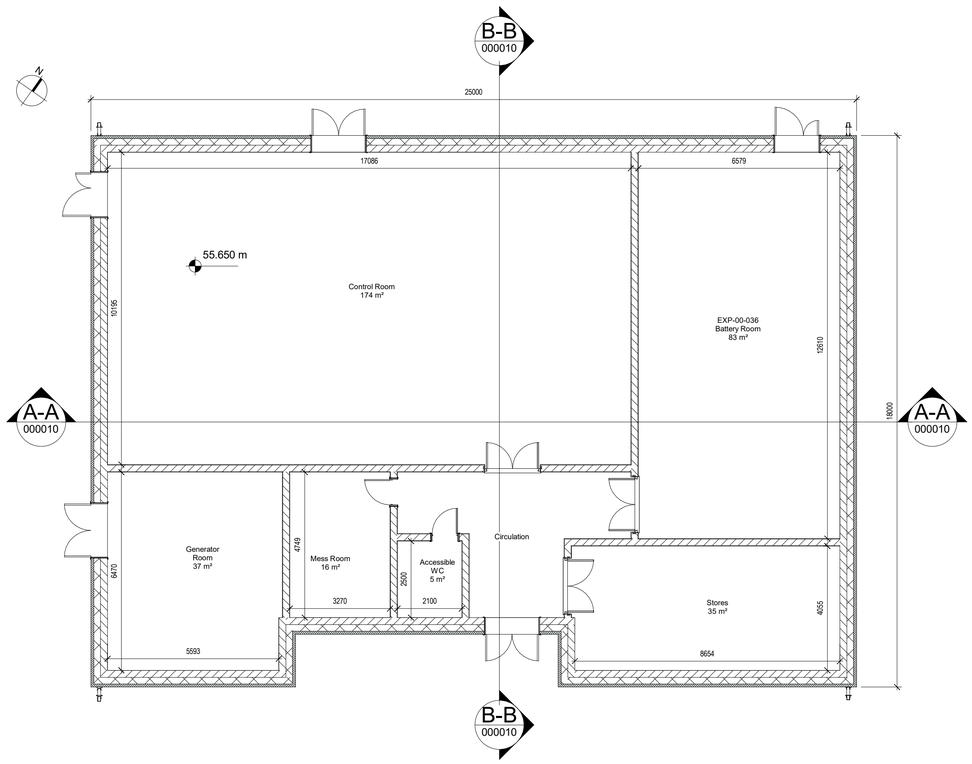

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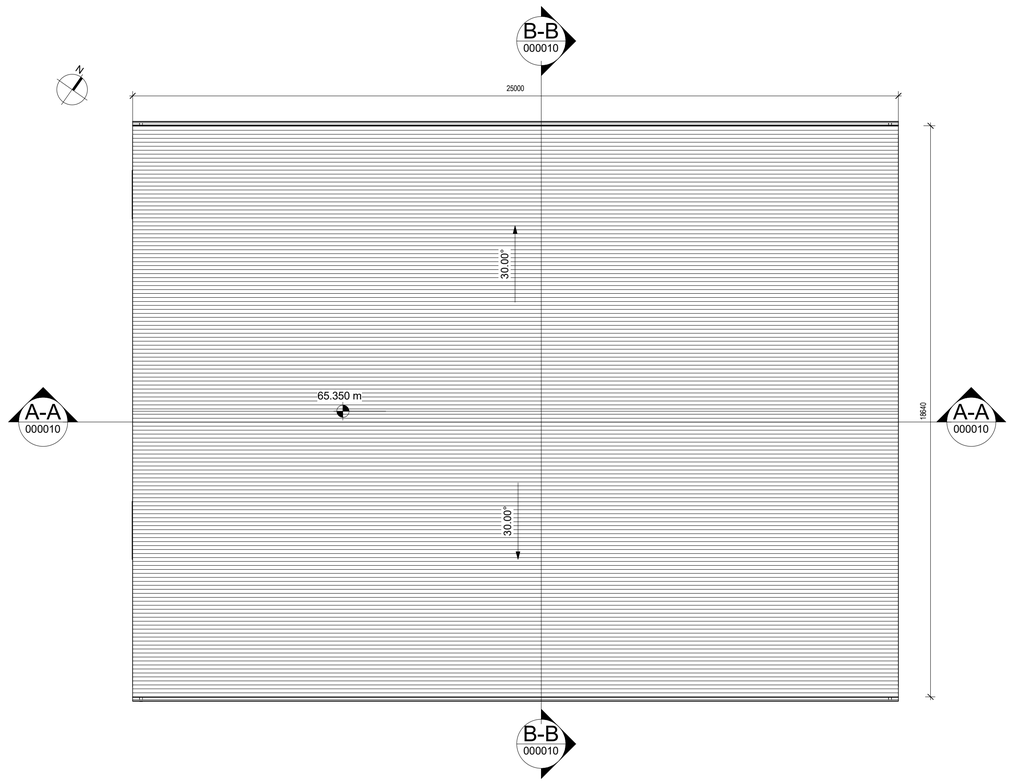

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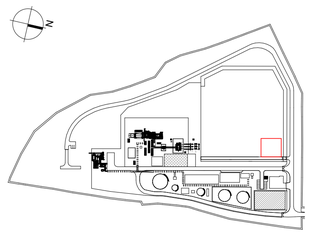

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P00	14/01/2026	Planning Issue	AH	.	JM	AJ

Drawing Suitability: FOR INFORMATION
Status: P

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SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: BORD GÁIS ENERGY

Project Title: Cashla Peaker Plant, Rathmorrissy and Pollnagroagh (Townlands), Athenry, Co. Galway

Drawing Title: Control Building Floor & Roof Plan

Scale	Drawn	Checked	Reviewed	Authorised
As indicated	AH	JM	AJB	AJB
Original Size	**Date**	**Date**	**Date**	**Date**
A1	25-06-2025	25-06-2025	26-06-2025	26-06-2025

Drawing Number: PEK3-ATK-ZZ-ZZ-DR-A-ATK-000009
Revision: P00

Atkins Project Number: IREBIM1

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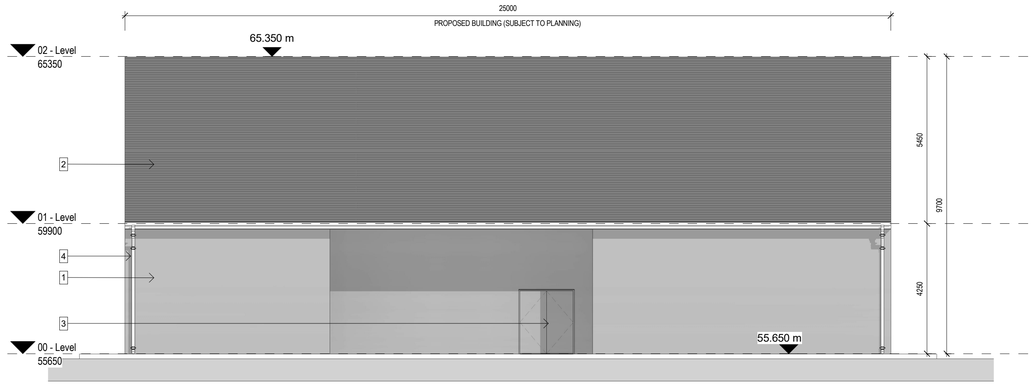

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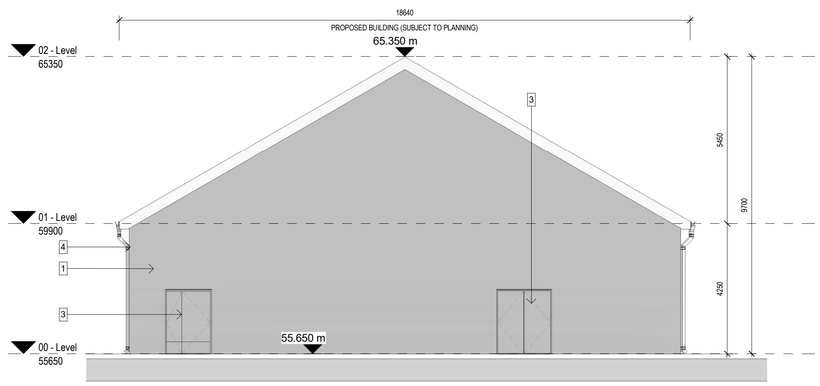

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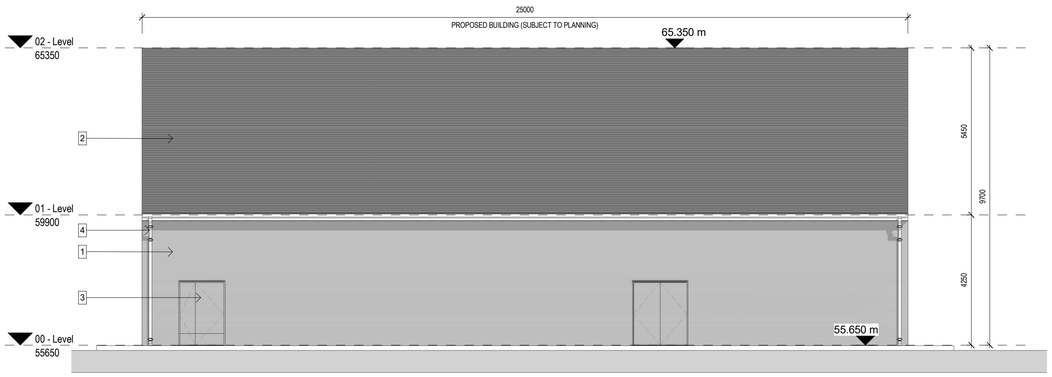

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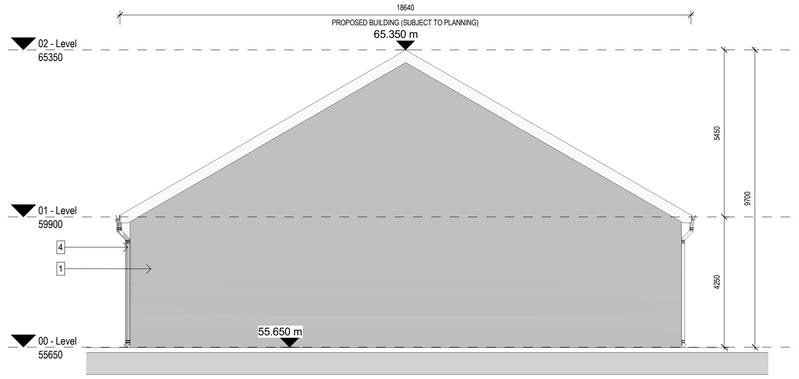

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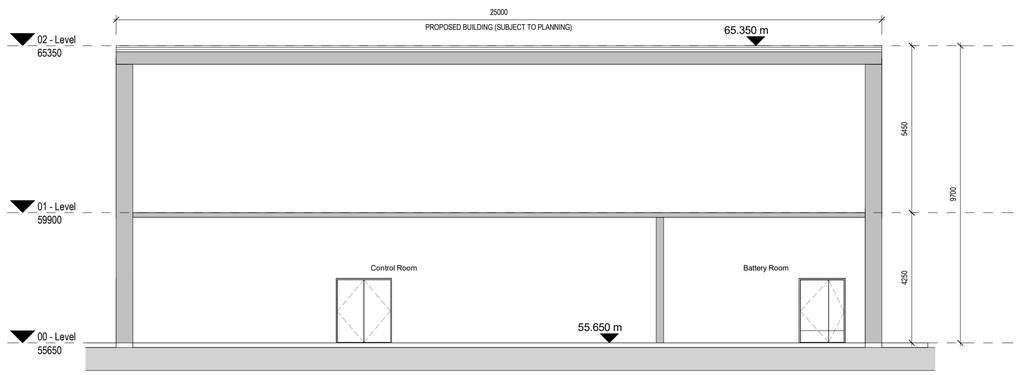

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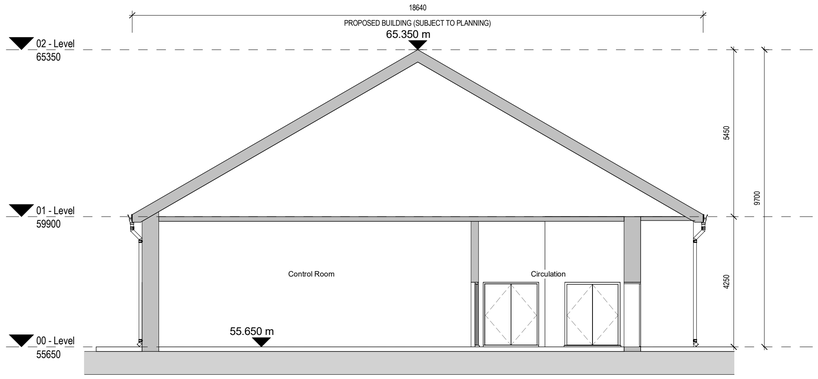
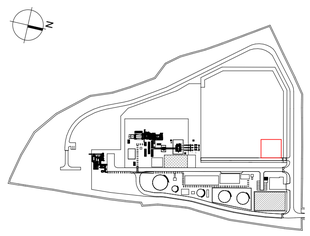


B-B Section B-B
000010 SCALE 1 : 100

FINISHES LEGEND:

1. Scud Render & Float in Sand White Cement Plaster Roughcast Finish
2. Blue/Black Slates
3. Steel door to selected RAL colour
4. RWP



Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P00	14/01/2026	Planning Issue	AH	.	JM	AJ

Drawing Suitability: FOR INFORMATION
Status: P

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SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: BORD GÁIS ENERGY

Project Title: Cashla Peaker Plant, Rathmorrissy and Pollnagroagh (Townlands), Athenry, Co. Galway

Drawing Title: Control Building Elevations & Sections

Scale	Drawn	Checked	Reviewed	Authorised
As indicated	AH	JM	AJ	AJ
Original Size	**Date**	**Date**	**Date**	**Date**
A1	25-06-2025	25-06-2025	26-06-2025	26-06-2025

Drawing Number: PEK3-ATK-ZZ-ZZ-DR-A-ATK-000010
Revision: P00

Atkins Project Number: IREBIM1

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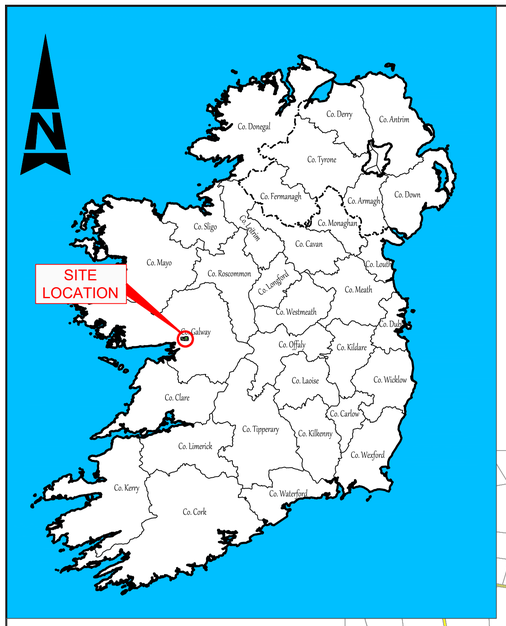

GENERAL NOTES

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4. ALL COORDINATES ARE IN METERS AND ARE TO IRISH TRANSVERSE MERCATOR
5. DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATION
6. THIS DRAWING IS TO BE USED ONLY FOR THE PURPOSES OF THE PLANNING APPLICATION AND IS SUBJECT TO DETAILED DESIGN.

OVERALL SITE LOCATION MAP

1:10,000 @ A1

LEGEND

TOTAL PROJECT AREA

WAYLEAVE

Rev	Description	By	Date	Chk'd	Auth
0	ISSUED FOR PLANNING	ASB	31.10.25	ND	AJB

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Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Bord Gáis Energy

Project: CASHLA PEAKER PLANT
Rathmorrissy, Pollnagroagh, Moanbaun, Castlelambert, Knocknacreeva, Caraunduff, Caherbriskaun, Lisheenkyle East, Barrettspark, Cashla, Athenry, Co. Galway.

Purpose: INFORMATION

Title: SITE LOCATION

Original Scale	Design/Drawn	Checked	Authorised
1:10000 at A1	DE	ND	AJB
	Date 01.08.25	Date 01.08.25	Date 01.08.25

Status	Drawing Number	Rev
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File: PEK3-ATK-ZZ-ZZ-DR-CE-900001-900007.dwg
Date: Feb 16, 2026 - 9:36am Plotted by: DEWHITE47

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DO NOT SCALE

KEY TABLE

1	ADMINISTRATION BUILDING SUBSTATION
2	AGI PEDESTRIAN ACCESS GATE
3	UNDERGROUND WASTEWATER TREATMENT PLANT
4	ADMINISTRATION BUILDING
5	WORKSHOP BUILDING
6	MAINTENANCE LAY DOWN AREA
7	MAIN ENTRANCE GATES
8	EMERGENCY ACCESS GATES
9	FUEL TANK - CAPACITY 2x350Zcu.m 20MØ 11.1m HIGH
10	FUEL TANK BUND - 2.5m HIGH
11	ELECTRICAL CONTROL BUILDING
12	DEMIN TANK PUMP SKID
13	SERVICE WATER PUMP SKID
14	EMERGENCY DIESEL GENERATOR
15	CO2 FIRE FIGHTING SKID
16	GENERATOR
17	COMPRESSOR CLEANING SKID AND TANKS
18	TURBINE
19	FUEL GAS SUPPLY SYSTEM SKID
20	CONTROL BUILDING
21	TURBINE EXHAUST STACK
22	CONTINOUOUS EMMISSIONS MONITORING UNIT
23	--ITEM NUMBER NOT USED INTENTIONALLY--
24	--ITEM NUMBER NOT USED INTENTIONALLY--
25	UNIT AUIXILIARY TRANSFORMER (UAT)
26	GSU TRANSFORMER
27	AIR COOLING SKID
28	WATER SKID
29	PROPANE TANK
30	GENERATOR CIRCUIT BREAKER
31	OIL LUBE SKID
32	DUAL FUEL MODULE
33	COMPRESSED AIR SKID
34	--ITEM NUMBER NOT USED INTENTIONALLY--
35	FIN FAN COOLER
36	RATHMORRISSY AGI (DRAWING 2183-DG-1001)
37	FUEL FORWARDING & UNLOADING AREA
38	--ITEM NUMBER NOT USED INTENTIONALLY--
39	FIRE & SERVICE WATER TANK
40	ELECTRICAL AND INSTRUMENTATION KIOSK (DRAWING 2183-DG-1005)
41	FIRE WATER PUMP SKID
42	WATER TREATMENT PLANT
43	GAS ANALYSER KIOSK (DRAWING 2183-DG-1006)
44	DEMIN WATER TANK 7555M3 25MØ 15.4M HIGH
45	MAIN PRESSURE REDUCTION KIOSK (DRAWING 2183-DG-1002)
46	SOAKAWAY RETENTION POND
47	ANCILLARY PRESSURE REDUCTION KIOSK (DRAWING 2183-DG-1004)
48	UNDERGROUND 1087cu.m CONTAMINATED FIREWATER TANK
49	BOILER HOUSE KIOSK (DRAWING 2183-DG-1003)
50	DEMIN WASTE TANK - 10mØ 5m HIGH

M18

M18

3 900072 / 2 900071

4 900072 / 2 900071

3 900072 / 1 900071

4 900072 / 1 900071

Telecom Mast

GENERAL NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE
2. ONLY WRITTEN DIMENSIONS SHALL BE USED. NO DIMENSIONS SHALL BE SCALED FROM THE DRAWINGS
3. ALL LEVELS ARE IN METRES AND ARE TO MALIN HEAD DATUM
4. ALL COORDINATES ARE IN METRES AND ARE TO IRISH TRANSVERSE MERCATOR
5. DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATION
6. THIS DRAWING IS TO BE USED ONLY FOR THE PURPOSES OF THE PLANNING APPLICATION AND IS SUBJECT TO DETAILED DESIGN

LEGEND

- PROJECT BOUNDARY FOR PLANNING
- LANDHOLDING BOUNDARY
- SLEEPER / OH PIPE RACK
- PROPOSED STRUCTURES
- ATTENUATION POND / SOAKAWAY
- SETDOWN AREAS
- LIGHTNING MAST
- TELECOMMUNICATION MAST

Millimetres 100 / 10 / 0

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Rev	Description	By	Date	Chk'd	Auth
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Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Bord Gáis Energy

Project: CASHLA PEAKER PLANT
Rathmorrissy and Pollnagroagh (Townlands), Athenry, Co. Galway.

Purpose: INFORMATION ONLY

Title: SITE ELEVATION LOCATIONS

Original Scale	Design/Drawn	Checked	Authorised
NTS	DE 01.08.25	ND 01.08.25	AJB 01.08.25

Status	Drawing Number	Rev.
A2	PEK3-ATK-ZZ-ZZ-DR-CE-900070	0

DO NOT SCALE

Millimetres 100 0 10

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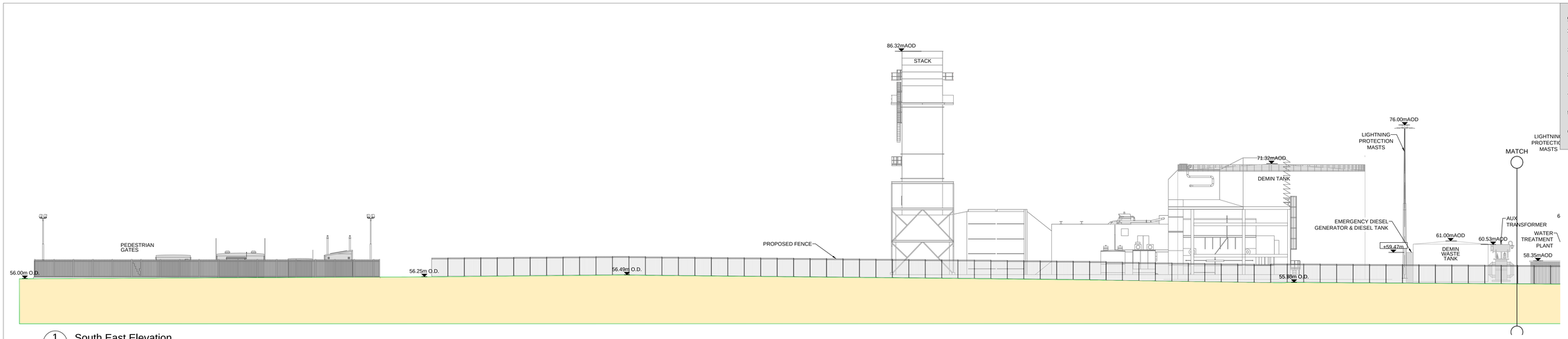

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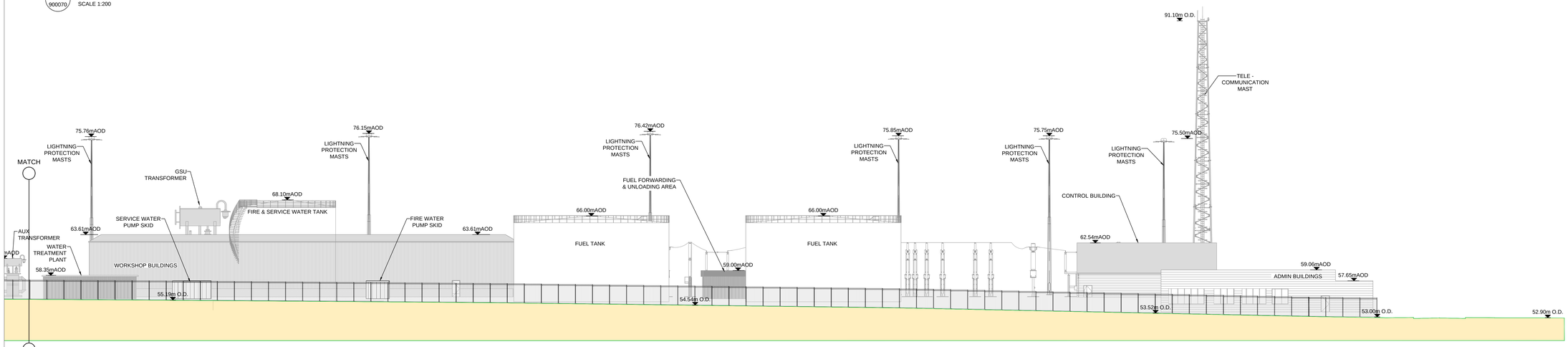

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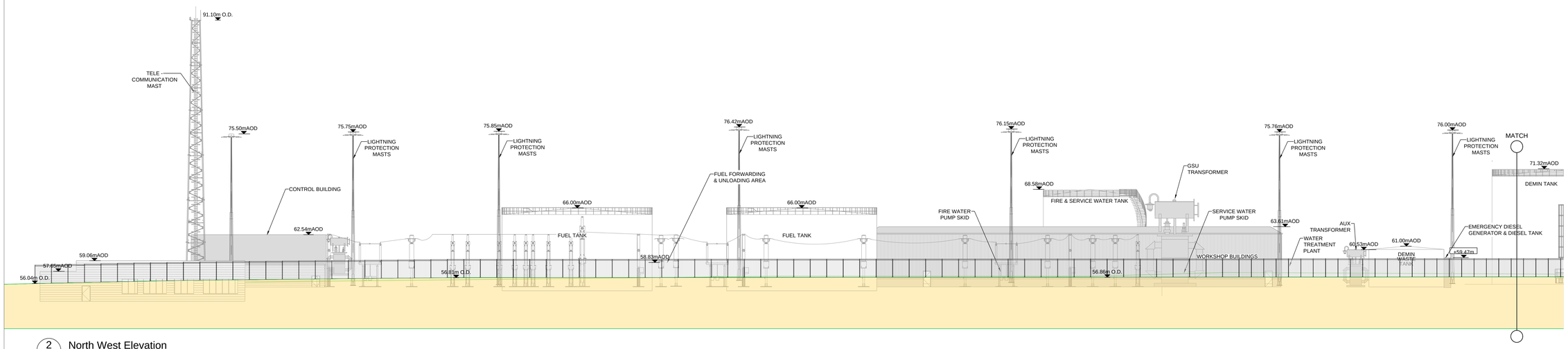

2 900070 North West Elevation
SCALE 1:200

Rev	Description	By	Date	Chk'd	Auth
0	ISSUED FOR INFORMATION	ASB	31.10.25	ND	AJB

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ATKINS HOUSE,150 AIRSIDE BUSINESS PARK, SWORDS, DUBLIN, K67 KSW4.
Tel : +353 1 810 8000
Email : info.ie@atkinsréalis.com

Client: Bord Gáis Energy

Project: CASHLA PEAKER PLANT
Rathmorrissy and Pollnagroagh (Townlands), Athenry, Co. Galway.

Purpose	INFORMATION ONLY
Title	SITE ELEVATIONS SHEET 01
Original Scale	NTS
Design/Drawn	DE 01.08.25
Checked	ND 01.08.25
Authorised	AJB 01.08.25
Status	A3
Drawing Number	PEK3-ATK-ZZ-ZZ-DR-CE-900071
Rev	0

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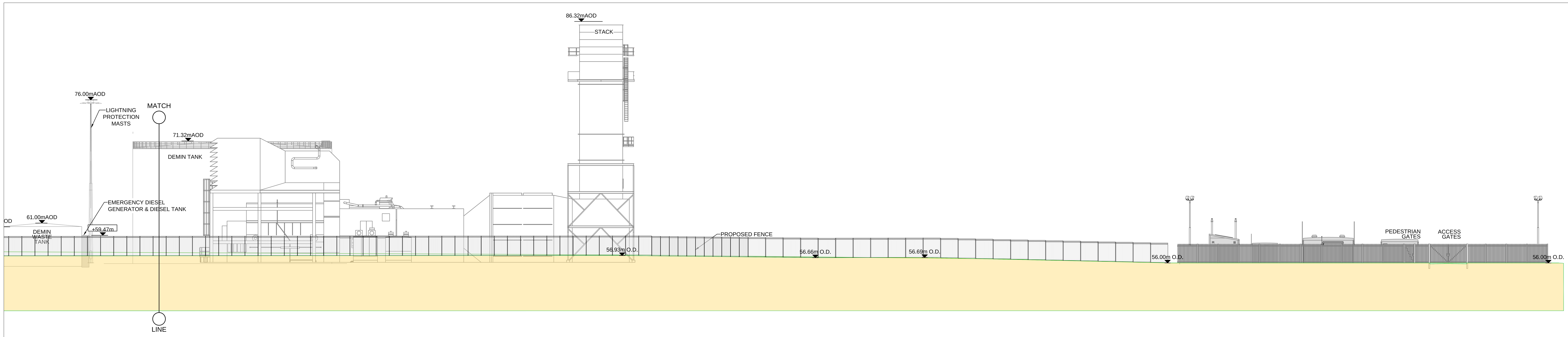

2 (900070) ELEVATION Cont:/-
SCALE 1:200

3 (900070) South West Elevation
SCALE 1:200

4 (900070) North East Elevation
SCALE 1:200

Rev	Description	By	Date	Chk'd	Auth
0	ISSUED FOR INFORMATION	ASB	31.10.25	ND	AJB

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ATKINS HOUSE,150 AIRSIDE BUSINESS PARK, SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Bord Gáis Energy

Project: CASHLA PEAKER PLANT
Rathmorrissy and Pollnagroagh (Townlands), Athenry, Co. Galway.

Purpose: INFORMATION ONLY

Title: SITE ELEVATIONS SHEET 02

Original Scale	Design/Drawn	Checked	Authorised
NTS	DE	PM	AJB
	Date 23.09.25	Date 23.09.05	Date 23.09.25

Status	Drawing Number	Rev
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A1

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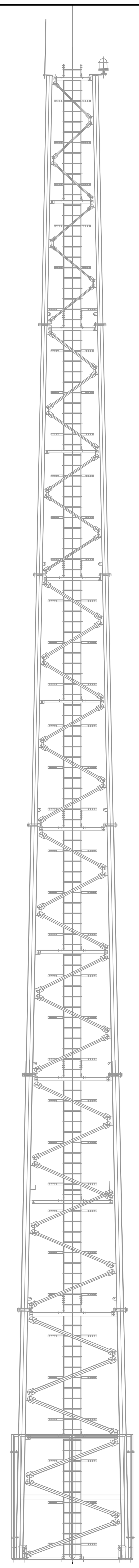
4. ALL COORDINATES ARE IN METERS AND ARE TO IRISH TRANSVERSE MERCATOR
5. DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATION
6. THIS DRAWING IS TO BE USED ONLY FOR THE PURPOSES OF THE PLANNING APPLICATION AND IS SUBJECT TO DETAILED DESIGN.



1 (903107) TYPICAL TELECOM MAST ELEVATION
SCALE NTS

Rev	Description	By	Date	Chk'd	Auth
0	ISSUED FOR INFORMATION	ASB	31.10.25	ND	AJB

AtkinsRéalis
DUBLIN | CORK | GALWAY | DUNDALK
ATKINS HOUSE,150 AIRSIDE BUSINESS PARK, SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Bord Gáis Energy

Project: CASHLA PEAKER PLANT
Rathmorrissy, Pollnagroagh, Moanbaun, Castlelambert, Knocknacreeva, Caraunduff, Caherbriskaun, Lisheenkyle East, Barrettspark, Cashla, Athenry, Co. Galway.

Purpose: INFORMATION ONLY

Title: TELECOM CAST

Original Scale	Design/Drawn	Checked	Authorised
NTS	DE	ND	AJB
	Date 01.08.25	Date 01.08.25	Date 01.08.25

Status	Drawing Number	Rev
A2	PEK3-ATK-ZZ-ZZ-DR-CE-903107	0

File: PEK3-ATK-ZZ-ZZ-DR-CE-903108.dwg Date: Feb 03, 2026 - 4:41pm Plotted by: SHER8400

C:\Users\SHER8400\appdata\local\temp\AcPublish_9048\PEK3-ATK-ZZ-ZZ-DR-CE-903108.dwg

Project Management Initials: Designer: JC Checked: GC Approved: DB

Map Series:
Prime Data Vector

ITM Centre Point Co-ordinate:
X,Y = 545125.63,728672.74

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CYAL50510216

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LEGEND: -

- Proposed 220 kV UGC Grid Connection Route (8.1km)
- Indicative Substation Layout and Grid Connection Route Corridor

NOTES: -

- This drawing is to be used only for the purpose of the planning application and is subject to detailed design.
- Position of underground cable and location of joint bays, links boxes and comms chambers may vary depending on site conditions.
- Position of link boxes and comms chambers is to be agreed onsite with EirGrid/ESB.
- Other services may be encountered on the route.
- This drawing has been prepared to inform an Environmental Impact Assessment for the Cashla Peaker Plant project and is for illustrative purposes only. Final detailed drawings for the proposed 220kV grid connection route and 220kV substation will be submitted as part of a S.182B planning application to An Coimisiún Pleanála in due course.

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PROJECT

Indicative Cashla Peaker Plant 220kV Grid Connection and Substation - EIAR Drawings

CLIENT

Bord Gáis Energy

CONSULTANTS

AtkinsRéalis

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P2	03.02.26	Issued for Information
P1	05.09.25	Issued for Planning
N1	03.06.25	Issued for Information

PROJECT NUMBER

300-101269

SHEET TITLE

Indicative Site Location Map - Sheet 1 of 4

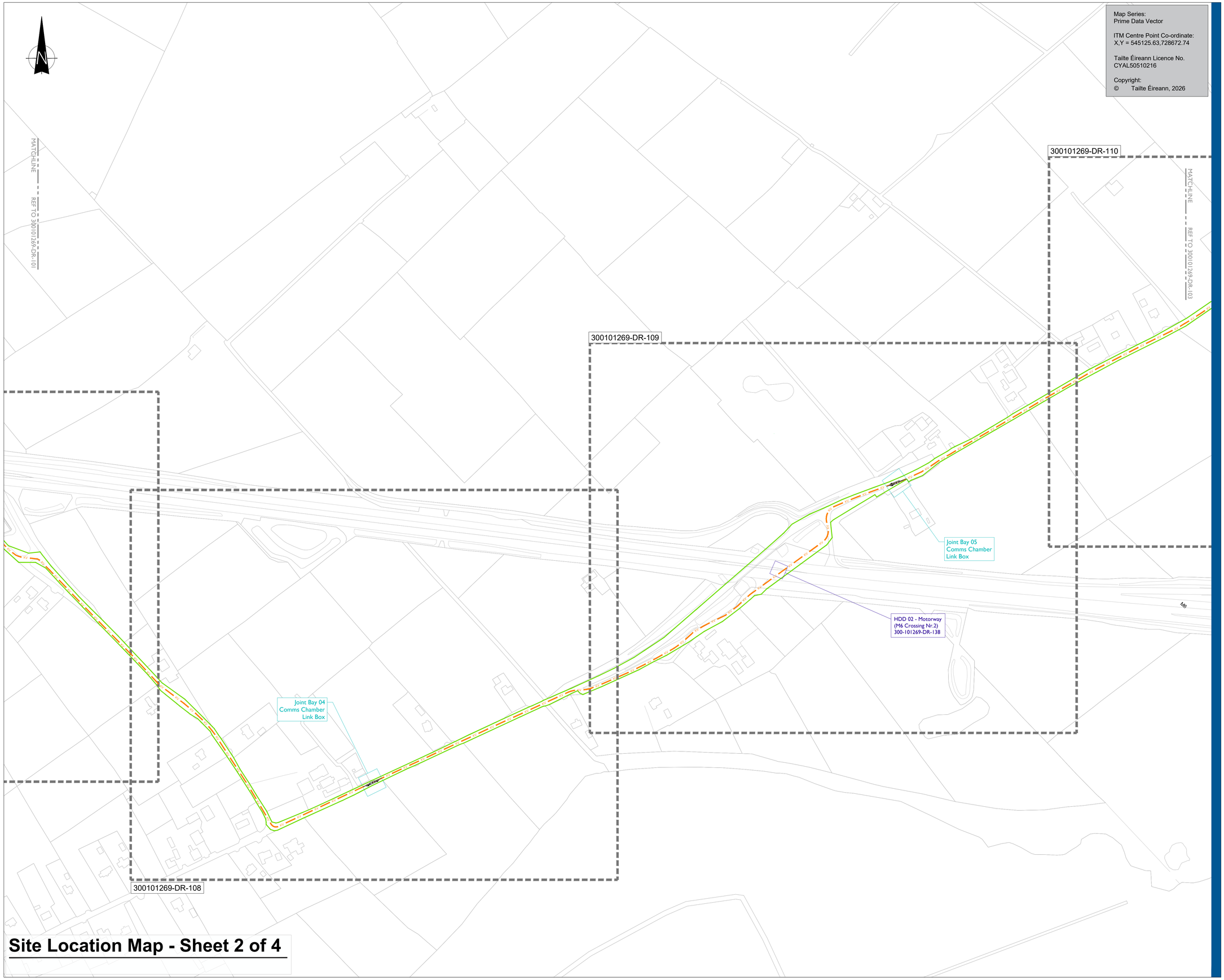
SHEET NUMBER

300101269-DR-101

Site Location Map - Sheet 1 of 4

ISO A1 594mm x 841mm

ISO A1 594mm x 841mm



Project Management Initials:
Designer: JC
Checked: GC
Approved: DB

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PROJECT

Indicative Cashla Peaker Plant 220kV Grid Connection and Substation - EIAR Drawings

CLIENT

Bord Gáis Energy

CONSULTANTS

AtkinsRéalis

NOTES: -

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LEGEND: -

Proposed 220 kV UGC Grid Connection Route (8.1km) — KV

Indicative Substation Layout and Grid Connection Route Corridor

ISSUE/REVISION

P2	03.02.26	Issued for Information
P1	05.09.25	Issued for Planning
N1	03.06.25	Issued for Information
I/R	DATE	DESCRIPTION

PROJECT NUMBER

300-101269

SHEET TITLE

Indicative Site Location Map - Sheet 2 of 4

SHEET NUMBER

300101269-DR-102

Project Management Initials: Designer: JC Checked: GC Approved: DB

Map Series:
Prime Data Vector

ITM Centre Point Co-ordinate:
X,Y = 545125.63,728672.74

Tailte Éireann Licence No.
CYAL50510216

300101269-DR-112

300101269-DR-111

300101269-DR-116

Joint Bay 07
Comms Chamber
Link Box

Joint Bay 06
Comms Chamber
Link Box

MATCHLINE REF TO 300101269-DR-102

MATCHLINE REF TO 300101269-DR-104

M17

M18

Proposed Cashla
Peaker Plant
Development Area

LEGEND: -

- Proposed 220 kV UGC Grid Connection Route (8.1km)
- Indicative Substation Layout and Grid Connection Route Corridor

NOTES: -

- This drawing is to be used only for the purpose of the planning application and is subject to detailed design.
- Position of underground cable and location of joint bays, links boxes and comms chambers may vary depending on site conditions.
- Position of link boxes and comms chambers is to be agreed onsite with EirGrid/ESB.
- Other services may be encountered on the route.
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PROJECT

Indicative Cashla Peaker Plant 220kV Grid Connection and Substation - EIAR Drawings

CLIENT

Bord Gáis Energy

CONSULTANTS

AtkinsRéalis

ISSUE/REVISION

P2	03.02.26	Issued for Information
P1	05.09.25	Issued for Planning
N1	03.06.25	Issued for Information
I/R	DATE	DESCRIPTION

PROJECT NUMBER

300-101269

SHEET TITLE

Indicative Site Location Map - Sheet 3 of 4

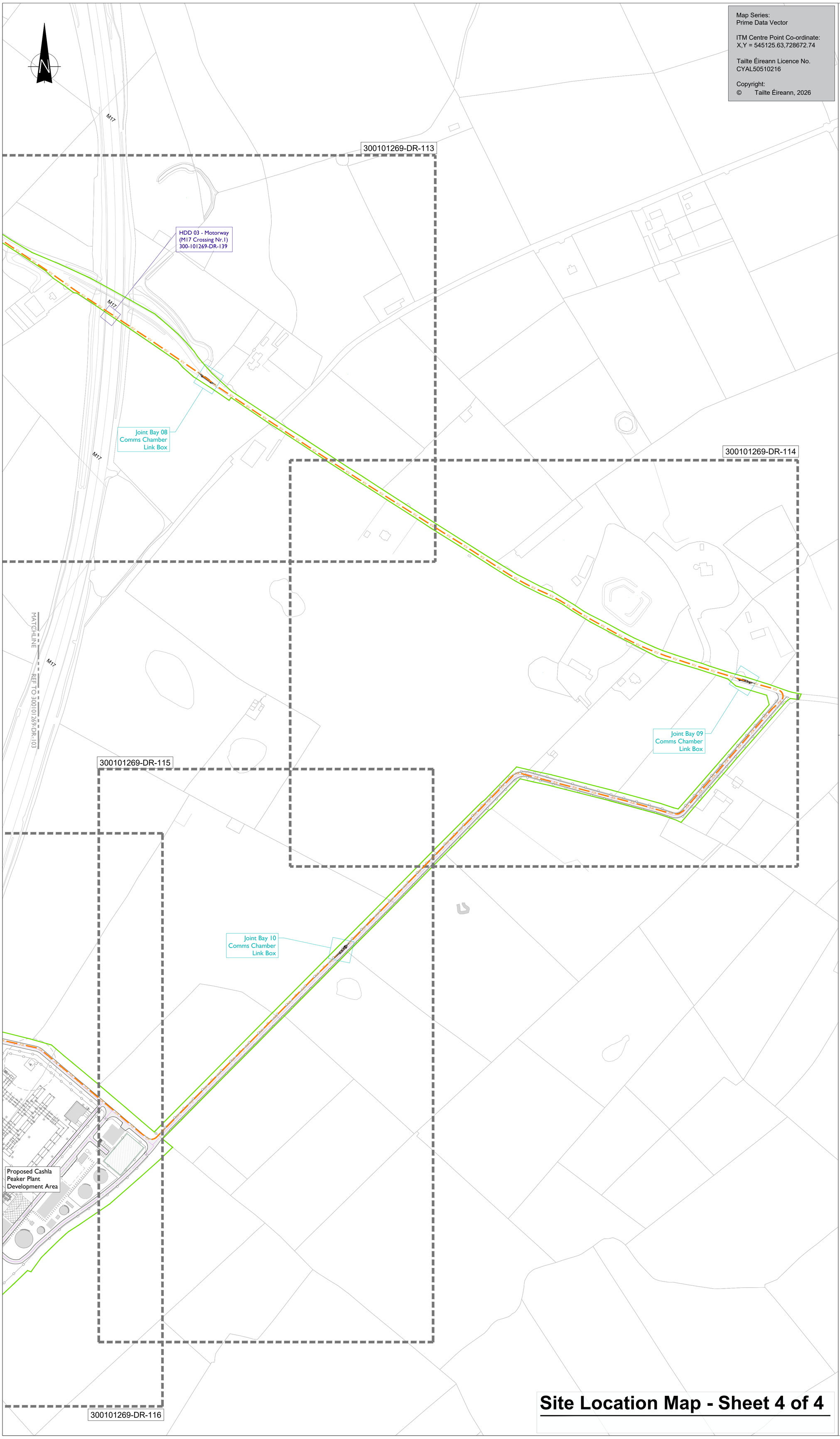
SHEET NUMBER

300101269-DR-103

Site Location Map - Sheet 3 of 4

ISO A1 594mm x 841mm

Project Management Initials: Designer: JC Checked: GC Approved: DB



Map Series:
Prime Data Vector

ITM Centre Point Co-ordinate:
X,Y = 545125.63,728672.74

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CYAL50510216

LEGEND: -

- Proposed 220 kV UGC Grid Connection Route (8.1km)
- Indicative Substation Layout and Grid Connection Route Corridor

NOTES: -

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- Other services may be encountered on the route.
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PROJECT

Indicative Cashla Peaker Plant 220kV Grid Connection and Substation - EIAR Drawings

CLIENT

Bord Gáis Energy

CONSULTANTS

AtkinsRéalis

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P2	03.02.26	Issued for Information
P1	05.09.25	Issued for Planning
N1	03.06.25	Issued for Information

PROJECT NUMBER

300-101269

SHEET TITLE

Indicative Site Location Map - Sheet 4 of 4

SHEET NUMBER

300101269-DR-104

Site Location Map - Sheet 4 of 4

ISO A1 594mm x 841mm

ISO A1 594mm x 841mm

Site Layout Plan - Sheet 1 of 12

Map Series:
Prime Data Vector

ITM Centre Point Co-ordinate:
X,Y = 545125.63,728672.74

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PROJECT

Indicative Cashla Peaker Plant 220kV Grid Connection and Substation - EIAR Drawings

CLIENT

Bord Gáis Energy

CONSULTANTS

AtkinsRéalis

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LEGEND: -

- Proposed 220 kV UGC Grid Connection Route (8.1km) — KV
- Indicative Substation Layout and Grid Connection Route Corridor
- Existing ESB OHL HV Network
- Existing ESB OHL LV/MV Networks
- Existing ESB UGC Networks — EC
- Irish Water Infrastructure — W
- Existing Eir Network OHL

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P2	03.02.26	Issued for Information
P1	05.09.25	Issued for Planning
N1	03.06.25	Issued for Information

PROJECT NUMBER

300-101269

SHEET TITLE

Indicative Site Layout Plan - Sheet 1 of 12

SHEET NUMBER

300101269-DR-105

Project Management Initials: Designer: JC Checked: GC Approved: DB

Project Management Initials: Designer: JC Checked: GC Approved: DB

MATCHLINE REF TO 300101269-DR-105

450m
500m
550m
600m
650m
700m
750m
800m
850m
900m
950m
1000m
1050m
1100m
1150m
1200m
1250m
1300m

Existing MV OHL

Joint Bay 2
Comms Chamber, Link Box

MATCHLINE REF TO 300101269-DR-107

Site Layout Plan - Sheet 2 of 12

Map Series:
Prime Data Vector

ITM Centre Point Co-ordinate:
X,Y = 545125.63,728672.74

Tailte Éireann Licence No.
CYAL50510216

LEGEND: -

- Proposed 220 kV UGC Grid Connection Route (8.1km)
- Indicative Substation Layout and Grid Connection Route Corridor
- Existing ESB OHL HV Network
- Existing ESB OHL LV/MV Networks
- Existing ESB UGC Networks
- Existing Eir Network OHL
- Existing Eir Network UGC

NOTES: -

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- Other services may be encountered on the route.
- This drawing has been prepared to inform an Environmental Impact Assessment for the Cashla Peaker Plant project and is for illustrative purposes only. Final detailed drawings for the proposed 220kV grid connection route and 220kV substation will be submitted as part of a S.182B planning application to An Coimisiún Pleanála in due course.

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PROJECT

Indicative Cashla Peaker Plant 220kV Grid Connection and Substation - EIAR Drawings

CLIENT

Bord Gáis Energy

CONSULTANTS

AtkinsRéalis

ISSUE/REVISION

P2	03.02.26	Issued for Information
P1	05.09.25	Issued for Planning
N1	03.06.25	Issued for Information
I/R	DATE	DESCRIPTION

PROJECT NUMBER

300-101269

SHEET TITLE

Indicative Site Layout Plan - Sheet 2 of 12

SHEET NUMBER

300101269-DR-106

ISO A1 594mm x 841mm

ISO A1 594mm x 841mm

Map Series:
Prime Data Vector

ITM Centre Point Co-ordinate:
X,Y = 545125.63,728672.74

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PROJECT

Indicative Cashla Peaker Plant 220kV Grid Connection and Substation - EIAR Drawings

CLIENT

Bord Gáis Energy

CONSULTANTS

AtkinsRéalis

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- This drawing has been prepared to inform an Environmental Impact Assessment for the Cashla Peaker Plant project and is for illustrative purposes only. Final detailed drawings for the proposed 220kV grid connection route and 220kV substation will be submitted as part of a S.182B planning application to An Coimisiún Pleanála in due course.

LEGEND: -

- Proposed 220 kV UGC Grid Connection Route (8.1km) — KV
- Indicative Substation Layout and Grid Connection Route Corridor
- Landowner Boundary Boundary
- Existing Eir Network OHL
- Existing Eir Network UGC

ISSUE/REVISION

P2	03.02.26	Issued for Information
P1	05.09.25	Issued for Planning
N1	03.06.25	Issued for Information
I/R	DATE	DESCRIPTION

PROJECT NUMBER

300-101269

SHEET TITLE

Indicative Site Layout Plan - Sheet 3 of 12

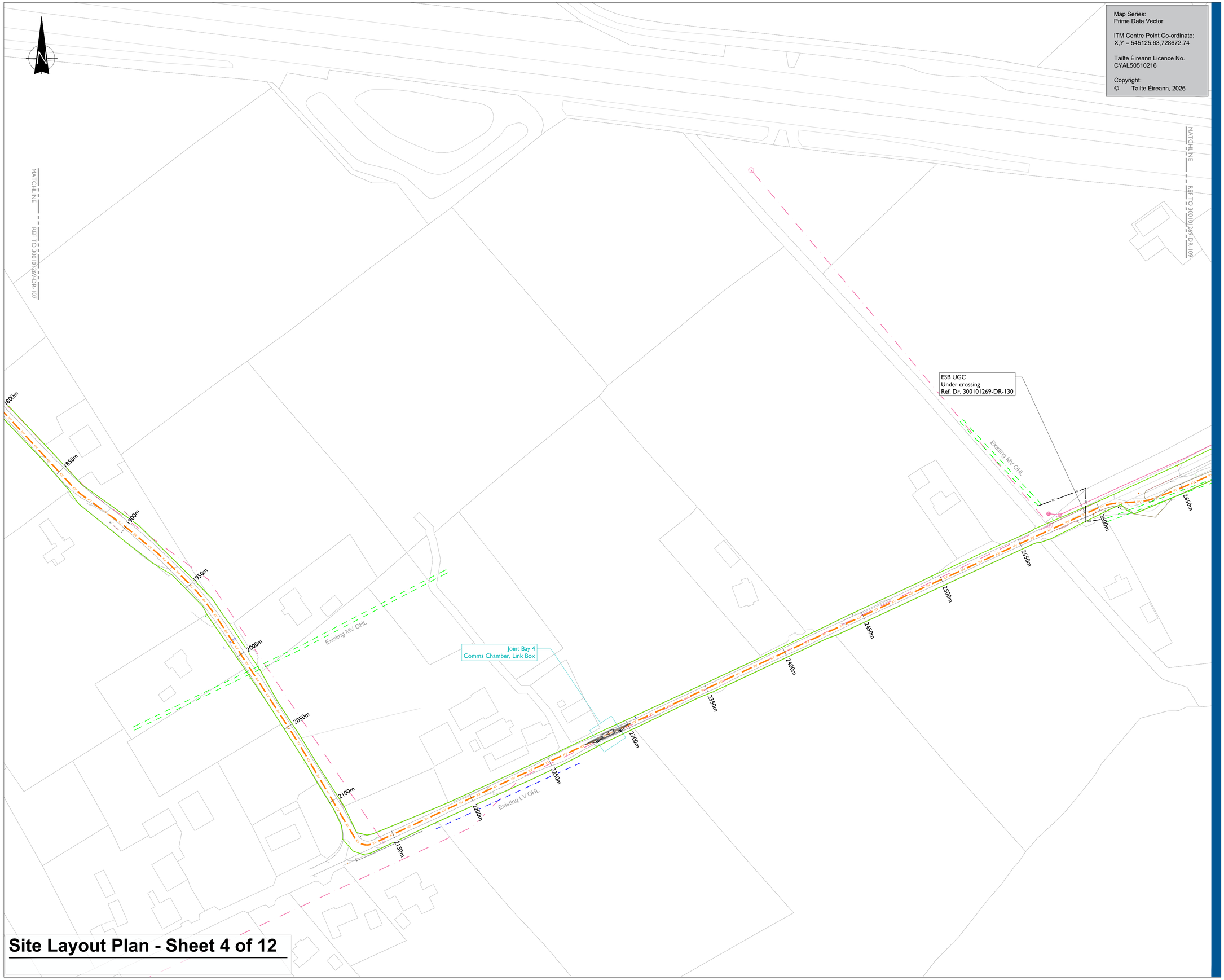
SHEET NUMBER

300101269-DR-107

Site Layout Plan - Sheet 3 of 12

Project Management Initials: Designer: JC Checked: GC Approved: DB

ISO A1 594mm x 841mm



Site Layout Plan - Sheet 4 of 12

Project Management Initials: Designer; JC Checked: GC Approved: DB

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PROJECT

Indicative Cashla Peaker Plant 220kV Grid Connection and Substation - EIAR Drawings

CLIENT

Bord Gáis Energy

CONSULTANTS

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LEGEND: -

- Proposed 220 kV UGC Grid Connection Route (8.1km)
- Indicative Substation Layout and Grid Connection Route Corridor
- Landowner Boundary Boundary
- Existing ESB OHL LV/MV Networks
- Existing ESB UGC Networks
- Existing Eir Network OHL
- Existing Eir Network UGC
- Existing Road Survey

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P2	03.02.26	Issued for Information
P1	05.09.25	Issued for Planning
N1	03.06.25	Issued for Information

PROJECT NUMBER

300-101269

SHEET TITLE

Indicative Site Layout Plan - Sheet 4 of 12

SHEET NUMBER

300101269-DR-108

ISO A1 594mm x 841mm

Map Series:
Prime Data Vector

ITM Centre Point Co-ordinate:
X,Y = 545125.63,728672.74

Tailte Éireann Licence No.
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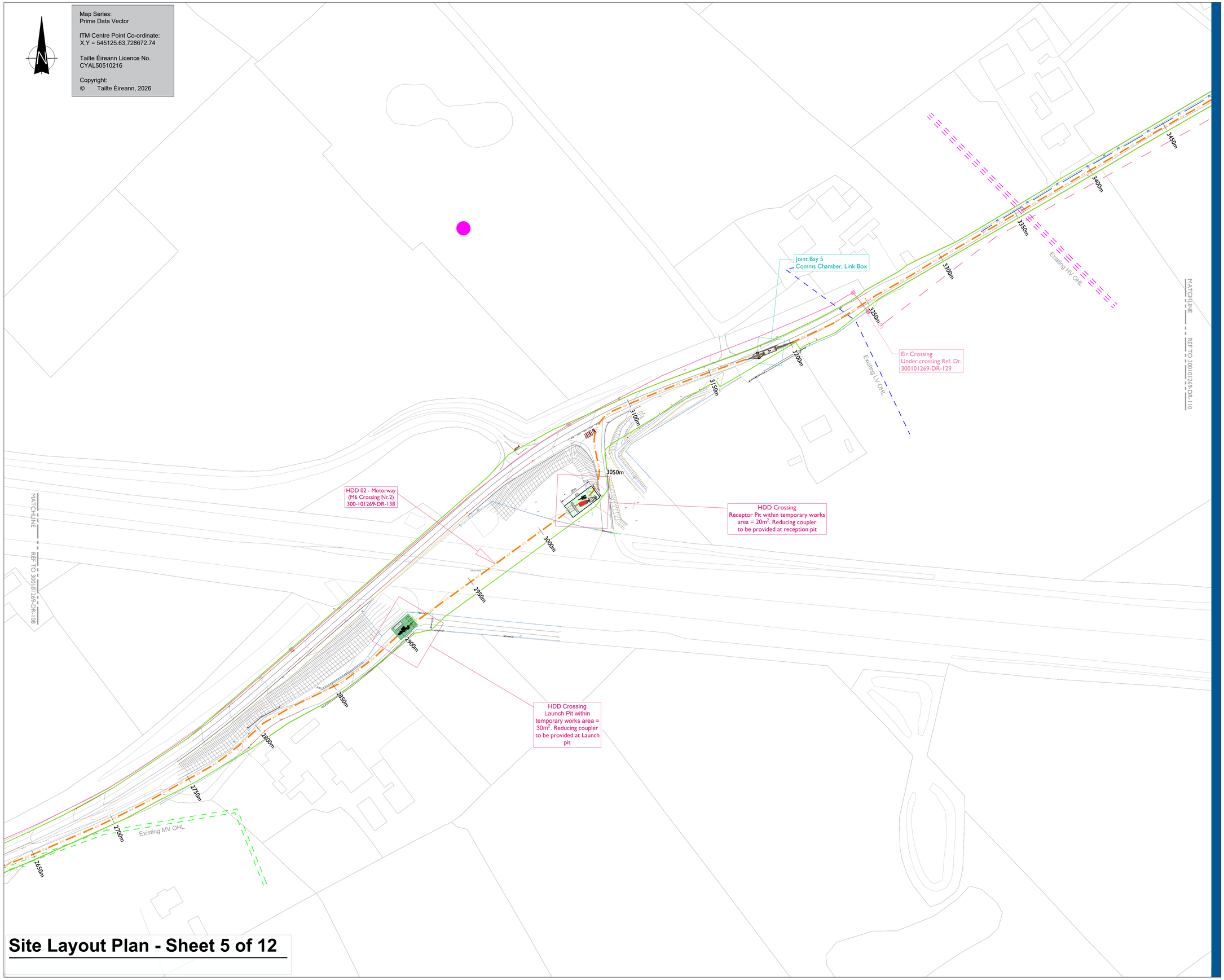

Site Layout Plan - Sheet 5 of 12

Project Management Initials:
Designer: JC
Checked: GC
Approved: DB

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PROJECT

Indicative Cashla Peaker Plant 220kV Grid Connection and Substation - EIAR Drawings

CLIENT

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- Other services may be encountered on the route.
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LEGEND: -

- Proposed 220 kV UGC Grid Connection Route (8.1km)
- Indicative Substation Layout and Grid Connection Route Corridor
- Existing ESB OHL HV Network
- Existing ESB OHL LV/MV Networks
- Irish Water Infrastructure
- Existing Eir Network OHL
- Existing Eir Network UGC
- Existing Road Edge Survey
- Monuments

ISSUE/REVISION

P2	03.02.26	Issued for Information
N2	05.11.25	Issued for Information
P1	05.09.25	Issued for Planning
N1	03.06.25	Issued for Information
I/R	DATE	DESCRIPTION

PROJECT NUMBER

300-101269

SHEET TITLE

Indicative Site Layout Plan - Sheet 5 of 12

SHEET NUMBER

300101269-DR-109

ISO A1 594mm x 841mm

Map Series:
Prime Data Vector

ITM Centre Point Co-ordinate:
X,Y = 545125.63,728672.74

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Site Layout Plan - Sheet 6 of 12

Project Management Initials: Designer: JC Checked: GC Approved: DB

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PROJECT

Indicative Cashla Peaker Plant 220kV Grid Connection and Substation - EIAR Drawings

CLIENT

Bord Gáis Energy

CONSULTANTS

AtkinsRéalis

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LEGEND: -

- Proposed 220 kV UGC Grid Connection Route (8.1km)
- Indicative Substation Layout and Grid Connection Route Corridor
- Existing ESB OHL HV Network
- Existing ESB OHL LV/MV Networks
- Irish Water Infrastructure
- Existing Eir Network OHL
- Existing Irish Gas Networks

ISSUE/REVISION

P2	03.02.26	Issued for Information
N2	05.11.25	Issued for Information
P1	05.09.25	Issued for Planning
N1	03.06.25	Issued for Information
I/R	DATE	DESCRIPTION

PROJECT NUMBER

300-101269

SHEET TITLE

Indicative Site Layout Plan - Sheet 6 of 12

SHEET NUMBER

300101269-DR-110

ISO A1 594mm x 841mm

Map Series:
Prime Data Vector

ITM Centre Point Co-ordinate:
X,Y = 545125.63,728672.74

Tailte Éireann Licence No.
CYAL50510216

MATCHLINE REF TO 300101269-DR-112

4600m
4550m
4500m
4450m
4400m
4350m
4300m
4250m
4200m
4150m
4100m
4050m

Existing LV OHL
Existing MV OHL
Existing MV OHL
Existing LV OHL

Joint Bay 6
Comms Chamber,
Link Box

MATCHLINE REF TO 300101269-DR-110

Site Layout Plan - Sheet 7 of 12

Project Management Initials:
Designer: JC
Checked: GC
Approved: DB

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Tel: 00 44 1256406664

PROJECT

Indicative Cashla Peaker Plant 220kV Grid Connection and Substation - EIAR Drawings

CLIENT

Bord Gáis Energy

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LEGEND: -

- Proposed 220 kV UGC Grid Connection Route (8.1km) — KV
- Indicative Substation Layout and Grid Connection Route Corridor
- Existing ESB OHL LV/MV Networks
- Existing ESB UGC Networks — EC
- Irish Water Infrastructure — W
- Existing Eir Network OHL
- Existing Eir Network UGC
- Monuments

ISSUE/REVISION

P2	03.02.26	Issued for Information
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P1	05.09.25	Issued for Planning
N1	03.06.25	Issued for Information
I/R	DATE	DESCRIPTION

PROJECT NUMBER

300-101269

SHEET TITLE

Indicative Site Layout Plan - Sheet 7 of 12

SHEET NUMBER

300101269-DR-111

Project Management Initials: Designer: JC Checked: GC Approved: DB

Map Series:
Prime Data Vector

ITM Centre Point Co-ordinate:
X,Y = 545125.63,728672.74

Tailte Éireann Licence No.
CYAL50510216

LEGEND: -

- Proposed 220 kV UGC Grid Connection Route (8.1km)
- Indicative Substation Layout and Grid Connection Route Corridor
- Existing ESB OHL LV/MV Networks
- Irish Water Infrastructure
- Existing Eir Network OHL
- Existing Eir Network UGC
- Monuments

Irish Water Crossing
Under crossing
Ref. Dr. 300101269-DR-131

Joint Bay 07
Comms Chamber,
Link Box

Existing MV OHL

Existing MV OHL

Irish Water Crossing
Under crossing
Ref. Dr. 300101269-DR-131

5000m 4950m 4900m 4850m 4800m 4750m 4700m 4650m 4600m
5050m 5100m 5150m 5200m 5250m 5300m 5350m 5400m

MATCHLINE REF TO 300101269-DR-113

MATCHLINE REF TO 300101269-DR-111

NOTES: -

- This drawing is to be used only for the purpose of the planning application and is subject to detailed design.
- Position of underground cable and location of joint bays, links boxes and comms chambers may vary depending on site conditions.
- Position of link boxes and comms chambers is to be agreed onsite with EirGrid/ESB.
- Other services may be encountered on the route.
- This drawing has been prepared to inform an Environmental Impact Assessment for the Cashla Peaker Plant project and is for illustrative purposes only. Final detailed drawings for the proposed 220kV grid connection route and 220kV substation will be submitted as part of a S.182B planning application to An Coimisiún Pleanála in due course.

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PROJECT

Indicative Cashla Peaker Plant 220kV Grid Connection and Substation - EIAR Drawings

CLIENT

Bord Gáis Energy

CONSULTANTS

AtkinsRéalis

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P2	03.02.26	Issued for Information
N2	05.11.25	Issued for Information
P1	05.09.25	Issued for Planning
N1	03.06.25	Issued for Information

PROJECT NUMBER

300-101269

SHEET TITLE

Indicative Site Layout Plan - Sheet 8 of 12

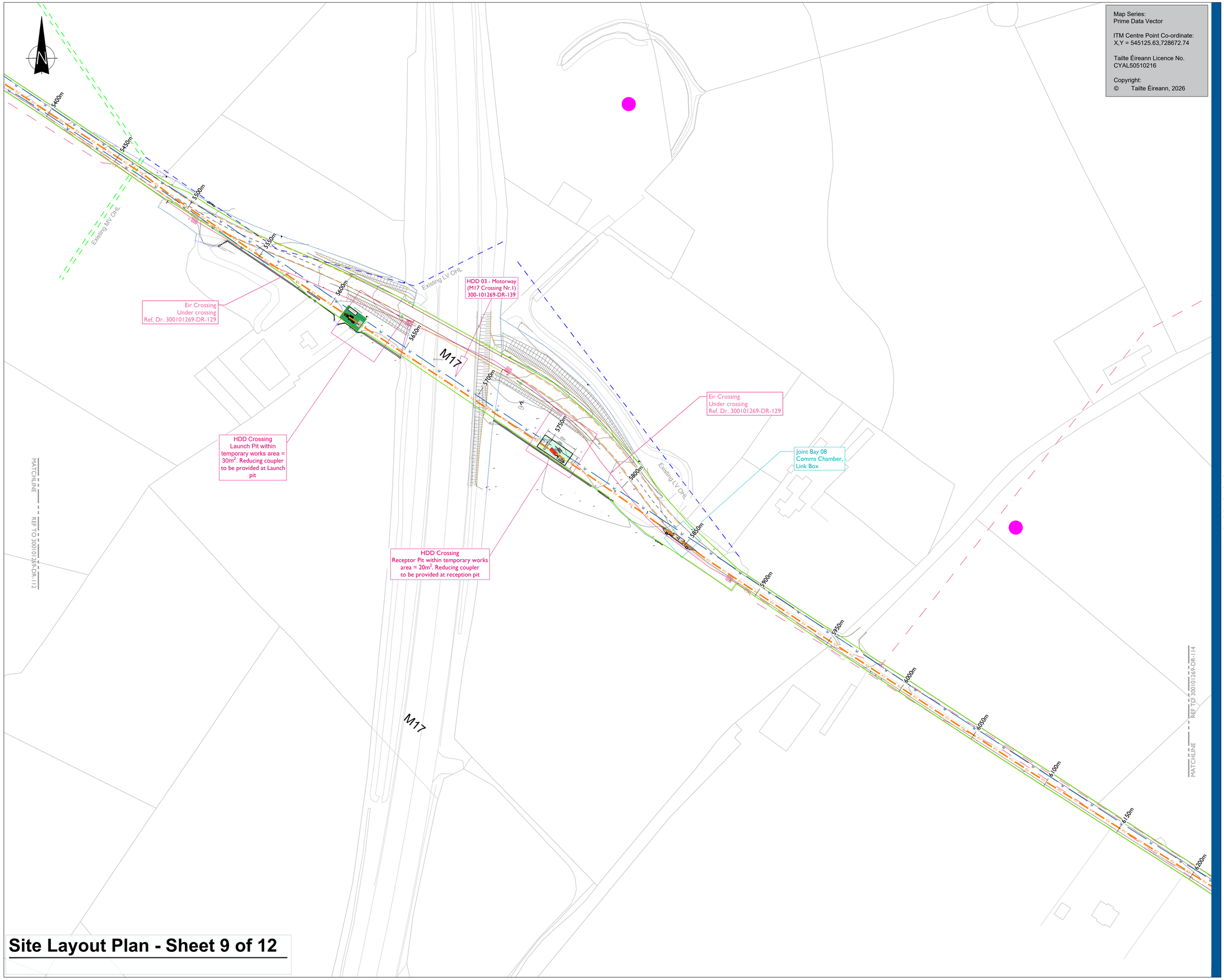
SHEET NUMBER

300101269-DR-112

Site Layout Plan - Sheet 8 of 12

ISO A1 594mm x 841mm

ISO A1 594mm x 841mm



Site Layout Plan - Sheet 9 of 12

Project Management Initials: Designer: JC Checked: GC Approved: DB

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PROJECT

Indicative Cashla Peaker Plant 220kV Grid Connection and Substation - EIAR Drawings

CLIENT

Bord Gáis Energy

CONSULTANTS

AtkinsRéalis

NOTES: -

- This drawing is to be used only for the purpose of the planning application and is subject to detailed design.
- Position of underground cable and location of joint bays, links boxes and comms chambers may vary depending on site conditions.
- Position of link boxes and comms chambers is to be agreed onsite with EirGrid/ESB.
- Other services may be encountered on the route.
- Position of HDD launch/reception shown points are indicative only and will be subject to site investigation works and detailed design.
- This drawing has been prepared to inform an Environmental Impact Assessment for the Cashla Peaker Plant project and is for illustrative purposes only. Final detailed drawings for the proposed 220kV grid connection route and 220kV substation will be submitted as part of a S.182B planning application to An Coimisiún Pleanála in due course.

LEGEND: -

- Proposed 220 kV UGC Grid Connection Route (8.1km) — KV
- Indicative Substation Layout and Grid Connection Route Corridor
- Existing ESB OHL LV/MV Networks
- Irish Water Infrastructure — W
- Existing Eir Network OHL
- Existing Eir Network UGC
- Existing Road Edge Survey
- Monuments

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P2	03.02.26	Issued for Information
N2	05.11.25	Issued for Information
P1	05.09.25	Issued for Planning
N1	03.06.25	Issued for Information

PROJECT NUMBER

300-101269

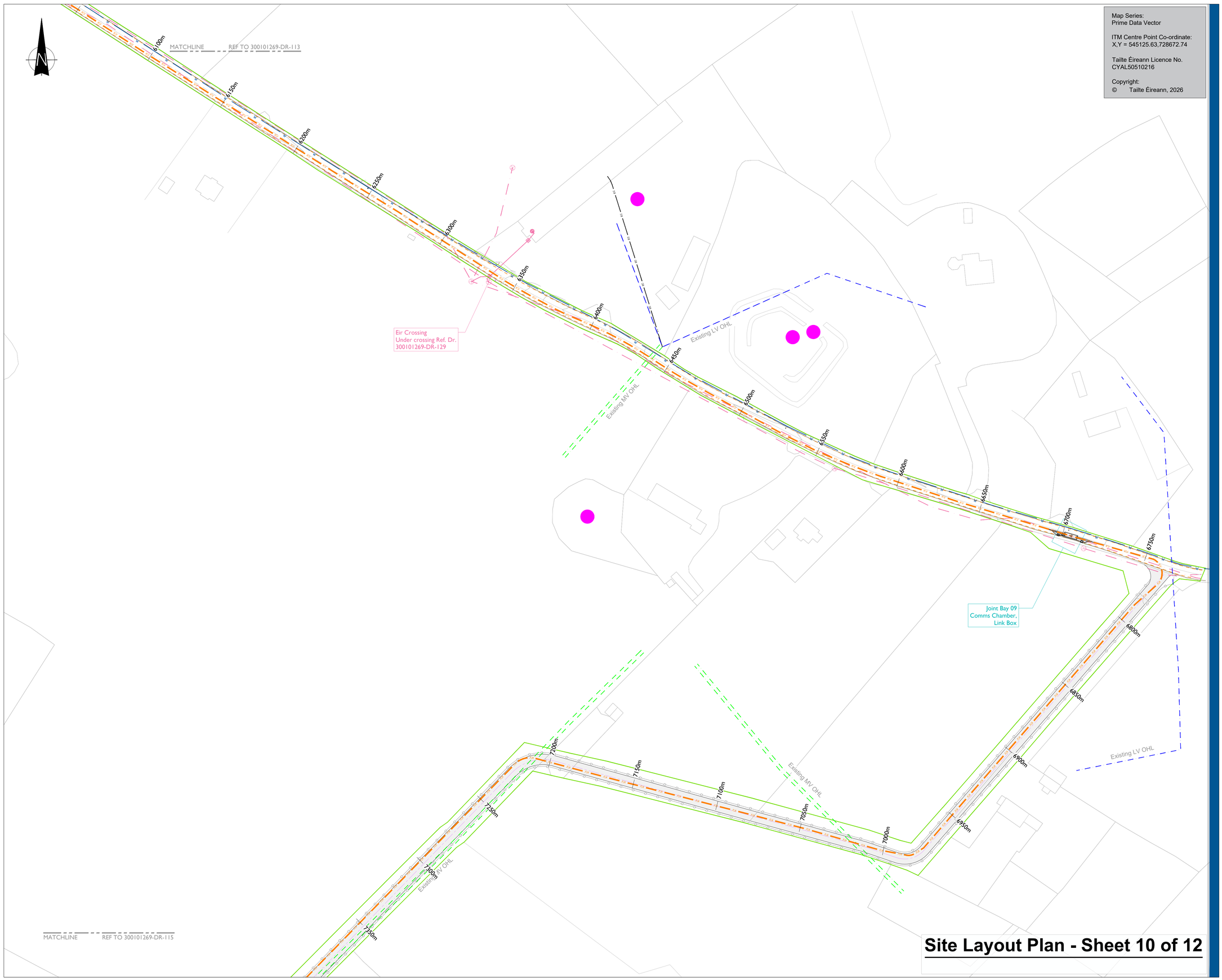
SHEET TITLE

Indicative Site Layout Plan - Sheet 9 of 12

SHEET NUMBER

300101269-DR-113

ISO A1 594mm x 841mm



Map Series:
Prime Data Vector

ITM Centre Point Co-ordinate:
X,Y = 545125.63,728672.74

Tailte Éireann Licence No.
CYAL50510216

Site Layout Plan - Sheet 10 of 12

Project Management Initials: Designer: JC Checked: GC Approved: DB

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PROJECT

Indicative Cashla Peaker Plant 220kV Grid Connection and Substation - EIAR Drawings

CLIENT

Bord Gáis Energy

CONSULTANTS

AtkinsRéalis

NOTES: -

- This drawing is to be used only for the purpose of the planning application and is subject to detailed design.
- Position of underground cable and location of joint bays, links boxes and comms chambers may vary depending on site conditions.
- Position of link boxes and comms chambers is to be agreed onsite with EirGrid/ESB.
- Other services may be encountered on the route.
- This drawing has been prepared to inform an Environmental Impact Assessment for the Cashla Peaker Plant project and is for illustrative purposes only. Final detailed drawings for the proposed 220kV grid connection route and 220kV substation will be submitted as part of a S.182B planning application to An Coimisiún Pleanála in due course.

LEGEND: -

- Proposed 220 kV UGC Grid Connection Route (8.1km)
- Indicative Substation Layout and Grid Connection Route Corridor
- Existing ESB OHL LV/MV Networks
- Existing ESB UGC Networks
- Irish Water Infrastructure
- Existing Eir Network OHL
- Existing Eir Network UGC
- Existing Road Edge Survey
- Monuments

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P2	03.02.26	Issued for Information
N2	05.11.25	Issued for Information
P1	05.09.25	Issued for Planning
N1	03.06.25	Issued for Information

PROJECT NUMBER

300-101269

SHEET TITLE

Indicative Site Layout Plan - Sheet 10 of 12

SHEET NUMBER

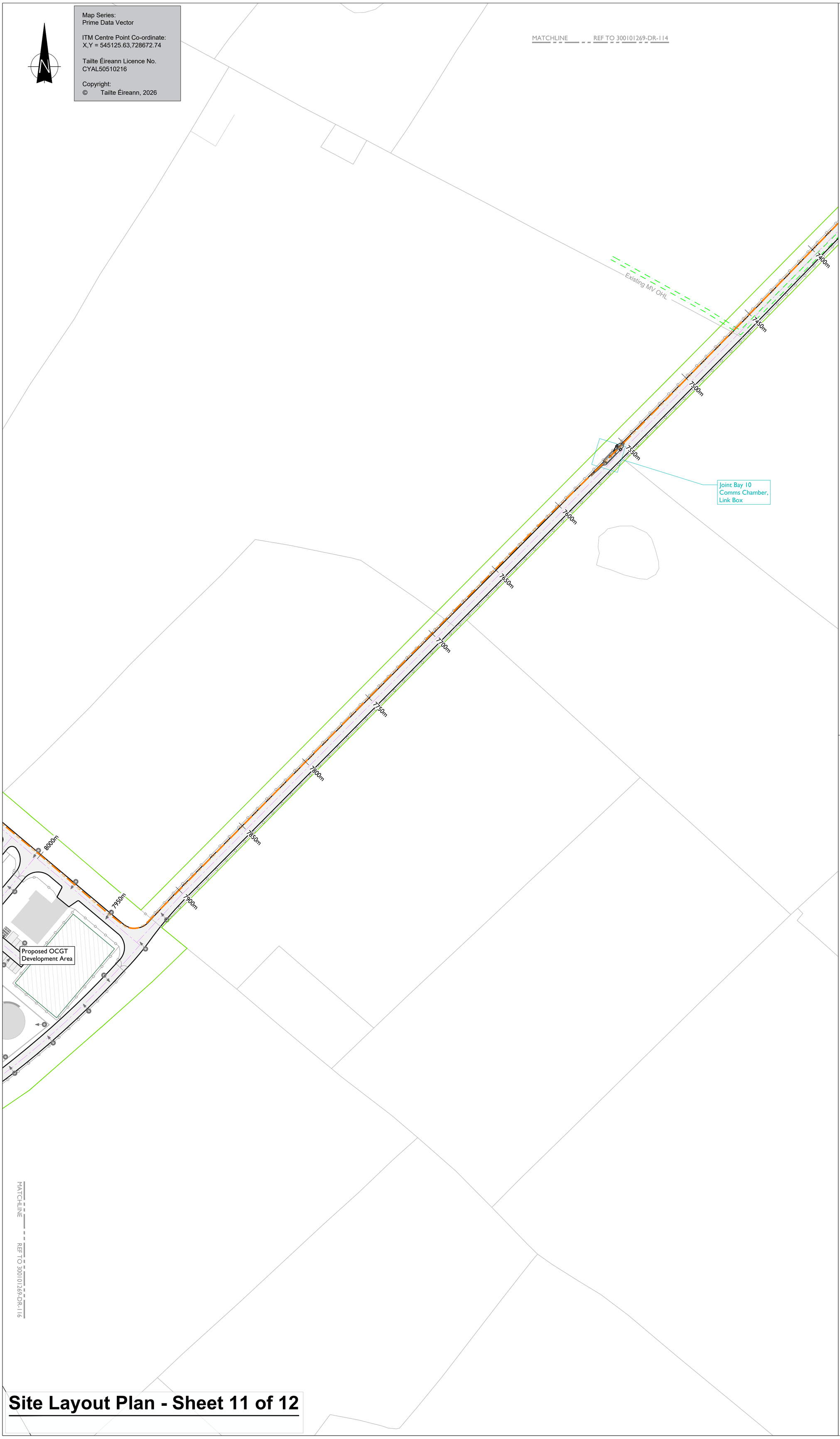
300101269-DR-114

Project Management Initials: Designer: JC Checked: GC Approved: DB

Map Series:
Prime Data Vector

ITM Centre Point Co-ordinate:
X,Y = 545125.63,728672.74

Tailte Éireann Licence No.
CYAL50510216



LEGEND: -

- Proposed 220 kV UGC Grid Connection Route (8.1km) — KV
- Indicative Substation Layout and Grid Connection Route Corridor
- Existing ESB OHL LV/MV Networks

NOTES: -

- This drawing is to be used only for the purpose of the planning application and is subject to detailed design.
- Position of underground cable and location of joint bays, links boxes and comms chambers may vary depending on site conditions.
- Position of link boxes and comms chambers is to be agreed onsite with EirGrid/ESB.
- Other services may be encountered on the route.
- This drawing has been prepared to inform an Environmental Impact Assessment for the Cashla Peaker Plant project and is for illustrative purposes only. Final detailed drawings for the proposed 220kV grid connection route and 220kV substation will be submitted as part of a S.182B planning application to An Coimisiún Pleanála in due course.

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PROJECT

Indicative Cashla Peaker Plant 220kV Grid Connection and Substation - EIAR Drawings

CLIENT

Bord Gáis Energy

CONSULTANTS

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ISSUE/REVISION

I/R	DATE	DESCRIPTION
P2	03.02.26	Issued for Information
N2	05.11.25	Issued for Information
P1	05.09.25	Issued for Planning
N1	03.06.25	Issued for Information

PROJECT NUMBER

300-101269

SHEET TITLE

Indicative Site Layout Plan - Sheet 11 of 12

SHEET NUMBER

300101269-DR-115

Site Layout Plan - Sheet 11 of 12

ISO A1 594mm x 841mm

Project Management Initials: Designer: JC Checked: GC Approved: DB

	Description
SA	Surge Arrester.
DL/DE	Line / Earth Disconnect.
DT	Trafo Disconnect
VT	Voltage Transformer.
CT	Current Transformer.
CB	Circuit Breaker.
PI	Post Insulator.
LM	Lighting Mast.
LS	Lamp Standard
CSE	Cable Sealing End
CT/VT	Combined Current/Voltage Transformer

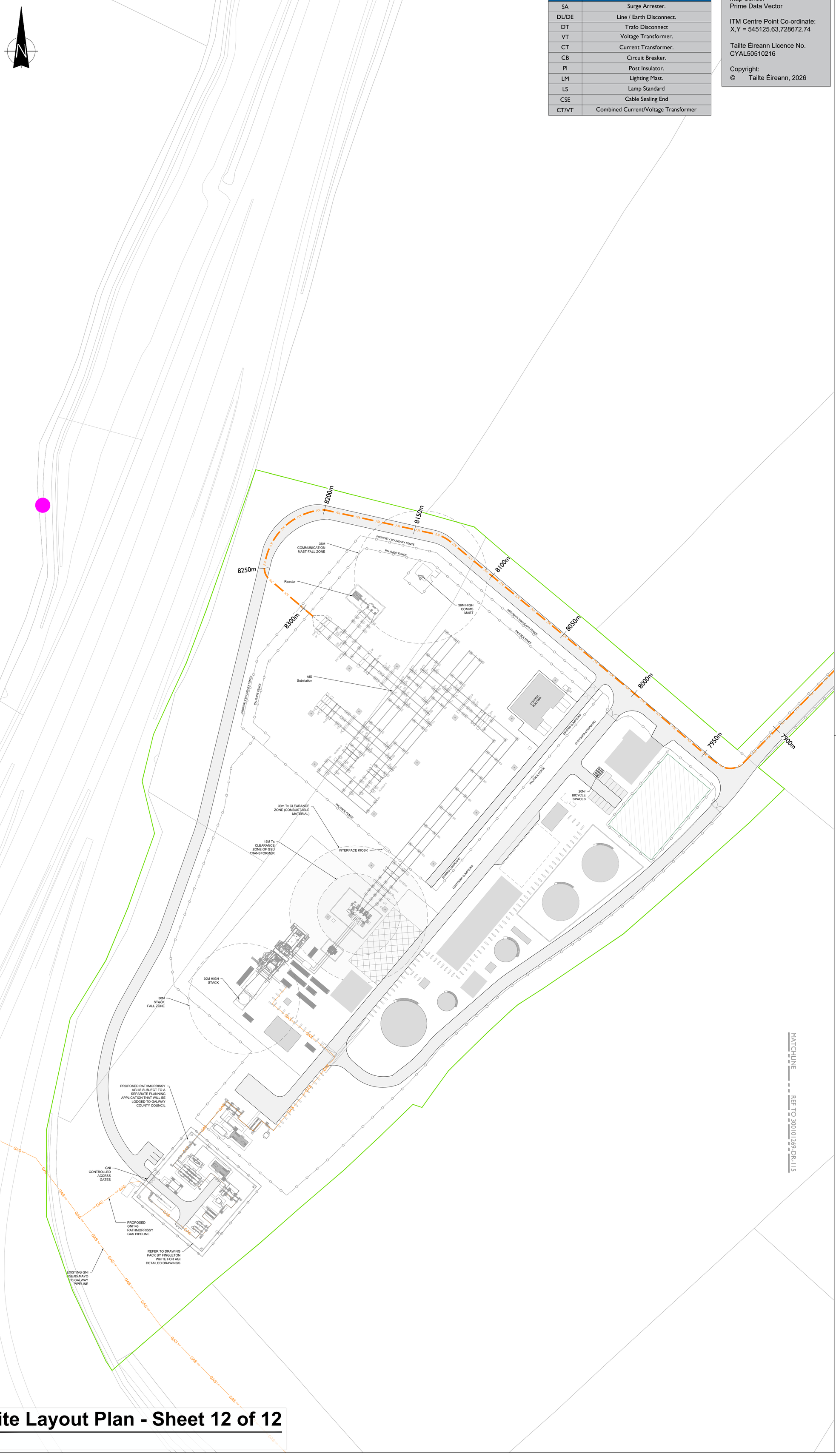
Map Series:
Prime Data Vector

ITM Centre Point Co-ordinate:
X,Y = 545125.63,728672.74

Tailte Éireann Licence No.
CYAL50510216

LEGEND: -

- Proposed 220 kV UGC Grid Connection Route (8.1km) — KV
- Indicative Substation Layout and Grid Connection Route Corridor
- Proposed & Existing Gas networks — GAS 1MP
- Monuments



NOTES: -

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- Position of underground cable and location of joint bays, links boxes and comms chambers may vary depending on site conditions.
- Position of link boxes and comms chambers is to be agreed onsite with EirGrid/ESB.
- Other services may be encountered on the route.
- This drawing has been prepared to inform an Environmental Impact Assessment for the Cashla Peaker Plant project and is for illustrative purposes only. Final detailed drawings for the proposed 220kV grid connection route and 220kV substation will be submitted as part of a S.182B planning application to An Coimisiún Pleanála in due course.

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PROJECT

Indicative Cashla Peaker Plant 220kV Grid Connection and Substation - EIAR Drawings

CLIENT

Bord Gáis Energy

CONSULTANTS

AtkinsRéalis

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P2	03.02.26	Issued for Information
P1	05.09.25	Issued for Planning
N1	03.06.25	Issued for Information

PROJECT NUMBER

300-101269

SHEET TITLE

Indicative Site Layout Plan - Sheet 12 of 12

SHEET NUMBER

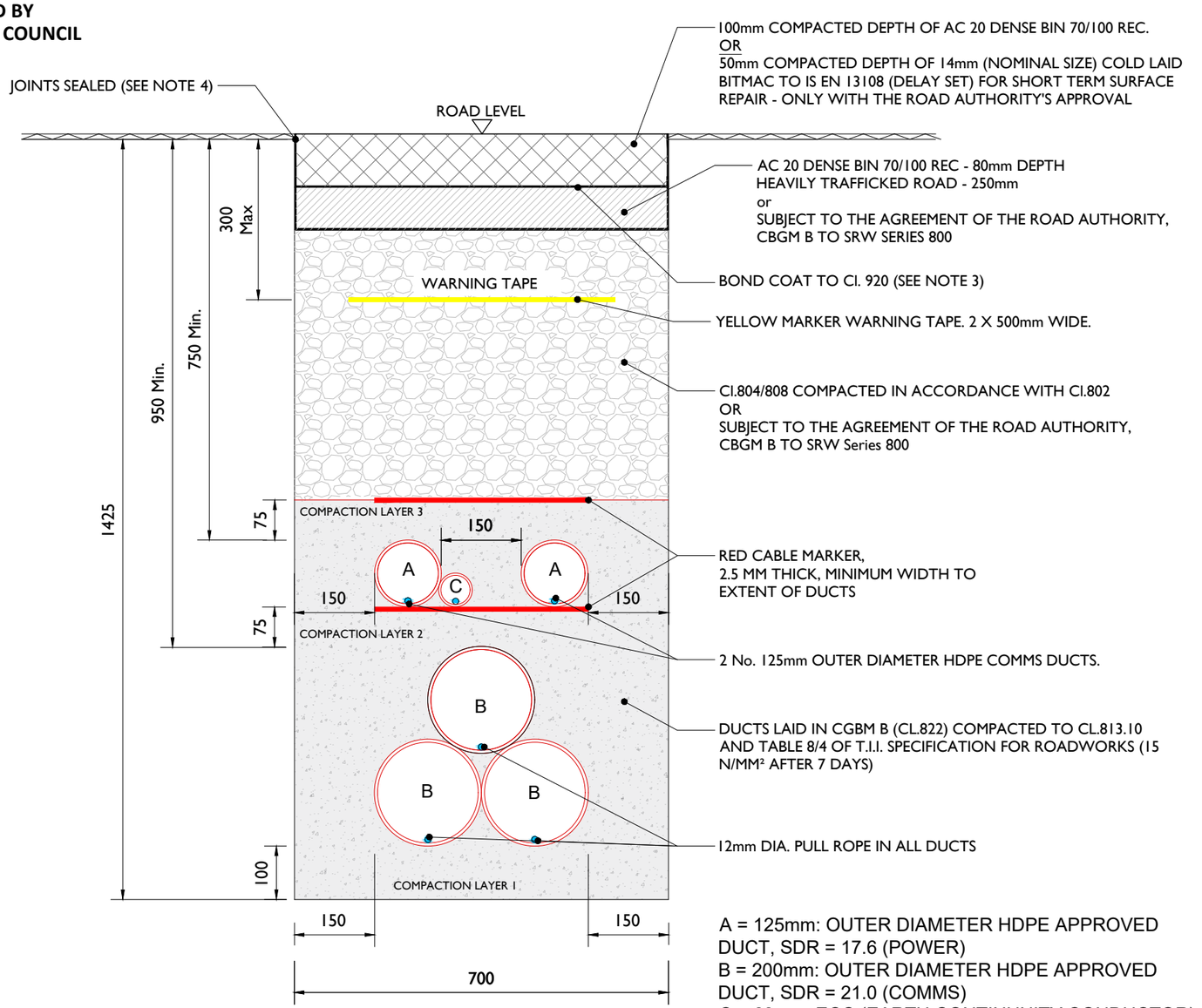
300101269-DR-116

Site Layout Plan - Sheet 12 of 12

ISO A1 594mm x 841mm

Reinstatement details based on Guidelines for Managing Openings in Public Roads - SD1

EXISTING ROAD BUILD-UP TO BE CONFIRMED BY GALWAY COUNTY COUNCIL



A = 125mm: OUTER DIAMETER HDPE APPROVED DUCT, SDR = 17.6 (POWER)
B = 200mm: OUTER DIAMETER HDPE APPROVED DUCT, SDR = 21.0 (COMMS)
C = 63mm: ECC (EARTH CONTINUNITY CONDUCTOR) DUCT,

Typical Section Through Temporary Reinstatement of Longitudinal Opening in Roadway

ALL REINSTATEMENT WORKS ARE TO BE IN ACCORDANCE WITH LOCAL AREA ENGINEERS REQUIREMENTS AND GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS

NOTES:

1. Refer to 'Guidelines for managing Openings in Public Roads (Purple Book - April 2017)', Chapter 6 'Specifications' for guidance on Duct type / colour and Marker Tape type / colour.
2. All bound edges shall be saw cut to expose the full vertical thickness of each layer prior to excavation. All edges shall be essentially straight, smooth and vertical.
3. Clause 808 surface to be sprayed per clause 920 prior to application of Asphalt Concrete Layer.
4. Joint sealer shall be a hot 40/60 pen bitumen binder or cold thixotropic bitumen 50-70 pen to be applied to all vertical cuts in accordance with B.S. 594987 prior to application of bituminous materials.
5. Licence holder must maintain temporary reinstatement to a safe and acceptable standard.
6. Any damaged area adjacent to the opening and resulting from the excavation operation shall be included within the area to be reinstated.
7. Temporary road Surface warning signs must be used in accordance with the Traffic Signs Manual (Chaper 8 - Temporary Traffic Measures and Signs for Roadworks) and RLS 8/2007.
8. Refer to detail Permanent Reinstatement of Road for advice on permanent reinstatement - all permanent reinstatement shall be carried out when adequate settlement has occurred as determined by the Road Authority.
9. This drawing has been prepared to inform an Environmental Impact Assessment for the Cashla Peaker Plant project and is for illustrative purposes only. Final detailed drawings for the proposed 220kV grid connection route and 220kV substation will be submitted as part of a S.182B planning application to An Coimisiún Pleanála in due course.

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AtkinsRéalis

PROJECT
Indicative Cashla Peaker Plant 220kV Grid Connection and Substation - EIAR Drawings

PROJECT NUMBER
300-101269

SHEET NUMBER
300101269-DR-117

SHEET TITLE
220kV Ducts in Local Road Temporary Reinstatement (SD1) With ECC

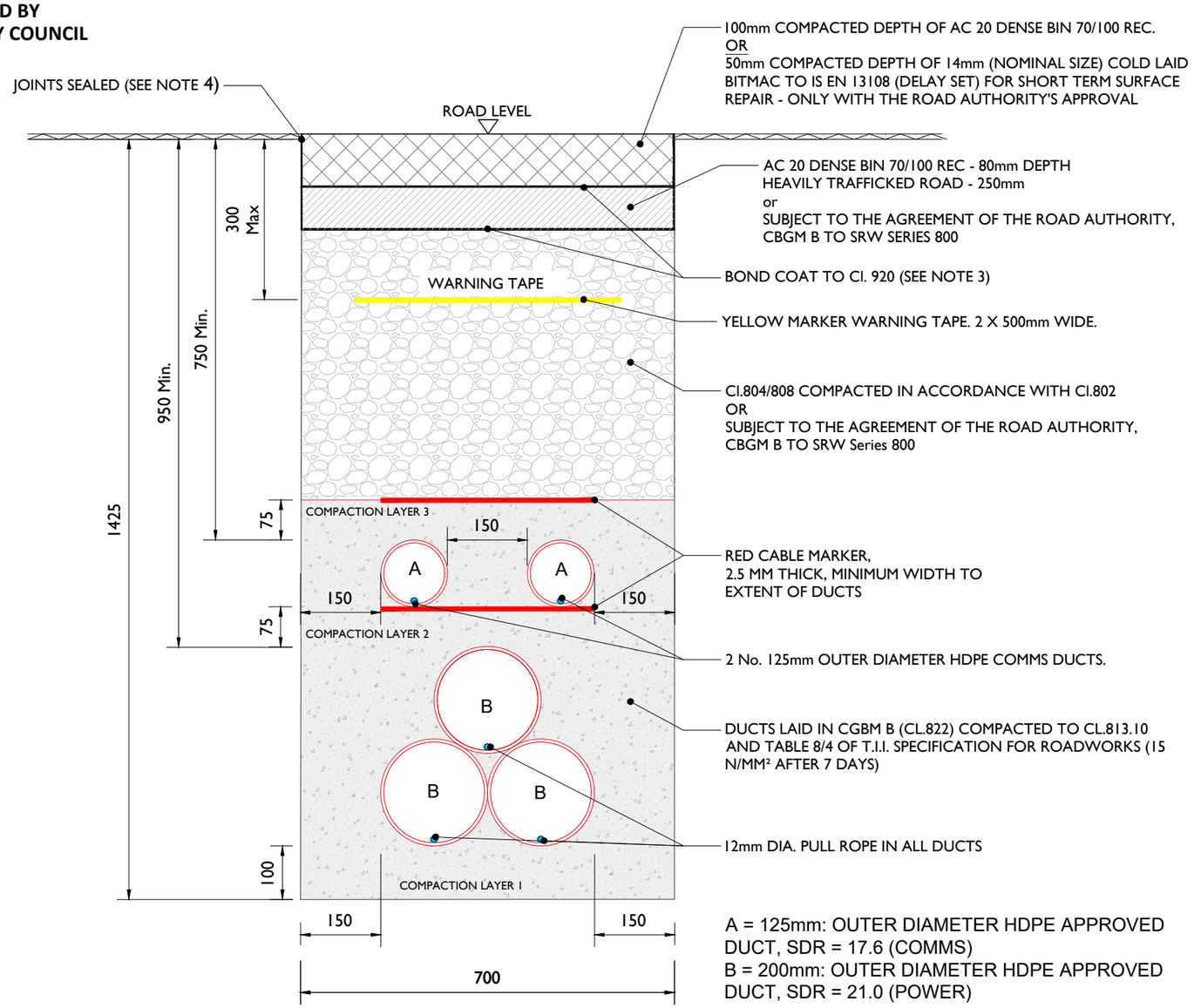
DRAWING STATUS
For Planning

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P2	03.02.26	Issued for Information
P1	05.09.25	Issued for Planning
N1	03.06.25	Issued for Information

Reinstatement details based on Guidelines for Managing Openings in Public Roads - SD1

EXISTING ROAD BUILD-UP TO BE CONFIRMED BY GALWAY COUNTY COUNCIL



Typical Section Through Temporary Reinstatement of Longitudinal Opening in Roadway

ALL REINSTATEMENT WORKS ARE TO BE IN ACCORDANCE WITH LOCAL AREA ENGINEERS REQUIREMENTS AND GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS

NOTES:

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2. All bound edges shall be saw cut to expose the full vertical thickness of each layer prior to excavation. All edges shall be essentially straight, smooth and vertical.
3. Clause 808 surface to be sprayed per clause 920 prior to application of Asphalt Concrete Layer.
4. Joint sealer shall be a hot 40/60 pen bitumen binder or cold thixotropic bitumen 50-70 pen to be applied to all vertical cuts in accordance with B.S. 594987 prior to application of bituminous materials.
5. Licence holder must maintain temporary reinstatement to a safe and acceptable standard.
6. Any damaged area adjacent to the opening and resulting from the excavation operation shall be included within the area to be reinstated.
7. Temporary road Surface warning signs must be used in accordance with the Traffic Signs Manual (Chaper 8 - Temporary Traffic Measures and Signs for Roadworks) and RLS 8/2007.
8. Refer to detail Permanent Reinstatement of Road for advice on permanent reinstatement - all permanent reinstatement shall be carried out when adequate settlement has occurred as determined by the Road Authority.
9. This drawing has been prepared to inform an Environmental Impact Assessment for the Cashla Peaker Plant project and is for illustrative purposes only. Final detailed drawings for the proposed 220kV grid connection route and 220kV substation will be submitted as part of a S.182B planning application to An Coimisiún Pleanála in due course.

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PROJECT
Indicative Cashla Peaker Plant 220kV Grid Connection and Substation - EIAR Drawings

PROJECT NUMBER
300-101269

SHEET NUMBER
300101269-DR-118

SHEET TITLE
220kV Ducts in Local Road Temporary Reinstatement (SD1) No ECC

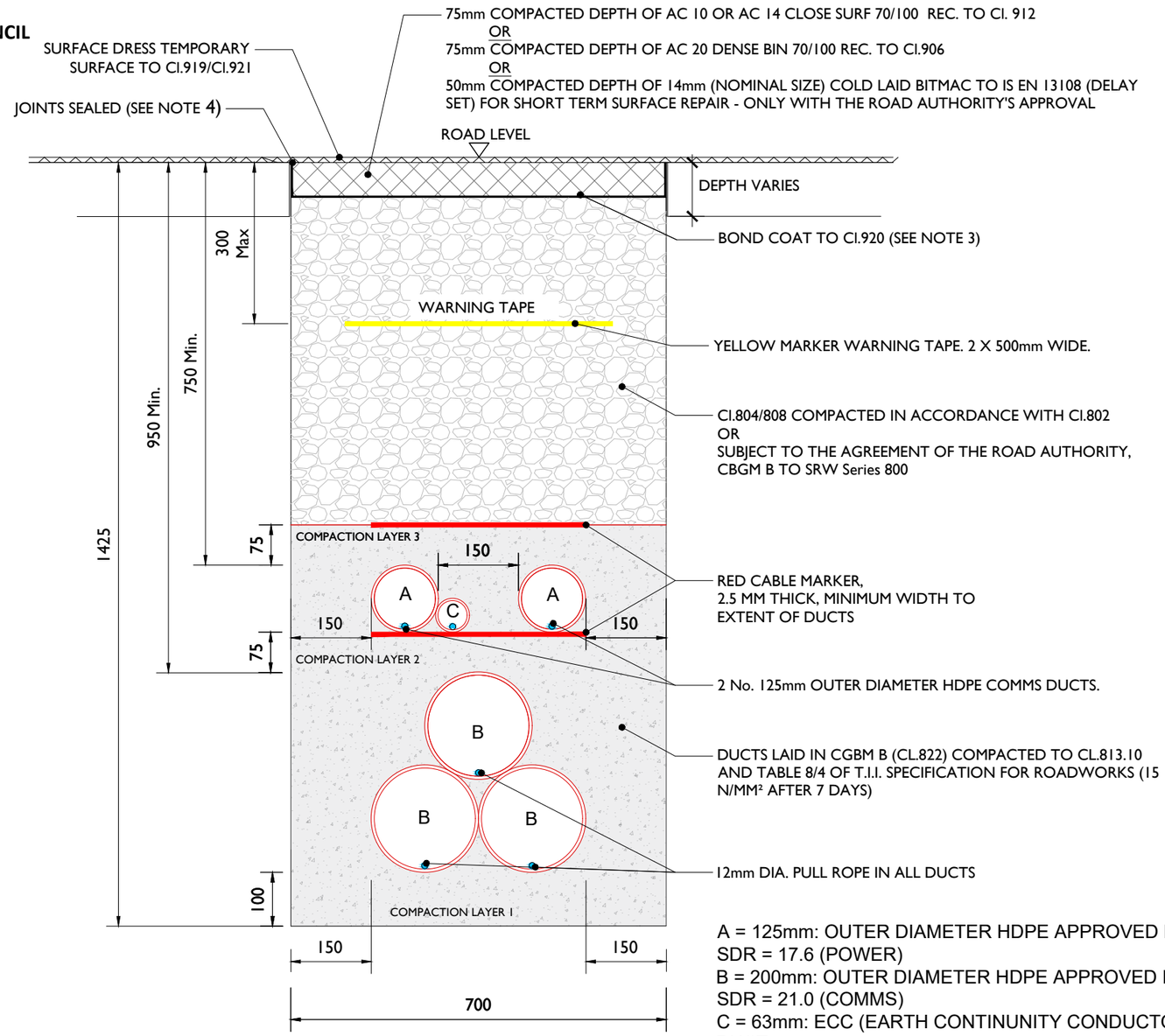
DRAWING STATUS
For Planning

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P2	03.02.26	Issued for Information
P1	05.09.25	Issued for Planning
N1	03.06.25	Issued for Information

Reinstatement details based on Guidelines for Managing Openings in Public Roads - SD2

EXISTING ROAD BUILD-UP TO BE CONFIRMED BY GALWAY COUNTY COUNCIL



A = 125mm: OUTER DIAMETER HDPE APPROVED DUCT, SDR = 17.6 (POWER)
B = 200mm: OUTER DIAMETER HDPE APPROVED DUCT, SDR = 21.0 (COMMS)
C = 63mm: ECC (EARTH CONTINUNITY CONDUCTOR) DUCT,

Typical Section Through Temporary Reinstatement of Longitudinal Opening in Dressed Rural Unbound Roadway

ALL REINSTATEMENT WORKS ARE TO BE IN ACCORDANCE WITH LOCAL AREA ENGINEERS REQUIREMENTS AND GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS

NOTES:

1. Refer to 'Guidelines for managing Openings in Public Roads (Purple Book - April 2017)', Chapter 6 'Specifications' for guidance on Duct type / colour and Marker Tape type / colour.
2. All bound edges shall be saw cut to expose the full vertical thickness of each layer prior to excavation. All edges shall be essentially straight, smooth and vertical.
3. Clause 808 surface to be sprayed per clause 920 prior to application of Asphalt Concrete Layer.
4. Joint sealer shall be a hot 40/60 pen bitumen binder or cold thixotropic bitumen 50-70 pen to be applied to all vertical cuts in accordance with B.S. 594987 prior to application of bituminous materials.
5. Licence holder must maintain temporary reinstatement to a safe and acceptable standard.
6. Any damaged area adjacent to the opening and resulting from the excavation operation shall be included within the area to be reinstated.
7. Temporary road Surface warning signs must be used in accordance with the Traffic Signs Manual (Chaper 8 - Temporary Traffic Measures and Signs for Roadworks) and RLS 8/2007.
8. Refer to detail Permanent Reinstatement of Road for advice on permanent reinstatement - all permanent reinstatement shall be carried out when adequate settlement has occurred as determined by the Road Authority.
9. This drawing has been prepared to inform an Environmental Impact Assessment for the Cashla Peaker Plant project and is for illustrative purposes only. Final detailed drawings for the proposed 220kV grid connection route and 220kV substation will be submitted as part of a S.182B planning application to An Coimisiún Pleanála in due course.

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Bord Gáis Energy
AtkinsRéalis

PROJECT
Indicative Cashla Peaker Plant 220kV Grid Connection and Substation - EIAR Drawings

PROJECT NUMBER
300-101269

SHEET NUMBER
300101269-DR-119

SHEET TITLE
220kV Ducts in Local Road Temporary Reinstatement (SD2) With ECC

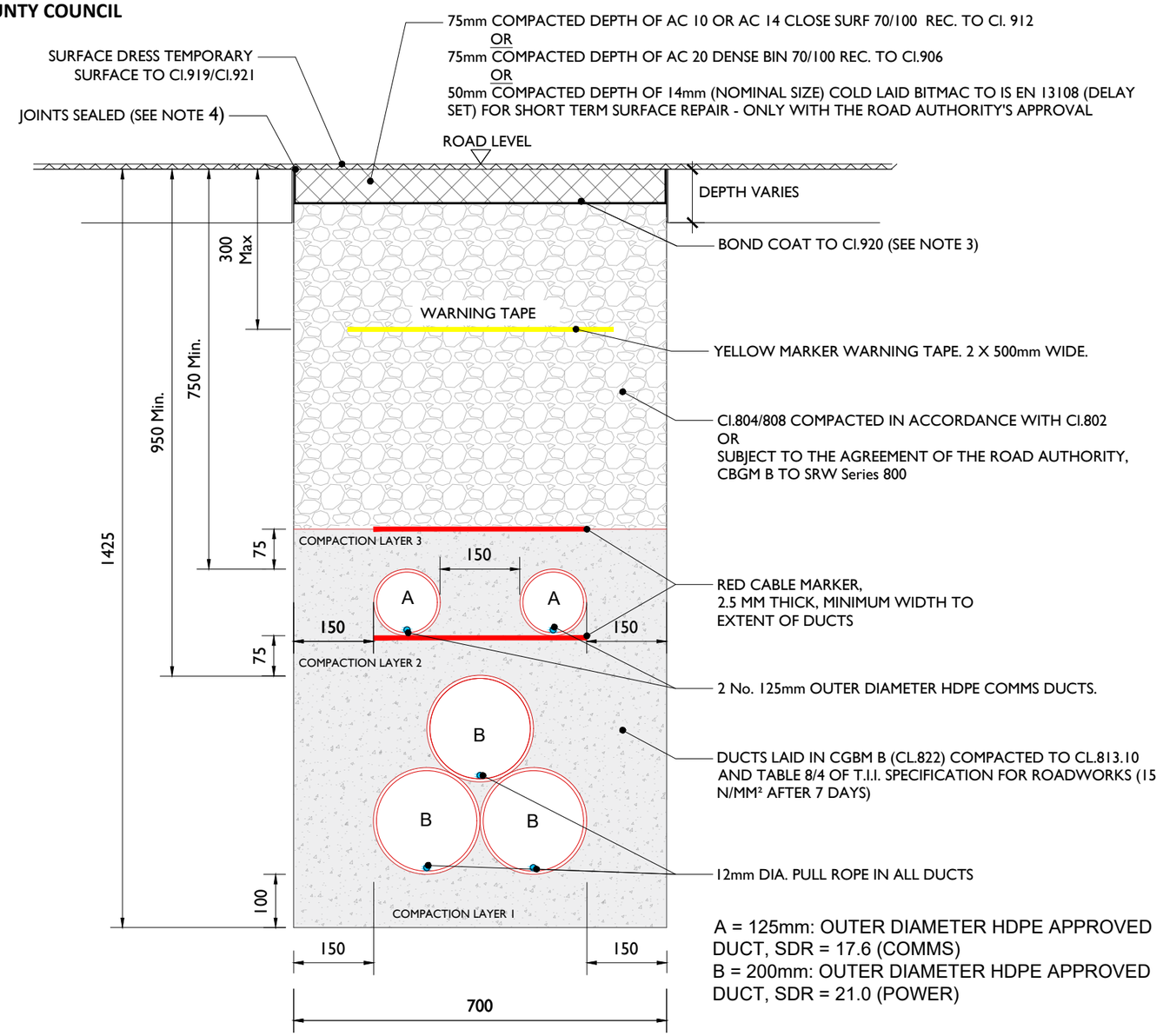
DRAWING STATUS
For Planning

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P2	03.02.26	Issued for Information
P1	05.09.25	Issued for Planning
N1	03.06.25	Issued for Information

EXISTING ROAD BUILD-UP TO BE CONFIRMED BY GALWAY COUNTY COUNCIL

Reinstatement details based on Guidelines for Managing Openings in Public Roads - SD2



Typical Section Through Temporary Reinstatement of Longitudinal Opening in Dressed Rural Unbound Roadway

ALL REINSTATEMENT WORKS ARE TO BE IN ACCORDANCE WITH LOCAL AREA ENGINEERS REQUIREMENTS AND GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS

NOTES:

1. Refer to 'Guidelines for managing Openings in Public Roads (Purple Book - April 2017)', Chapter 6 'Specifications' for guidance on Duct type / colour and Marker Tape type / colour.
2. All bound edges shall be saw cut to expose the full vertical thickness of each layer prior to excavation. All edges shall be essentially straight, smooth and vertical.
3. Clause 808 surface to be sprayed per clause 920 prior to application of Asphalt Concrete Layer.
4. Joint sealer shall be a hot 40/60 pen bitumen binder or cold thixotropic bitumen 50-70 pen to be applied to all vertical cuts in accordance with B.S. 594987 prior to application of bituminous materials.
5. Licence holder must maintain temporary reinstatement to a safe and acceptable standard.
6. Any damaged area adjacent to the opening and resulting from the excavation operation shall be included within the area to be reinstated.
7. Temporary road Surface warning signs must be used in accordance with the Traffic Signs Manual (Chaper 8 - Temporary Traffic Measures and Signs for Roadworks) and RLS 8/2007.
8. Refer to detail Permanent Reinstatement of Road for advice on permanent reinstatement - all permanent reinstatement shall be carried out when adequate settlement has occurred as determined by the Road Authority.
9. This drawing has been prepared to inform an Environmental Impact Assessment for the Cashla Peaker Plant project and is for illustrative purposes only. Final detailed drawings for the proposed 220kV grid connection route and 220kV substation will be submitted as part of a S.182B planning application to An Coimisiún Pleanála in due course.

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PROJECT
Indicative Cashla Peaker Plant 220kV Grid Connection and Substation - EIAR Drawings

PROJECT NUMBER
300-101269

SHEET NUMBER
300101269-DR-120

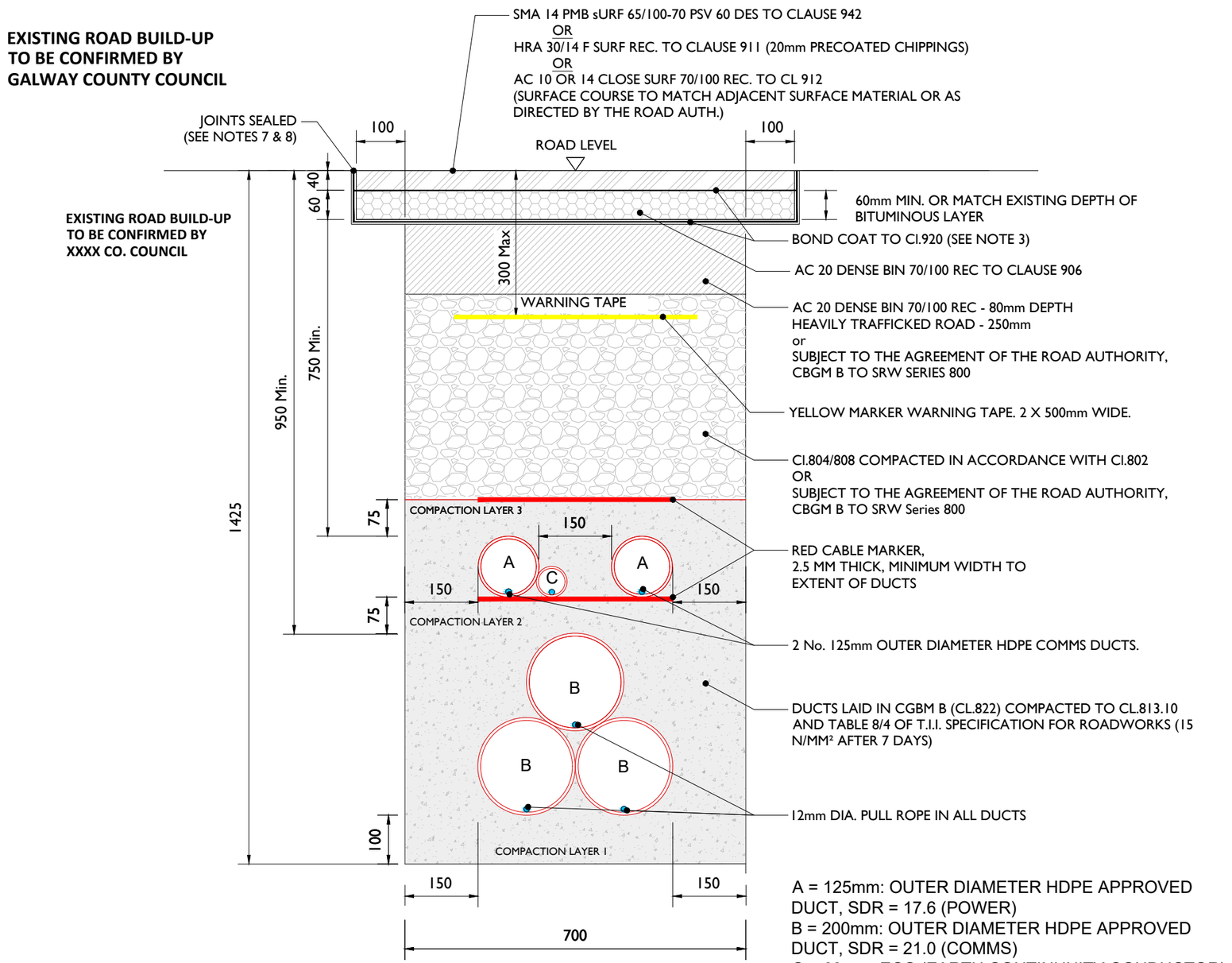
SHEET TITLE
220kV Ducts in Local Road Temporary Reinstatement (SD2) No ECC

DRAWING STATUS
For Planning

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P2	03.02.26	Issued for Information
P1	05.09.25	Issued for Planning
N1	03.06.25	Issued for Information

Reinstatement details based on Guidelines for Managing Openings in Public Roads - SD4



Typical Section Through Permanent Reinstatement of Longitudinal Opening in Roadway

ALL REINSTATEMENT WORKS ARE TO BE IN ACCORDANCE WITH LOCAL AREA ENGINEERS REQUIREMENTS AND GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS

NOTES:

1. Refer to Guidelines for managing Openings in Public Roads (Purple Book - April 2017), Chapter 6 'Specifications' for guidance on Duct type / colour and Marker Tape type / colour.
2. All bound edges shall be saw cut to expose the full vertical thickness of each layer prior to excavation. All edges shall be essentially straight, smooth and vertical.
3. Where a temporary surface has been used, material shall be planed out to the depth specified in this drawing. The new permanent surface shall be machined laid and mechanically compacted with a vibrating roller.
4. Where the trimmed edge of excavation is within 400mm* of a joint / edge, ironwork or other reinstatement, this trimmed edge shall be extended to include same and the area of reinstatement shall be extended accordingly (* increase to 800mm where this is pre-existing practice).
5. Any damaged area adjacent to the opening and resulting from the excavation operation shall be included within the area to be reinstated.
6. Clause 808 or Cement Bound Granular Material surface to be sprayed per clause 920 prior to application of Asphalt Concrete Layer.
7. Joint sealer shall be a hot 40/60 pen bitumen binder or cold thixtropic bitumen 50 -70 pen to be applied to all vertical cuts in accordance with B.S. 594987 prior to application of bituminous materials.
8. Joints sealed with hot bitumen and topped with fine sand/grid to get a minimum 55 skid resistance value as determined by the Portable Skid Resistance Pendulum and shall not exceed 3mm depth and 50mm width or other method approved by the road authority.
9. For roads without asphalt concrete surface (e.g. may be Cl.804 with double surface dressing), the road authority may as its discretion permit the temporary reinstatement surface of asphalt concrete to be regulated in lieu of excavation and reinstatement; and subsequently surface dressed.
10. Surface course to match existing surfaces unless otherwise directed by road authority.
11. The coarse aggregate in the asphalt concrete surface course shall have a polished stone value of not less than 60.
12. This drawing has been prepared to inform an Environmental Impact Assessment for the Cashla Peaker Plant project and is for illustrative purposes only. Final detailed drawings for the proposed 220kV grid connection route and 220kV substation will be submitted as part of a S.182B planning application to An Coimisiún Pleanála in due course.

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CLIENT
Bord Gáis Energy
AtkinsRéalis

PROJECT
Indicative Cashla Peaker Plant 220kV Grid Connection and Substation - EIAR Drawings

PROJECT NUMBER
300-101269

SHEET NUMBER
300101269-DR-121

SHEET TITLE
220kV Ducts in Local Road Permanent Reinstatement (SD4) With ECC

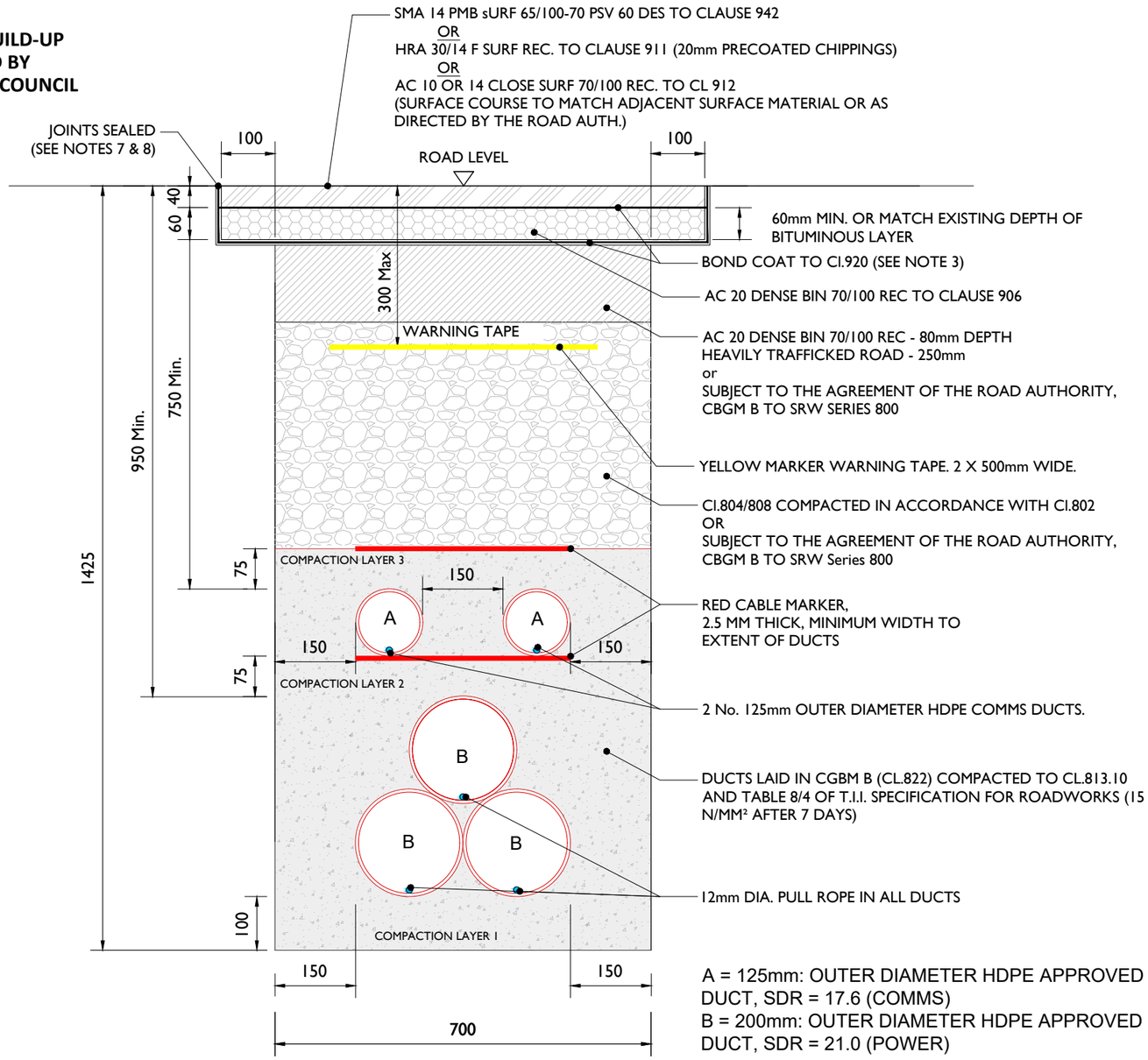
DRAWING STATUS
For Planning

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P2	03.02.26	Issued for Information
P1	05.09.25	Issued for Planning
N1	03.06.25	Issued for Information

Reinstatement details based on Guidelines for Managing Openings in Public Roads - SD4

EXISTING ROAD BUILD-UP TO BE CONFIRMED BY GALWAY COUNTY COUNCIL



A = 125mm: OUTER DIAMETER HDPE APPROVED DUCT, SDR = 17.6 (COMMS)
B = 200mm: OUTER DIAMETER HDPE APPROVED DUCT, SDR = 21.0 (POWER)

Typical Section Through Permanent Reinstatement of Longitudinal Opening in Roadway

ALL REINSTATEMENT WORKS ARE TO BE IN ACCORDANCE WITH LOCAL AREA ENGINEERS REQUIREMENTS AND GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS

NOTES:

1. Refer to Guidelines for managing Openings in Public Roads (Purple Book - April 2017), Chapter 6 'Specifications' for guidance on Duct type / colour and Marker Tape type / colour.
2. All bound edges shall be saw cut to expose the full vertical thickness of each layer prior to excavation. All edges shall be essentially straight, smooth and vertical.
3. Where a temporary surface has been used, material shall be planed out to the depth specified in this drawing. The new permanent surface shall be machined laid and mechanically compacted with a vibrating roller.
4. Where the trimmed edge of excavation is within 400mm* of a joint / edge, ironwork or other reinstatement, this trimmed edge shall be extended to include same and the area of reinstatement shall be extended accordingly (* increase to 800mm where this is pre-existing practice).
5. Any damaged area adjacent to the opening and resulting from the excavation operation shall be included within the area to be reinstated.
6. Clause 808 or Cement Bound Granular Material surface to be sprayed per clause 920 prior to application of Asphalt Concrete Layer.
7. Joint sealer shall be a hot 40/60 pen bitumen binder or cold thixtropic bitumen 50 -70 pen to be applied to all vertical cuts in accordance with B.S. 594987 prior to application of bituminous materials.
8. Joints sealed with hot bitumen and topped with fine sand/grid to get a minimum 55 skid resistance value as determined by the Portable Skid Resistance Pendulum and shall not exceed 3mm depth and 50mm width or other method approved by the road authority.
9. For roads without asphalt concrete surface (e.g. may be Cl.804 with double surface dressing), the road authority may as its discretion permit the temporary reinstatement surface of asphalt concrete to be regulated in lieu of excavation and reinstatement; and subsequently surface dressed.
10. Surface course to match existing surfaces unless otherwise directed by road authority.
11. The coarse aggregate in the asphalt concrete surface course shall have a polished stone value of not less than 60.
12. This drawing has been prepared to inform an Environmental Impact Assessment for the Cashla Peaker Plant project and is for illustrative purposes only. Final detailed drawings for the proposed 220kV grid connection route and 220kV substation will be submitted as part of a S.182B planning application to An Coimisiún Pleanála in due course.

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Bord Gáis Energy
AtkinsRéalis

PROJECT
Indicative Cashla Peaker Plant 220kV Grid Connection and Substation - EIAR Drawings

PROJECT NUMBER
300-101269

SHEET NUMBER
300101269-DR-122

SHEET TITLE
220kV Ducts in Local Road Permanent Reinstatement (SD4) No ECC

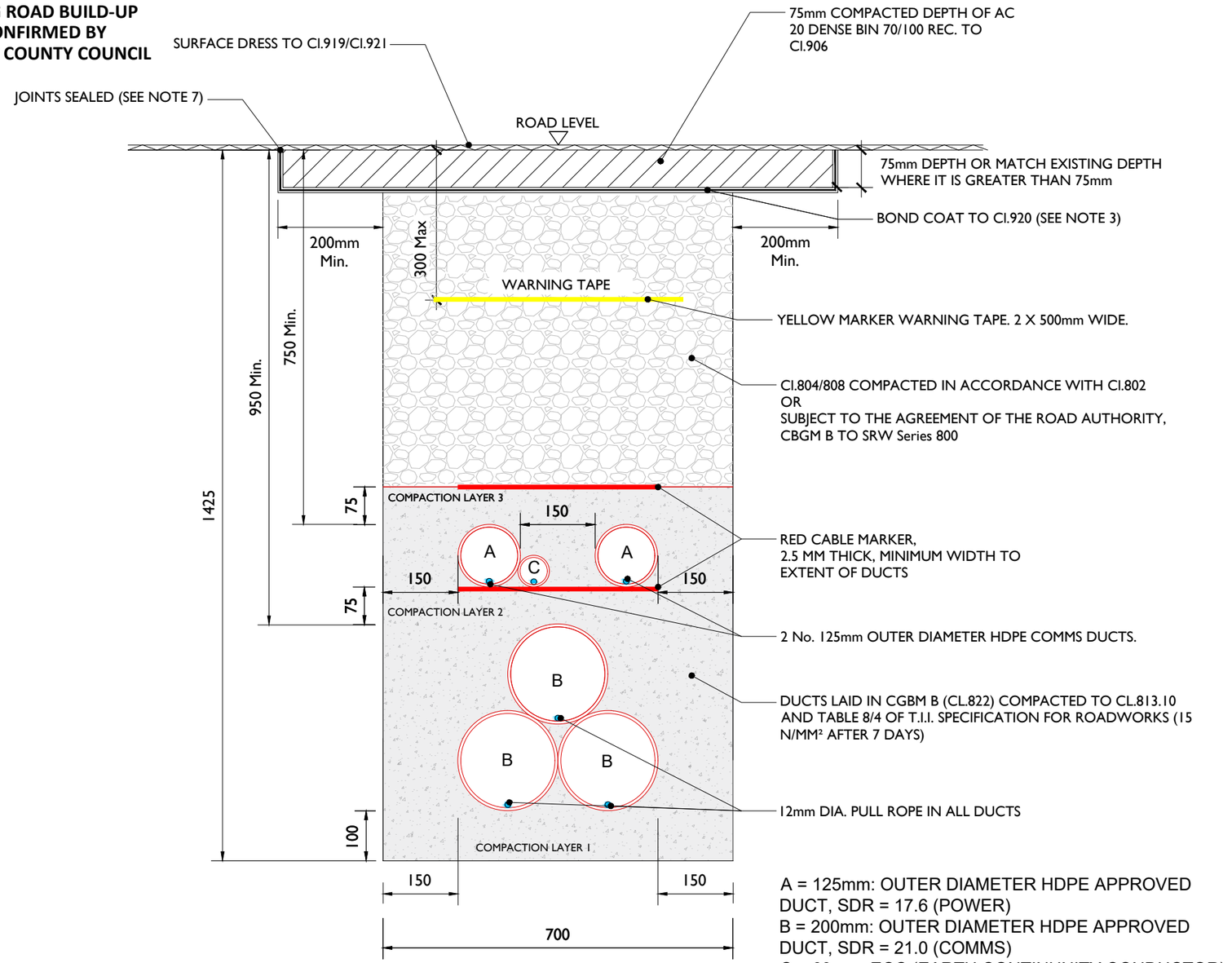
DRAWING STATUS
For Planning

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P2	03.02.26	Issued for Information
P1	05.09.25	Issued for Planning
N1	03.06.25	Issued for Information

Reinstatement details based on Guidelines for Managing Openings in Public Roads - SD5

EXISTING ROAD BUILD-UP TO BE CONFIRMED BY GALWAY COUNTY COUNCIL



A = 125mm: OUTER DIAMETER HDPE APPROVED DUCT, SDR = 17.6 (POWER)
B = 200mm: OUTER DIAMETER HDPE APPROVED DUCT, SDR = 21.0 (COMMS)
C = 63mm: ECC (EARTH CONTINUNITY CONDUCTOR) DUCT,

Typical Section Through Permanent Reinstatement of Longitudinal Opening in Roadway

ALL REINSTATEMENT WORKS ARE TO BE IN ACCORDANCE WITH LOCAL AREA ENGINEERS REQUIREMENTS AND GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS

NOTES:

1. Refer to Guidelines for managing Openings in Public Roads (Purple Book - April 2017), Chapter 6 'Specifications' for guidance on Duct type / colour and Marker Tape type / colour.
2. All bound edges shall be saw cut to expose the full vertical thickness of each layer prior to excavation. All edges shall be essentially straight, smooth and vertical.
3. Where a temporary surface has been used, material shall be planed out to the depth specified in this drawing. The new permanent surface shall be machined laid and mechanically compacted with a vibrating roller.
4. Where the trimmed edge of excavation is within 400mm* of a joint / edge, ironwork or other reinstatement, this trimmed edge shall be extended to include same and the area of reinstatement shall be extended accordingly (* increase to 800mm where this is pre-existing practice).
5. Any damaged area adjacent to the opening and resulting from the excavation operation shall be included within the area to be reinstated.
6. Clause 808 or Cement Bound Granular Material surface to be sprayed per clause 920 prior to application of Asphalt Concrete Layer.
7. Joint sealer shall be a hot 40/60 pen bitumen binder or cold thixtropic bitumen 50-70 pen to be applied to all vertical cuts in accordance with B.S. 594987 prior to application of bituminous materials.
8. Joints sealed with hot bitumen and topped with fine sand/grid to get a minimum 55 skid resistance value as determined by the Portable Skid Resistance Pendulum and shall not exceed 3mm depth
9. For roads without asphalt concrete surface (e.g. may be Cl.804 with double surface dressing), the road authority may as its discretion permit the temporary reinstatement surface of asphalt concrete to be regulated in lieu of excavation and reinstatement; and subsequently surface dressed.
10. On highly trafficked roads services must have a minimum cover of 750mm.
11. Where required by the Road authority the trench may be reinstated with a Cement Bound Granular Material.
12. This drawing has been prepared to inform an Environmental Impact Assessment for the Cashla Peaker Plant project and is for illustrative purposes only. Final detailed drawings for the proposed 220kV grid connection route and 220kV substation will be submitted as part of a S.182B planning application to An Coimisiún Pleanála in due course.

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PROJECT
Indicative Cashla Peaker Plant 220kV Grid Connection and Substation - EIAR Drawings

PROJECT NUMBER
300-101269

SHEET NUMBER
300101269-DR-123

SHEET TITLE
220kV Ducts in Local Road Permanent Reinstatement (SD5) With ECC

DRAWING STATUS
For Planning

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P2	03.02.26	Issued for Information
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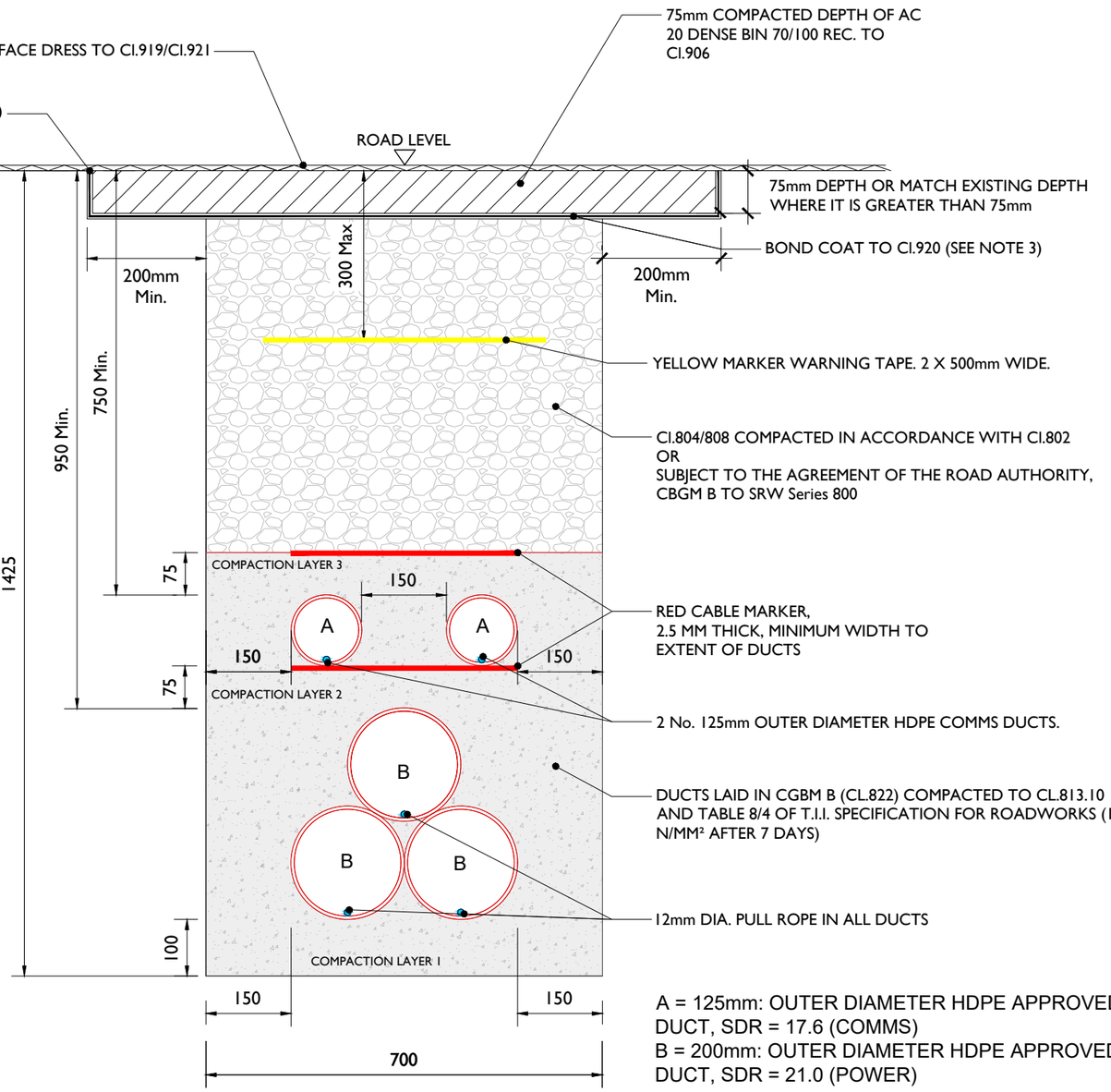
N1	03.06.25	Issued for Information

Reinstatement details based on Guidelines for Managing Openings in Public Roads - SD5

EXISTING ROAD BUILD-UP TO BE CONFIRMED BY GALWAY COUNTY COUNCIL



A = 125mm: OUTER DIAMETER HDPE APPROVED DUCT, SDR = 17.6 (COMMS)
B = 200mm: OUTER DIAMETER HDPE APPROVED DUCT, SDR = 21.0 (POWER)

Typical Section Through Permanent Reinstatement of Longitudinal Opening in Roadway

ALL REINSTATEMENT WORKS ARE TO BE IN ACCORDANCE WITH LOCAL AREA ENGINEERS REQUIREMENTS AND GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS

NOTES:

1. Refer to Guidelines for managing Openings in Public Roads (Purple Book - April 2017), Chapter 6 'Specifications' for guidance on Duct type / colour and Marker Tape type / colour.
2. All bound edges shall be saw cut to expose the full vertical thickness of each layer prior to excavation. All edges shall be essentially straight, smooth and vertical.
3. Where a temporary surface has been used, material shall be planed out to the depth specified in this drawing. The new permanent surface shall be machined laid and mechanically compacted with a vibrating roller.
4. Where the trimmed edge of excavation is within 400mm* of a joint / edge, ironwork or other reinstatement, this trimmed edge shall be extended to include same and the area of reinstatement shall be extended accordingly (* increase to 800mm where this is pre-existing practice).
5. Any damaged area adjacent to the opening and resulting from the excavation operation shall be included within the area to be reinstated.
6. Clause 808 or Cement Bound Granular Material surface to be sprayed per clause 920 prior to application of Asphalt Concrete Layer.
7. Joint sealer shall be a hot 40/60 pen bitumen binder or cold thixtropic bitumen 50-70 pen to be applied to all vertical cuts in accordance with B.S. 594987 prior to application of bituminous materials.
8. Joints sealed with hot bitumen and topped with fine sand/grid to get a minimum 55 skid resistance value as determined by the Portable Skid Resistance Pendulum and shall not exceed 3mm depth
9. For roads without asphalt concrete surface (e.g. may be Cl.804 with double surface dressing), the road authority may as its discretion permit the temporary reinstatement surface of asphalt concrete to be regulated in lieu of excavation and reinstatement; and subsequently surface dressed.
10. On highly trafficked roads services must have a minimum cover of 750mm.
11. Where required by the Road authority the trench may be reinstated with a Cement Bound Granular Material.
12. This drawing has been prepared to inform an Environmental Impact Assessment for the Cashla Peaker Plant project and is for illustrative purposes only. Final detailed drawings for the proposed 220kV grid connection route and 220kV substation will be submitted as part of a S.182B planning application to An Coimisiún Pleanála in due course.

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Bord Gáis Energy
AtkinsRéalis

PROJECT
Indicative Cashla Peaker Plant 220kV Grid Connection and Substation - EIAR Drawings

PROJECT NUMBER
300-101269

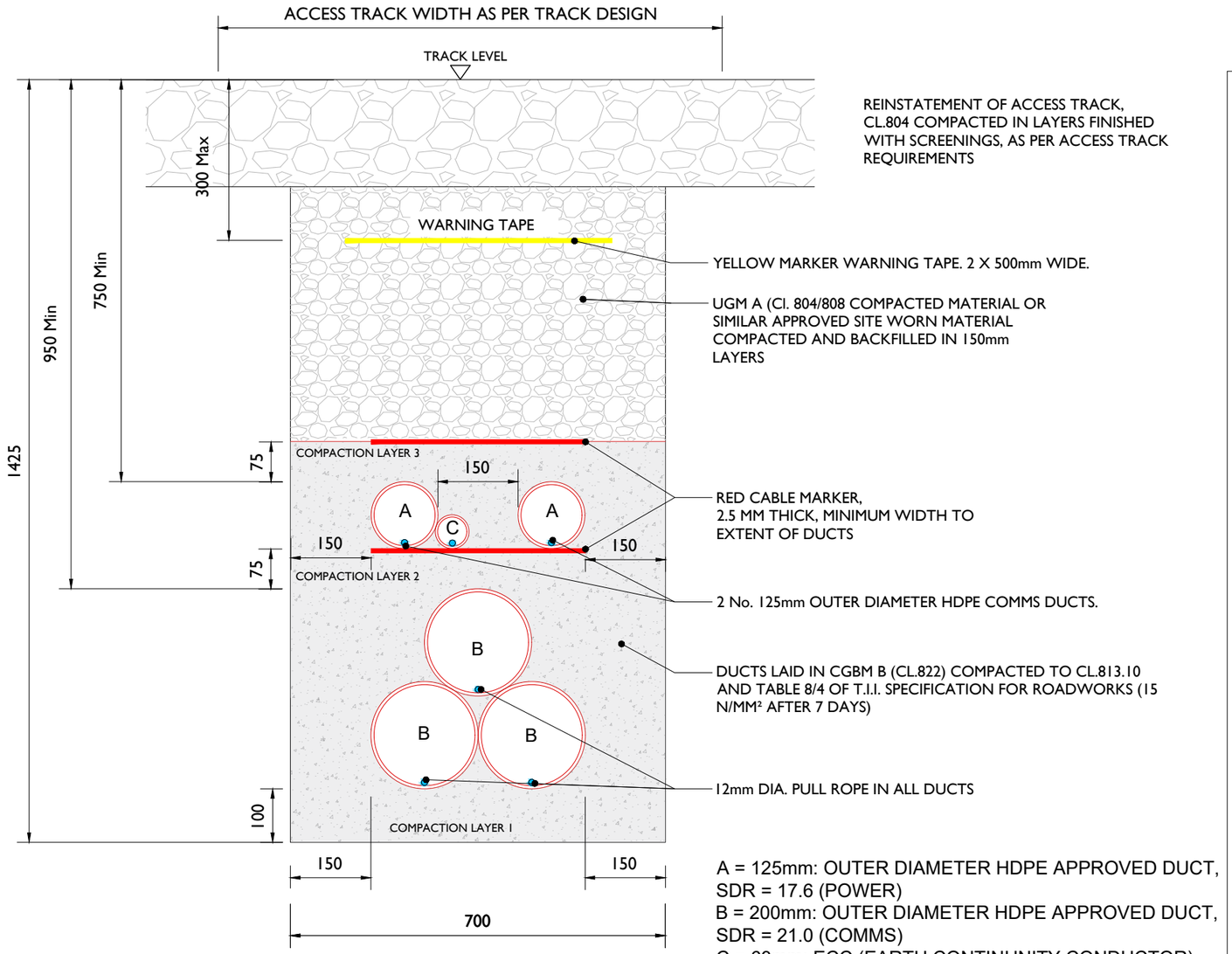
SHEET NUMBER
300101269-DR-124

SHEET TITLE
220kV Ducts in Local Road Permanent Reinstatement (SD5) No ECC

DRAWING STATUS
For Planning

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P2	03.02.26	Issued for Information
P1	05.09.25	Issued for Planning
N1	03.06.25	Issued for Information



A = 125mm: OUTER DIAMETER HDPE APPROVED DUCT, SDR = 17.6 (POWER)
B = 200mm: OUTER DIAMETER HDPE APPROVED DUCT, SDR = 21.0 (COMMS)
C = 63mm: ECC (EARTH CONTINUNITY CONDUCTOR) DUCT,

220kV Ducting in Access Track (with ECC Duct)

ALL REINSTATEMENT WORKS ARE TO BE IN ACCORDANCE WITH LOCAL LANDOWNER REQUIREMENTS

NOTES:

1. This design is subject to EirGrid & ESB approval and should be used for Planning purposes only.
2. The Customer shall submit all Planning Application designs and proposed cable routes in compliance with the specification requirements, for EirGrid to review and accept in advance of submitting to the local authority.
3. High Voltage cable installation across third party lands is to be avoided where possible.
4. High Voltage cable installation across peat lands is undesirable and only permitted in exceptional circumstances.
5. Service roads shall be installed along the cable route providing suitable and safe access for maintenance and cable pulling vehicles at all joint bay locations and along any section of the cable route that are not locate within the public road.
6. A deed of easement in respect of the cable route to ESB shall be provided. (min width 4 m for 110 kV circuits and 5 m for 220 kV and 400 kV circuits)
7. Direct burial of the cable is not permitted in any circumstance.
8. This drawing is to be read in conjunction with relevant drawings, specifications and reports
9. Dimensions are in millimeters, unless noted otherwise
10. Drawings are not to be scaled use figured dimensions only
11. This drawing has been prepared to inform an Environmental Impact Assessment for the Cashla Peaker Plant project and is for illustrative purposes only. Final detailed drawings for the proposed 220kV grid connection route and 220kV substation will be submitted as part of a S.182B planning application to An Coimisiún Pleanála in due course.

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PROJECT
Indicative Cashla Peaker Plant 220kV Grid Connection and Substation - EIAR Drawings

PROJECT NUMBER
300-101269

SHEET NUMBER
300101269-DR-125

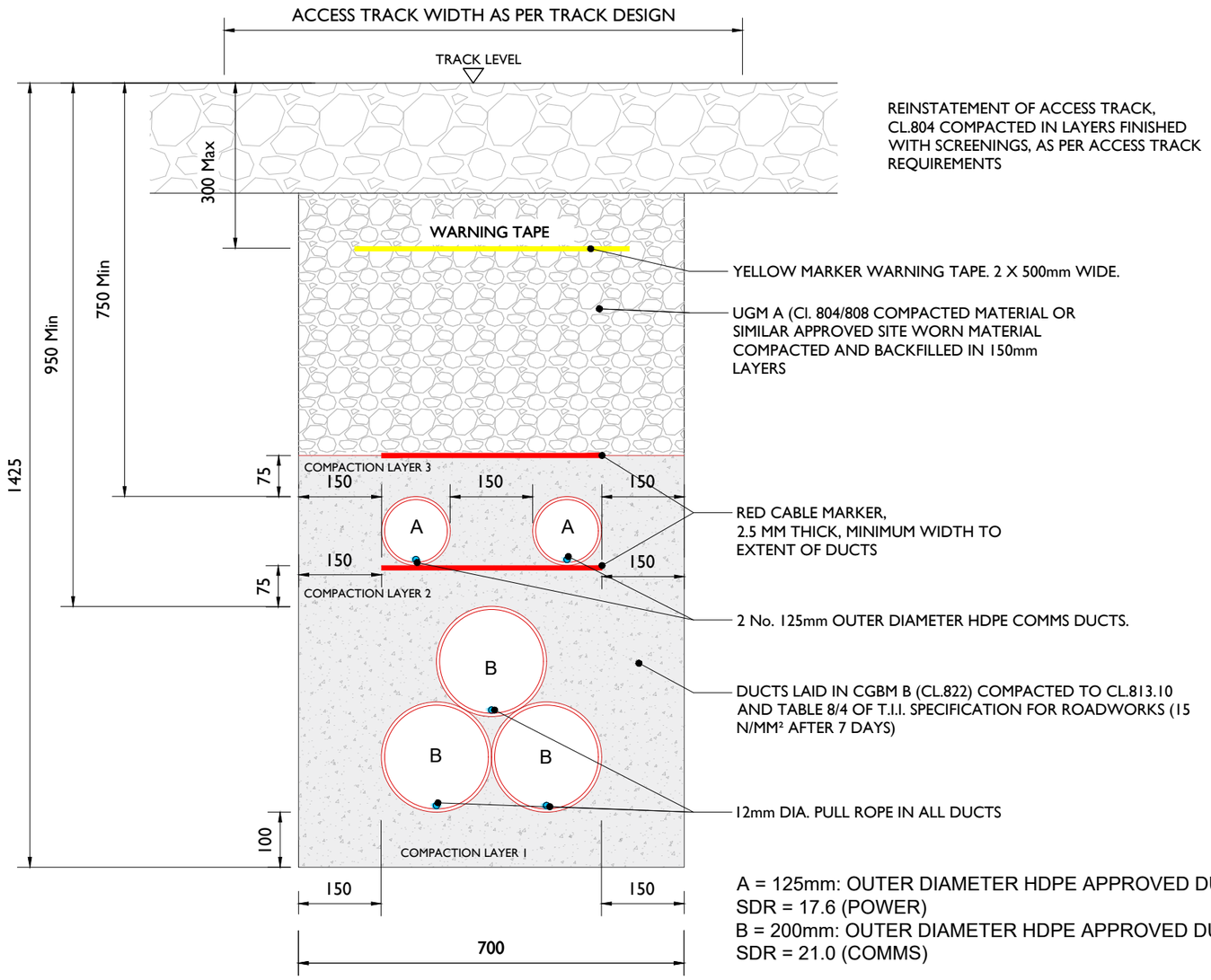
SHEET TITLE
220kV Ducting in Access Track With ECC Duct

DRAWING STATUS
For Planning

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P2	03.02.26	Issued for Information
P1	05.09.25	Issued for Planning
N1	03.06.25	Issued for Information

ALL REINSTATEMENT WORKS ARE TO BE IN ACCORDANCE WITH LOCAL LANDOWNER REQUIREMENTS



220kV Ducting in Access Track

NOTES:

1. This design is subject to EirGrid & ESB approval and should be used for Planning purposes only.
2. The Customer shall submit all Planning Application designs and proposed cable routes in compliance with the specification requirements, for EirGrid to review and accept in advance of submitting to the local authority.
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6. A deed of easement in respect of the cable route to ESB shall be provided. (min width 4 m for 110 kV circuits and 5 m for 220 kV and 400 kV circuits)
7. Direct burial of the cable is not permitted in any circumstance.
8. This drawing is to be read in conjunction with relevant drawings, specifications and reports
9. Dimensions are in millimeters, unless noted otherwise
10. Drawings are not to be scaled use figured dimensions only
11. This drawing has been prepared to inform an Environmental Impact Assessment for the Cashla Peaker Plant project and is for illustrative purposes only. Final detailed drawings for the proposed 220kV grid connection route and 220kV substation will be submitted as part of a S.182B planning application to An Coimisiún Pleanála in due course.

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PROJECT
Indicative Cashla Peaker Plant 220kV Grid Connection and Substation - EIAR Drawings

PROJECT NUMBER
300-101269

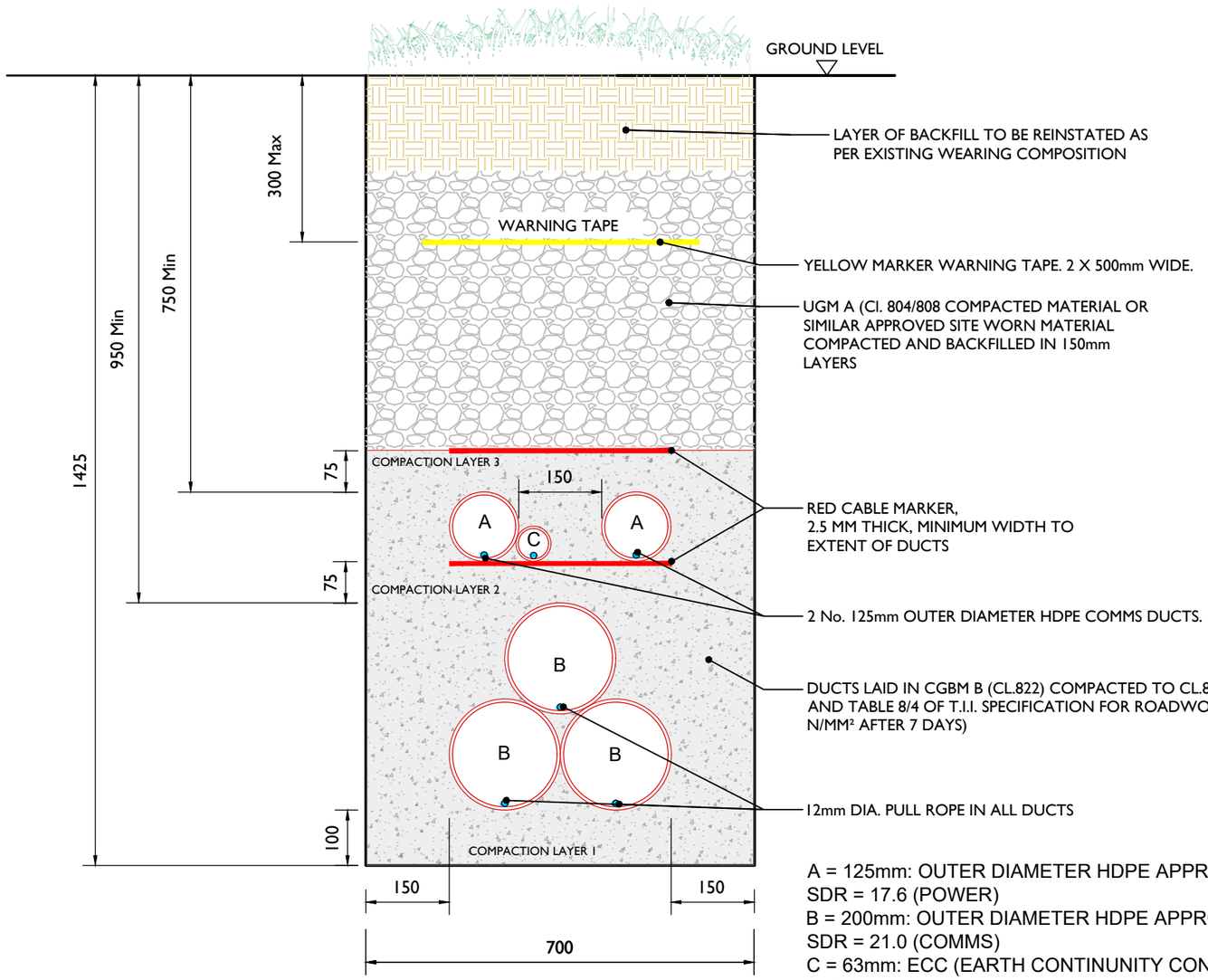
SHEET NUMBER
300101269-DR-126

SHEET TITLE
220kV Ducting in Access Track
No ECC Duct

DRAWING STATUS
For Planning

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P2	03.02.26	Issued for Information
P1	05.09.25	Issued for Planning
N1	03.06.25	Issued for Information



A = 125mm: OUTER DIAMETER HDPE APPROVED DUCT, SDR = 17.6 (POWER)
B = 200mm: OUTER DIAMETER HDPE APPROVED DUCT, SDR = 21.0 (COMMS)
C = 63mm: ECC (EARTH CONTINUNITY CONDUCTOR) DUCT,

220kV Ducting through Grassland, (with ECC duct)

ALL REINSTATEMENT WORKS ARE TO BE IN ACCORDANCE WITH LOCAL LANDOWNER REQUIREMENTS

NOTES:

1. This design is subject to EirGrid & ESB approval and should be used for Planning purposes only.
2. The Customer shall submit all Planning Application designs and proposed cable routes in compliance with the specification requirements, for EirGrid to review and accept in advance of submitting to the local authority.
3. High Voltage cable installation across third party lands is to be avoided where possible.
4. High Voltage cable installation across peat lands is undesirable and only permitted in exceptional circumstances.
5. Service roads shall be installed along the cable route providing suitable and safe access for maintenance and cable pulling vehicles at all joint bay locations and along any section of the cable route that are not locate within the public road.
6. A deed of easement in respect of the cable route to ESB shall be provided. (min width 4 m for 110 kV circuits and 5 m for 220 kV and 400 kV circuits)
7. Direct burial of the cable is not permitted in any circumstance.
8. This drawing is to be read in conjunction with relevant drawings, specifications and reports
9. Dimensions are in millimeters, unless noted otherwise
10. Drawings are not to be scaled use figured dimensions only
11. This drawing has been prepared to inform an Environmental Impact Assessment for the Cashla Peaker Plant project and is for illustrative purposes only. Final detailed drawings for the proposed 220kV grid connection route and 220kV substation will be submitted as part of a S.182B planning application to An Coimisiún Pleanála in due course.

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PROJECT
Indicative Cashla Peaker Plant 220kV Grid Connection and Substation - EIAR Drawings

PROJECT NUMBER
300-101269

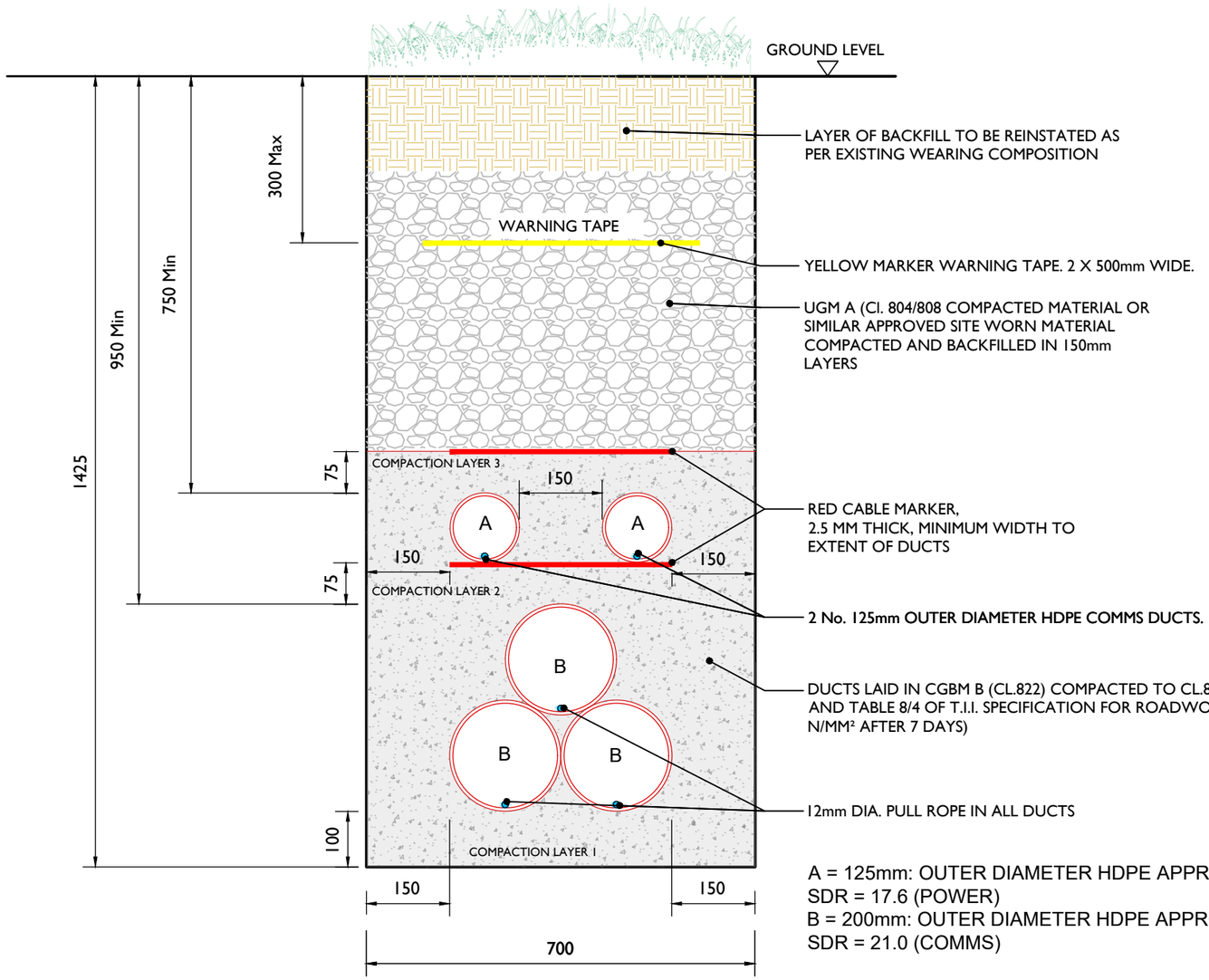
SHEET NUMBER
300101269-DR-127

SHEET TITLE
220kV Cable Ducts in Off Road / Grassland Section With ECC

DRAWING STATUS
For Planning

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P2	03.02.26	Issued for Information
P1	05.09.25	Issued for Planning
N1	03.06.25	Issued for Information



220kV Ducting through Grassland

ALL REINSTATEMENT WORKS ARE TO BE IN ACCORDANCE WITH LOCAL LANDOWNER REQUIREMENTS

NOTES:

1. This design is subject to EirGrid & ESB approval and should be used for Planning purposes only.
2. The Customer shall submit all Planning Application designs and proposed cable routes in compliance with the specification requirements, for EirGrid to review and accept in advance of submitting to the local authority.
3. High Voltage cable installation across third party lands is to be avoided where possible.
4. High Voltage cable installation across peat lands is undesirable and only permitted in exceptional circumstances.
5. Service roads shall be installed along the cable route providing suitable and safe access for maintenance and cable pulling vehicles at all joint bay locations and along any section of the cable route that are not locate within the public road.
6. A deed of easement in respect of the cable route to ESB shall be provided. (min width 4 m for 110 kV circuits and 5 m for 220 kV and 400 kV circuits)
7. Direct burial of the cable is not permitted in any circumstance.
8. This drawing is to be read in conjunction with relevant drawings, specifications and reports
9. Dimensions are in millimeters, unless noted otherwise
10. Drawings are not to be scaled use figured dimensions only
11. This drawing has been prepared to inform an Environmental Impact Assessment for the Cashla Peaker Plant project and is for illustrative purposes only. Final detailed drawings for the proposed 220kV grid connection route and 220kV substation will be submitted as part of a S.182B planning application to An Coimisiún Pleanála in due course.

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PROJECT
Indicative Cashla Peaker Plant 220kV Grid Connection and Substation - EIAR Drawings

PROJECT NUMBER
300-101269

SHEET NUMBER
300101269-DR-128

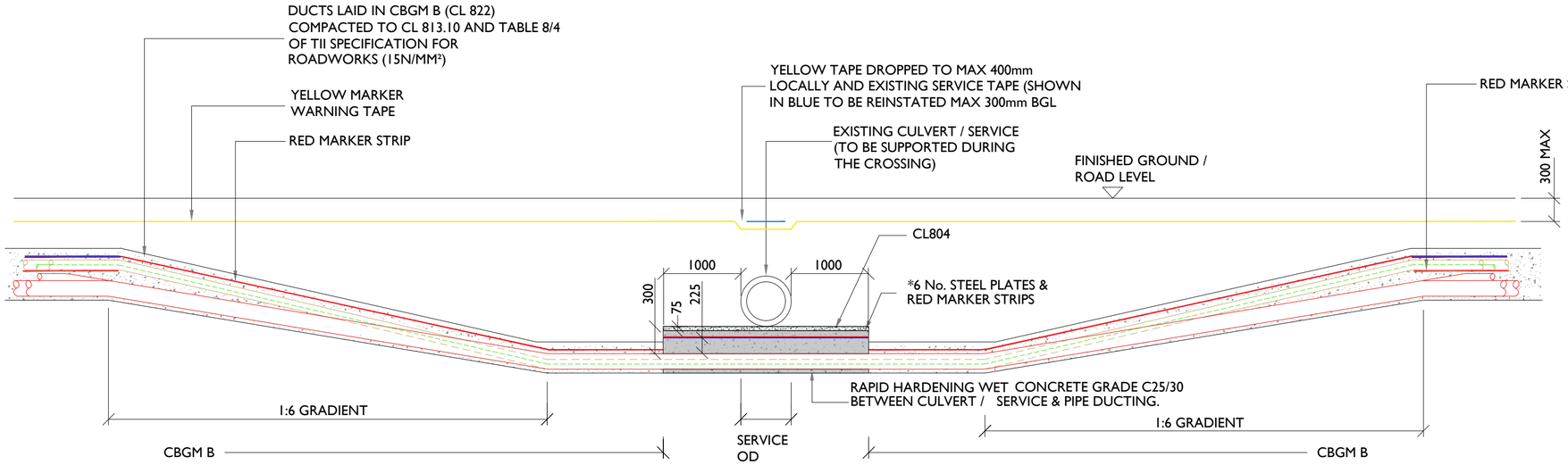
SHEET TITLE
220kV Cable Ducts in Off Road / Grassland Section No ECC

DRAWING STATUS
For Planning

ISSUE/REVISION

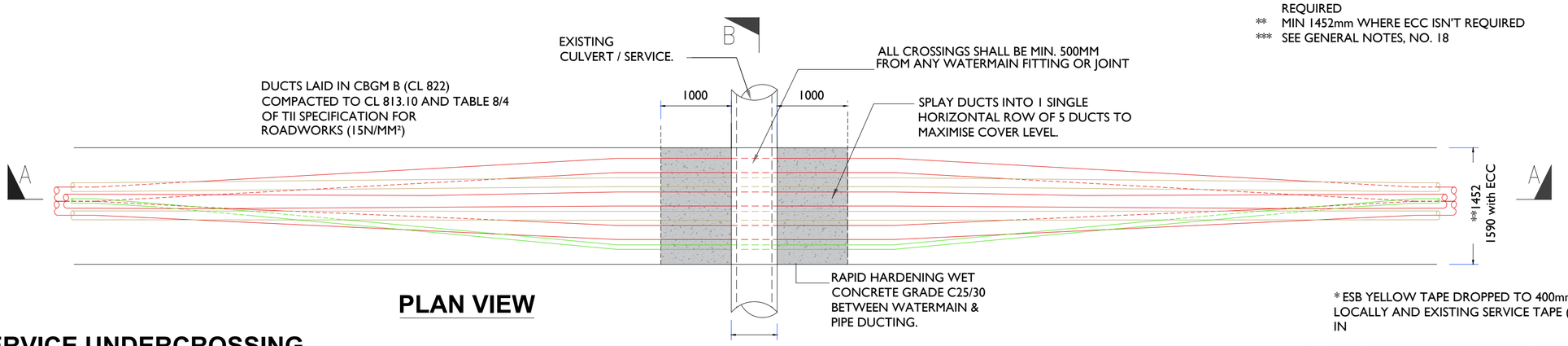
I/R	DATE	DESCRIPTION
P2	03.02.26	Issued for Information
P1	05.09.25	Issued for Planning
N1	03.06.25	Issued for Information

ISO A2 420mm x 594mm



SECTION A-A

* 6X200mm STEEL PLATE & RED MARKER WHERE ECC ISN'T REQUIRED
** MIN 1452mm WHERE ECC ISN'T REQUIRED
*** SEE GENERAL NOTES, NO. 18



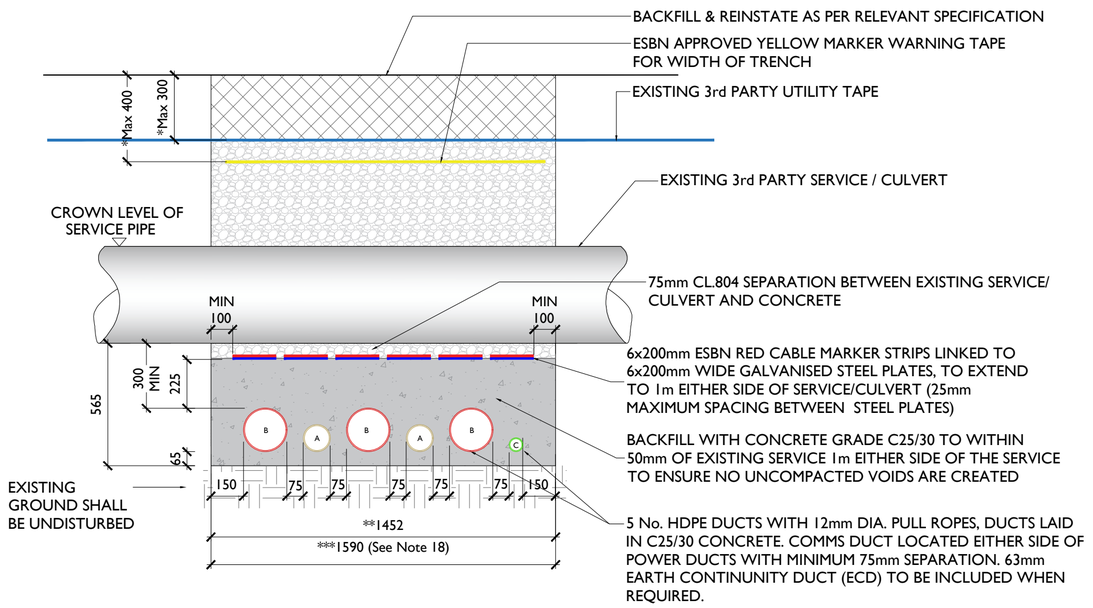
PLAN VIEW

SERVICE UNDERCROSSING

GENERAL NOTES

1. This drawing is subject to planning approval and is not to be used for construction.
2. This drawing is to be read in conjunction with all other relevant documentation.
3. Do not scale from this drawing use only printed dimensions
4. All dimensions are in millimetres, all chainages, levels and co-ordinates are in metres unless defined otherwise.
5. No excavation shall commence until the Contractor has consulted up to date services drawings and carried out an Electromagnetic Locator (EML) Scan.
6. Hand dig only within 500mm of existing services.
7. If compacting CBGM B could cause damage to the culvert / service below, use rapid hardening cement grade C25/30 following engineers prior approval.
8. For standard trench cross section drawings and minimum horizontal separation to existing services, see 300101269-DR-117 (TREFOIL).
9. Where depths exceed 2500mm to the top of duct the Contractor shall consult the cable system design engineer for phase spacing requirements.
10. Backfill as per guidelines for the opening, backfilling and reinstatement of openings in public roads (2015).
11. **ESB's preference is to cross under existing services where possible.**
12. Backfill as per guidelines for the opening, backfilling and reinstatement of openings in public roads (2015)
13. The Contractor is responsible for the design and construction of all temporary works. The Contractor shall appoint a temporary works designer, and submit temporary works design to PSDP for review.
14. 225mm minimum concrete over ducts where they transition from standard cross section and where they are at less than standard cover to ground level.
15. Replace existing service marker tape over ESB yellow marker tape.
16. The owner of the existing utility being crossed must be consulted in advance of works commencing as per their guidelines.
17. The Contractor shall record detailed as-built information as per the specification. At all crossing locations these records shall include photographic evidence clearly demonstrating that minimum service clearances and duct separations have been achieved.
18. Where duct for Earth Continuity Conductor (ECC) is required for single point bonded sections, attach the 63mm ECC duct to the A duct and update the trench width accordingly.
19. This drawing has been prepared to inform an Environmental Impact Assessment for the Cashla Peaker Plant project and is for illustrative purposes only. Final detailed drawings for the proposed 220kV grid connection route and 220kV substation will be submitted as part of a S.182B planning application to An Coimisiún Pleanála in due course.

* ESB YELLOW TAPE DROPPED TO 400mm BGL LOCALLY AND EXISTING SERVICE TAPE (SHOWN IN



SECTION B-B

A = 125mm OUTER DIAMETER HDPE ESB APPROVED COMMS DUCT, SDR=17.6
B = 200mm OUTER DIAMETER HDPE ESB APPROVED POWER DUCT, SDR=21
C = 63mm OUTER DIAMETER HDPE FOR EARTH CONTINUITY CONDUCTOR

Project Management Initials: Designer: JC Checked: GC Approved: DB

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PROJECT

Indicative Cashla Peaker Plant 220kV Grid Connection and Substation - EIAR Drawings

CLIENT

Bord Gáis Energy

CONSULTANTS

AtkinsRéalis

NOTES: -

LEGEND: -

- 200mm Ø HDPE POWER DUCT WITH 12mm DIAMTER PULL ROPE
- 125mm Ø HDPE COMMUNICATION DUCT WITH 12mm DIAMTER PULL ROPE
- 63mm Ø HDPE EARTH CONTINUITY CONDUCTOR WITH12mm DIAMTER PULL ROPE
- RED MARKER STRIP OR STEEL PLATES
- YELLOW MARKER WARNING TAPE
- 6mm GALVANISED STEEL PLATE
- EXISTING SERVICE TAPE

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P2	03.02.26	Issued for Information
P1	05.09.25	Issued for Plannig
N1	03.06.25	Issued for Information

PROJECT NUMBER

300-101269

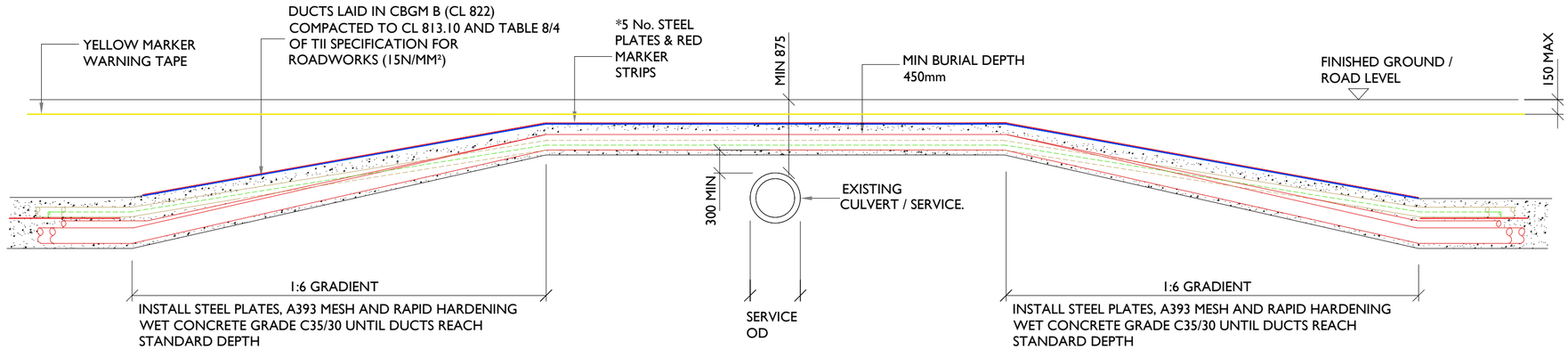
SHEET TITLE

Trench Sections For Undercrossing Existing Culverts / Services

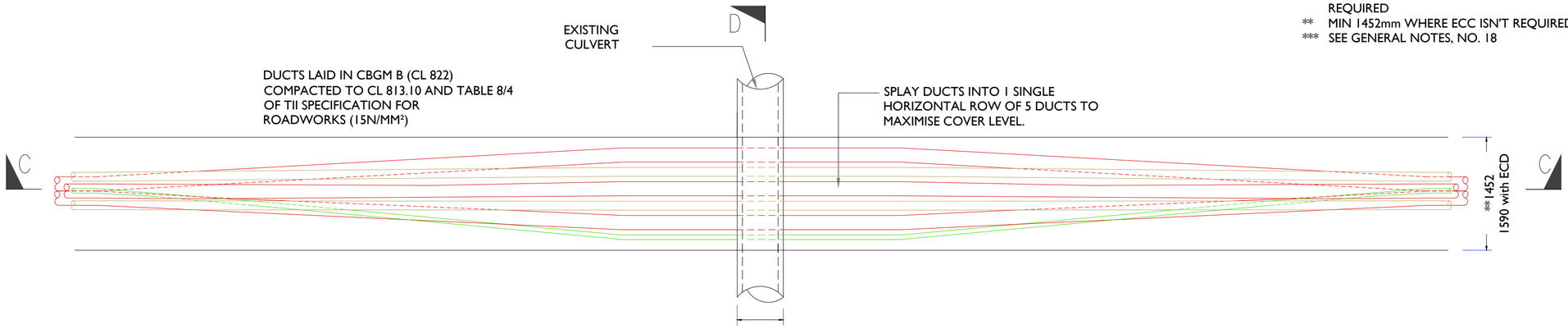
SHEET NUMBER

300101269-DR-129

ISO A2 420mm x 594mm



SECTION C-C



* 6X200mm STEEL PLATE & RED MARKER WHERE ECC ISN'T REQUIRED
** MIN 1452mm WHERE ECC ISN'T REQUIRED
*** SEE GENERAL NOTES, NO. 18

PLAN VIEW

SERVICE OVERCROSSING

GENERAL NOTES

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2. This drawing is to be read in conjunction with all other relevant documentation.
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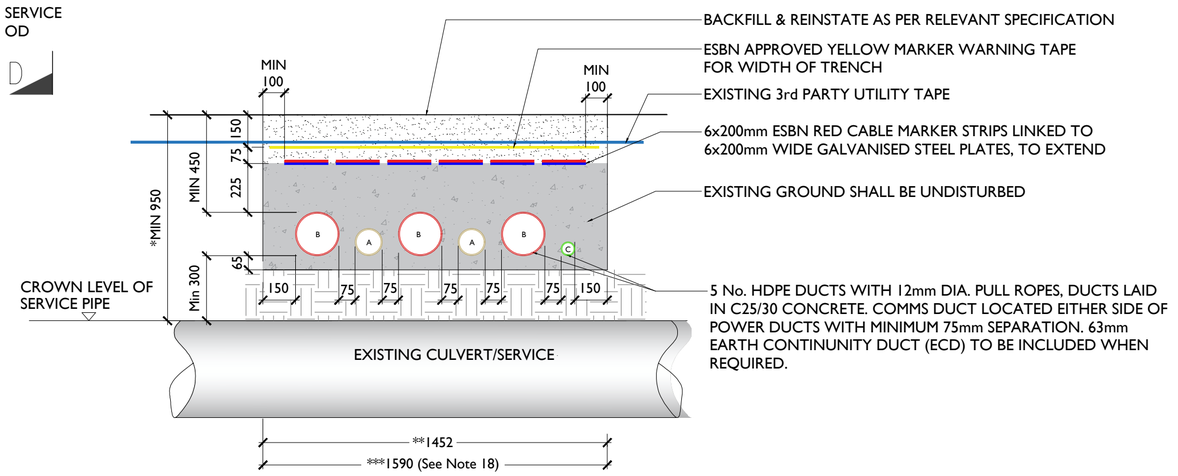
5. No excavation shall commence until the Contractor has consulted up to date services drawings and carried out an Electromagnetic Locator (EML) Scan.
6. Hand dig only within 500mm of existing services.
7. If compacting CBGM B could cause damage to the culvert / service below, use rapid hardening cement grade C25/30 following engineers prior approval.
8. For standard trench cross section drawings and minimum horizontal separation to existing services, see 300101269-DR-117 (TREFOIL).
9. Where depths exceed 2500mm to the top of duct the Contractor shall consult the cable system design engineer for phase spacing requirements.
10. Backfill as per guidelines for the opening, backfilling and reinstatement of openings in public roads (2015).
11. **ESB's preference is to cross under existing services where possible.**
12. Backfill as per guidelines for the opening, backfilling and reinstatement of openings in public roads (2015)
13. The Contractor is responsible for the design and construction of all temporary works. The Contractor shall appoint a temporary works designer, and submit temporary works design to PSDP for review.
14. 225mm minimum concrete over ducts where they transition from standard cross section and where they are at less than standard cover to ground level.
15. Replace existing service marker tape over ESB yellow marker tape.
16. The owner of the existing utility being crossed must be consulted in advance of works commencing as per their guidelines.
17. The Contractor shall record detailed as-built information as per the specification. At all crossing locations these records shall include photographic evidence clearly demonstrating that minimum service clearances and duct separations have been achieved.
18. Where duct for Earth Continuity Conductor (ECC) is required for single point bonded sections, attach the 63mm ECC duct to the A duct and update the trench width accordingly.
19. This drawing has been prepared to inform an Environmental Impact Assessment for the Cashla Peaker Plant project and is for illustrative purposes only. Final detailed drawings for the proposed 220kV grid connection route and 220kV substation will be submitted as part of a S.182B planning application to An Coimisiún Pleanála in due course.



* ALL EXISTING SERVICES WITH COVERS LESS THAN MIN. DIMENSIONS ABOVE SHALL BE CROSSED BY UNDERCROSSING METHOD

A = 125mm OUTER DIAMETER HDPE ESB APPROVED COMMS DUCT, SDR=17.6
B = 1200mm OUTER DIAMETER HDPE ESB APPROVED POWER DUCT, SDR=21
C = 63mm OUTER DIAMETER HDPE FOR EARTH CONTINUITY CONDUCTOR

SECTION D-D

Project Management Initials: Designer: JC Checked: GC Approved: DB

tli GROUP
Head Office
Beenreigh, Abbeydorney,
Tralee, Co. Kerry, Ireland
Tel: 00353 66 7135710

PROJECT

Indicative Cashla Peaker Plant 220kV Grid Connection and Substation - EIAR Drawings

CLIENT

Bord Gáis Energy

CONSULTANTS

AtkinsRéalis

NOTES: -

LEGEND: -

- 200mm Ø HDPE POWER DUCT WITH 12mm DIAMTER PULL ROPE
- 125mm Ø HDPE COMMUNICATION DUCT WITH 12mm DIAMTER PULL ROPE
- 63mm Ø HDPE EARTH CONTINUITY CONDUCTOR WITH12mm DIAMTER PULL ROPE
- RED MARKER STRIP OR STEEL PLATES
- YELLOW MARKER WARNING TAPE
- 6mm GALVANISED STEEL PLATE
- EXISTING SERVICE TAPE

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P2	03.02.26	Issued for Information
P1	05.09.25	Issued for Plannig
N1	03.06.25	Issued for Information

PROJECT NUMBER

300-101269

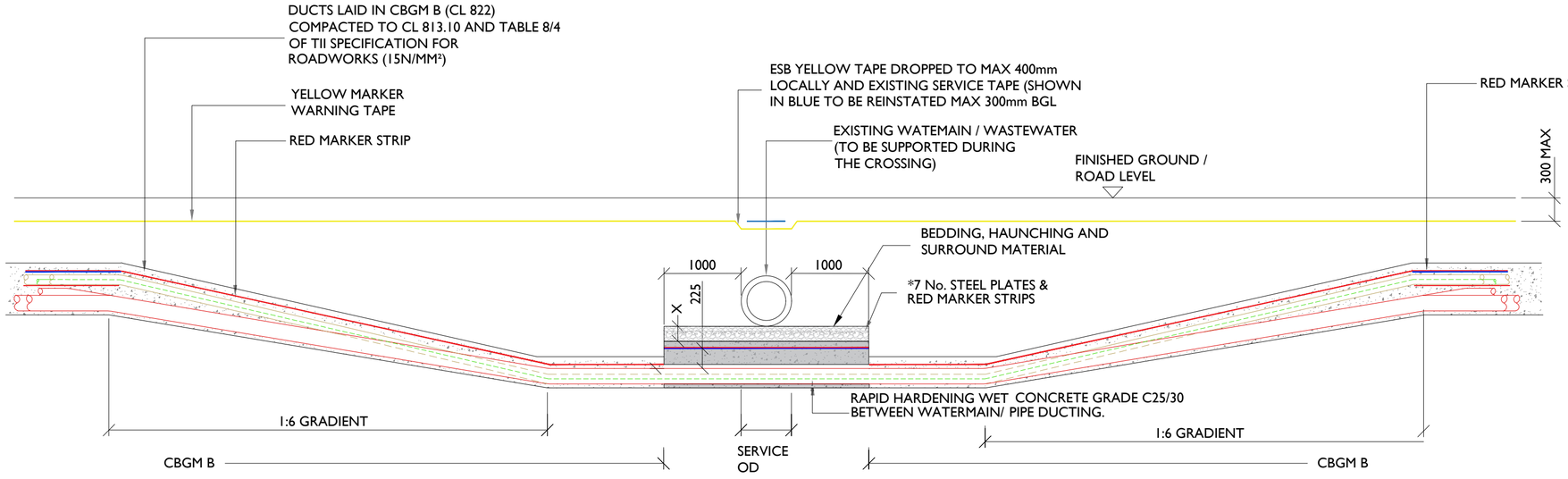
SHEET TITLE

Trench Sections For Overcrossing Existing Culvert/Service

SHEET NUMBER

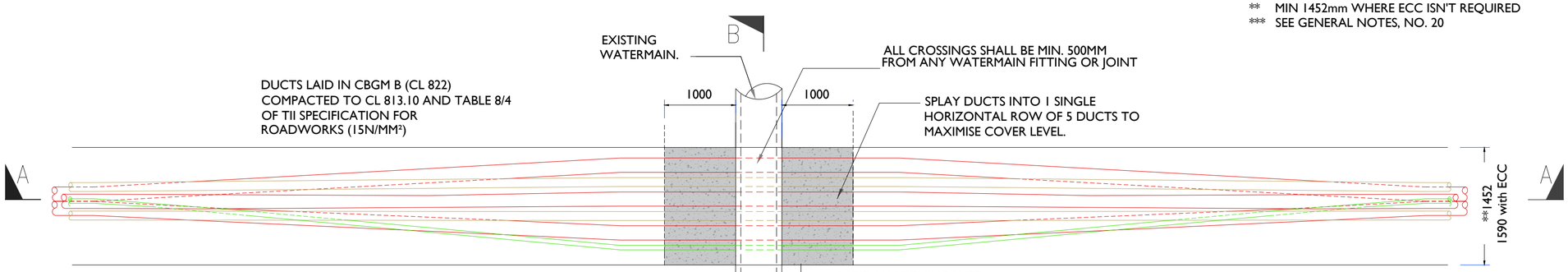
300101269-DR-130

ISO A2 420mm x 594mm

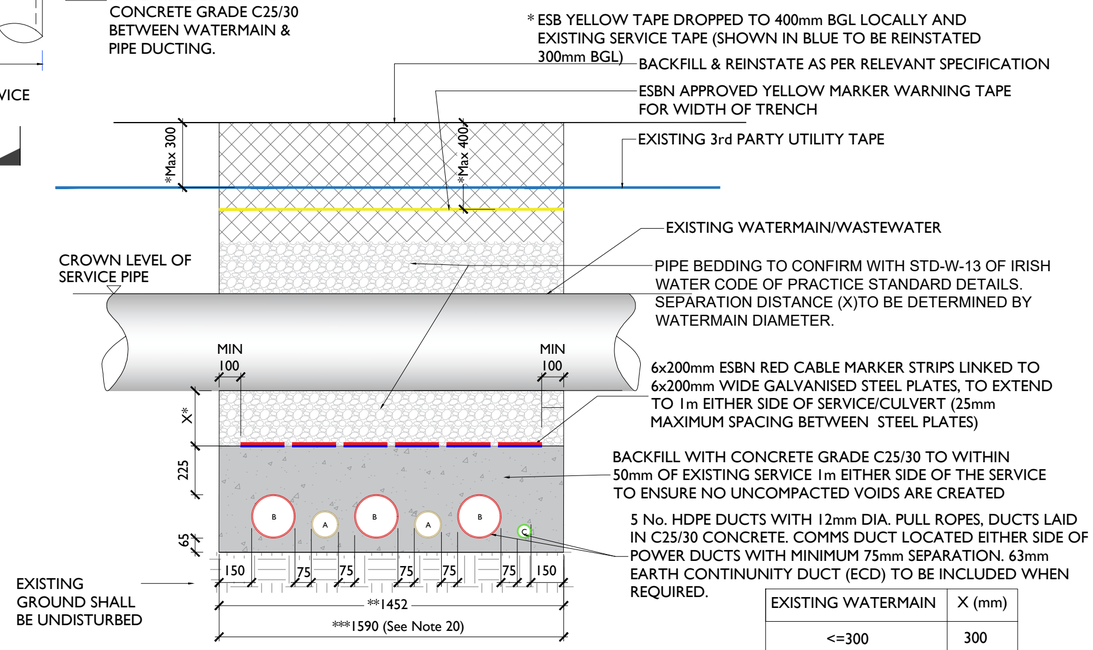


SECTION A-A

* 6X200mm STEEL PLATE & RED MARKER WHERE ECC ISN'T REQUIRED
** MIN 1452mm WHERE ECC ISN'T REQUIRED
*** SEE GENERAL NOTES, NO. 20



PLAN VIEW



EXISTING WATERMAIN	X (mm)
<=300	300
>300	500
DISTANCE TO BE IN ACCORDANCE WITH SECTION 3.6.1 OF THE CODE OF PRACTICE	

SECTION B-B

A = 125mm OUTER DIAMETER HDPE ESB APPROVED COMMS DUCT, SDR=17.6
B = 200mm OUTER DIAMETER HDPE ESB APPROVED POWER DUCT, SDR=21
C = 63mm OUTER DIAMETER HDPE FOR EARTH CONTINUITY CONDUCTOR

GENERAL NOTES

1. This drawing is subject to planning approval and is not to be used for construction.
2. This drawing is to be read in conjunction with all other relevant documentation.
3. Do not scale from this drawing use only printed dimensions
4. All dimensions are in millimetres, all chainages, levels and co-ordinates are in metres unless defined otherwise.
5. No excavation shall commence until the Contractor has consulted up to date services drawings and carried out an Electromagnetic Locator (EML) Scan.
6. Hand dig only within 500mm of existing services.
7. If compacting CBGM B could cause damage to the culvert / service below, use rapid hardening cement grade C25/30 following engineers prior approval.
8. For standard trench cross section drawings and minimum horizontal separation to existing services, see 300101269-DR-117 (TREFOIL).
9. Where depths exceed 2500mm to the top of duct the Contractor shall consult the cable system design engineer for phase spacing requirements.
10. Backfill as per guidelines for the opening, backfilling and reinstatement of openings in public roads (2015).
11. **ESB's preference is to cross under existing services where possible.**
12. Backfill as per guidelines for the opening, backfilling and reinstatement of openings in public roads (2015)
13. As per WIS 4-08-02 & IGN 4-08-01 granular material shall be 14mm to 5mm graded aggregate or 10mm single sized aggregate
14. If any Watermains are damaged during construction they will be replaced in full. camera scoping will be completed before and after the works.
15. The Contractor is responsible for the design and construction of all temporary works. The Contractor shall appoint a temporary works designer, and submit temporary works design to PSDP for review.
16. 225mm minimum concrete over ducts where they transition from standard cross section and where they are at less than standard cover to ground level.
17. Replace existing service marker tape over ESB yellow marker tape.
18. The owner of the existing utility being crossed must be consulted in advance of works commencing as per their guidelines.
19. The Contractor shall record detailed as-built information as per the specification. At all crossing locations these records shall include photographic evidence clearly demonstrating that minimum service clearances and duct separations have been achieved.
20. Where duct for Earth Continuity Conductor (ECC) is required for single point bonded sections, attach the 63mm ECC duct to the A duct and update the trench width accordingly.
21. This drawing has been prepared to inform an Environmental Impact Assessment for the Cashla Peaker Plant project and is for illustrative purposes only. Final detailed drawings for the proposed 220kV grid connection route and 220kV substation will be submitted as part of a S.182B planning application to An Coimisiún Pleanála in due course.

Project Management Initials: Designer: JC Checked: GC Approved: DB

tli GROUP
Head Office
Beenreigh, Abbeydorney,
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Tel: 00353 66 7135710

PROJECT

Indicative Cashla Peaker Plant 220kV Grid Connection and Substation - EIAR Drawings

CLIENT

Bord Gáis Energy

CONSULTANTS

AtkinsRéalis

NOTES: -

LEGEND: -

- 200mm Ø HDPE POWER DUCT WITH 12mm DIAMTER PULL ROPE
- 125mm Ø HDPE COMMUNICATION DUCT WITH 12mm DIAMTER PULL ROPE
- 63mm Ø HDPE EARTH CONTINUITY CONDUCTOR WITH12mm DIAMTER PULL ROPE
- RED MARKER STRIP OR STEEL PLATES
- YELLOW MARKER WARNING TAPE
- 6mm GALVANISED STEEL PLATE
- EXISTING SERVICE TAPE

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P2	03.02.26	Issued for Information
N2	11.11.25	Issued for Information
P1	05.09.25	Issued for Planning
N1	03.06.25	**Issued for Information**

PROJECT NUMBER

300-101269

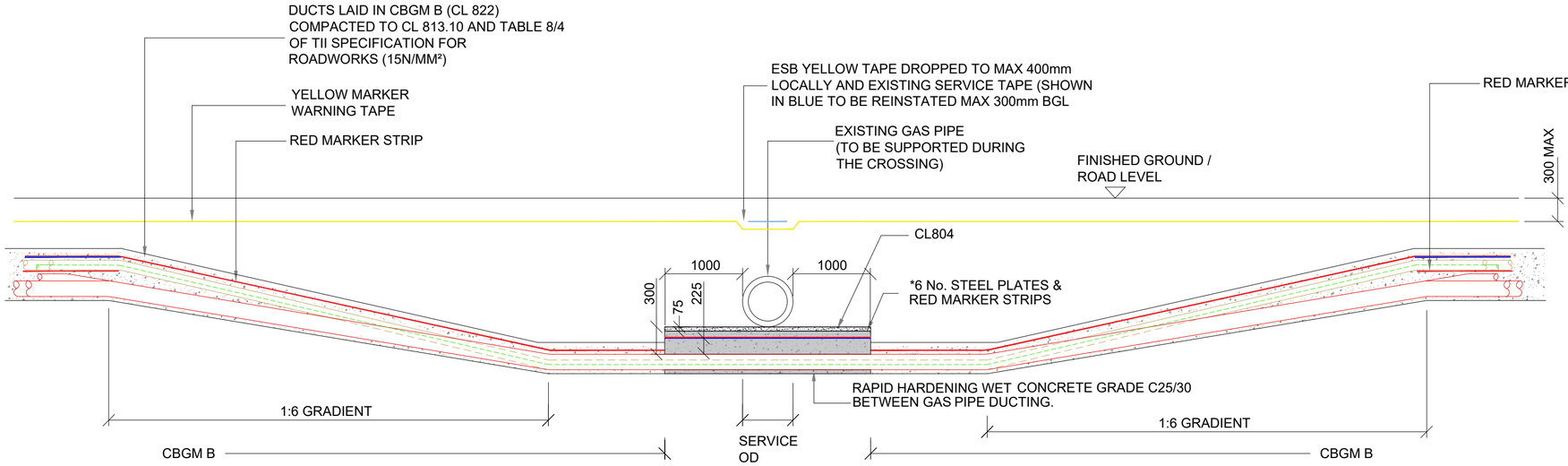
SHEET TITLE

Trench Sections For Undercrossing Existing Watermain/Wastewater

SHEET NUMBER

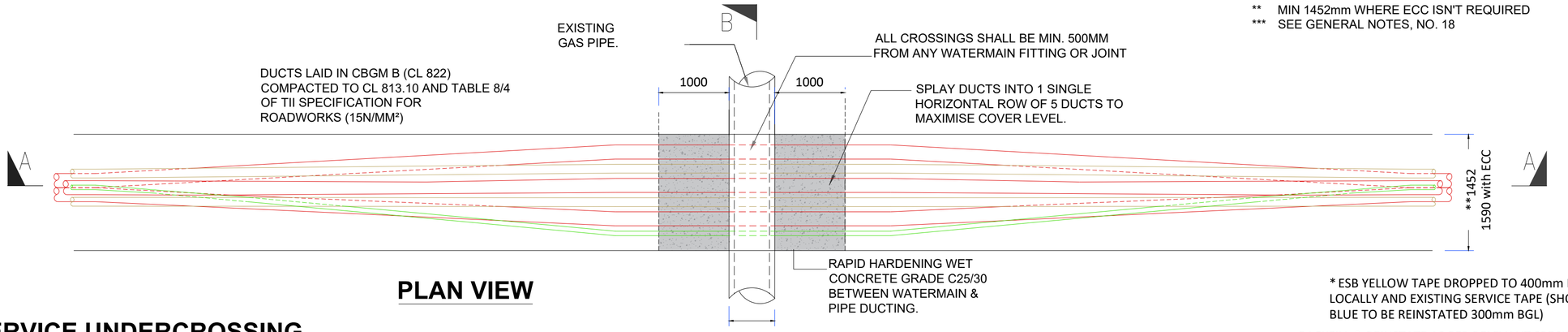
300101269-DR-131

ISO A2 420mm x 594mm



SECTION A-A

* 6X200mm STEEL PLATE & RED MARKER WHERE ECC ISN'T REQUIRED
** MIN 1452mm WHERE ECC ISN'T REQUIRED
*** SEE GENERAL NOTES, NO. 18



PLAN VIEW

SERVICE UNDERCROSSING

GENERAL NOTES

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2. This drawing is to be read in conjunction with all other relevant documentation.
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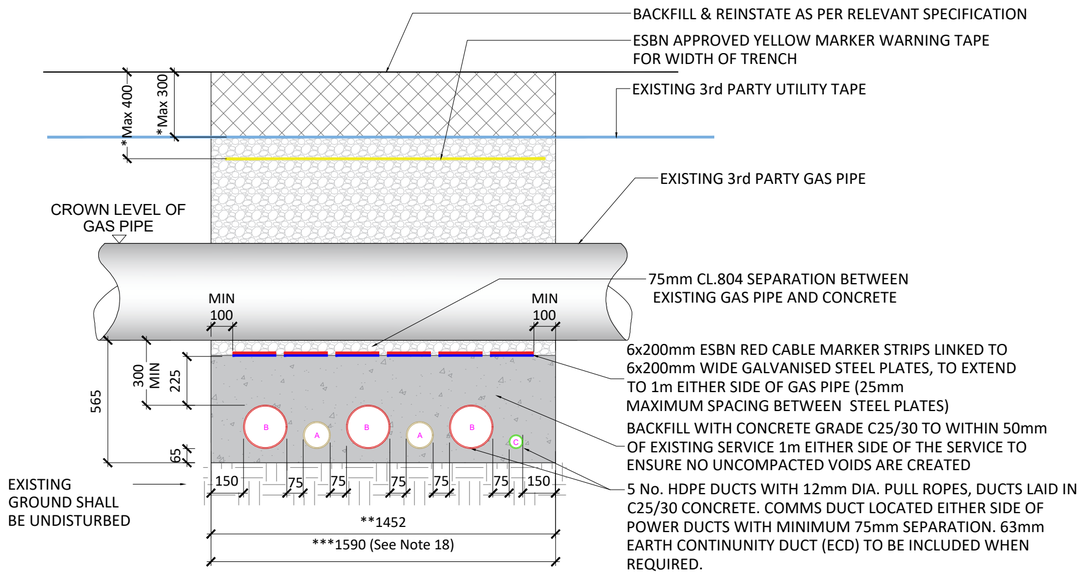
4. All dimensions are in millimetres, all chainages, levels and co-ordinates are in metres unless defined otherwise.
5. No excavation shall commence until the Contractor has consulted up to date services drawings and carried out an Electromagnetic Locator (EML) Scan.
6. Hand dig only within 500mm of existing services.
7. If compacting CBGM B could cause damage to the Gas Pipe below, use rapid hardening cement grade C25/30 following engineers prior approval.
8. For standard trench cross section drawings and minimum horizontal separation to existing services, see 300101269-DR-117 (TREFOIL).
9. Where depths exceed 2500mm to the top of duct the Contractor shall consult the cable system design engineer for phase spacing requirements.
10. Backfill as per guidelines for the opening, backfilling and reinstatement of openings in public roads (2015).
11. **ESB's preference is to cross under existing services where possible.**
12. Backfill as per guidelines for the opening, backfilling and reinstatement of openings in public roads (2015)
13. The Contractor is responsible for the design and construction of all temporary works. The Contractor shall appoint a temporary works designer, and submit temporary works design to PSDP for review.
14. 225mm minimum concrete over ducts where they transition from standard cross section and where they are at less than standard cover to ground level.
15. Replace existing service marker tape over ESB yellow marker tape.
16. The owner of the existing utility being crossed must be consulted in advance of works commencing as per their guidelines.
17. The Contractor shall record detailed as-built information as per the specification. At all crossing locations these records shall include photographic evidence clearly demonstrating that minimum service clearances and duct separations have been achieved.
18. Where duct for Earth Continuity Conductor (ECC) is required for single point bonded sections, attach the 63mm ECC duct to the A duct and update the trench width accordingly.
19. This drawing has been prepared to inform an Environmental Impact Assessment for the Cashla Peaker Plant project and is for illustrative purposes only. Final detailed drawings for the proposed 220kV grid connection route and 220kV substation will be submitted as part of a S.182B planning application to An Coimisiún Pleanála in due course.

* ESB YELLOW TAPE DROPPED TO 400mm BGL LOCALLY AND EXISTING SERVICE TAPE (SHOWN IN BLUE TO BE REINSTATED 300mm BGL)



SECTION B-B

A = 125mm OUTER DIAMETER HDPE ESB APPROVED COMMS DUCT, SDR=17.6
B = 160mm OUTER DIAMETER HDPE ESB APPROVED POWER DUCT, SDR=21
C = 63mm OUTER DIAMETER HDPE FOR EARTH CONTINUITY CONDUCTOR

Project Management Initials: Designer: JC Checked: GC Approved: DB

tli GROUP
Head Office
Beenreigh, Abbeydorney,
Tralee, Co. Kerry, Ireland
Tel: 00353 66 7135710

PROJECT

Indicative Cashla Peaker Plant 220kV Grid Connection and Substation - EIAR Drawings

CLIENT

Bord Gáis Energy

CONSULTANTS

AtkinsRéalis

NOTES: -

LEGEND: -

- 160mm Ø HDPE POWER DUCT WITH 12mm DIAMTER PULL ROPE
- 125mm Ø HDPE COMMUNICATION DUCT WITH 12mm DIAMTER PULL ROPE
- 63mm Ø HDPE EARTH CONTINUITY CONDUCTOR WITH12mm DIAMTER PULL ROPE
- RED MARKER STRIP OR STEEL PLATES
- YELLOW MARKER WARNING TAPE
- 6mm GALVANISED STEEL PLATE
- EXISTING SERVICE TAPE

ISSUE/REVISION

P2	03.02.26	Issued for Information
P1	05.09.25	Issued for Planning
N1	03.06.25	Issued for Information
I/R	DATE	DESCRIPTION

PROJECT NUMBER

05-101269

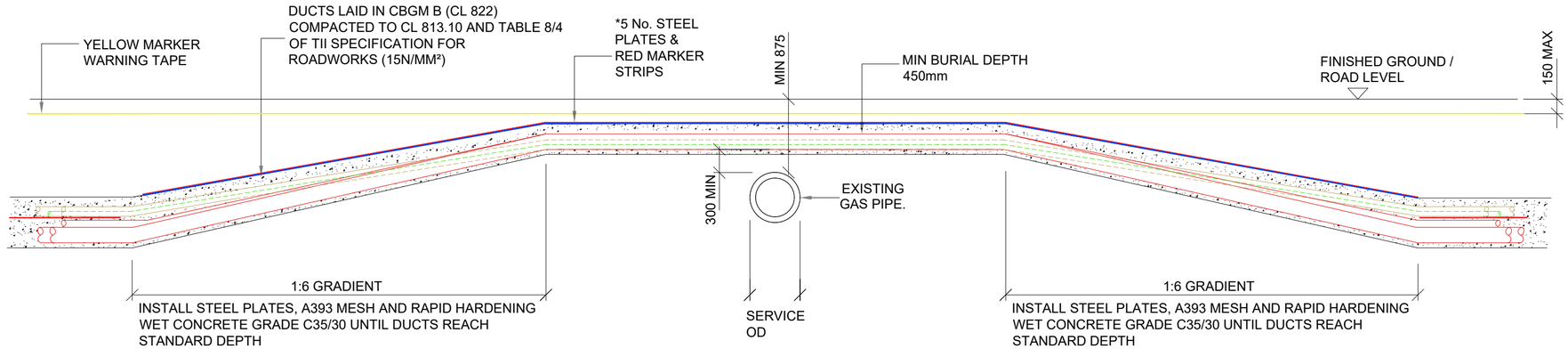
SHEET TITLE

Trench Sections For Undercrossing Existing Gas Pipe

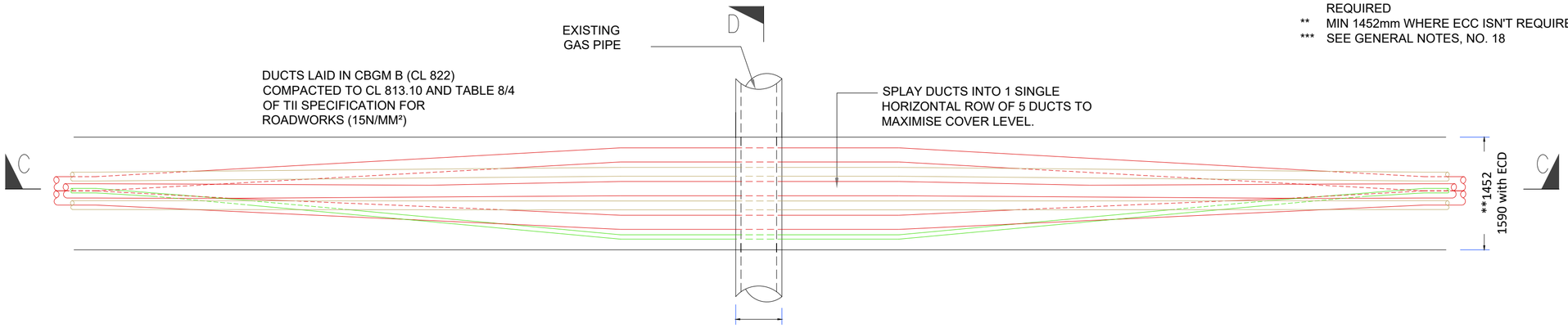
SHEET NUMBER

300101269-DR-132

ISO A2 420mm x 594mm



SECTION C-C



* 6X200mm STEEL PLATE & RED MARKER WHERE ECC ISN'T REQUIRED
** MIN 1452mm WHERE ECC ISN'T REQUIRED
*** SEE GENERAL NOTES, NO. 18

PLAN VIEW

SERVICE OVERCROSSING

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6. Hand dig only within 500mm of existing services.
7. If compacting CBGM B could cause damage to the Gas Pipe below, use rapid hardening cement grade C25/30 following engineers prior approval.
8. For standard trench cross section drawings and minimum horizontal separation to existing services, see 300101269-DR-117 (TREFOIL).
9. Where depths exceed 2500mm to the top of duct the Contractor shall consult the cable system design engineer for phase spacing requirements.
10. Backfill as per guidelines for the opening, backfilling and reinstatement of openings in public roads (2015).
11. **ESB's preference is to cross under existing services where possible.**
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14. 225mm minimum concrete over ducts where they transition from standard cross section and where they are at less than standard cover to ground level.
15. Replace existing service marker tape over ESB yellow marker tape.
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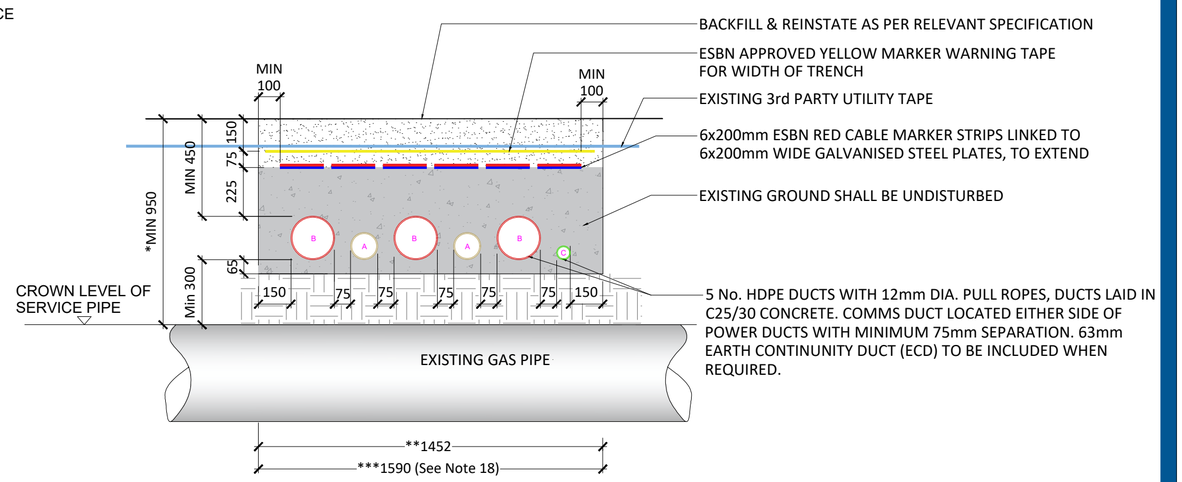
18. Where duct for Earth Continuity Conductor (ECC) is required for single point bonded sections, attach the 63mm ECC duct to the A duct and update the trench width accordingly.
19. This drawing has been prepared to inform an Environmental Impact Assessment for the Cashla Peaker Plant project and is for illustrative purposes only. Final detailed drawings for the proposed 220kV grid connection route and 220kV substation will be submitted as part of a S.182B planning application to An Coimisiún Pleanála in due course.



* ALL EXISTING SERVICES WITH COVERS LESS THAN MIN. DIMENSIONS ABOVE SHALL BE CROSSED BY UNDERCROSSING METHOD

A = 125mm OUTER DIAMETER HDPE ESB APPROVED COMMS DUCT, SDR=17.6
B = 160mm OUTER DIAMETER HDPE ESB APPROVED POWER DUCT, SDR=21
C = 63mm OUTER DIAMETER HDPE FOR EARTH CONTINUITY CONDUCTOR

SECTION D-D

Project Management Initials: Designer: JC Checked: GC Approved: DB

tli GROUP
Head Office
Beenreigh, Abbeydorney,
Tralee, Co. Kerry, Ireland
Tel: 00353 66 7135710

PROJECT

Indicative Cashla Peaker Plant 220kV Grid Connection and Substation - EIAR Drawings

CLIENT

Bord Gáis Energy

CONSULTANTS

AtkinsRéalis

NOTES: -

LEGEND: -

- 160mm Ø HDPE POWER DUCT WITH 12mm DIAMTER PULL ROPE
- 125mm Ø HDPE COMMUNICATION DUCT WITH 12mm DIAMTER PULL ROPE
- 63mm Ø HDPE EARTH CONTINUITY CONDUCTOR WITH12mm DIAMTER PULL ROPE
- RED MARKER STRIP OR
- STEEL PLATES YELLOW MARKER WARNING TAPE
- 6mm GALVANISED STEEL PLATE
- EXISTING SERVICE TAPE

ISSUE/REVISION

P2	03.02.26	Issued for Information
P1	05.09.25	Issued for Planning
N1	03.06.25	Issued for Information
I/R	DATE	DESCRIPTION

PROJECT NUMBER

05-101269

SHEET TITLE

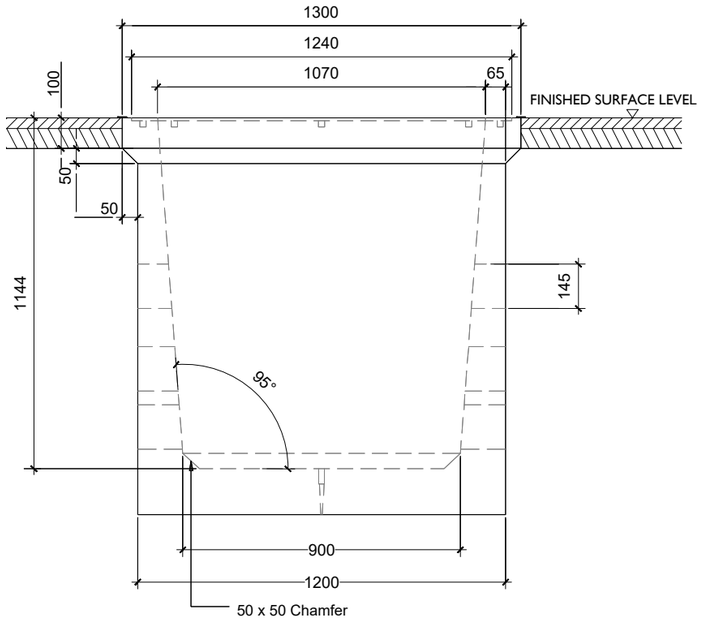
Trench Sections For Overcrossing Existing Gas Pipe

SHEET NUMBER

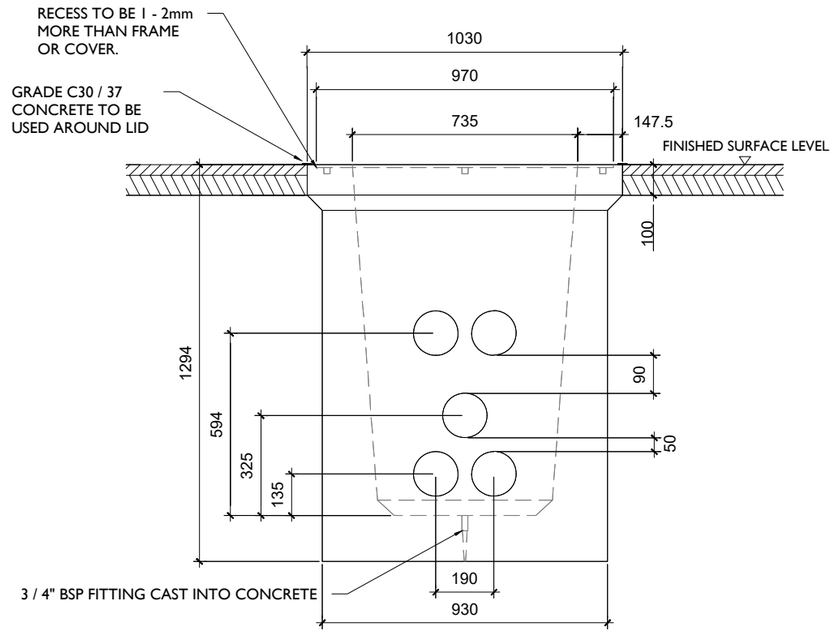
300101269-DR-133

NOTES;

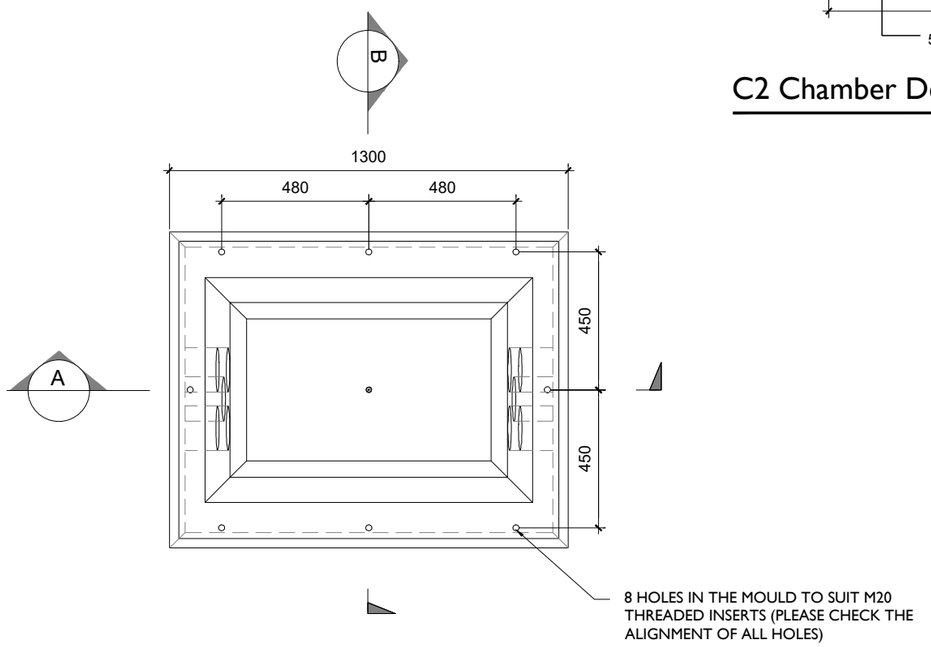
1. ALL DIMENSION IN MILLISMETERS UNLESS OTHERWISE STATED
2. REINSTATEMENTS TO COMPLY WITH REQUIREMENTS OF THE RELEVANT LOCAL AUTHORITY/ASSET OWNER
3. ENTRANCE AND EXIT DUCTS TO BE IN LINE
4. ALL MATERIALS AND WORKMANSHIP TO BE IN ACCORDANCE WITH NRA/T.I.I. SPECIFICATION FOR ROADWORKS, MAY 2005 & SUBSEQUENT REVISIONS
5. REINFORCED CONCRETE TO BE MINIMUM GRADE C32 / 40, SULPHATE RESISTING CEMENT TO BE USED WHERE AGGRESSIVE SOIL CONDITIONS APPLY, REFER TO TABLE 6.1 OF THE BRITISH STANDARD 8110.
6. CARRAIGEWAY COVERS AND FRAMES TO BE TO B.S EN 124.
7. ALL COVERS SHALL HAVE "ESB" LOGO INCORPORATED IN THEM TO THE APPROVAL OF EIRGRID
8. STEP IRONS TO BE GOT DIPPED GALVANISED TO B.S 729 AND POSITIONED AS SHOWN ON ANY CHAMBER DEEPER THAN 700mm ON THE END REMOTE FROM ANY SIDE ENTRY DUCT.
9. CONCRETE PRECAST CHAMBER AND COVER TO BE TESTED THROUGH 5 POINTS, 40 TONNES VERTICAL STATIC LOADING TEST BY AN INDEPENDENT TEST COMPANY. IF REQUIRED, FURTHER DETAILS WILL BE PROVIDED BY EIRGRID.
10. FINAL POSITION OF C2 CHAMBERS SHALL BE AGREED WITH EIRGRID
11. IN A FOREST ENVIROMENT, BACKFILL WITH LEAN MIX OUTSIDE THE COVER FRAME WHERE THE ASPHALT IS SHOWN
12. THIS DRAWING HAS BEEN PREPARED TO INFORM AN ENVIRONMENTAL IMPACT ASSESSMENT FOR THE CASHLA PEAKER PLANT PROJECT AND IS FOR ILLUSTRATIVE PURPOSES ONLY. FINAL DETAILED DRAWINGS FOR THE PROPOSED 220KV GRID CONNECTION ROUTE AND 220KV SUBSTATION WILL BE SUBMITTED AS PART OF A S.182B PLANNING APPLICATION TO AN COIMISIÚN PLEANÁLA IN DUE COURSE.



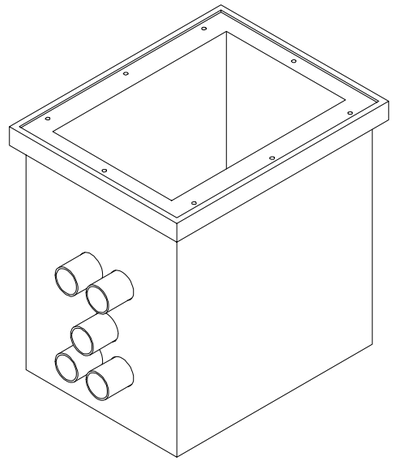
C2 Chamber Detail - Section A



C2 Chamber Detail - Section B



Plan of C2 Chamber



Isometric : C2 Chamber Arrangement

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Beenreigh,
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Ireland
Tel: 00353 66 7135710

CLIENT
Bord Gáis Energy
AtkinsRéalis

PROJECT
Indicative Cashla Peaker Plant 220kV Grid Connection and Substation - EIAR Drawings

PROJECT NUMBER
300-101269

SHEET NUMBER
300101269-DR-134

SHEET TITLE
Communications Chamber Details

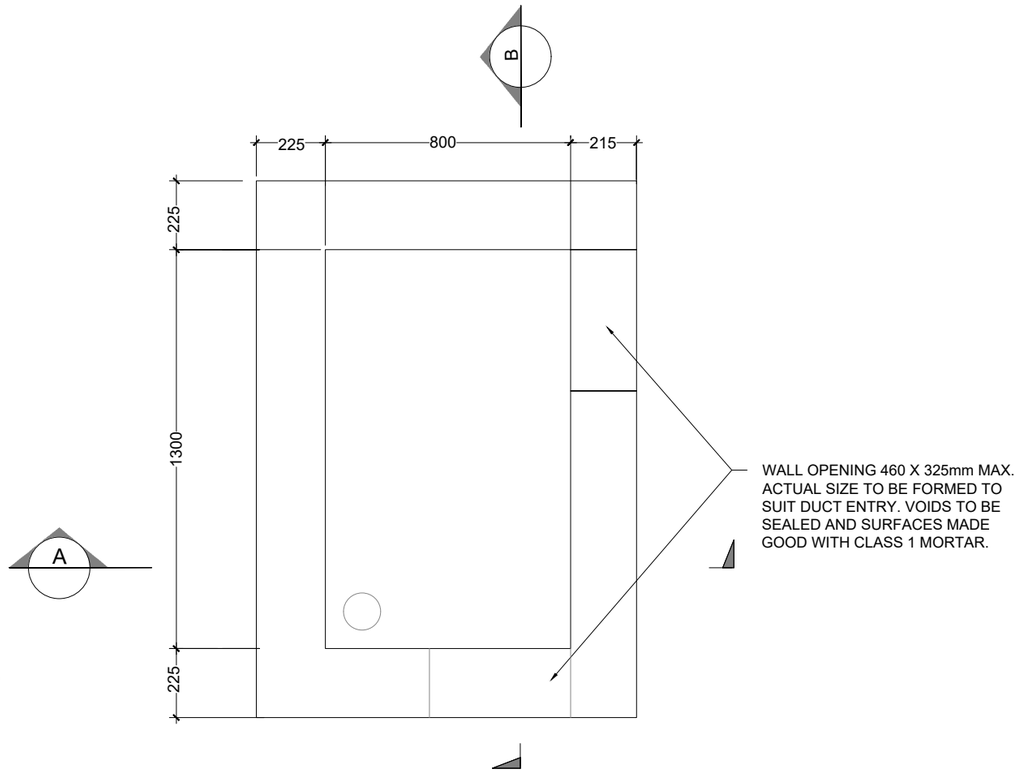
DRAWING STATUS
For Information

ISSUE/REVISION

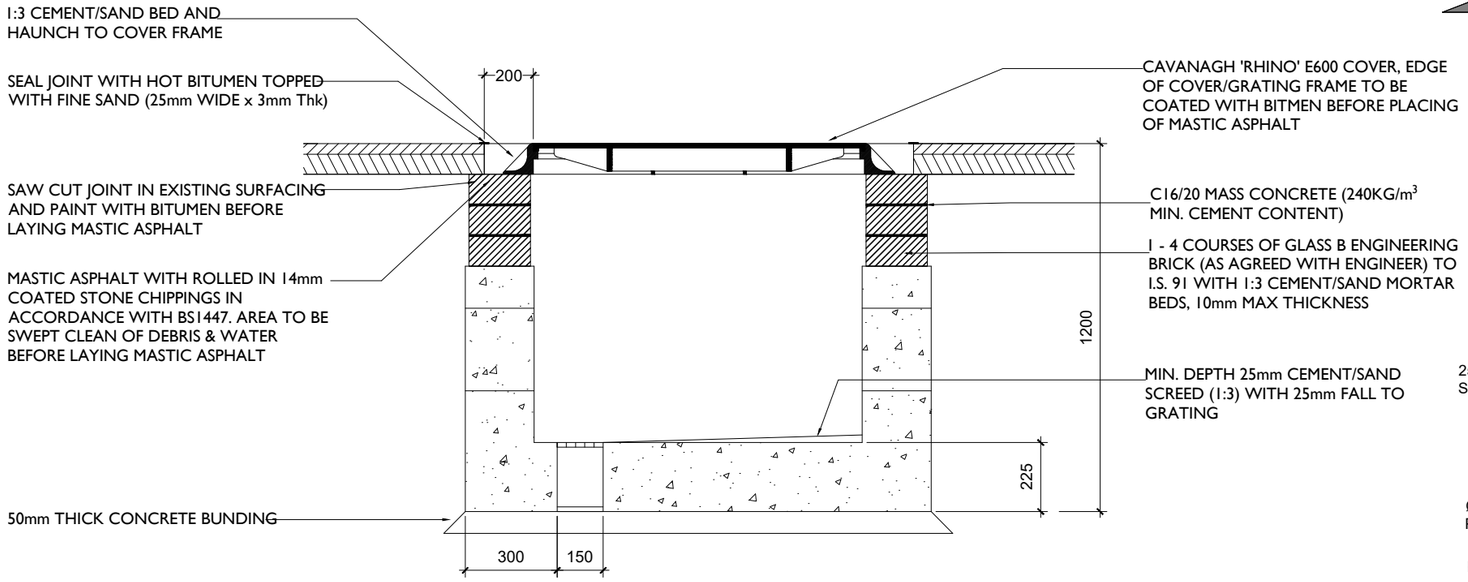
I/R	DATE	DESCRIPTION
P2	03.02.26	Issued for Information
P1	05.09.25	Issued fir Planning
N1	03.06.25	Issued for Information

NOTES;

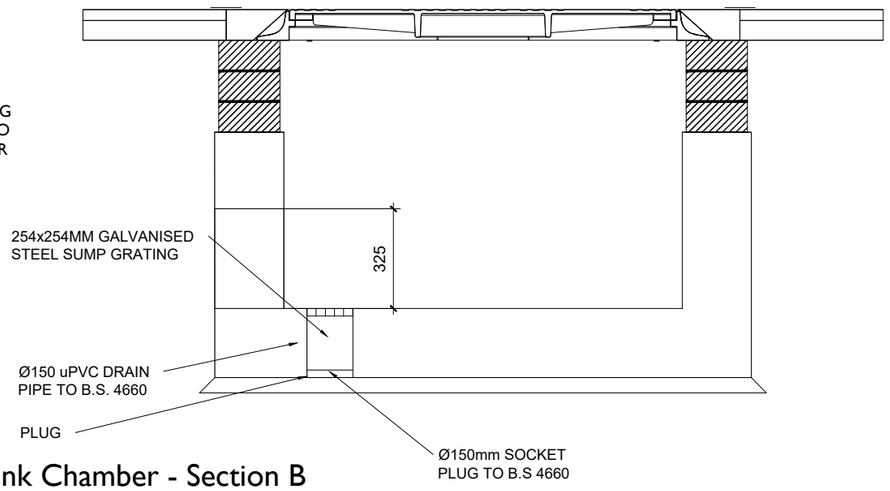
1. ALL DIMENSION IN MILLIMETERS UNLESS OTHERWISE STATED
2. REINSTATEMENTS TO COMPLY WITH REQUIREMENTS OF THE RELEVANT LOCAL AUTHORITY/ASSET OWNER
3. ALL MATERIALS AND WORKMANSHIP TO BE IN ACCORDANCE WITH NRA/T.I.I. SPECIFICATION FOR ROADWORKS, MAY 2005 & SUBSEQUENT REVISIONS
4. REINFORCED CONCRETE TO BE MINIMUM GRADE C32 / 40, SULPHATE RESISTING CEMENT TO BE USED WHERE AGGRESSIVE SOIL CONDITIONS APPLY, REFER TO TABLE 6.1 OF THE BRITISH STANDARD 8110.
5. CARRAIGEWAY COVERS AND FRAMES TO BE TO B.S EN 124.
6. ALL COVERS SHALL HAVE "ESB" LOGO INCORPORATED IN THEM TO THE APPROVAL OF EIRGRID
7. FURTHER DETAILS WILL BE PROVIDED BY EIRGRID.
8. FINAL POSITION OF EARTH LINK CHAMBERS SHALL BE AGREED WITH EIRGRID
9. THIS DRAWING HAS BEEN PREPARED TO INFORM AN ENVIRONMENTAL IMPACT ASSESSMENT FOR THE CASHLA PEAKER PLANT PROJECT AND IS FOR ILLUSTRATIVE PURPOSES ONLY. FINAL DETAILED DRAWINGS FOR THE PROPOSED 220KV GRID CONNECTION ROUTE AND 220KV SUBSTATION WILL BE SUBMITTED AS PART OF A S.182B PLANNING APPLICATION TO AN COIMISIÚN PLEANÁLA IN DUE COURSE.



Plan of Earth Link Chamber



Earth Link Chamber - Section A



Earth Link Chamber - Section B

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CLIENT
Bord Gáis Energy
AtkinsRéalis

PROJECT
Indicative Cashla Peaker Plant 220kV Grid Connection and Substation - EIAR Drawings

PROJECT NUMBER
300-101269

SHEET NUMBER
300101269-DR-135

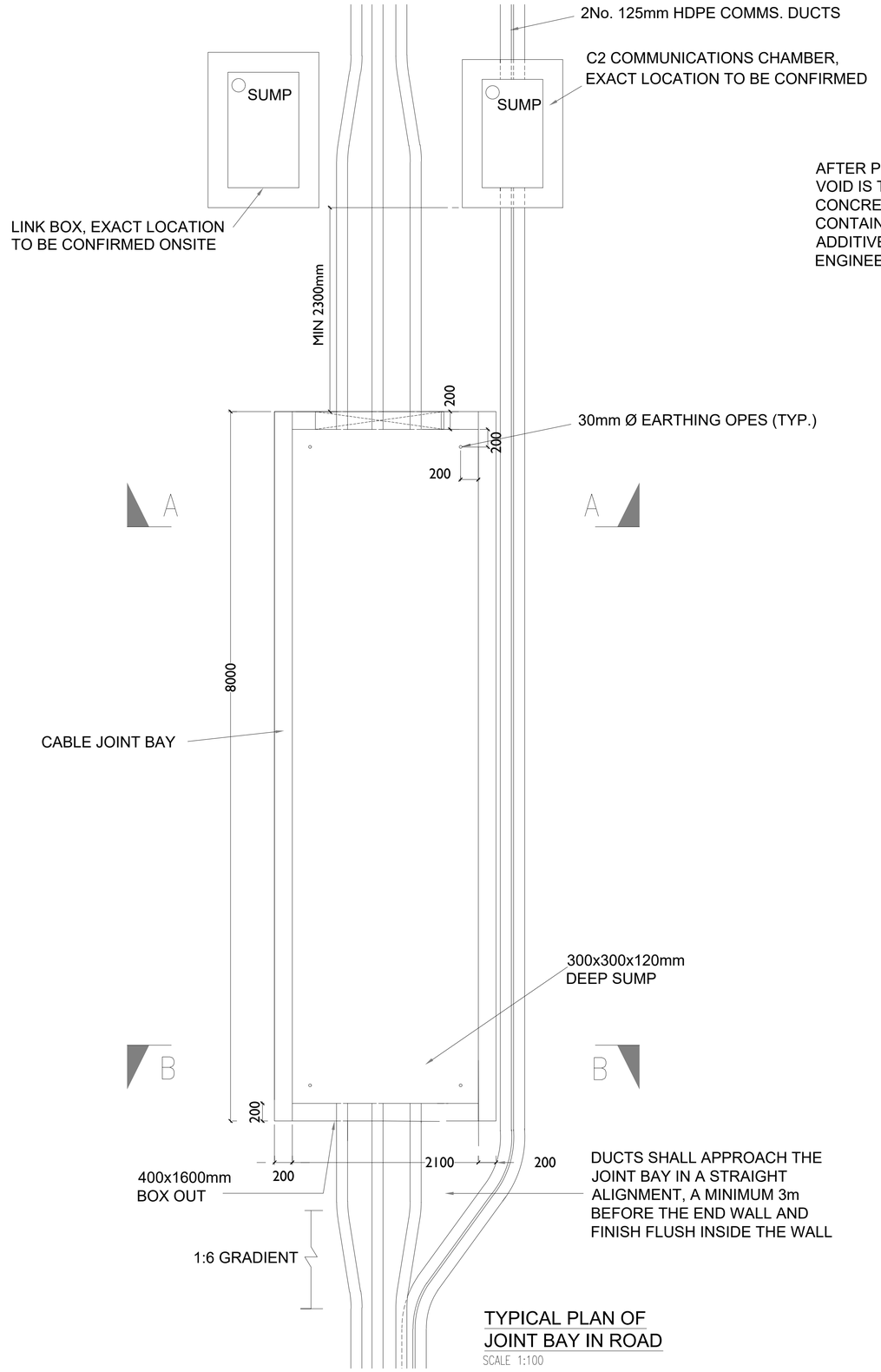
SHEET TITLE
Earth Link Chamber Details

DRAWING STATUS
For Information

ISSUE/REVISION

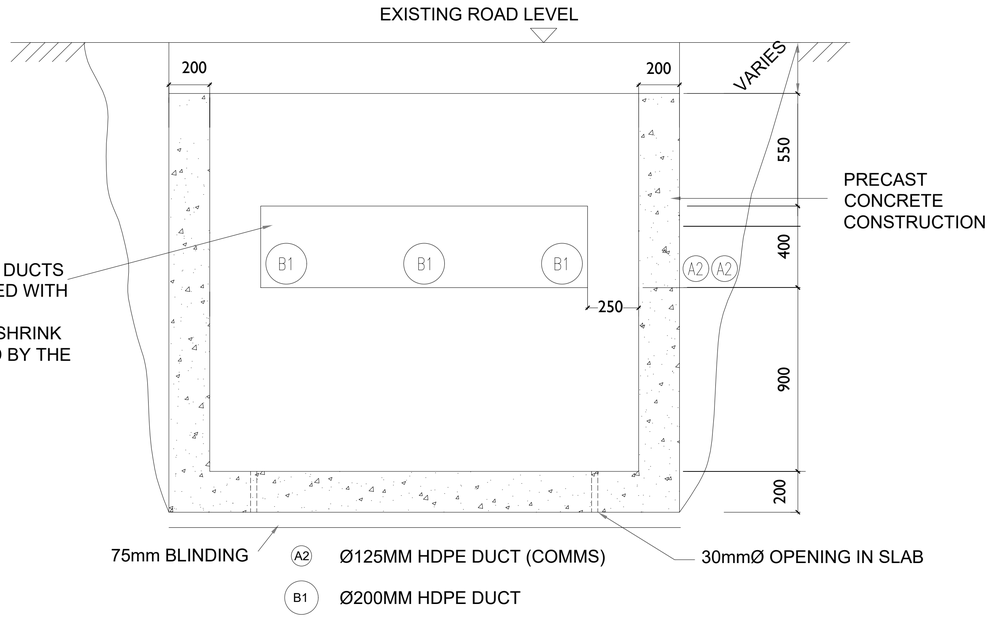
I/R	DATE	DESCRIPTION
P2	03.02.26	Issued for Information
P1	05.09.25	Issued fir Planning
N1	03.06.25	Issued for Information

ISO A1 594mm x 841mm



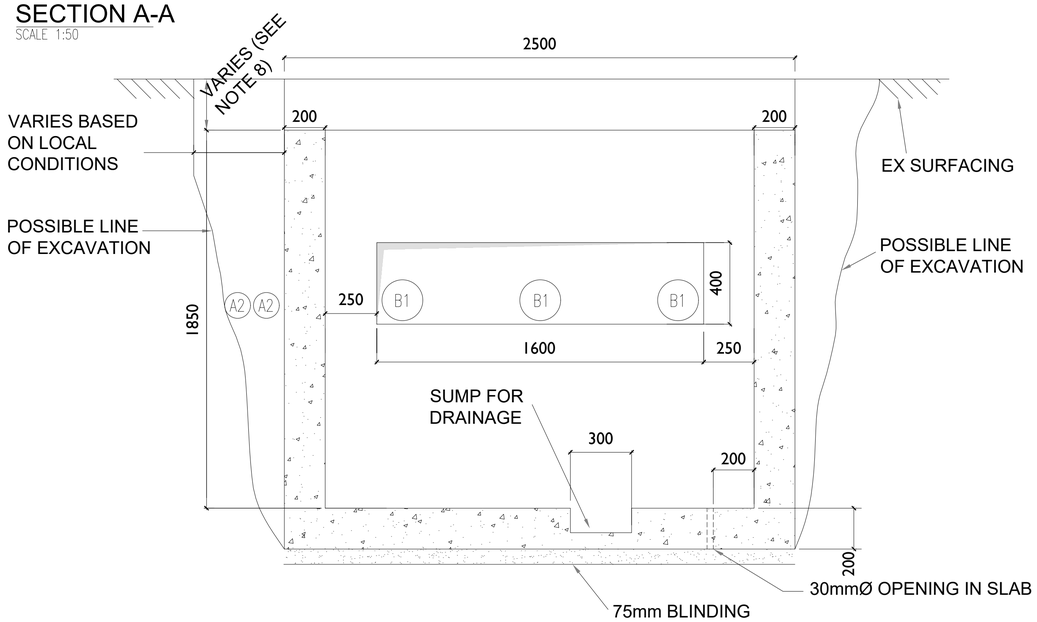
TYPICAL PLAN OF JOINT BAY IN ROAD

SCALE 1:100



SECTION A-A

SCALE 1:50



SECTION B-B

SCALE 1:50

GENERAL NOTES:

1. THIS DRAWING IS TO BE USED ONLY FOR THE PURPOSE OF ISSUE AND IS SUBJECT TO AMENDMENT.
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT INFORMATION.
3. DO NOT SCALE FROM THIS DRAWING, USE ONLY PRINTED DIMENSIONS.
4. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS DEFINED OTHERWISE.
5. STANDARD FOUNDATIONS ARE BASED ON THE FORMATION AT THE BASE OF THE EXCAVATION SHOWN BEING SUITABLE FOR A MINIMUM BEARING PRESSURE OF 100kN/m2. SUITABILITY OF STANDARD JOINT BAY FOUNDATIONS CAN ONLY BE CONFIRMED FOLLOWING GROUND INVESTIGATION. HAND VANE TESTS SHALL BE REQUIRED AS PER GI SPECIFICATION. WHERE SPECIFIED MINIMUM BEARING PRESSURE IS NOT ACHIEVABLE, AND WHERE PEAT IS ENCOUNTERED, THE CONTRACTOR SHALL REFER TO THE ENGINEER FOR GUIDANCE.
6. THE LENGTH OF BONDING LEAD LENGTH SHALL IN NO CASE EXCEED 10M. NO JOINTS IN BONDING CABLE ARE PERMITTED.
7. ALL EARTHING SHALL BE IN ACCORDANCE WITH ENA ER C55 AND EIRGRID/ESBN FUNCTIONAL SPECIFICATION.
8. THE DEPTH FROM GROUND/ROAD LEVELTO THE TOP OF THE CONCRETE WALL SHALL BE
   - A. 500MM - IN CULTIVATED FIELDS & GRASS LAND
   - B. 300MM - IN PAVED ROADS AND GRASS VERGES
   - C. 350MM - IN PAVED CITY ROADS AND GRASS VERGES
9. LINK BOX CHAMBERS TO BE POSITIONED AT THE EDGE OR OFF ROAD.
10. LINK BOX CHAMBERS AND C2 COMM CHAMBERS FINAL POSITIONING TO BE AGREED WITH EIRGRID PRIOR TO INSTALLATION.
11. THIS DRAWING HAS BEEN PREPARED TO INFORM AN ENVIRONMENTAL IMPACT ASSESSMENT FOR THE CASHLA PEAKER PLANT PROJECT AND IS FOR ILLUSTRATIVE PURPOSES ONLY. FINAL DETAILED DRAWINGS FOR THE PROPOSED 220KV GRID CONNECTION ROUTE AND 220KV SUBSTATION WILL BE SUBMITTED AS PART OF A S.182B PLANNING APPLICATION TO AN COIMISIÚN PLEANÁLA IN DUE COURSE.

Project Management Initials: Designer: JC Checked: GC Approved: DB

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PROJECT

Indicative Cashla Peaker Plant 220kV Grid Connection and Substation - EIAR Drawings

CLIENT

Bord Gáis Energy

CONSULTANTS

AtkinsRéalis

NOTES: -

See General Notes

LEGEND: -

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P2	03.02.26	Issued for Information
P1	05.09.25	Issued for Planning
N1	03.06.25	Issued for Information

PROJECT NUMBER

300-101269

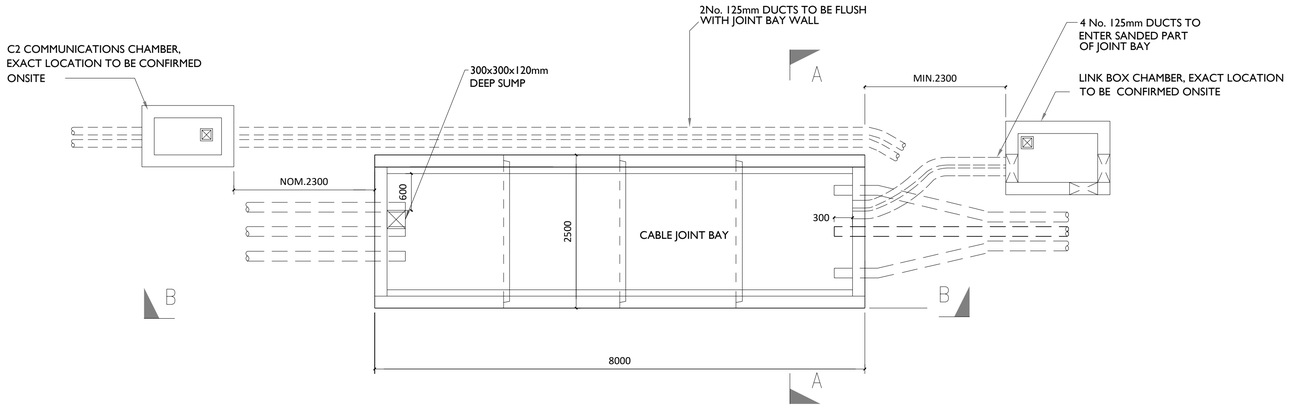
SHEET TITLE

220kV Joint Bay Section Details

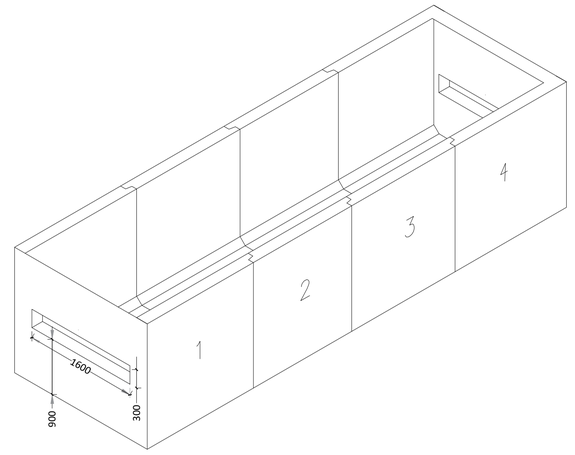
SHEET NUMBER

300101269-DR-136

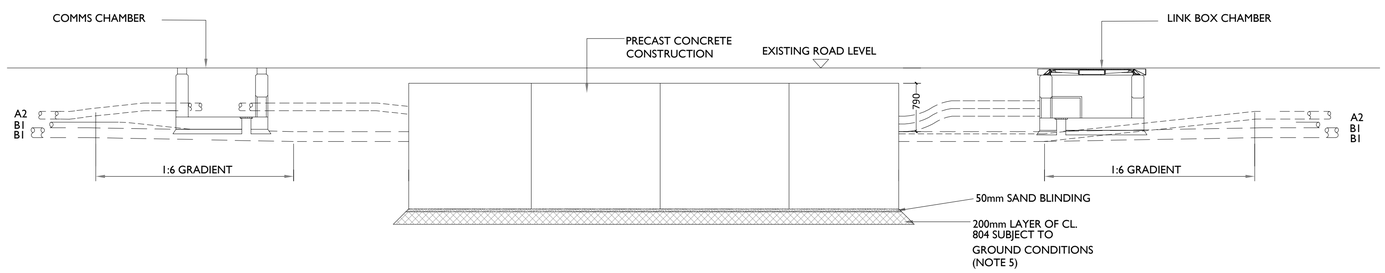
ISO A1 594mm x 841mm



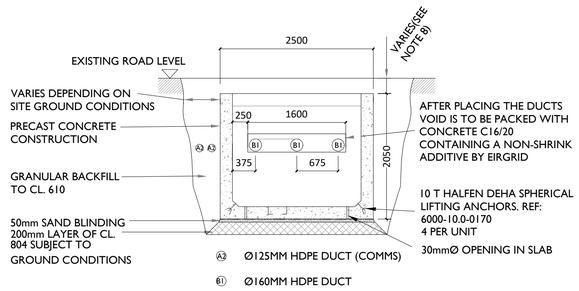
PLAN VIEW



ISOMETRIC VIEW PRECAST CHAMBER



SECTION B-B



SECTION A-A

GENERAL NOTES:

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Project Management Initials: Designer: JC Checked: GC Approved: DB

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PROJECT

Indicative Cashla Peaker Plant 220kV Grid Connection and Substation - EIAR Drawings

CLIENT

Bord Gáis Energy

CONSULTANTS

AtkinsRéalis

NOTES: -

See General Notes

LEGEND: -

ISSUE/REVISION

P2	03.02.26	Issued for Information
P1	05.09.25	Issued for Planning
N1	03.06.25	Issued for Information
I/R	DATE	DESCRIPTION

PROJECT NUMBER

300-101269

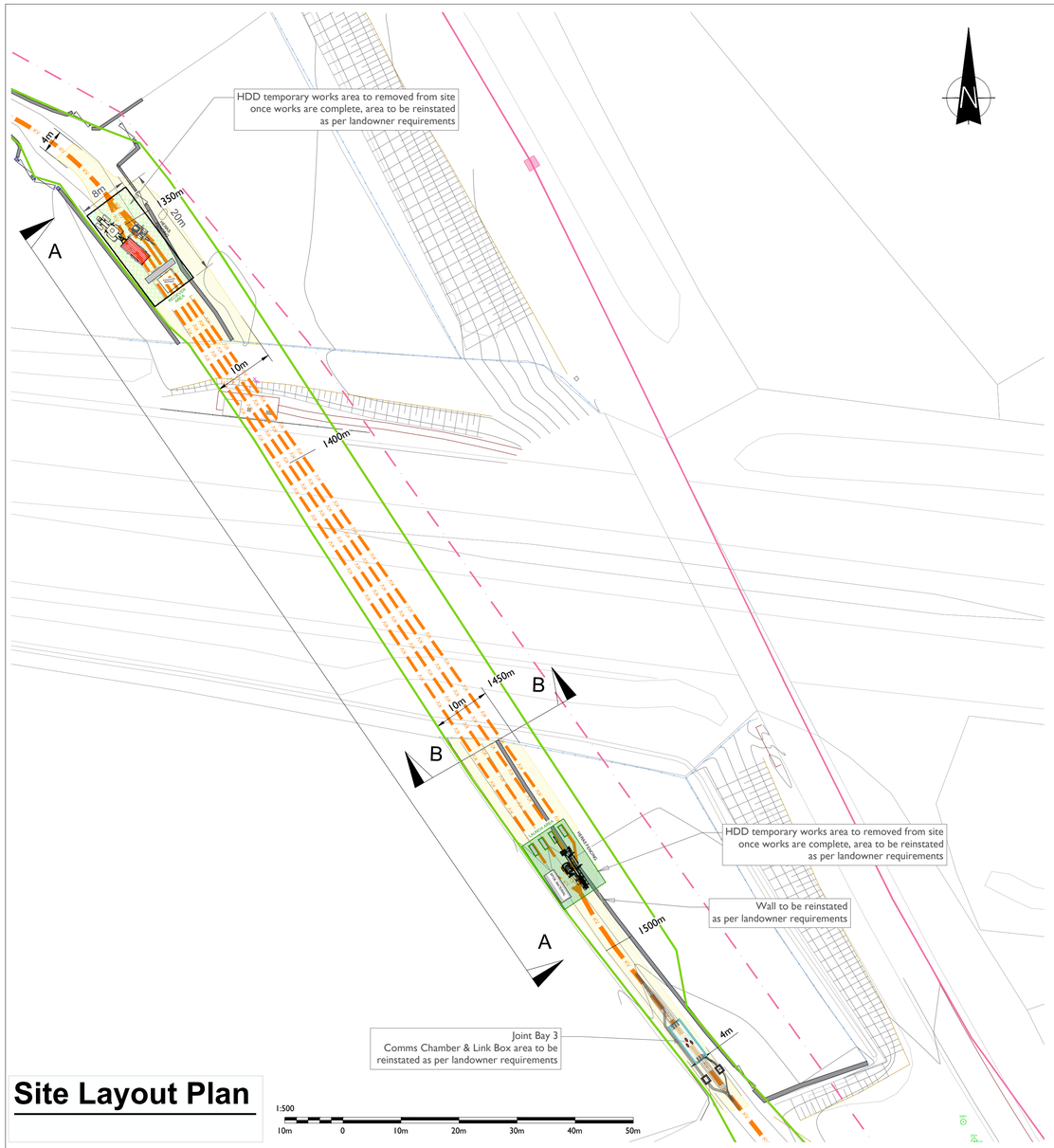
SHEET TITLE

110kV Joint Bay General Arrangement and Details

SHEET NUMBER

300101269-DR-137

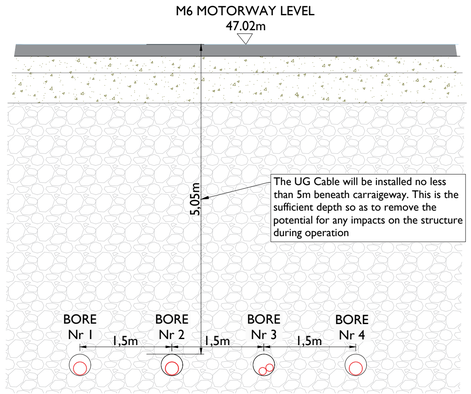
ISO A1 594mm x 841mm



Site Layout Plan

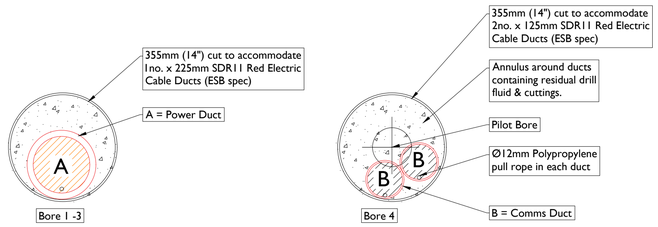
Notes:

1. HDD crossing design will be prepared following completion of site investigation works.
2. This drawing is to be read in conjunction with all other relevant information.
3. Do not scale from this drawing, use only printed dimensions.
4. All dimensions are in metres unless noted otherwise.
5. No excavation shall commence until the contractor has consulted up to date services drawings and carried out an electromagnetic locator (EML) scan.
6. Hand dig only within 500mm of existing services.
7. All co-ordinates are referenced to ITM.
8. The Contractor is responsible for the design and construction of any temporary work required.
9. HDD launch and reception pits locations to be determined following site investigations works.
10. Final HDD design to be completed by Specialist Drilling Contractor in conjunction with the Cable Designer.
11. Transition couplers to be utilised to transition to standard power ducting after HDD. Comms ducts do not require a transition coupler and will be coupled directly using a chamfer between the two ducts.
12. All interstitial space between ducts and borehole to be bentonited thoroughly to maintain cable rating.
13. This drawing has been prepared to inform an Environmental Impact Assessment for the Cashla Peaker Plant project and is for illustrative purposes only. Final detailed drawings for the proposed 220kV grid connection route and 220kV substation will be submitted as part of a S.182B planning application to An Coimisiún Pleanála in due course.



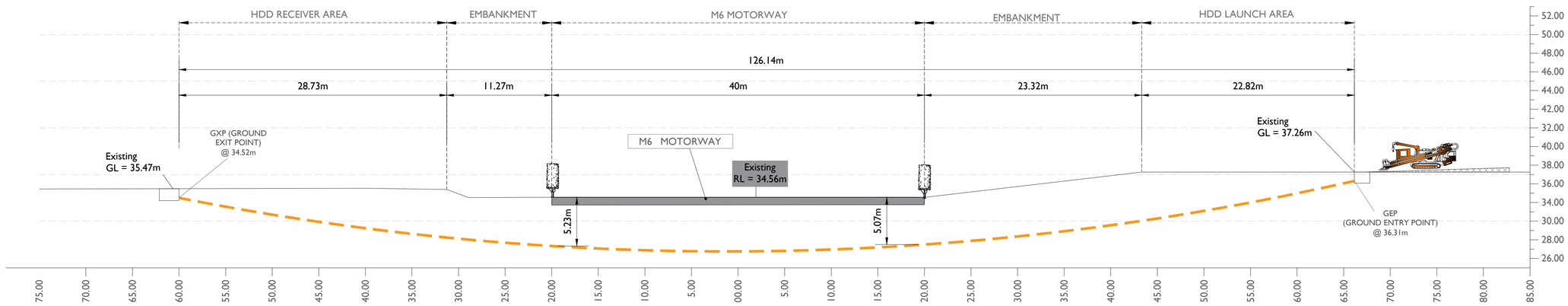
Section B - B

Image 1 : Typical Directional Drilling Rig



A = Power Duct: 225mm (OD) SDR 11, HDPE
B = Comms Duct: 125mm (OD) SDR 11, HDPE

All interstitial space to be bentonited throughly to maintain cable rating. Accurately record crossing location & erect marker posts



Section A - A

Project Management Initials:
Designer: JC
Checked: GC
Approved: DB

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PROJECT

Indicative Cashla Peaker Plant 220kV Grid Connection and Substation - EIAR Drawings

CLIENT

Bord Gáis Energy

CONSULTANTS

AtkinsRéalis

NOTES: -

- See Notes

LEGEND: -

- Proposed 220 kV UGC Grid Connection Route (8.1km) — KV
- Indicative Substation Layout and Grid Connection Route Corridor
- Existing Eir Network OHL
- Existing Eir Network UGC
- Wayleave

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P3	03.02.26	Issued for Information
P2	25.09.25	Updated for Trunking Main
P1	05.09.25	Issued for Planning
N1	03.06.25	Issued for Information

PROJECT NUMBER

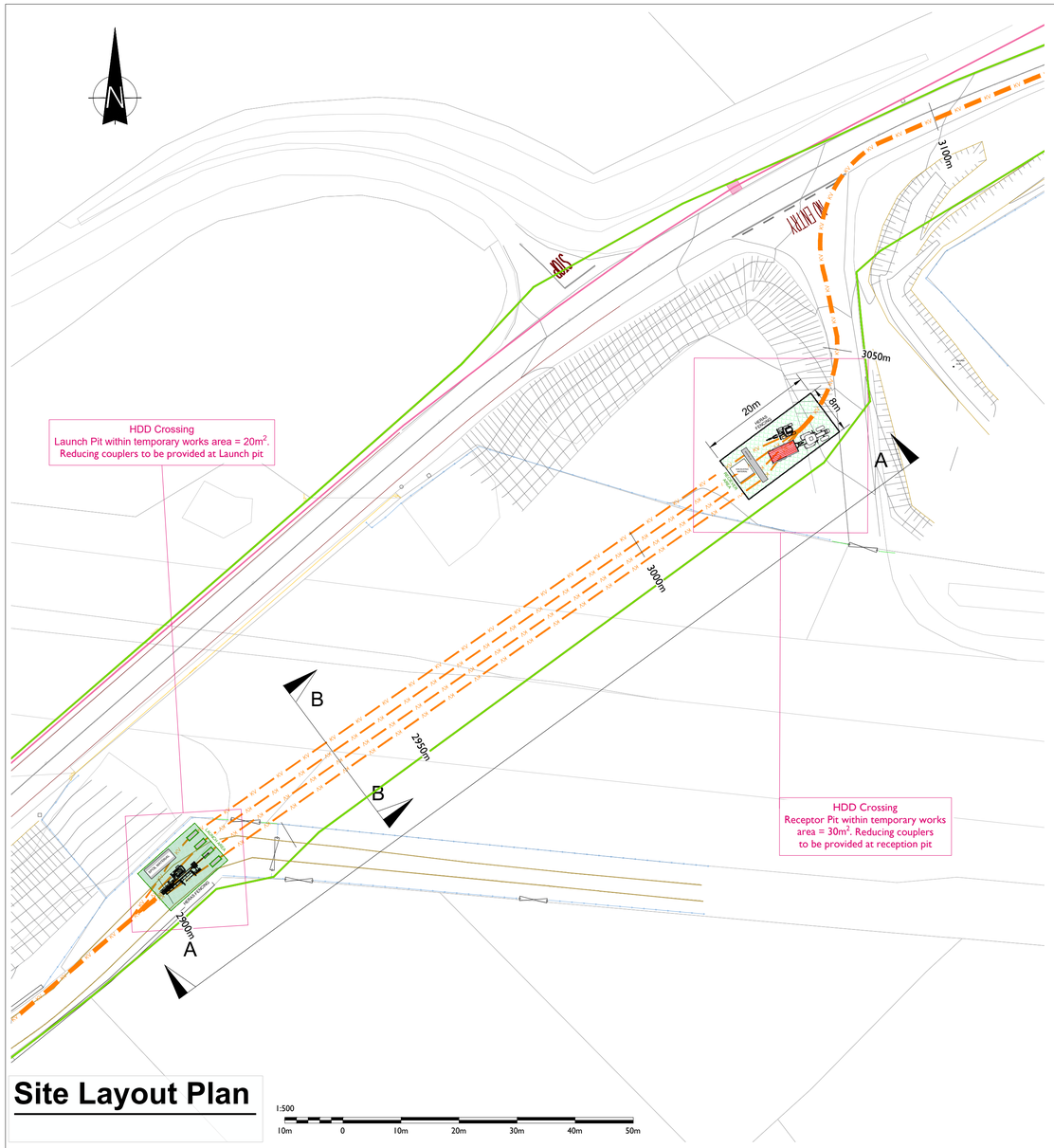
300-101269

SHEET TITLE

M6 HDD Crossing 1

SHEET NUMBER

300101269-DR-138



ISO A1 594mm x 841mm

HDD Crossing
Launch Pit within temporary works area = 20m². Reducing couplers to be provided at Launch pit

HDD Crossing
Receptor Pit within temporary works area = 30m². Reducing couplers to be provided at reception pit

Site Layout Plan

1:500
10m 0 10m 20m 30m 40m 50m

Notes:
1. HDD crossing design will be prepared following completion of site investigation works.
2. This drawing is to be read in conjunction with all other relevant information.
3. Do not scale from this drawing, use only printed dimensions.
4. All dimensions are in metres unless noted otherwise.
5. No excavation shall commence until the contractor has consulted up to date services drawings and carried out an electromagnetic locator (EML) scan.
6. Hand dig only within 500mm of existing services.
7. All co-ordinates are referenced to ITM.
8. The Contractor is responsible for the design and construction of any temporary work required.
9. HDD launch and reception pits locations to be determined following site investigations works.
10. Final HDD design to be completed by Specialist Drilling Contractor in conjunction with the Cable Designer.
11. Transition couplers to be utilised to transition to standard power ducting after HDD. Comms ducts do not require a transition coupler and will be coupled directly using a chamfer between the two ducts.
12. All interstitial space between ducts and borehole to be bentonited thoroughly to maintain cable rating.
13. This drawing has been prepared to inform an Environmental Impact Assessment for the Cashla Peaker Plant project and is for illustrative purposes only. Final detailed drawings for the proposed 220kV grid connection route and 220kV substation will be submitted as part of a S.182B planning application to An Coimisiún Pleanála in due course.

The UG Cable will be installed no less than 5m beneath carraigeway. This is the sufficient depth so as to remove the potential for any impacts on the structure during operation

Section B - B

Scale : 1:50

Image 1 : Typical Directional Drilling Rig

355mm (14") cut to accommodate 1no. x 225mm SDR11 Red Electric Cable Ducts (ESB spec)

A = Power Duct

355mm (14") cut to accommodate 2no. x 125mm SDR11 Red Electric Cable Ducts (ESB spec)

Annulus around ducts containing residual drill fluid & cuttings.

Pilot Bore

Ø12mm Polypropylene pull rope in each duct

B = Comms Duct

A = Power Duct: 225mm (OD) SDR 11, HDPE
B = Comms Duct: 125mm (OD) SDR 11, HDPE

All interstitial space to be bentonited throughly to maintain cable rating. Accurately record crossing location & erect marker posts

Section A - A

Approved: DB
Checked: GC
Designer: JC
Project Management Initials:

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PROJECT

Indicative Cashla Peaker Plant 220kV Grid Connection and Substation - EIAR Drawings

CLIENT

Bord Gáis Energy

CONSULTANTS

AtkinsRéalis

NOTES: -
- See Notes

LEGEND: -

Proposed 220 kV UGC Grid Connection Route (8.1km)	━ KV ━
Indicative Substation Layout and Grid Connection Route Corridor	━━━
Existing Eir Network OHL	— —
Existing Eir Network UGC	━━━

ISSUE/REVISION

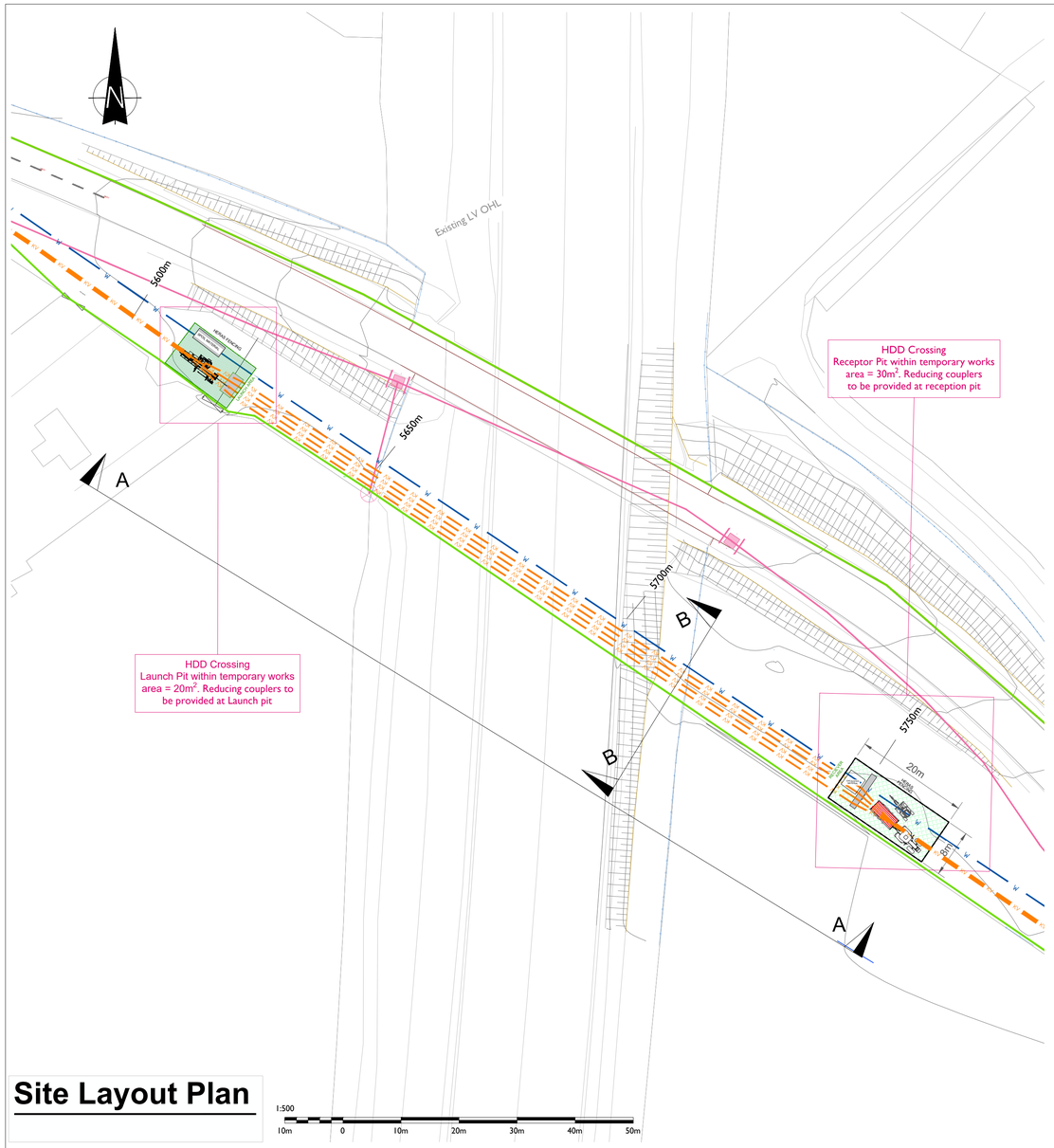
P3	03.02.26	Issued for Information
P2	25.09.25	Updated for Trunking Main
P1	05.09.25	Issued for Planning
N1	03.06.25	Issued for Information
I/R	DATE	DESCRIPTION

PROJECT NUMBER
300-101269

SHEET TITLE
M6 HDD Crossing 2

SHEET NUMBER
300101269-DR-139

ISO A1 594mm x 841mm



Site Layout Plan

Notes:

1. HDD crossing design will be prepared following completion of site investigation works.
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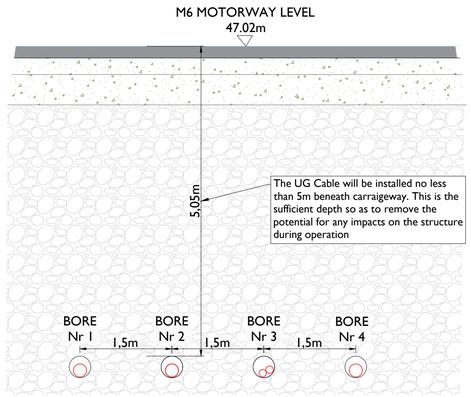
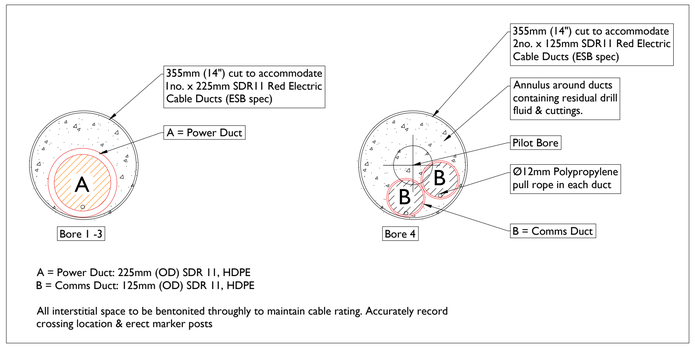
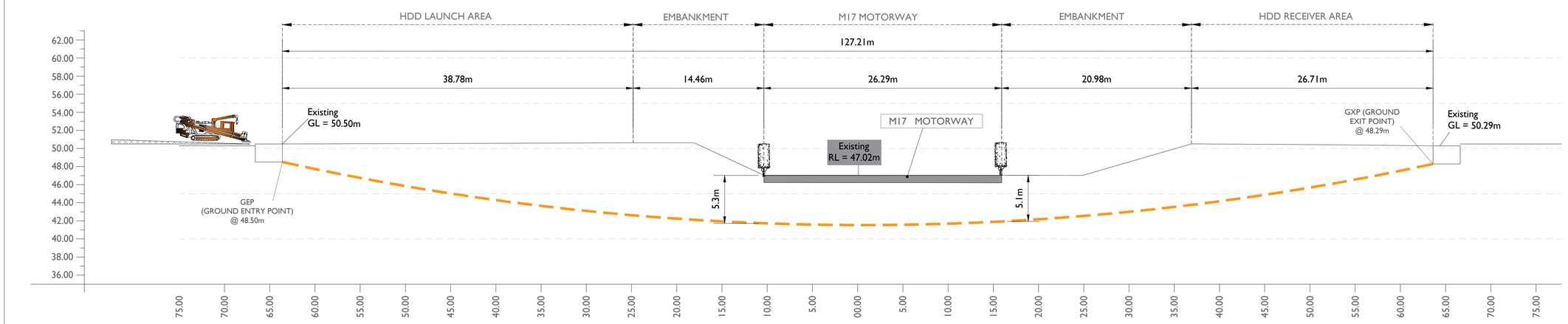


Section B - B

Scale : 1:50

Image 1 : Typical Directional Drilling Rig





Section A - A

Project Management Initials:
Designer: JC
Checked: GC
Approved: DB

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PROJECT

Indicative Cashla Peaker Plant 220kV Grid Connection and Substation - EIAR Drawings

CLIENT

Bord Gáis Energy

CONSULTANTS

AtkinsRéalis

NOTES: -

- See Notes

LEGEND: -

- Proposed 220 kV UGC Grid Connection Route (8.1km)
- Indicative Substation Layout and Grid Connection Route Corridor
- Existing ESB Network OHL
- Existing Eir Network UGC
- Existing Irish Water

ISSUE/REVISION

P3	03.02.26	Issued for Information
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N1	03.06.25	Issued for Information
I/R	DATE	DESCRIPTION

PROJECT NUMBER

300-101269

SHEET TITLE

M17 HDD Crossing 1

SHEET NUMBER

300101269-DR-140