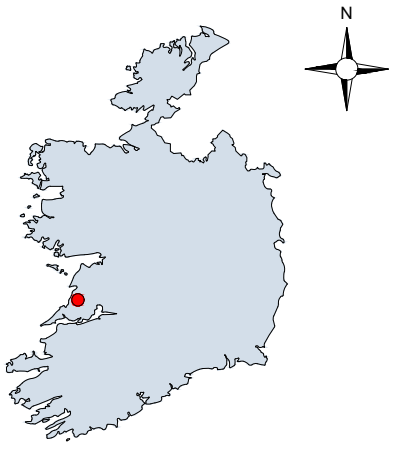
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Drawing Legend

- Planning Application Boundary
- Cahermurphy West Wind Farm Application Boundary



SITE LOCATION - N.T.S

PROJECT TITLE:
Cahermurphy West 110kV Grid Connection Application

DRAWING TITLE:
Location Context Map

PROJECT No.:	DRAWING No.:	SCALE:
230843	230843 - 01	1:50,000 @ A3
DRAWN BY: JOB/FB / CHECKED BY: MC	DATE: 18.03.2026	REVISION.: P01
OS SHEET No.: OS1014, OS1016		

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Drawing Legend

- Planning Application Boundary
- Cahermurphy West Wind Farm Application Boundary
- Landowners Boundary
- Site Notice
- Wayleave

N

PROJECT TITLE:
Cahermurphy West 110kV Grid Connection Application

DRAWING TITLE:
Site Notice Location Map

PROJECT No.:	DRAWING No.:	SCALE:
230843	230843 - 02	1:25,000 @ A1

DRAWN BY:	CHECKED BY:	DATE:	REVISION.:
JOB/FB	MC	19.03.2026	P01

OS SHEET No.: 4430, 4431, 4432, 4489, 4490, 4491, 4549, 4550, 4551, 4608, 4609, 4610, 4668, 4669, 4670, 4729, 4730, 4731, 4789, 4790, 4791

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Drawing Legend

- Planning Application Boundary
- Cahermurphy West Wind Farm Application Boundary
- Landowners Boundary
- X — Site Notice
- Wayleave

CAHERMURPHY

AHERMURPHY

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N

PROJECT TITLE:
Cahermurphy West 110kV Grid Connection Application

DRAWING TITLE:
Site Notice Location Map Sheet A

PROJECT No.:	DRAWING No.:	SCALE:
230843	230843 - 02a	1:2,500 @ A1

DRAWN BY:	CHECKED BY:	DATE:	REVISION.:
JOB/FB	MC	19.03.2026	P01

OS SHEET No.: 4430, 4431, 4432, 4489, 4490, 4491, 4549, 4550, 4551, 4608, 4609, 4610, 4668, 4669, 4670, 4729, 4730, 4731, 4789, 4790, 4791

Email: info@www.mkoireland.ie /Website: www.mkoireland.ie

CLOONWHITE NORTH

CAHERMURPHY

CAHERMURPHY

CLOONWHITE SOUTH

CLOONWHITE SOUTH

CLOONWHITE SOUTH

CLOONWHITE SOUTH

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Drawing Legend

- Planning Application Boundary
- Landowners Boundary
- X Site Notice
- Wayleave

N

PROJECT TITLE:
Cahermurphy West 110kV Grid Connection Application

DRAWING TITLE:
Site Notice Location Map Sheet B

PROJECT No.:	DRAWING No.:	SCALE:
230843	230843 - 02b	1:2,500 @ A1

DRAWN BY:	CHECKED BY:	DATE:	REVISION.:
JOB/FB	MC	12.03.2026	P01

OS SHEET No.: 4430, 4431, 4432, 4489, 4490, 4491, 4549, 4550, 4551, 4608, 4609, 4610, 4668, 4669, 4670, 4729, 4730, 4731, 4789, 4790, 4791

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Drawing Legend

- Planning Application Boundary
- Site Notice
- Wayleave

N

PROJECT TITLE:
Cahermurphy West 110kV Grid Connection Application

DRAWING TITLE:
Site Notice Location Map Sheet C

PROJECT No.:	DRAWING No.:	SCALE:
230843	230843 - 02c	1:2,500 @ A1

DRAWN BY:	CHECKED BY:	DATE:	REVISION.:
JOB/FB	MC	12.03.2026	P01

OS SHEET No.: 4430, 4431, 4432, 4489, 4490, 4491, 4549, 4550, 4551, 4608, 4609, 4610, 4668, 4669, 4670, 4729, 4730, 4731, 4789, 4790, 4791

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Drawing Legend

- Planning Application Boundary
- Site Notice
- Wayleave

N

PROJECT TITLE:
Cahermurphy West 110kV Grid Connection Application

DRAWING TITLE:
Site Notice Location Map Sheet D

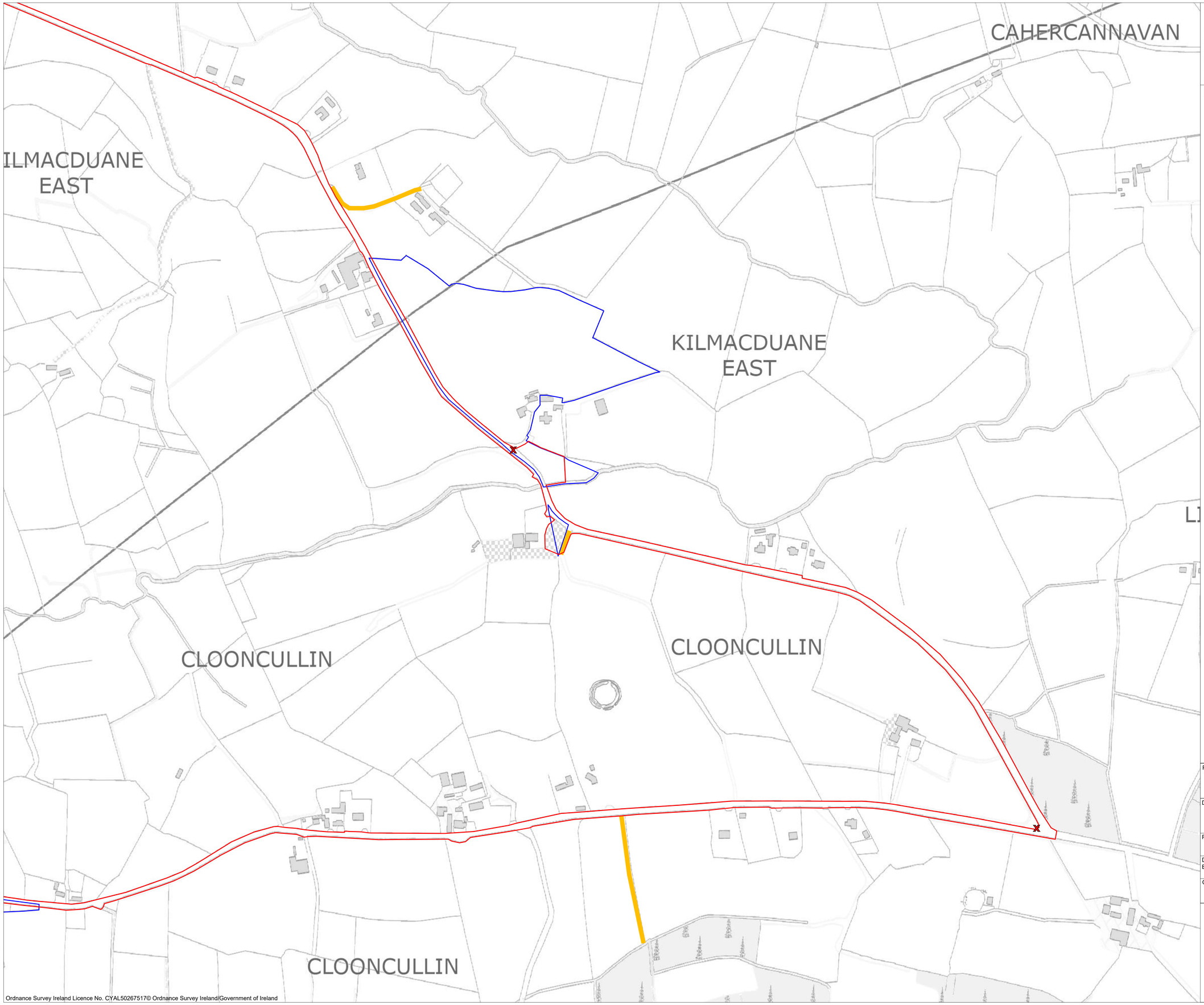
PROJECT No.:	DRAWING No.:	SCALE:
230843	230843 - 02d	1:2,500 @ A1

DRAWN BY:	CHECKED BY:	DATE:	REVISION.:
JOB/FB	MC	12.03.2026	P01

OS SHEET No.: 4430, 4431, 4432, 4489, 4490, 4491, 4549, 4550, 4551, 4608, 4609, 4610, 4668, 4669, 4670, 4729, 4730, 4731, 4789, 4790, 4791

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Drawing Legend

- Planning Application Boundary
- Landowners Boundary
- Site Notice
- Wayleave

N

PROJECT TITLE:
Cahermurphy West 110kV Grid Connection Application

DRAWING TITLE:
Site Notice Location Map Sheet E

PROJECT No.:	DRAWING No.:	SCALE:
230843	230843 - 02e	1:2,500 @ A1

DRAWN BY:	CHECKED BY:	DATE:	REVISION.:
JOB/FB	MC	12.03.2026	P01

OS SHEET No.: 4430, 4431, 4432, 4489, 4490, 4491, 4549, 4550, 4551, 4608, 4609, 4610, 4668, 4669, 4670, 4729, 4730, 4731, 4789, 4790, 4791

Email: info@www.mkoireland.ie /Website: www.mkoireland.ie

TEERNAGLOGHANE

TEERNAGLOGHANE

CLOONCULLIN

RISLA EAST

BRISLA EAST

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Drawing Legend

- Planning Application Boundary
- Landowners Boundary
- Site Notice
- Wayleave

N

PROJECT TITLE:
Cahermurphy West 110kV Grid Connection Application

DRAWING TITLE:
Site Notice Location Map Sheet F

PROJECT No.:	DRAWING No.:	SCALE:
230843	230843 - 02f	1:2,500 @ A1

DRAWN BY:	CHECKED BY:	DATE:	REVISION.:
JOB/FB	MC	12.03.2026	P01

OS SHEET No.: 4430, 4431, 4432, 4489, 4490, 4491, 4549, 4550, 4551, 4608, 4609, 4610, 4668, 4669, 4670, 4729, 4730, 4731, 4789, 4790, 4791

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Drawing Legend

- Planning Application Boundary
- Site Notice
- Wayleave

BRISLA EA

BRISLA WEST

BRISLA WEST

BRISLA EAST

GOWERHASS

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N

PROJECT TITLE:
Cahermurphy West 110kV Grid Connection Application

DRAWING TITLE:
Site Notice Location Map Sheet G

PROJECT No.:	DRAWING No.:	SCALE:
230843	230843 - 02g	1:2,500 @ A1

DRAWN BY:	CHECKED BY:	DATE:	REVISION.:
JOB/FB	MC	12.03.2026	P01

OS SHEET No.: 4430, 4431, 4432, 4489, 4490, 4491, 4549, 4550, 4551, 4608, 4609, 4610, 4668, 4669, 4670, 4729, 4730, 4731, 4789, 4790, 4791

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Drawing Legend

- Planning Application Boundary
- Site Notice
- Wayleave

N

PROJECT TITLE:	**Cahermurphy West 110kV Grid Connection Application**
DRAWING TITLE:	**Site Notice Location Map Sheet H**

PROJECT No.:	DRAWING No.:	SCALE:
230843	**230843 - 02h**	**1:2,500 @ A1**

DRAWN BY:	CHECKED BY:	DATE:	REVISION.:
JOB/FB	**MC**	**12.03.2026**	P01

OS SHEET No.: 4430, 4431, 4432, 4489, 4490, 4491, 4549, 4550, 4551, 4608, 4609, 4610, 4668, 4669, 4670, 4729, 4730, 4731, 4789, 4790, 4791

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Drawing Legend

- Planning Application Boundary
- Site Notice
- Wayleave

N

PROJECT TITLE:
Cahermurphy West 110kV Grid Connection Application

DRAWING TITLE:
Site Notice Location Map Sheet I

PROJECT No.:	DRAWING No.:	SCALE:
230843	230843 - 02i	1:2,500 @ A1

DRAWN BY:	CHECKED BY:	DATE:	REVISION.:
JOB/FB	MC	12.03.2026	P01

OS SHEET No.: 4430, 4431, 4432, 4489, 4490, 4491, 4549, 4550, 4551, 4608, 4609, 4610, 4668, 4669, 4670, 4729, 4730, 4731, 4789, 4790, 4791

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Drawing Legend

Planning Application Boundary

Site Notice

N

PROJECT TITLE:
Cahermurphy West 110kV Grid Connection Application

DRAWING TITLE:
Site Notice Location Map Sheet J

PROJECT No.:	DRAWING No.:	SCALE:
230843	230843 - 02j	1:2,500 @ A1

DRAWN BY:	CHECKED BY:	DATE:	REVISION.:
JOB/FB	MC	12.03.2026	P01

OS SHEET No.: 4430, 4431, 4432, 4489, 4490, 4491, 4549, 4550, 4551, 4608, 4609, 4610, 4668, 4669, 4670, 4729, 4730, 4731, 4789, 4790, 4791

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Drawing Legend

Planning Application Boundary

Site Notice

N

PROJECT TITLE:	**Cahermurphy West 110kV Grid Connection Application**
DRAWING TITLE:	**Site Notice Location Map Sheet K**

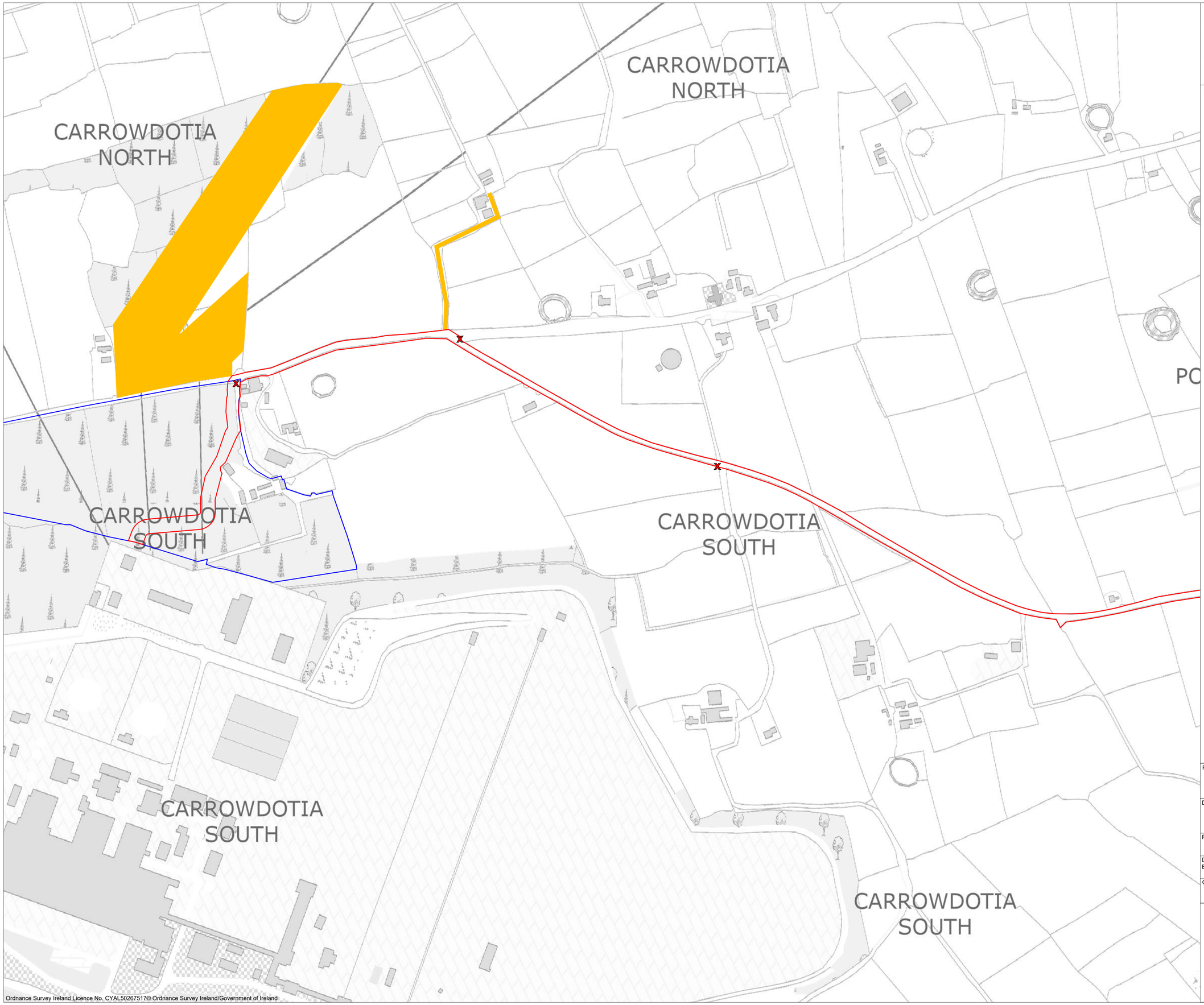
PROJECT No.:	DRAWING No.:	SCALE:
230843	**230843 - 02k**	**1:2,500 @ A1**

DRAWN BY:	CHECKED BY:	DATE:	REVISION.:
JOB/FB	**MC**	**20.03.2026**	P01

OS SHEET No.: 4430, 4431, 4432, 4489, 4490, 4491, 4549, 4550, 4551, 4608, 4609, 4610, 4668, 4669, 4670, 4729, 4730, 4731, 4789, 4790, 4791

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Drawing Legend

- Planning Application Boundary
- Landowners Boundary
- X — Site Notice
- Wayleave

N

PROJECT TITLE:
Cahermurphy West 110kV Grid Connection Application

DRAWING TITLE:
Site Notice Location Map Sheet L

PROJECT No.:	DRAWING No.:	SCALE:
230843	230843 - 02I	1:2,500 @ A1

DRAWN BY:	CHECKED BY:	DATE:	REVISION.:
JOB/FB	MC	12.03.2026	P01

OS SHEET No.: 4430, 4431, 4432, 4489, 4490, 4491, 4549, 4550, 4551, 4608, 4609, 4610, 4668, 4669, 4670, 4729, 4730, 4731, 4789, 4790, 4791

Email: info@www.mkoireland.ie /Website: www.mkoireland.ie

Project Management Initials: Designer: DMB Checked: DB Approved: RG

Proposed Cahermurphy West 110kV Substation

05935-DR-212
Joint Bay 36
Joint Bay 35
05935-DR-211
Joint Bay 34
Joint Bay 33
Joint Bay 32
05935-DR-210
Joint Bay 31
Joint Bay 30
05935-DR-209
Joint Bay 29
Joint Bay 28
Joint Bay 27
Joint Bay 26
Joint Bay 25
05935-DR-208
Joint Bay 24
Joint Bay 23
Joint Bay 22
05935-DR-207
Joint Bay 21
Joint Bay 20
Joint Bay 19
05935-DR-206
Joint Bay 18
Joint Bay 17
05935-DR-205
Joint Bay 16
Joint Bay15
Joint Bay 14
Joint Bay 13
05935-DR-204
Joint Bay 12
Joint Bay 11
Joint Bay 10
05935-DR-203
Joint Bay 09
05935-DR-202
Joint Bay 07
Joint Bay 06
Joint Bay 05
Joint Bay 04
Joint Bay 03
Joint Bay 02
Joint Bay 01
05935-DR-201
Moneypoint 400kV Substation

LEGEND: -

- Existing Moneypoint 400kV Substation Location
- Proposed Cahermurphy West 110kV Substation Location
- Grid Connection Underground Cable Route - Approx 25.005km (KV — KV)
- Red Line Planning Boundary

Grid connection Underground cable route will traverse the following townlands:
Carrowdotia South,
Carrowdotia North,
Poulnadarree,
Doonnagurroge,
Dunneill,
Derrylough,
Knockerry West,
Garraunnatooha,
Tullagower,
Gowerhass,
Brisla West,
Brisla East,
Ternagloghane,
Clooncullin,
Lissanair,
Kilmacduane East,
Clooneddan
Leitrim,
Sheeaun
Cloonwhite South,
Cahermurphy

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.
- Contours derived from DTM elevations referenced to Malin Head Vertical Datum

tli GROUP

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RG24 8UP, UK
Tel: 00 44 1256406664

PROJECT

Cahermurphy West Wind Farm 110kV Grid Connection

CLIENT

Ireland FuturEnergy

CONSULTANTS

MKO

Map Series:
Prime Data Vector

TÉ Sheet Reference Number:
4430, , 4431, 4432, 4489, 4490, 4491, 4549, 4550, 4551, 4608, 4609, 4610, 4668, 4669, 4670, 4729, 4730, 4731, 4789, 4790, 4791

ITM Center Point Co-Ordinates:
X,Y = 507095.7730, 661543.0274

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Grid connection Underground cable route will traverse the following townlands:
Carrowdotia South,
Carrowdotia North,
Poulnadarree,
Doonnagurroge,
Dunneill,
Derrylough,
Knockerry West,
Garraunnatooha,
Tullagower,
Gowerhass,
Brisla West,
Brisla East,
Ternagloghane,
Clooncullin,
Lissanair,
Kilmacduane East,
Clooneddan
Leitrim,
Sheeaun
Cloonwhite South,
Cahermurphy

1:25000
500m 0 500m 1000m 1500m 2000m 2500m

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P3	13.03.26	Issued for Planning
P2	5.03.26	Issued for Planning
P1	12.12.25	Issued for Planning
N3	03.11.25	Issued for Information
N2	03.10.25	Issued for Information
N1	15.08.25	Issued for Information

PROJECT NUMBER

05-935

SHEET TITLE

Site Layout Keyplan

SHEET NUMBER

05935-DR-200

Site Layout Keyplan

Scale : 1:25000

ISO A1 594mm x 841mm

ISO A1 594mm x 841mm

Map Series:
Prime Data Vector

OSI Sheet Reference Number:
4430, , 4431, 4432, 4489, 4490, 4491, 4549, 4550, 4551, 4608, 4609, 4610, 4668, 4669, 4670, 4729, 4730, 4731, 4789, 4790, 4791

ITM Center Point Co-Ordinates:
X,Y = 507095.7730, 661543.0274

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N

N-67

L-6154

Existing MV OHL

Existing LV OHL

Joint Bay 01
Comms Chamber
Earth Link Box

Joint Bay 02
Comms Chamber
Earth Link Box

Joint Bay 03
Comms Chamber
Earth Link Box

CE28033

CE28033

300 m
400 m
500 m
600 m
700 m
800 m
900 m
1000 m
1100 m
1200 m
1300 m
1400 m
1500 m
200 m
100 m
90 m

Moneypoint 110kV GIS Building Location

MATCHLINE

REF TO 05935-DR-202

1:2500

50m 0 50m 100m 150m 200m 250m

Site Layout Plan - Sheet 1 of 12

Scale : 1:2500

Project Management Initials:
Designer: DMB
Checked: DB
Approved: RG

tli GROUP

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Hampshire,
RG24 8UP, UK
Tel: 00 44 1256406664

PROJECT

Cahermurphy West
Wind Farm 110kV
Grid Connection

CLIENT

Ireland
FuturEnergy

CONSULTANTS

MKO

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.

LEGEND: -

- Existing Moneypoint 400kV Substation Location
- Red Line Planning Boundary
- Existing ESB OHL HV Network
- Existing ESB OHL LV/MV Networks
- Optioned Landownership Boundary shown thus
- Existing River Network shown thus
- Recorded Monuments & Associated Zone of Notifications shown thus
- Recorded Architectural Heritage Building (Listed Building) shown thus
- Access Track shown thus
- Irish Water Infrastructure shown thus

ISSUE/REVISION

P1	12.12.25	Issued for Planning
N3	03.11.25	Issued for Information
N2	03.10.25	Issued for Information
N1	15.08.25	Issued for Information
I/R	DATE	DESCRIPTION

PROJECT NUMBER

05-935

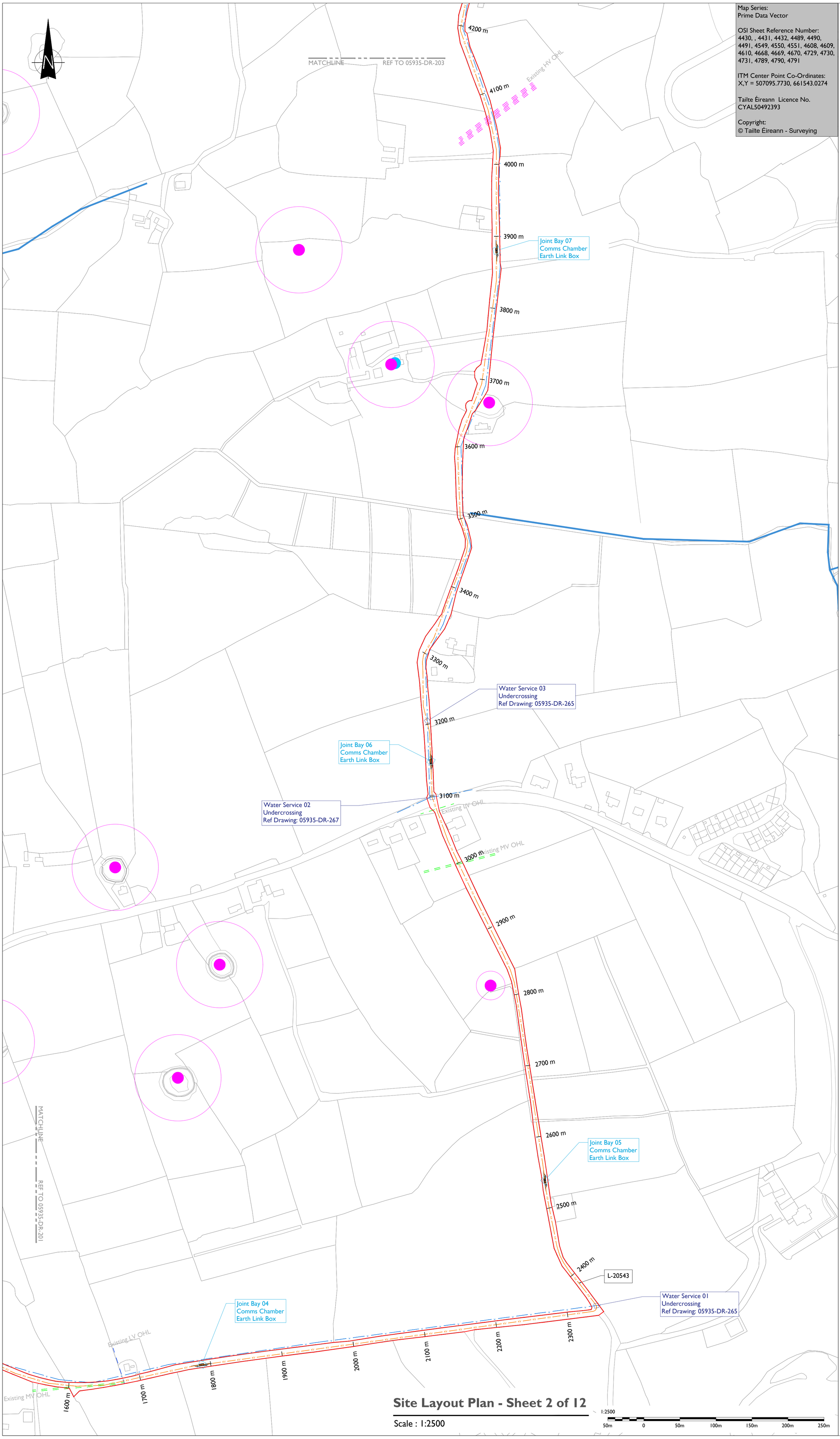
SHEET TITLE

Site Layout Plan -
Sheet 1 of 12

SHEET NUMBER

05935-DR-201

Project Management Initials: Designer: DMB Checked: DB Approved: RG



Map Series:
Prime Data Vector

OSI Sheet Reference Number:
4430, , 4431, 4432, 4489, 4490, 4491, 4549, 4550, 4551, 4608, 4609, 4610, 4668, 4669, 4670, 4729, 4730, 4731, 4789, 4790, 4791

ITM Center Point Co-Ordinates:
X,Y = 507095.7730, 661543.0274

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LEGEND: -

- Grid Connection Underground Cable Route - Approx 25.005km
- Red Line Planning Boundary
- Existing ESB OHL HV Network
- Existing ESB OHL LV/MV Networks
- Existing River Network shown thus
- Recorded Monuments & Associated Zone of Notifications shown thus
- Recorded Architectural Heritage Building (Listed Building) shown thus
- Irish Water Infrastructure shown thus

NOTES: -

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Tel: 00 44 1256406664

PROJECT

Cahermurphy West Wind Farm 110kV Grid Connection

CLIENT

FuturEnergy Ireland

CONSULTANTS

MKO

ISSUE/REVISION

P1	12.12.25	Issued for Planning
N3	03.11.25	Issued for Information
N2	03.10.25	Issued for Information
N1	15.08.25	Issued for Information
I/R	DATE	DESCRIPTION

PROJECT NUMBER

05-935

SHEET TITLE

Site Layout Plan - Sheet 2 of 12

SHEET NUMBER

05935-DR-202

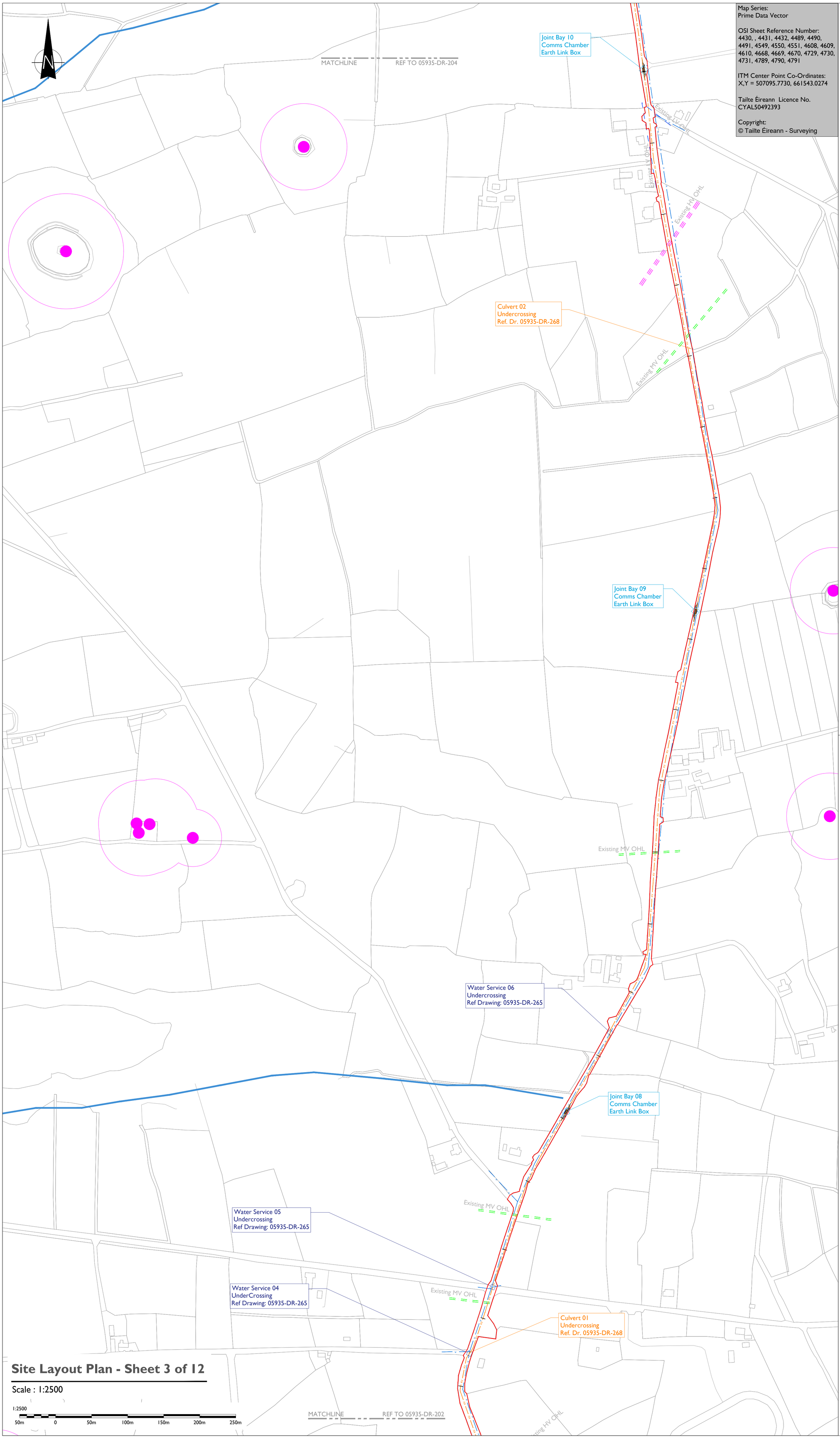
Site Layout Plan - Sheet 2 of 12

Scale : 1:2500

1:2500
50m 0 50m 100m 150m 200m 250m

ISO A1 594mm x 841mm

Project Management Initials: Designer: DMB Checked: DB Approved: RG



Map Series:
Prime Data Vector

OSI Sheet Reference Number:
4430, , 4431, 4432, 4489, 4490, 4491, 4549, 4550, 4551, 4608, 4609, 4610, 4668, 4669, 4670, 4729, 4730, 4731, 4789, 4790, 4791

ITM Center Point Co-Ordinates:
X,Y = 507095.7730, 661543.0274

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LEGEND: -

- Grid Connection Underground Cable Route - Approx 25.005km
- Red Line Planning Boundary
- Existing ESB OHL HV Network
- Existing ESB OHL LV/MV Networks
- Existing River Network shown thus
- Recorded Monuments & Associated Zone of Notifications shown thus
- Irish Water Infrastructure shown thus

NOTES: -

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Site Layout Plan - Sheet 3 of 12

Scale : 1:2500

1:2500
50m 0 50m 100m 150m 200m 250m

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PROJECT

Cahermurphy West
Wind Farm 110kV
Grid Connection

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P1	12.12.25	Issued for Planning
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N2	03.10.25	Issued for Information
N1	15.08.25	Issued for Information
I/R	DATE	DESCRIPTION

PROJECT NUMBER

05-935

SHEET TITLE

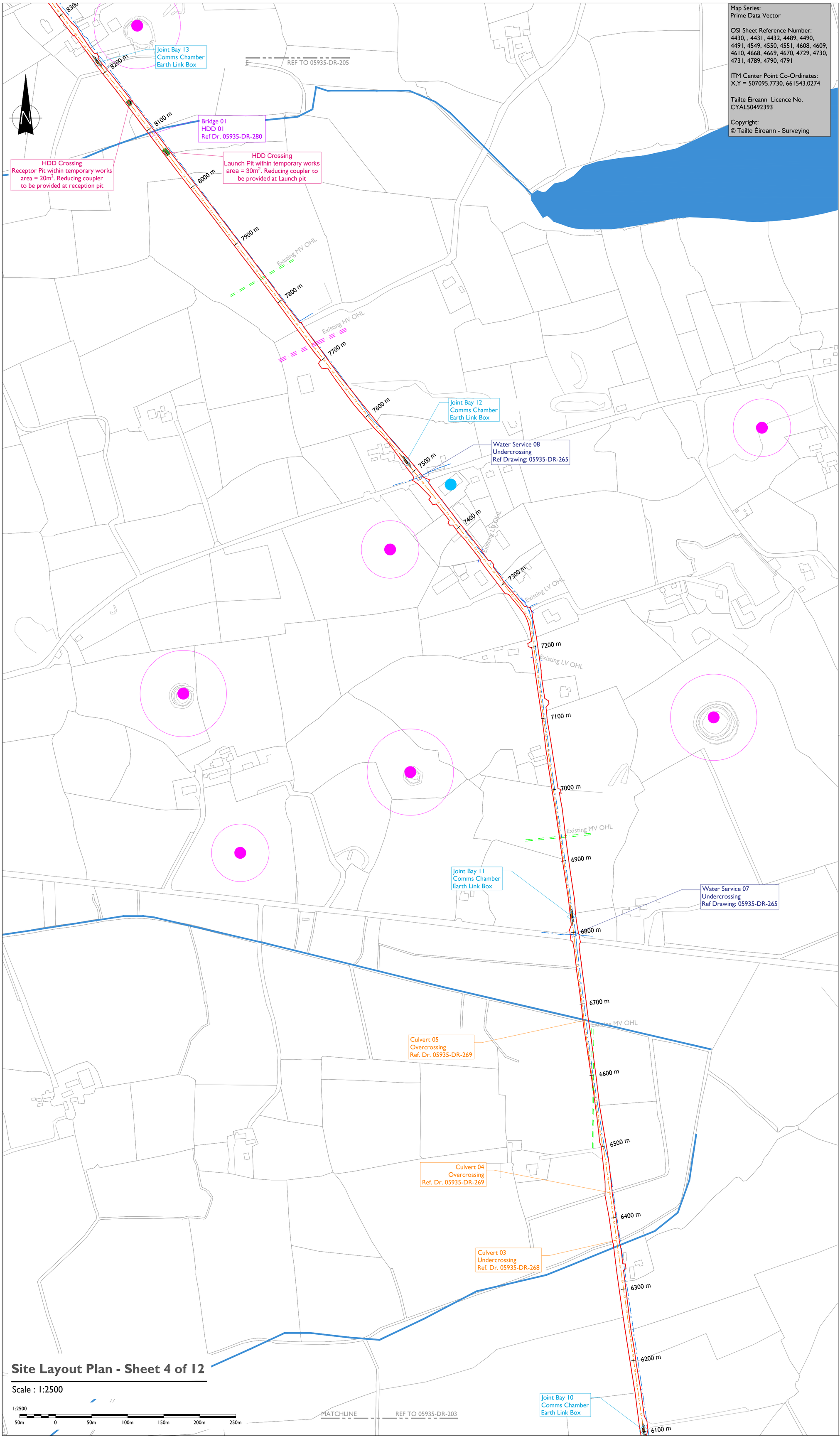
Site Layout Plan -
Sheet 3 of 12

SHEET NUMBER

05935-DR-203

ISO A1 594mm x 841mm

Project Management Initials: Designer: DMB Checked: DB Approved: RG



Map Series:
Prime Data Vector

OSI Sheet Reference Number:
4430, , 4431, 4432, 4489, 4490, 4491, 4549, 4550, 4551, 4608, 4609, 4610, 4668, 4669, 4670, 4729, 4730, 4731, 4789, 4790, 4791

ITM Center Point Co-Ordinates:
X,Y = 507095.7730, 661543.0274

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LEGEND: -

- Grid Connection Underground Cable Route - Approx 25.005km
- Red Line Planning Boundary
- Existing ESB OHL HV Network
- Existing ESB OHL LV/MV Networks
- Existing River Network shown thus
- Recorded Monuments & Associated Zone of Notifications shown thus
- Recorded Architectural Heritage Building (Listed Building) shown thus
- Irish Water Infrastructure shown thus

NOTES: -

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PROJECT

Cahermurphy West Wind Farm 110kV Grid Connection

CLIENT

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P1	12.12.25	Issued for Planning
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N1	15.08.25	Issued for Information

PROJECT NUMBER

05-935

SHEET TITLE

Site Layout Plan - Sheet 4 of 12

SHEET NUMBER

05935-DR-204

Site Layout Plan - Sheet 4 of 12

Scale : 1:2500

ISO A1 594mm x 841mm

Project Management Initials: Designer: DMB Checked: DB Approved: RG

MATCHLINE REF TO 05935-DR-206

10300 m
10200 m
10100 m
10000 m
9900 m
9800 m
9700 m
9600 m
9500 m
9400 m
9300 m
9200 m
9100 m
9000 m
8900 m
8800 m
8700 m
8600 m
8500 m
8400 m
8300 m
8200 m

Culvert 08
HDD 04
Ref. Dr. 05935-DR-283

HDD Crossing
Launch Pit within temporary works area = 30m^2. Reducing coupler to be provided at Launch pit

HDD Crossing
Receptor Pit within temporary works area = 20m^2. Reducing coupler to be provided at reception pit

Joint Bay 15
Comms Chamber
Earth Link Box

Joint Bay 14
Comms Chamber
Earth Link Box

Culvert 07
Undercrossing
Ref. Dr. 05935-DR-270

HDD Crossing
Receptor Pit within temporary works area = 20m^2. Reducing coupler to be provided at reception pit

Water Service 09
Undercrossing
Ref Drawing: 05935-DR-267

HDD Crossing
Launch Pit within temporary works area = 30m^2. Reducing coupler to be provided at Launch pit

Existing MV OHL

HDD Crossing
Receptor Pit within temporary works area = 20m^2. Reducing coupler to be provided at reception pit

HDD Crossing
Launch Pit within temporary works area = 30m^2. Reducing coupler to be provided at Launch pit

Culvert 06
HDD 02
Ref. Dr. 05935-DR-281

Joint Bay 13
Comms Chamber
Earth Link Box

E REF TO 05935-DR 204

Site Layout Plan - Sheet 5 of 12

Scale : 1:2500

1:2500
50m 0 50m 100m 150m 200m 250m

Map Series:
Prime Data Vector

OSI Sheet Reference Number:
4430, , 4431, 4432, 4489, 4490, 4491, 4549, 4550, 4551, 4608, 4609, 4610, 4668, 4669, 4670, 4729, 4730, 4731, 4789, 4790, 4791

ITM Center Point Co-Ordinates:
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LEGEND: -

- Grid Connection Underground Cable Route - Approx 25.005km (KV KV)
- Red Line Planning Boundary
- Existing ESB OHL LV/MV Networks
- Existing River Network shown thus
- Recorded Monuments & Associated Zone of Notifications shown thus
- Irish Water Infrastructure shown thus

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PROJECT

Cahermurphy West
Wind Farm 110kV
Grid Connection

CLIENT

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PROJECT NUMBER

05-935

SHEET TITLE

Site Layout Plan -
Sheet 5 of 12

SHEET NUMBER

05935-DR-205

ISO A1 594mm x 841mm

Project Management Initials: Designer: DMB Checked: DB Approved: RG

Map Series:
Prime Data Vector

OSI Sheet Reference Number:
4430, , 4431, 4432, 4489, 4490, 4491, 4549, 4550, 4551, 4608, 4609, 4610, 4668, 4669, 4670, 4729, 4730, 4731, 4789, 4790, 4791

ITM Center Point Co-Ordinates:
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LEGEND: -

- Grid Connection Underground Cable Route - Approx 25.005km
- Red Line Planning Boundary
- Existing ESB OHL LV/MV Networks
- Existing River Network shown thus
- Recorded Monuments & Associated Zone of Notifications shown thus
- Irish Water Infrastructure shown thus

MATCHLINE REF TO 05935-DR-207

Joint Bay 18
Comms Chamber
Earth Link Box

Culvert 11
Undercrossing
Ref. Dr. 05935-DR-268

Water Service 10
UnderCrossing
Ref Drawing: 05935-DR-265

12000 m
11900 m
11800 m
11700 m
11600 m
11500 m
11400 m
11300 m
11200 m
11100 m
11000 m
10900 m
10800 m
10700 m
10600 m
10500 m
10400 m
10300 m

Existing MV OHL
Existing MV OHL

Joint Bay 17
Comms Chamber
Earth Link Box

Culvert 10
Overcrossing
Ref. Dr. 05935-DR-269

Culvert 09
Undercrossing
Ref. Dr. 05935-DR-268

Joint Bay 16
Comms Chamber
Earth Link Box

Existing MV OHL

MATCHLINE REF TO 05935-DR-205

Site Layout Plan - Sheet 6 of 12

Scale : 1:2500

1:2500
50m 0 50m 100m 150m 200m 250m

NOTES: -

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PROJECT

Cahermurphy West
Wind Farm 110kV
Grid Connection

CLIENT

Ireland FuturEnergy

CONSULTANTS

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N1	15.08.25	Issued for Information
I/R	DATE	DESCRIPTION

PROJECT NUMBER

05-935

SHEET TITLE

Site Layout Plan -
Sheet 6 of 12

SHEET NUMBER

05935-DR-206

ISO A1 594mm x 841mm

Project Management Initials: Designer: DMB Checked: DB Approved: RG

Map Series:
Prime Data Vector

OSI Sheet Reference Number:
4430, , 4431, 4432, 4489, 4490, 4491, 4549, 4550, 4551, 4608, 4609, 4610, 4668, 4669, 4670, 4729, 4730, 4731, 4789, 4790, 4791

ITM Center Point Co-Ordinates:
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MATCHLINE REF TO 05935-DR-210

19600 m
19500 m
19400 m
19300 m
19200 m
19100 m
19000 m
18900 m
18800 m
18700 m
18600 m
18500 m
18400 m
18300 m
18200 m
18100 m
18000 m
17900 m
17800 m
17700 m
17600 m
17500 m
17400 m
17300 m
17200 m
17100 m
17000 m
16900 m
16800 m
16700 m

Joint Bay 28
Comms Chamber
Earth Link Box

Water Service 22
Undercrossing
Ref Drawing: 05935-DR-267

Existing MV OHL

Existing LV OHL

Water Service 21
Undercrossing
Ref Drawing: 05935-DR-267

Water Service 20
Undercrossing
Ref Drawing: 05935-DR-267

Water Service 19
Undercrossing
Ref Drawing: 05935-DR-267

HDD Crossing
Receptor Pit within temporary works area = 20m². Reducing coupler to be provided at reception pit

Joint Bay 27
Comms Chamber
Earth Link Box

Bridge 05
HDD 09
Ref Dr. 05935-DR-288

HDD Crossing
Launch Pit within temporary works area = 30m². Reducing coupler to be provided at Launch pit

Water Service 18
Undercrossing
Ref Drawing: 05935-DR-265

Water Service 17
Undercrossing
Ref Drawing: 05935-DR-265

Bridge 04
HDD 08
Ref Dr. 05935-DR-287

HDD Crossing
Receptor Pit within temporary works area = 20m². Reducing coupler to be provided at reception pit

Existing LV OHL

HDD Crossing
Launch Pit within temporary works area = 30m². Reducing coupler to be provided at Launch pit

Joint Bay 26
Comms Chamber
Earth Link Box

Water Service 16
Undercrossing
Ref Drawing: 05935-DR-265

MATCHLINE REF TO 05935-DR-208

Site Layout Plan - Sheet 9 of 12

Scale : 1:2500

1:2500
50m 0 50m 100m 150m 200m 250m

LEGEND: -

- Grid Connection Underground Cable Route - Approx 25.005km
- Red Line Planning Boundary
- Existing ESB OHL LV/MV Networks
- Existing River Network shown thus
- Recorded Monuments & Associated Zone of Notifications shown thus
- Irish Water Infrastructure shown thus

NOTES: -

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PROJECT

Cahermurphy West Wind Farm 110kV Grid Connection

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P1	12.12.25	Issued for Planning
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N1	15.08.25	Issued for Information
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PROJECT NUMBER

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SHEET TITLE

Site Layout Plan - Sheet 9 of 12

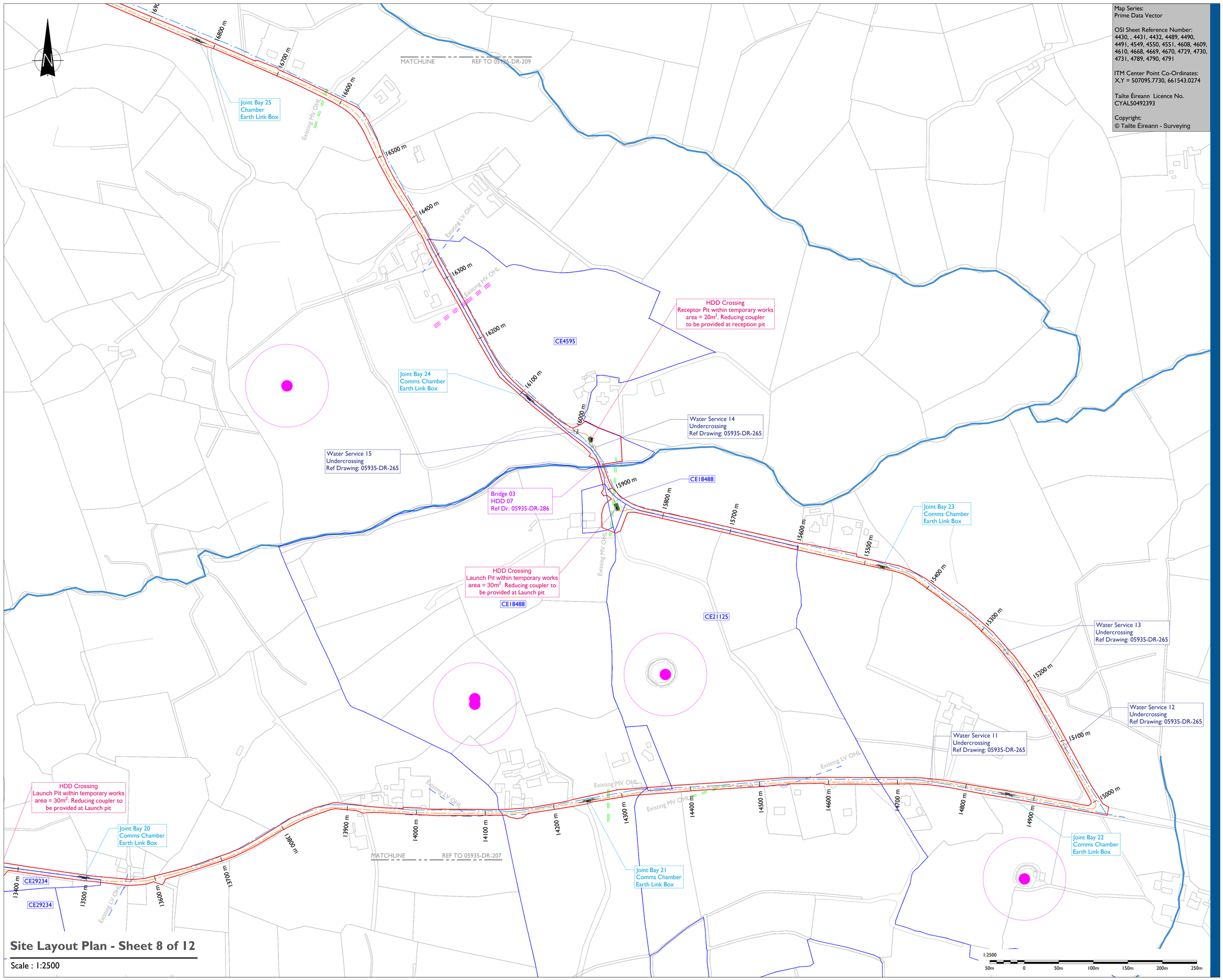
SHEET NUMBER

05935-DR-209

ISO A1 594mm x 841mm

ISO A1 594mm x 841mm

Project Management Initials: | Designer: DMB | Checked: DB | Approved: RG



Site Layout Plan - Sheet 8 of 12

Scale : 1:2500

Map Series:
Prime Data Vector

OSI Sheet Reference Number:
4430, , 4431, 4432, 4489, 4490, 4491, 4549, 4550, 4551, 4608, 4609, 4610, 4668, 4669, 4670, 4729, 4730, 4731, 4789, 4790, 4791

ITM Center Point Co-Ordinates:
X,Y = 507095.7730, 661543.0274

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PROJECT

Cahermurphy West
Wind Farm 110kV
Grid Connection

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LEGEND: -

- Grid Connection Underground Cable Route - Approx 25.005km
- Red Line Planning Boundary
- Existing ESB OHL HV Network
- Existing ESB OHL LV/MV Networks
- Optioned Landownership Boundary shown thus
- Existing River Network shown thus
- Recorded Monuments & Associated Zone of Notifications shown thus
- Irish Water Infrastructure shown thus

ISSUE/REVISION

P1	12.12.25	Issued for Planning
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I/R	DATE	DESCRIPTION

PROJECT NUMBER

05-935

SHEET TITLE

Site Layout Plan -
Sheet 8 of 12

SHEET NUMBER

05935-DR-208

ISO A1 594mm x 841mm

Map Series:
Prime Data Vector

OSI Sheet Reference Number:
4430, , 4431, 4432, 4489, 4490, 4491, 4549, 4550, 4551, 4608, 4609, 4610, 4668, 4669, 4670, 4729, 4730, 4731, 4789, 4790, 4791

ITM Center Point Co-Ordinates:
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CE29234

HDD Crossing
Receptor Pit within temporary works area = 20m². Reducing coupler to be provided at reception pit

HDD Crossing
Launch Pit within temporary works area = 30m². Reducing coupler to be provided at Launch pit

Joint Bay 20
Comms Chamber
Earth Link Box

Existing LV OHL

Existing MV OHL

13200 m
13300 m
13400 m
13500 m
13600 m
13700 m
13800 m
13900 m
14000 m
14100 m
14200 m
14300 m
14400 m

MATCHLINE
REF TO 05935-DR-208

Joint Bay 21
Comms Chamber
Earth Link Box

HDD Crossing
Receptor Pit within temporary works area = 20m². Reducing coupler to be provided at reception pit

Culvert 12
HDD 05
Ref. Dr. 05935-DR-284

13100 m
13000 m
12900 m

Bridge 02
HDD 06
Ref Dr. 05935-DR-285

Joint Bay 19
Comms Chamber
Earth Link Box

12800 m

HDD Crossing
Launch Pit within temporary works area = 30m². Reducing coupler to be provided at Launch pit

12700 m
12600 m
12500 m
12400 m
12300 m
12200 m
12100 m
12000 m

MATCHLINE
REF TO 05935-DR-206

Site Layout Plan - Sheet 7 of 12

Scale : 1:2500

1:2500
50m 0 50m 100m 150m 200m 250m

Project Management Initials:
Designer: DMB
Checked: DB
Approved: RG

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PROJECT

Cahermurphy West
Wind Farm 110kV
Grid Connection

CLIENT

FuturEnergy Ireland

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LEGEND: -

Grid Connection Underground Cable Route - Approx 25.005km
Red Line Planning Boundary
Existing ESB OHL LV/MV Networks
Optioned Landownership Boundary shown thus
Existing River Network shown thus
Recorded Monuments & Associated Zone of Notifications shown thus
Irish Water Infrastructure shown thus

ISSUE/REVISION

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N1	15.08.25	Issued for Information

PROJECT NUMBER

05-935

SHEET TITLE

Site Layout Plan -
Sheet 7 of 12

SHEET NUMBER

05935-DR-207

ISO A1 594mm x 841mm

Map Series:
Prime Data Vector

OSI Sheet Reference Number:
4430, , 4431, 4432, 4489, 4490, 4491, 4549, 4550, 4551, 4608, 4609, 4610, 4668, 4669, 4670, 4729, 4730, 4731, 4789, 4790, 4791

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HDD Crossing
Launch Pit within temporary works area = 30m². Reducing coupler to be provided at Launch pit

MATCHLINE REF TO 05935-DR-211

Joint Bay 31
Comms Chamber
Earth Link Box

Water Service 26
Undercrossing
Ref Drawing: 05935-DR-265

Existing LV OHL

Existing MV OHL

Joint Bay 30
Comms Chamber
Earth Link Box

Water Service 25
Undercrossing
Ref Drawing: 05935-DR-265

Water Service 24
Undercrossing
Ref Drawing: 05935-DR-265

Water Service 23
Undercrossing
Ref Drawing: 05935-DR-265

Joint Bay 29
Comms Chamber
Earth Link Box

MATCHLINE REF TO 05935-DR-209

21300 m
21200 m
21100 m
21000 m
20900 m
20800 m
20700 m
20600 m
20500 m
20400 m
20300 m
20200 m
20100 m
20000 m
19900 m
19800 m
19700 m
19600 m

Site Layout Plan - Sheet 10 of 12

Scale : 1:2500

1:2500
50m 0 50m 100m 150m 200m 250m

Project Management Initials: Designer: DMB Checked: DB Approved: RG

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PROJECT

Cahermurphy West
Wind Farm 110kV
Grid Connection

CLIENT

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CONSULTANTS

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LEGEND: -

Grid Connection Underground Cable Route - Approx 25.005km

Red Line Planning Boundary

Existing ESB OHL LV/MV Networks

Recorded Monuments & Associated Zone of Notifications shown thus

Irish Water Infrastructure shown thus

ISSUE/REVISION

P1	12.12.25	Issued for Planning
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N2	03.10.25	Issued for Information
N1	15.08.25	Issued for Information
I/R	DATE	DESCRIPTION

PROJECT NUMBER

05-935

SHEET TITLE

Site Layout Plan -
Sheet 10 of 12

SHEET NUMBER

05935-DR-210

ISO A1 594mm x 841mm

Map Series:
Prime Data Vector

OSI Sheet Reference Number:
4430, , 4431, 4432, 4489, 4490, 4491, 4549, 4550, 4551, 4608, 4609, 4610, 4668, 4669, 4670, 4729, 4730, 4731, 4789, 4790, 4791

ITM Center Point Co-Ordinates:
X,Y = 507095.7730, 661543.0274

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MATCHLINE

REF TO 05935-DR-212

Water Service 31
Undercrossing
Ref Drawing: 05935-DR-265

Water Service 30
Undercrossing
Ref Drawing: 05935-DR-265

22700 m

22600 m

22500 m

22400 m

HDD Crossing
Receptor Pit within temporary works area = 20m². Reducing coupler to be provided at reception pit

Water Service 29
Undercrossing
Ref Drawing: 05935-DR-265

Bridge 06
HDD 11
Ref Dr. 05935-DR-290

Joint Bay 33
Comms Chamber
Earth Link Box

CE10781

22300 m

HDD Crossing
Launch Pit within temporary works area = 30m². Reducing coupler to be provided at Launch pit

22200 m

CE41336F

22100 m

22000 m

21900 m

Water Service 28
Undercrossing
Ref Drawing: 05935-DR-265

Culvert
14
Undercrossing
Ref.
Dr.
05935-DR-268

Existing MV OHL

21800 m

Joint Bay 32
Comms Chamber
Earth Link Box

21700 m

21600 m

Water Service 27
Undercrossing
Ref Drawing: 05935-DR-267

21500 m

Culvert
13
HDD
10
Ref.
Dr.
05935-DR-289

HDD Crossing
Receptor Pit within temporary works area = 20m². Reducing coupler to be provided at reception pit

21400 m

21300 m

HDD Crossing
Launch Pit within temporary works area = 30m². Reducing coupler to be provided at Launch pit

21200 m

MATCHLINE

REF TO 05935-DR-210

Site Layout Plan - Sheet 11 of 12

Scale : 1:2500

1:2500
50m 0 50m 100m 150m 200m 250m

Project Management Initials: Designer: DMB Checked: DB Approved: RG

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RG24 8UP, UK
Tel: 00 44 1256406664

PROJECT

Cahermurphy West Wind Farm 110kV Grid Connection

CLIENT

FuturEnergy Ireland

CONSULTANTS

MKO

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.

LEGEND: -

Grid Connection Underground Cable Route - Approx 25.005km

Red Line Planning Boundary

Existing ESB OHL MV Network

Optioned Landownership Boundary shown thus

Existing River Network shown thus

Recorded Monuments & Associated Zone of Notifications shown thus

Irish Water Infrastructure shown thus

ISSUE/REVISION

P1	12.12.25	Issued for Planning
N3	03.11.25	Issued for Information
N2	03.10.25	Issued for Information
N1	15.08.25	Issued for Information
I/R	DATE	DESCRIPTION

PROJECT NUMBER

05-935

SHEET TITLE

Site Location Plan -
Sheet 11 of 12

SHEET NUMBER

05935-DR-211

Project Management Initials: Designer: DMB Checked: DB Approved: RG

CE8665F
CE8666F
CE10770
CE10770
CE19397F

Cahermurphy West
110kV Substation

Culvert 18
Undercrossing
Ref. Dr. 05935-DR-270

HDD Crossing
Launch Pit within temporary works area = 30m². Reducing coupler to be provided at Launch pit

HDD Crossing
Receptor Pit within temporary works area = 20m². Reducing coupler to be provided at reception pit

Culvert 17
HDD 12
Ref. Dr. 05935-DR-291

Water Service 35
Undercrossing
Ref Drawing: 05935-DR-267

Joint Bay 36
Comms Chamber
Earth Link Box

Culvert 16
Undercrossing
Ref. Dr. 05935-DR-270

Joint Bay 35
Comms Chamber
Earth Link Box

Water Service 34
Undercrossing
Ref Drawing: 05935-DR-267

Culvert 15
Undercrossing
Ref. Dr. 05935-DR-268

Water Service 33
Undercrossing
Ref Drawing: 05935-DR-265

Water Service 32
Undercrossing
Ref Drawing: 05935-DR-265

Joint Bay 34
Comms Chamber
Earth Link Box

Cahermurphy

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

MATCHLINE — REF TO 05935-DR-211

24900 m
24800 m
24700 m
24600 m
24500 m
24400 m
24300 m
24200 m
24100 m
24000 m
23900 m
23800 m
23700 m
23600 m
23500 m
23400 m
23300 m
23200 m
23100 m
23000 m
22900 m
22800 m

137.395m
118.092m
114.412m
112.764m
108.961m
110.916m
105.598m
103.986m
101.664m
93.266m
89.285m
85.659m
84.018m
81.085m
77.218m
71.804m
66.913m
56.967m
55.025m
53.073m

LEGEND: -

- Grid Connection Underground Cable Route - Approx 25.005km
- Proposed 110kV EirGrid Substation two bay arrangement
- Red Line Planning Boundary
- Existing ESB OHL LV/MV Networks
- Recorded Monuments & Associated Zone of Notifications shown thus
- Optioned Landownership Boundary shown thus
- Irish Water Infrastructure shown thus
- Proposed Wind Farm track shown thus
- Temporary track shown thus
- Spot heights shown thus × 36.980m
- UGC chainage shown thus 200 195 190
- Distance from Red line boundary to grid connection underground cable 5m

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.
- Contours derived from DTM elevations referenced to Malin Head Vertical Datum

Grid connection Underground cable route will traverse the following townlands:
Carrowdotia South,
Carrowdotia North,
Poulnadarree,
Doonnagurroge,
Dunneill,
Derrylough,
Knockerry West,
Garraunnatooha,
Tullagower,
Gowerhass,
Brisla West,
Brisla East,
Ternagloghane,
Clooncullin,
Lissanair,
Kilmacduane East,
Clooneddan
Leitrim,
Sheeaun
Cloonwhite South,
Cahermurphy

Map Series:
Prime Data Vector

TÉ Sheet Reference Number:
4430, , 4431, 4432, 4489, 4490, 4491, 4549, 4550, 4551, 4608, 4609, 4610, 4668, 4669, 4670, 4729, 4730, 4731, 4789, 4790, 4791

ITM Center Point Co-Ordinates:
X,Y = 507095.7730, 661543.0274

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Site Layout Plan - Sheet 12 of 12

Scale : 1:2500

1:2500
50m 0 50m 100m 150m 200m 250m

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PROJECT

Cahermurphy West
Wind Farm 110kV
Grid Connection

CLIENT

Ireland FuturEnergy

CONSULTANTS

MKO

ISSUE/REVISION

P3	13.03.26	Issued for Planning
P2	05.03.26	Issued for Planning
P1	12.12.25	Issued for Planning
N3	03.11.25	Issued for Information
N2	03.10.25	Issued for Information
N1	15.08.25	Issued for Information
I/R	DATE	DESCRIPTION

PROJECT NUMBER

05-935

SHEET TITLE

Site Layout Plan -
Sheet 12 of 12

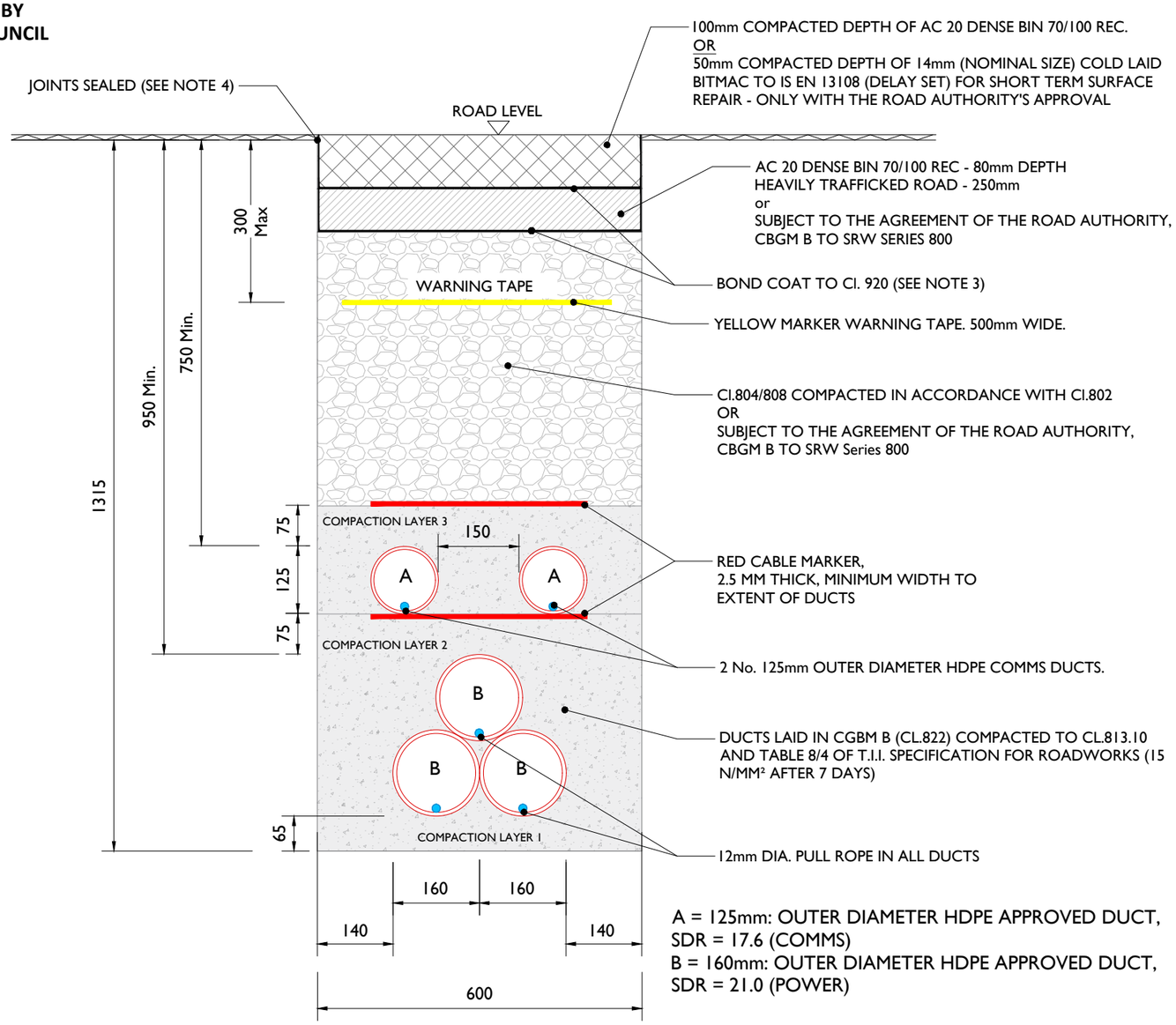
SHEET NUMBER

05935-DR-212

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 CLARE COUNTY COUNCIL



A = 125mm: OUTER DIAMETER HDPE APPROVED DUCT, SDR = 17.6 (COMMS)
B = 160mm: OUTER DIAMETER HDPE APPROVED DUCT, SDR = 21.0 (POWER)

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

SCALE 1:10

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.

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CLIENT
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PROJECT
Cahermurphy West Wind Farm
110 kV Grid Connection

PROJECT NUMBER
05-935

SHEET NUMBER
05-935-DR-253

SHEET TITLE
110kV Ducts in Local Road Temporary Reinstatement (SD1)

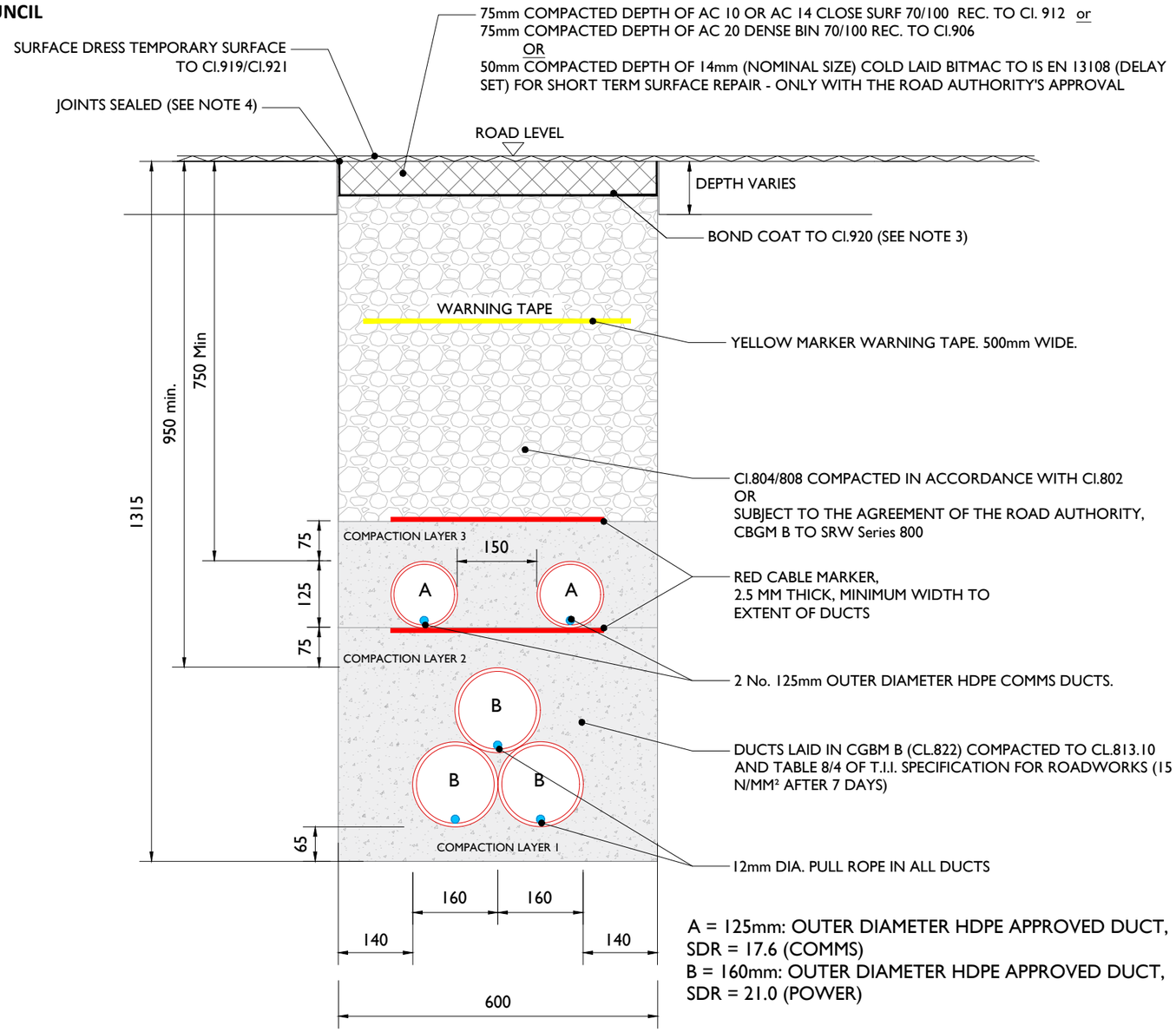
DRAWING STATUS
For Information

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P1	12.12.25	Issued for Planning
N1	03.10.25	Issued for Information

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

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



A = 125mm: OUTER DIAMETER HDPE APPROVED DUCT, SDR = 17.6 (COMMS)
B = 160mm: OUTER DIAMETER HDPE APPROVED DUCT, SDR = 21.0 (POWER)

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

SCALE 1:10

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.
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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.

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PROJECT
Cahermurphy West Wind Farm
110 kV Grid Connection

PROJECT NUMBER
05-935

SHEET NUMBER
05935-DR-254

SHEET TITLE
110kV Ducts in Local Road Temporary Reinstatement (SD2)

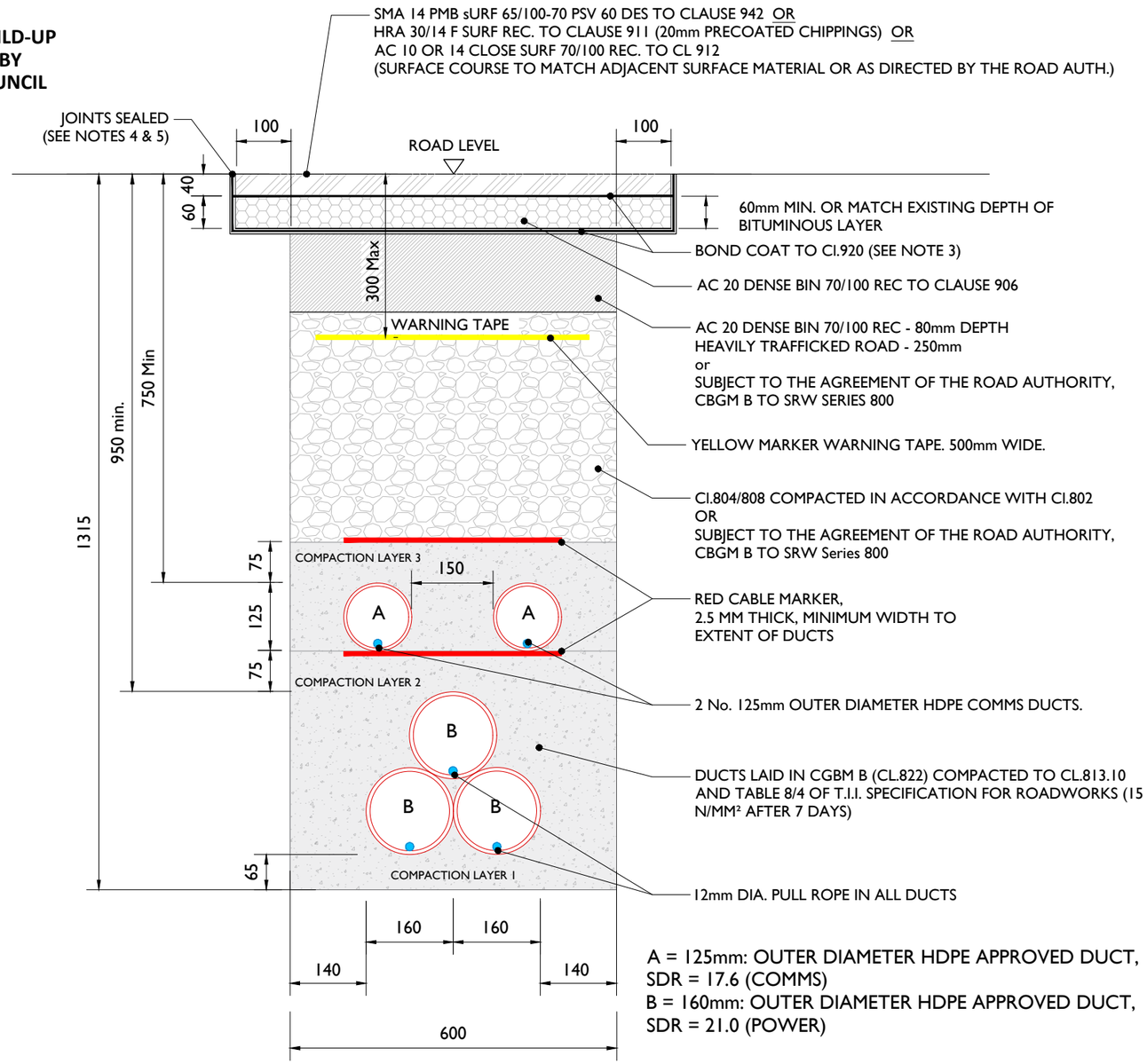
DRAWING STATUS
For Information

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P1	12.12.25	Issued for Planning
N1	03.10.25	Issued for Information

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

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



Typical Section Through Permanent Reinstatement of Longitudinal Opening in Roadway

SCALE 1:10

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. Joints sealed with hot Bitumen and topped with fine sand/grit to get a minimum 55 skid resistance value as determined by the Portable Skid Resistance Pendulum & shall not exceed 3mm depth and 50mm width or other method approved by the Roads Authority
6. Licence holder must maintain temporary reinstatement to a safe and acceptable standard.
7. Any damaged area adjacent to the opening and resulting from the excavation operation shall be included within the area to be reinstated.
8. 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.
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. 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.

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PROJECT
Cahermurphy West Wind Farm
110 kV Grid Connection

PROJECT NUMBER
05-935

SHEET NUMBER
05935-DR-255

SHEET TITLE
110kV Ducts in Local Road Permanent Reinstatement (SD4)

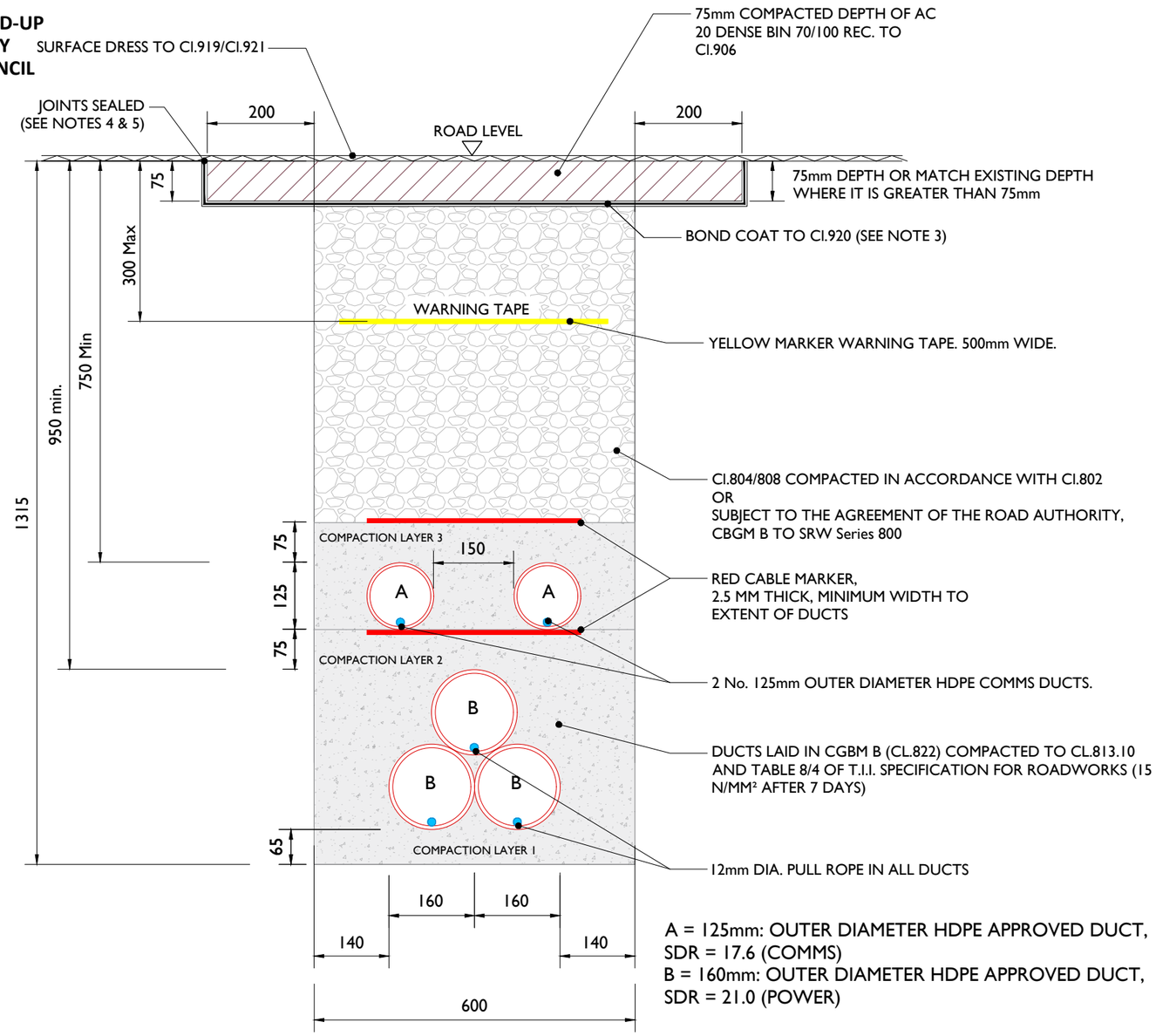
DRAWING STATUS
For Information

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P1	12.12.25	Issued for Planning
N1	03.10.25	Issued for Information

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

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



Typical Section Through Permanent Reinstatement of Longitudinal Opening in Roadway

SCALE 1:10

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. Joints sealed with hot Bitumen and topped with fine sand/grit to get a minimum 55 skid resistance value as determined by the Portable Skid Resistance Pendulum & shall not exceed 3mm depth and 50mm width or other method approved by the Roads Authority
6. Licence holder must maintain temporary reinstatement to a safe and acceptable standard.
7. Any damaged area adjacent to the opening and resulting from the excavation operation shall be included within the area to be reinstated.
8. 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.
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. 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.

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PROJECT
Cahermurphy West Wind Farm
110 kV Grid Connection

PROJECT NUMBER
05-935

SHEET NUMBER
05935-DR-256

SHEET TITLE
110kV Ducts in Local Road Permanent Reinstatement (SD5)

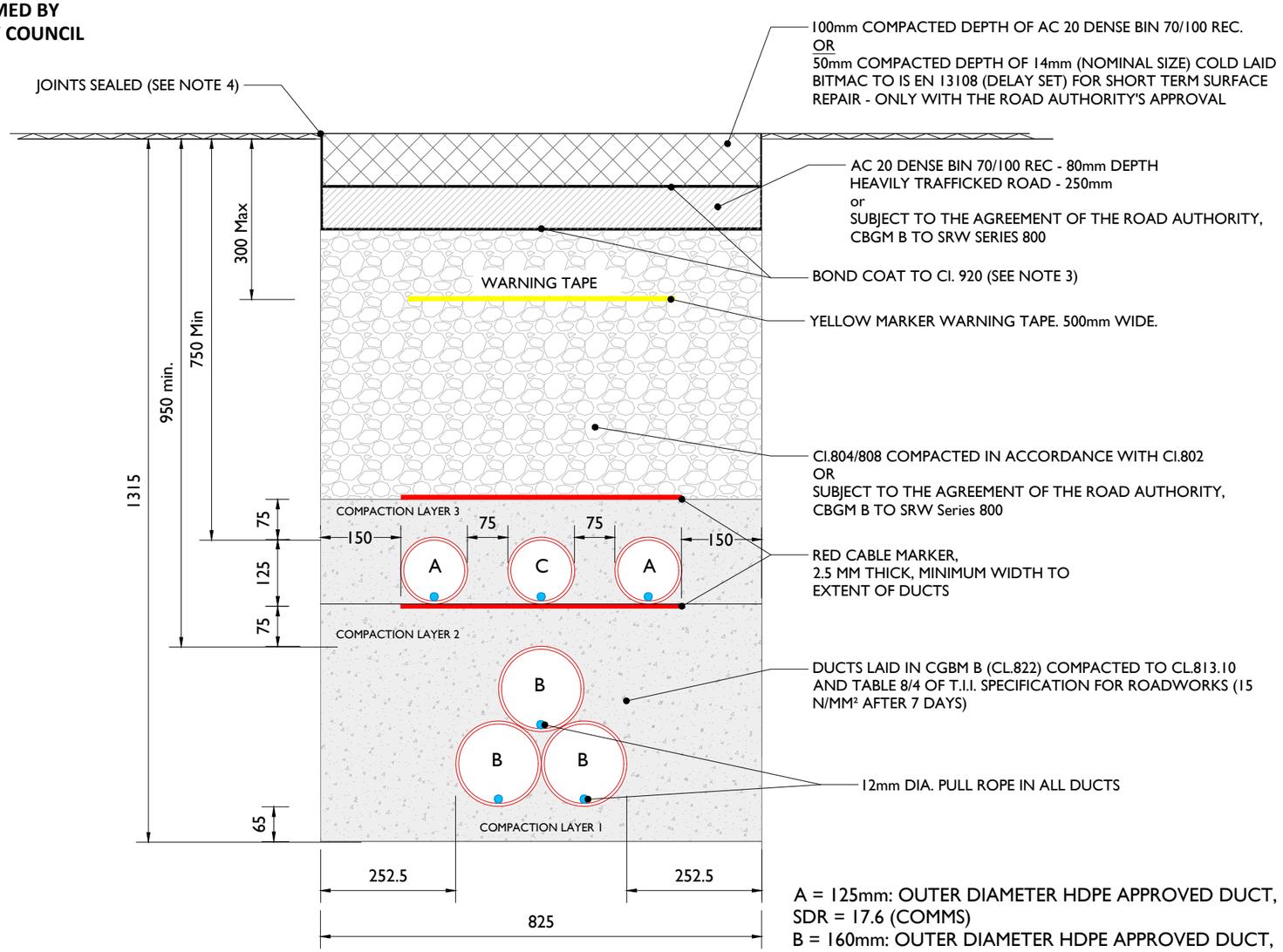
DRAWING STATUS
For Information

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P1	12.12.25	Issued for Planning
N1	03.10.25	Issued for Information

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

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



A = 125mm: OUTER DIAMETER HDPE APPROVED DUCT, SDR = 17.6 (COMMS)
B = 160mm: OUTER DIAMETER HDPE APPROVED DUCT, SDR = 21.0 (POWER)
C = 125mm: ECC (EARTH CONTINUNITY CONDUCTOR) DUCT,

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

SCALE 1:10

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.

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CLIENT
Future Energy Ireland

PROJECT
Cahermurphy West Wind Farm
110 kV Grid Connection

PROJECT NUMBER
05-935

SHEET NUMBER
05935-DR-257

SHEET TITLE
110kV Ducts in Local Road Temporary Reinstatement (SD1) with ECC

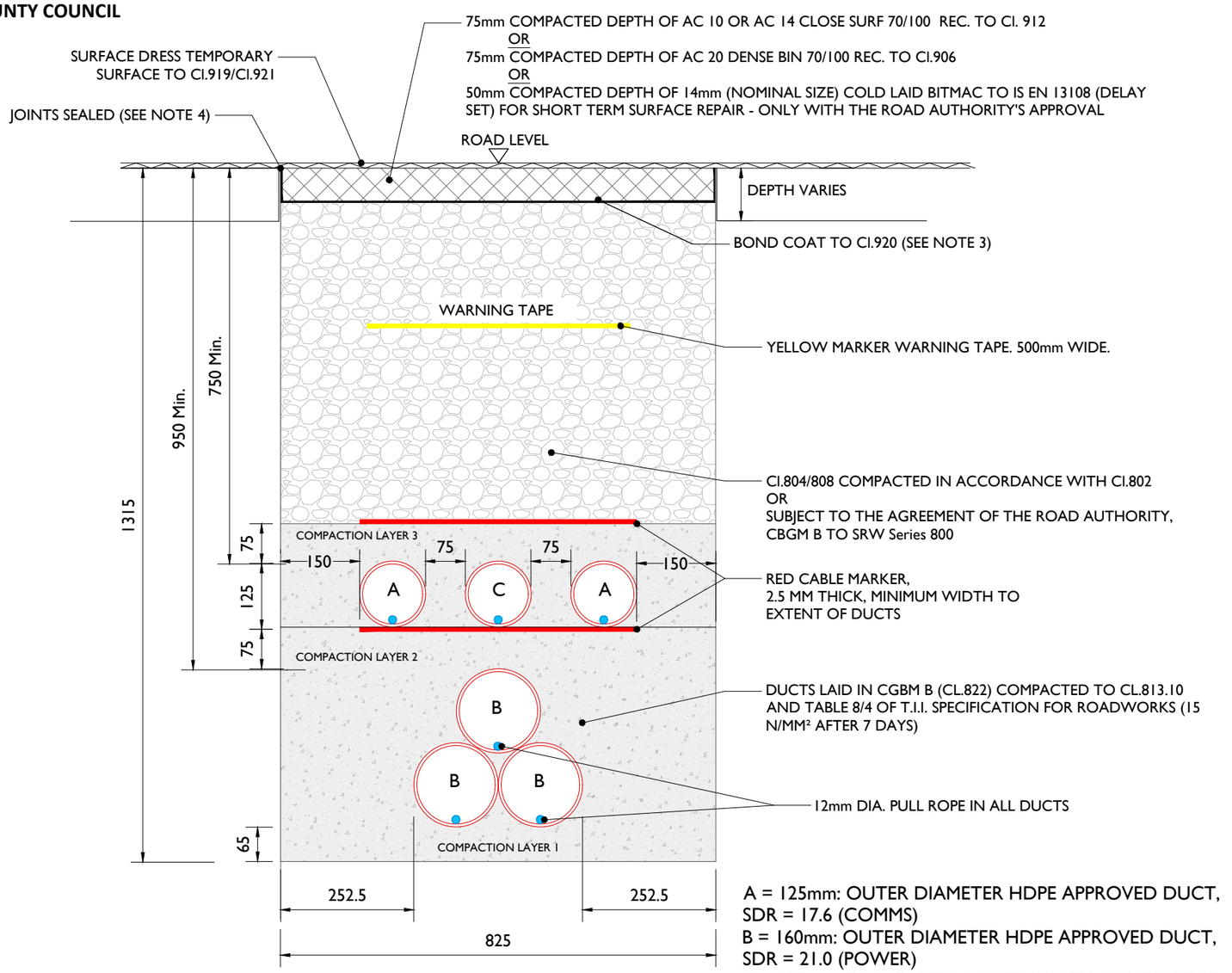
DRAWING STATUS
For Information

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P1	12.12.25	Issued for Planning
N1	03.10.25	Issued for Information

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

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



A = 125mm: OUTER DIAMETER HDPE APPROVED DUCT, SDR = 17.6 (COMMS)
B = 160mm: OUTER DIAMETER HDPE APPROVED DUCT, SDR = 21.0 (POWER)
C = 125mm: ECC (EARTH CONTINUNITY CONDUCTOR) DUCT,

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

SCALE 1:10

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.
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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.

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CLIENT
Ireland FutureEnergy

PROJECT
Cahermurphy West Wind Farm
110 kV Grid Connection

PROJECT NUMBER
05-935

SHEET NUMBER
05935-DR-258

SHEET TITLE
110kV Ducts in Local Road Temporary Reinstatement (SD2) With ECC

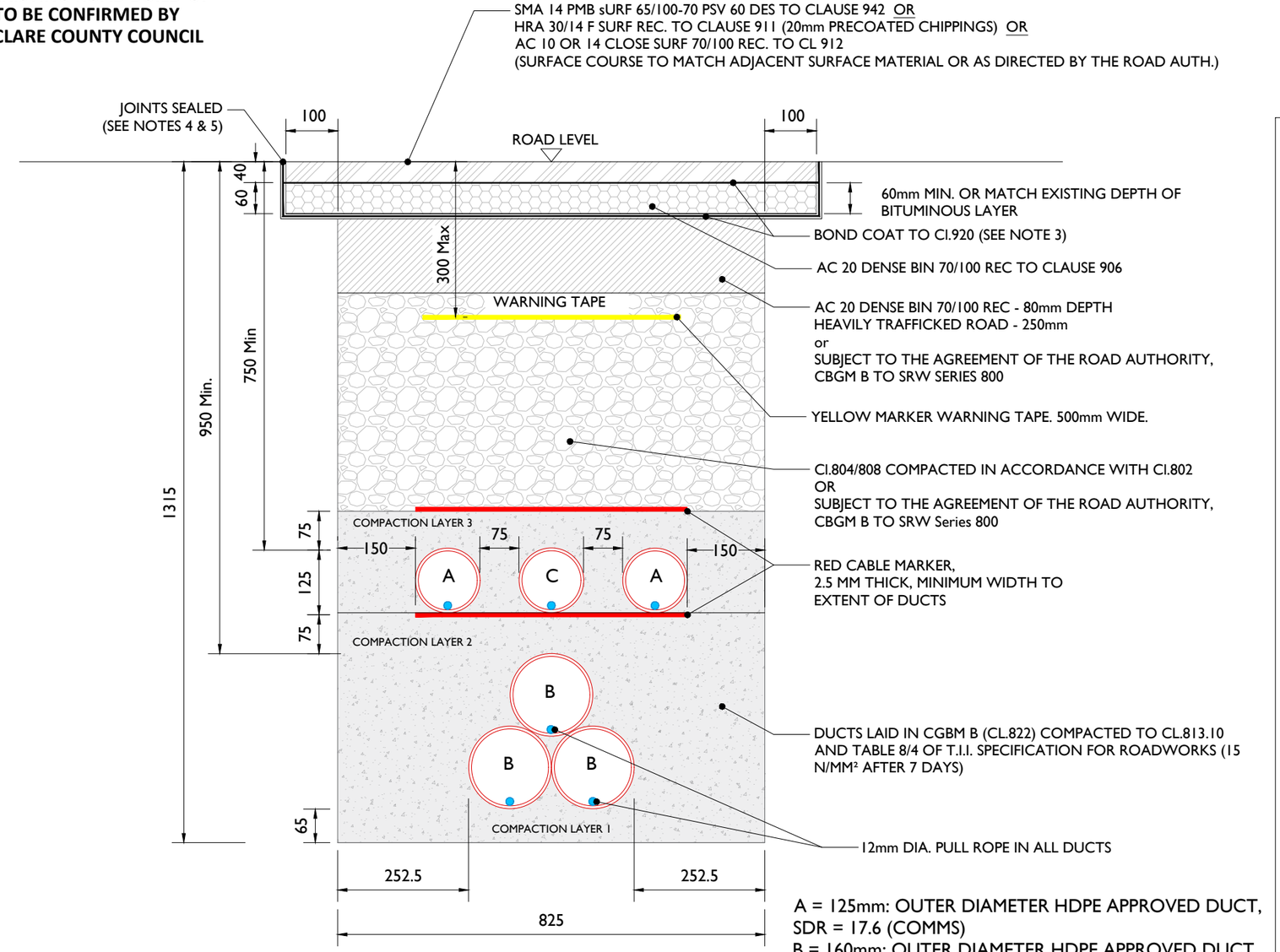
DRAWING STATUS
For Information

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P1	12.12.25	Issued for Planning
N1	03.10.25	Issued for Information

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

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



A = 125mm: OUTER DIAMETER HDPE APPROVED DUCT, SDR = 17.6 (COMMS)
B = 160mm: OUTER DIAMETER HDPE APPROVED DUCT, SDR = 21.0 (POWER)
C = 125mm: ECC (EARTH CONTINUNITY CONDUCTOR) DUCT,

Typical Section Through Permanent Reinstatement of Longitudinal Opening in Roadway

SCALE 1:10

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. Joints sealed with hot Bitumen and topped with fine sand/grit to get a minimum 55 skid resistance value as determined by the Portable Skid Resistance Pendulum & shall not exceed 3mm depth and 50mm width or other method approved by the Roads Authority
6. Licence holder must maintain temporary reinstatement to a safe and acceptable standard.
7. Any damaged area adjacent to the opening and resulting from the excavation operation shall be included within the area to be reinstated.
8. 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.
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. 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.

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CLIENT
Ireland FutureEnergy

PROJECT
Cahermurphy West Wind Farm
110 kV Grid Connection

PROJECT NUMBER
05-935

SHEET NUMBER
05935-DR-259

SHEET TITLE
110kV Ducts in Local Road Permanent Reinstatement (SD4) With ECC

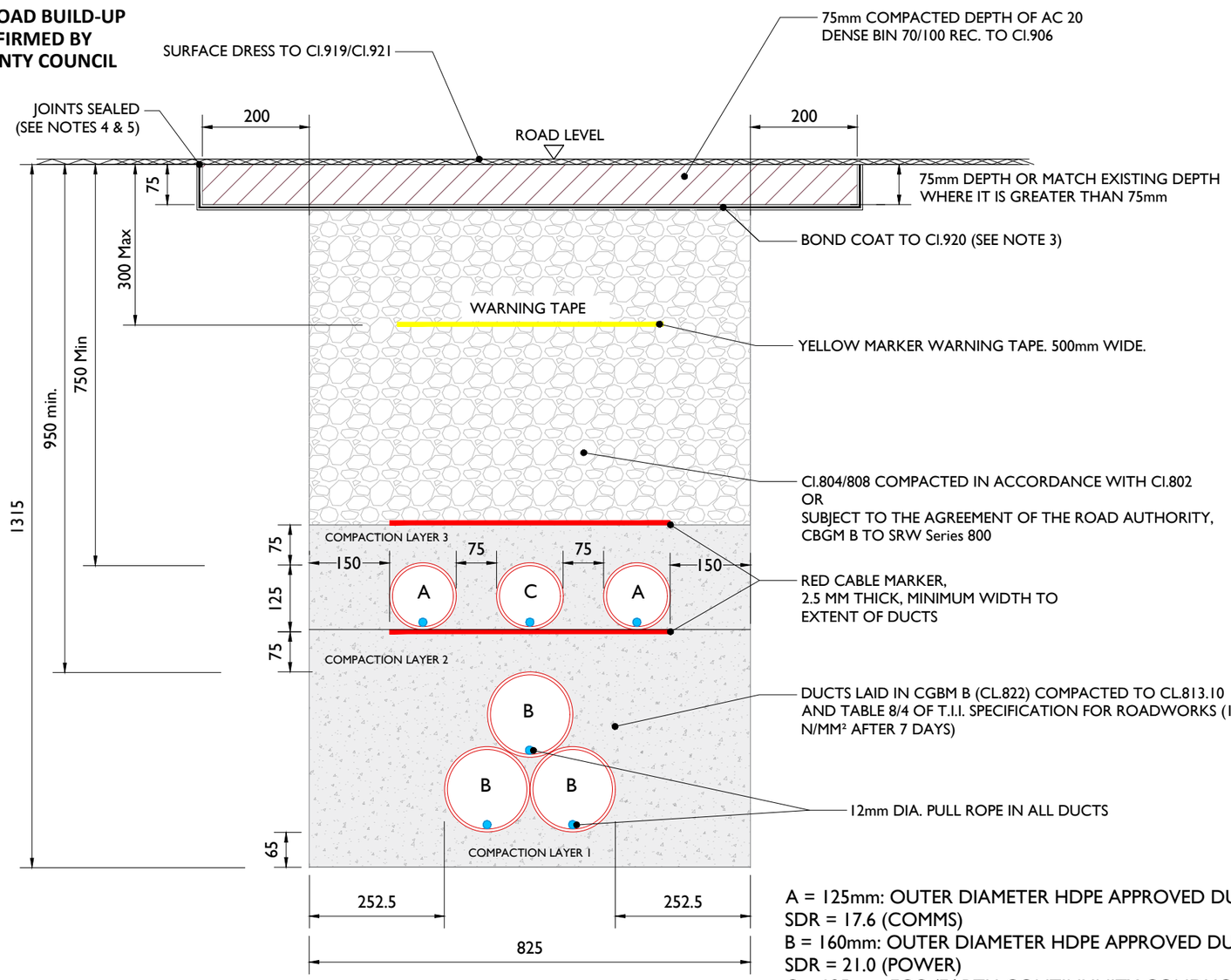
DRAWING STATUS
For Information

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P1	12.12.25	Issued for Planning
N1	03.10.25	Issued for Information

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

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



A = 125mm: OUTER DIAMETER HDPE APPROVED DUCT, SDR = 17.6 (COMMS)
B = 160mm: OUTER DIAMETER HDPE APPROVED DUCT, SDR = 21.0 (POWER)
C = 125mm: ECC (EARTH CONTINUNITY CONDUCTOR) DUCT,

Typical Section Through Permanent Reinstatement of Longitudinal Opening in Roadway

SCALE 1:10

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. Joints sealed with hot Bitumen and topped with fine sand/grit to get a minimum 55 skid resistance value as determined by the Portable Skid Resistance Pendulum & shall not exceed 3mm depth and 50mm width or other method approved by the Roads Authority
6. Licence holder must maintain temporary reinstatement to a safe and acceptable standard.
7. Any damaged area adjacent to the opening and resulting from the excavation operation shall be included within the area to be reinstated.
8. 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.
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. 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.

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Ireland FutureEnergy

PROJECT
Cahermurphy West Wind Farm
110 kV Grid Connection

PROJECT NUMBER
05-935

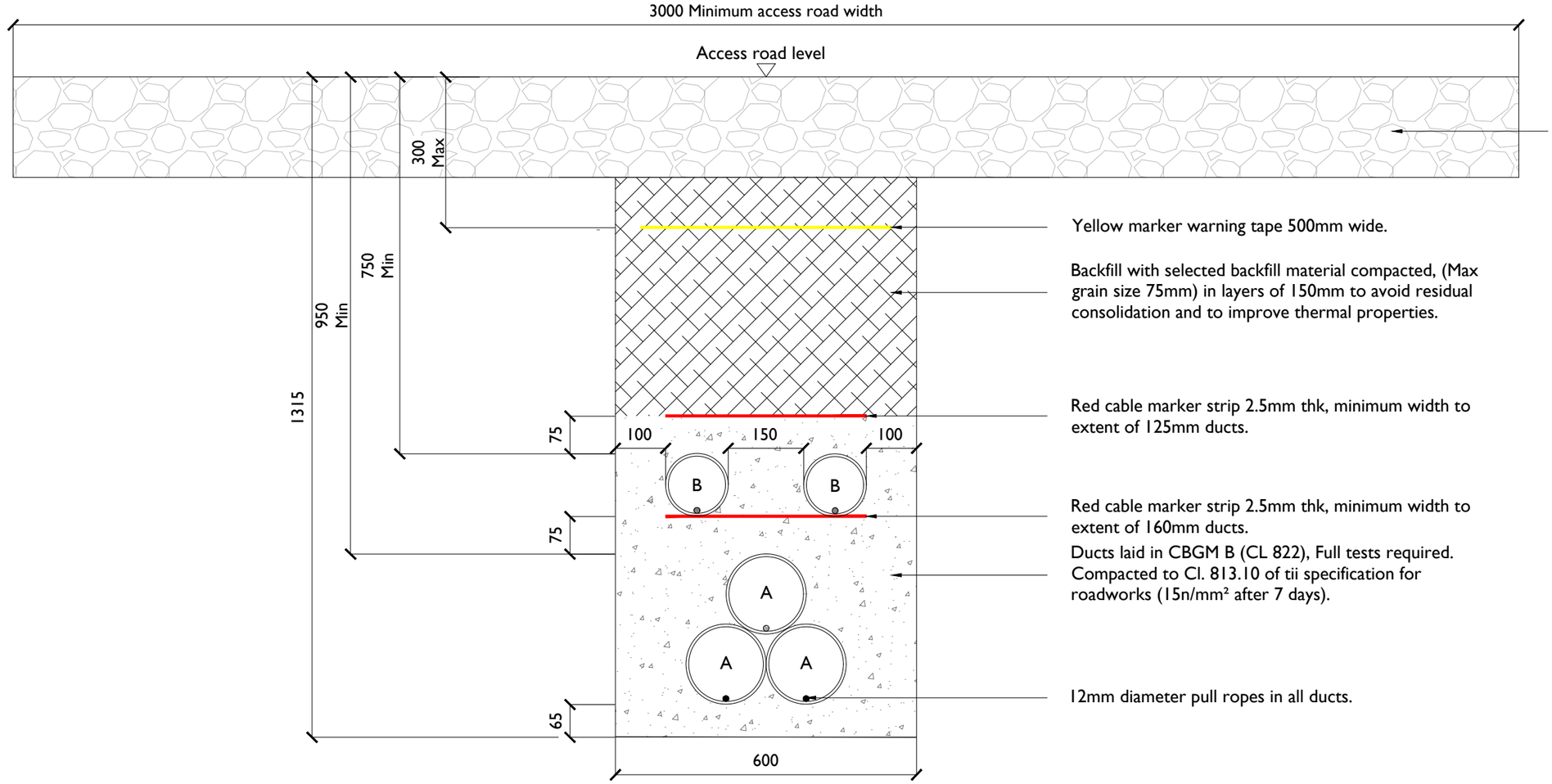
SHEET NUMBER
05935-DR-260

SHEET TITLE
110kV Ducts in Local Road Permanent Reinstatement (SD5) With ECC

DRAWING STATUS
For Information

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P1	12.12.25	Issued for Planning
N1	03.10.25	Issued for Information



A = 160mm: Outer Diameter HDPE ESB Approved Duct, SDR=21 (Power) [ESB Code: 9317552]
B = 125mm: Outer Diameter HDPE ESB Approved Duct, SDR=17.6 (Comms) [ESB Code: 9317552]

Typical Section Through Access Track

Scale 1:10

Note:
- This drawing is subject to EirGrid design approval and should not be used for construction.
- This drawing is to be read in conjunction with relevant drawings, specifications and reports.
- Dimensions are in millimeters, unless noted otherwise.
- Drawings are not to be scaled use figured dimensions only.
- Access road design to be confirmed as part of detailed design.

ALL REINSTATEMENT WORKS ARE TO BE IN ACCORDANCE WITH LANDOWNER REQUIREMENTS

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PROJECT
Cahermurphy West Wind Farm
110kV Grid Connection

PROJECT NUMBER
05-935

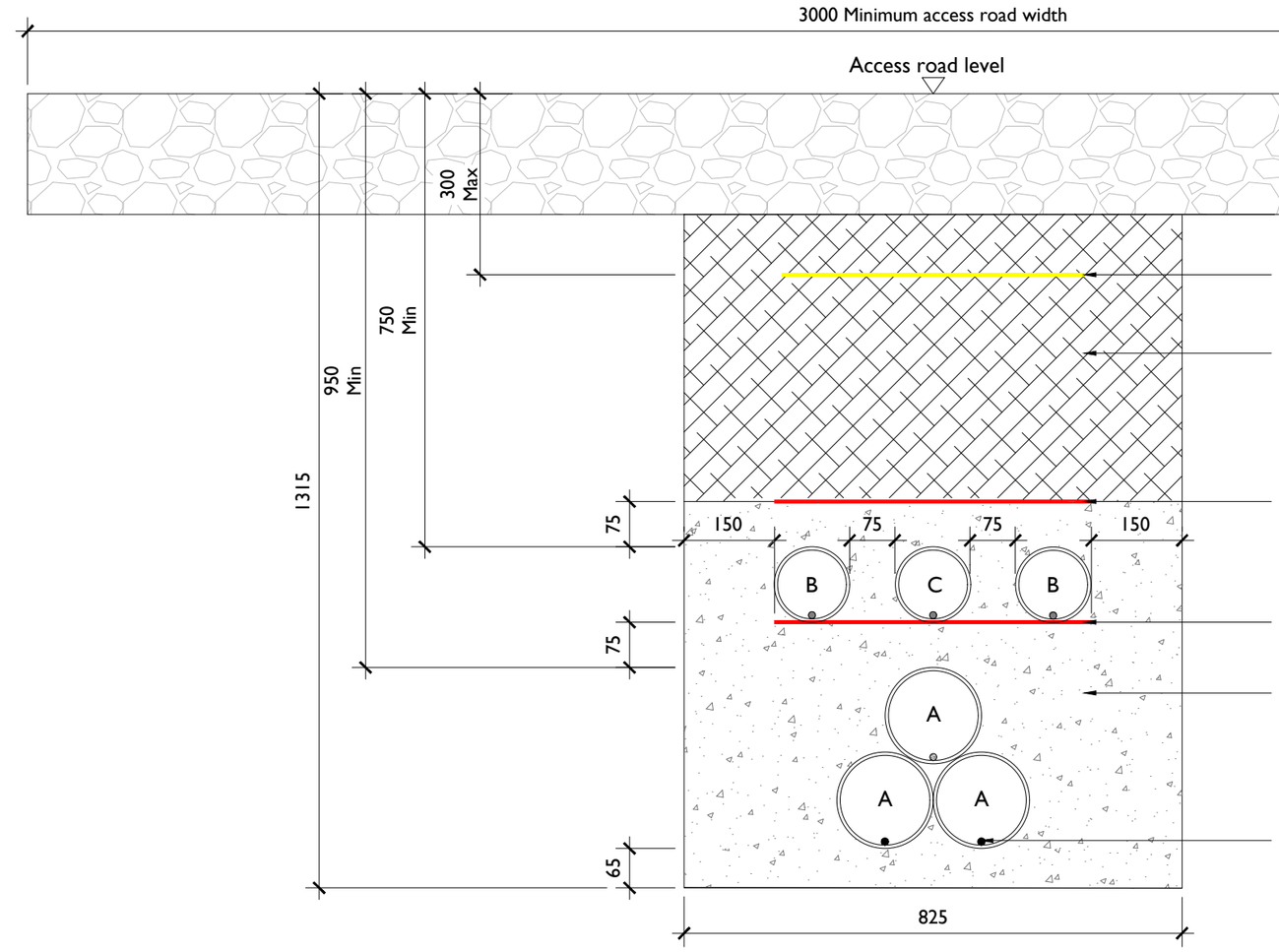
SHEET NUMBER
05935-DR-262

SHEET TITLE
110kV Ducting Through Access Track

DRAWING STATUS
For Information

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P1	12.12.25	Issued for Planning
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Cl. 804 compacted in layers finished with screenings.

Yellow marker warning tape 500mm wide.

Backfill with selected backfill material compacted, (Max grain size 75mm) in layers of 150mm to avoid residual consolidation and to improve thermal properties.

Red cable marker strip 2.5mm thk, minimum width to extent of 125mm ducts.

Red cable marker strip 2.5mm thk, minimum width to extent of 160mm ducts.

Ducts laid in CBGM B (CL 822), Full tests required. Compacted to Cl. 813.10 of tii specification for roadworks (15n/mm² after 7 days).

12mm diameter pull ropes in all ducts.

A = 160mm: Outer Diameter HDPE ESB Approved Duct, SDR=21 (Power) [ESB Code: 9317552]
B = 125mm: Outer Diameter HDPE ESB Approved Duct, SDR=17.6 (Comms) [ESB Code: 9317552]
C = 125mm: Outer Diameter HDPE ESB Approved Duct, SDR=17.6 (ECC) [ESB Code: 9317552]

Typical Section Through Off Road Section

Scale 1:10

Note:
- This drawing is subject to EirGrid design approval and should not be used for construction.
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- Dimensions are in millimeters, unless noted otherwise.
- Drawings are not to be scaled use figured dimensions only.
- Access road design to be confirmed as part of detailed design.

ALL REINSTATEMENT WORKS ARE TO BE IN ACCORDANCE WITH LANDOWNER REQUIREMENTS

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Ireland FutureEnergy

PROJECT
Cahermurphy West Wind Farm
110kV Grid Connection

PROJECT NUMBER
05-935

SHEET NUMBER
05935-DR-263

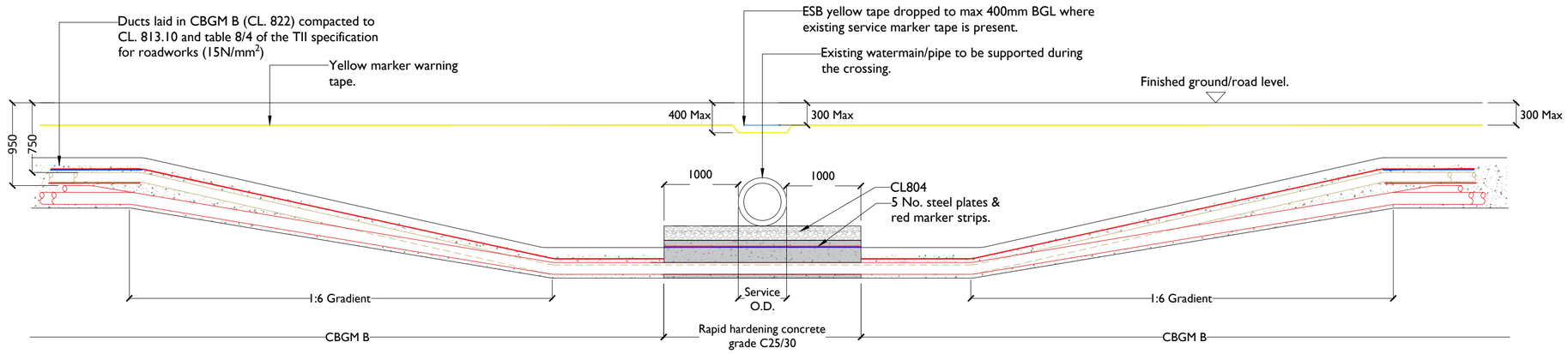
SHEET TITLE
110kV Ducting Through Access Track With ECC

DRAWING STATUS
For Information

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P1	12.12.25	Issued for Planning
N1	03.10.25	Issued for Information

ISO A2 420mm x 594mm

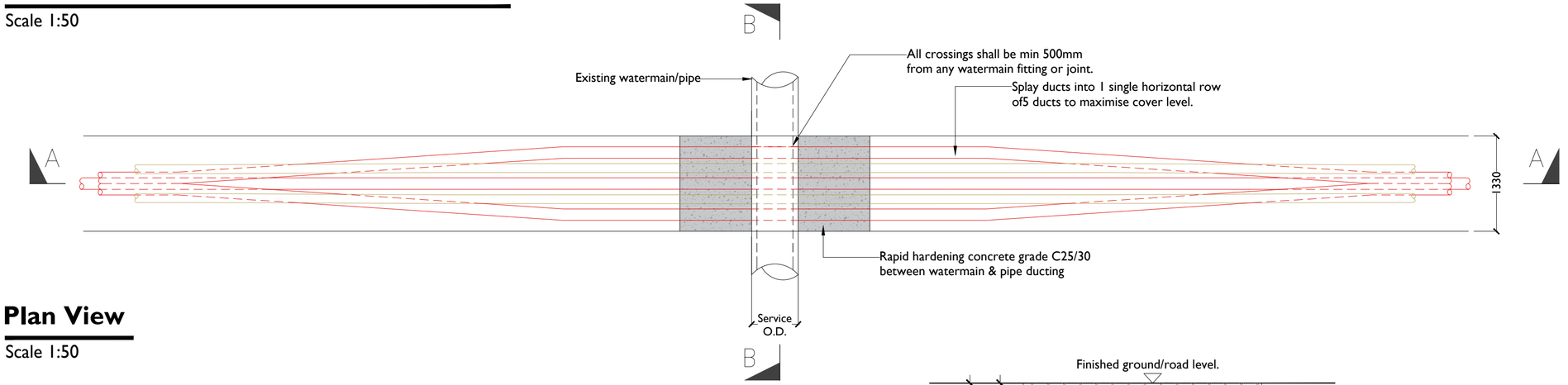


Section A-A Watermain Undercrossing

Scale 1:50

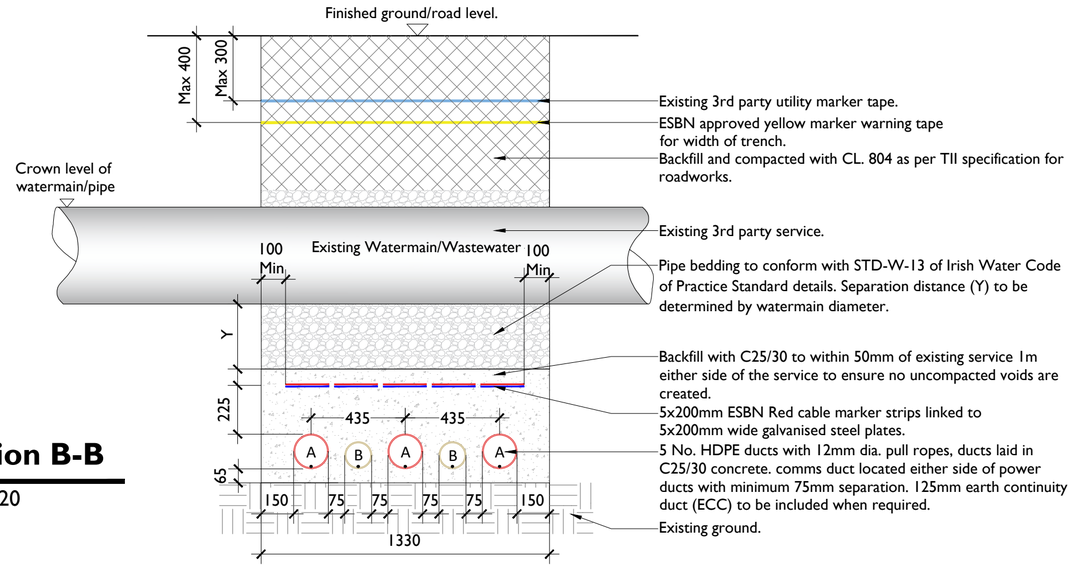
Plan View

Scale 1:50



General Notes

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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 watermain below, use rapid hardening cement grade C25/30 following engineers prior approval.
8. For standard trench cross section drawings see 05935-DR-253 to 05935-DR-256 (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. **ESB's preference is to cross under existing services where possible. This design may only be applied with confirmation in writing from the Engineer on a case by case basis**
11. Backfill as per guidelines for the opening, backfilling and reinstatement of openings in public roads (2017)
12. As per WIS 4-08-02 & IGN 4-08-01 granular material shall be 14mm to 5mm graded aggregate or 10mm single sized aggregate
13. If any Watermains are damaged during construction they will be replaced in full. camera scoping will be completed before and after the works.
14. 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.
15. 225mm minimum concrete over ducts where they transition from standard cross section and where they are at less than standard cover to ground level.
16. Replace existing service marker tape over ESB yellow marker tape.
17. The owner of the existing utility being crossed must be consulted in advance of works commencing as per their guidelines.
18. 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.



Section B-B

Scale 1:20

A = 160mm Outer diameter HDPE ESB approved duct, SDR = 21
B = 125mm Outer diameter HDPE ESB approved duct, SDR = 17.6
C = 125mm Outer diameter HDPE ESB approved duct, SDR = 17.6

Existing Watermain Ø (mm)	Y (mm)
<=300	300
>300	500
Distances to be in accordance with Section 3.6.1 of the Code of Practice.	

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PROJECT

Cahermurphy West Wind Farm 110kV Grid Connection

CLIENT

FuturEnergy Ireland

CONSULTANTS

MKO

NOTES: -

LEGEND: -

- 160mm Ø HDPE Power Duct with 12mm diameter pull rope
- 125mm Ø HDPE Communication Duct with 12mm diameter pull rope
- Red marker strip
- Yellow marker warning tape
- 6mm Galvanised steel plate
- Existing service tape

ISSUE/REVISION

P1	12.12.25	Issued for Planning
N1	03.10.25	Issued For Information
I/R	DATE	DESCRIPTION

PROJECT NUMBER

05 - 935

SHEET TITLE

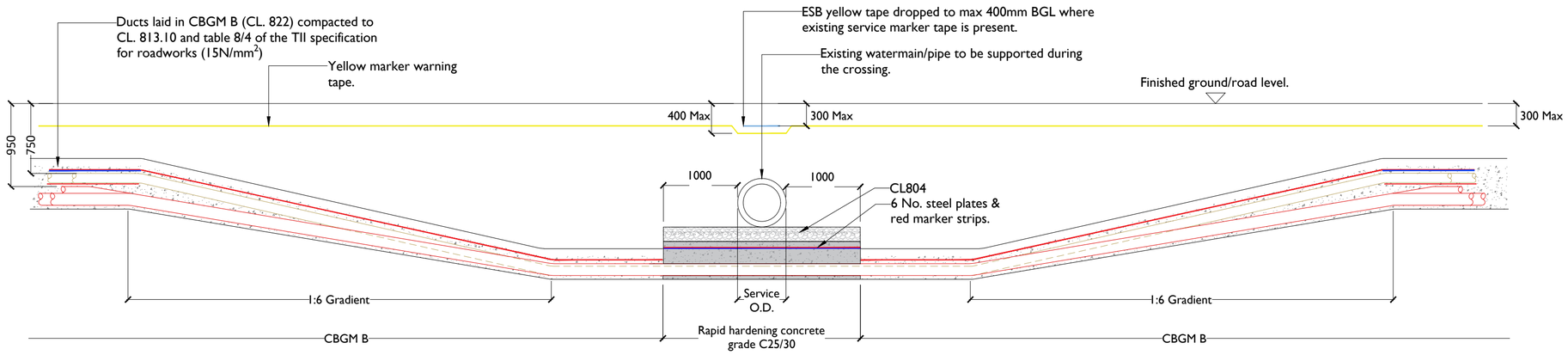
Trench Sections For Undercrossing Existing Watermain/Wastewater No ECC

SHEET NUMBER

05935-DR-265

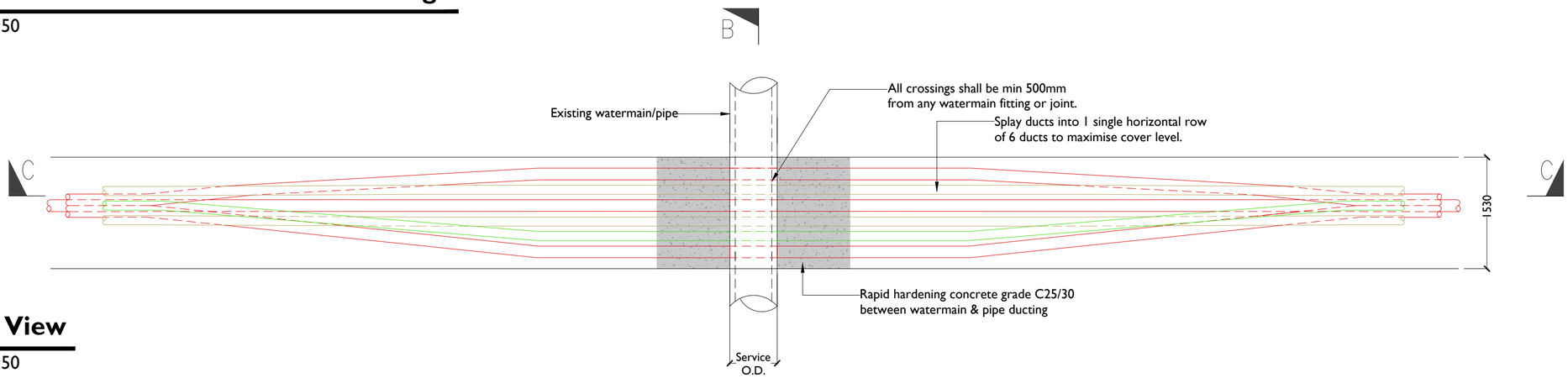
Project Management Initials: Designer: DB Checked: POS Approved: DBro

ISO A2 420mm x 594mm



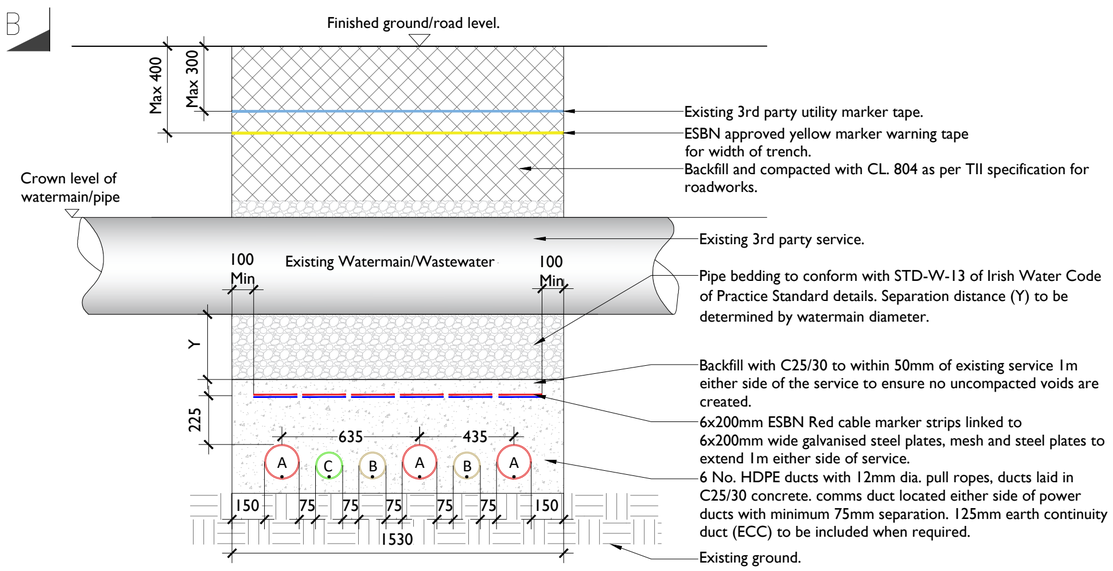
Section A-A Watermain Undercrossing

Scale 1:50



Plan View

Scale 1:50



Section B-B

Scale 1:20

A = 160mm Outer diameter HDPE ESB approved duct, SDR = 21
B = 125mm Outer diameter HDPE ESB approved duct, SDR = 17.6
C = 125mm Outer diameter HDPE ESB approved duct, SDR = 17.6

Existing Watermain Ø (mm)	Y (mm)
<=300	300
>300	500

Distances to be in accordance with Section 3.6.1 of the Code of Practice.

General Notes

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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 watermain below, use rapid hardening cement grade C25/30 following engineers prior approval.
8. For standard trench cross section drawings see 05935-DR-257 to 05935-DR-260 (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. **ESB's preference is to cross under existing services where possible. This design may only be applied with confirmation in writing from the Engineer on a case by case basis**
11. Backfill as per guidelines for the opening, backfilling and reinstatement of openings in public roads (2017)
12. As per WIS 4-08-02 & IGN 4-08-01 granular material shall be 14mm to 5mm graded aggregate or 10mm single sized aggregate
13. If any Watermains are damaged during construction they will be replaced in full. camera scoping will be completed before and after the works.
14. 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.
15. 225mm minimum concrete over ducts where they transition from standard cross section and where they are at less than standard cover to ground level.
16. Replace existing service marker tape over ESB yellow marker tape.
17. The owner of the existing utility being crossed must be consulted in advance of works commencing as per their guidelines.
18. 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.

Project Management Initials: Designer: DMB Checked: POS Approved: DB

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PROJECT

Cahermurphy West Wind Farm 110kV Grid Connection

CLIENT

FuturEnergy Ireland

CONSULTANTS

MKO

NOTES: -

See Notes in Main Drawing

LEGEND: -

- 160mm Ø HDPE Power Duct with 12mm diameter pull rope
- 125mm Ø HDPE Communication Duct with 12mm diameter pull rope
- 125mm Ø HDPE Earth Continuity Conductor with 12mm diameter pull rope
- Red marker strip
- Yellow marker warning tape
- 6mm Galvanised steel plate

ISSUE/REVISION

P1	12.12.25	Issued for Planning
N1	03.10.25	Issued For Information
I/R	DATE	DESCRIPTION

PROJECT NUMBER

05-935

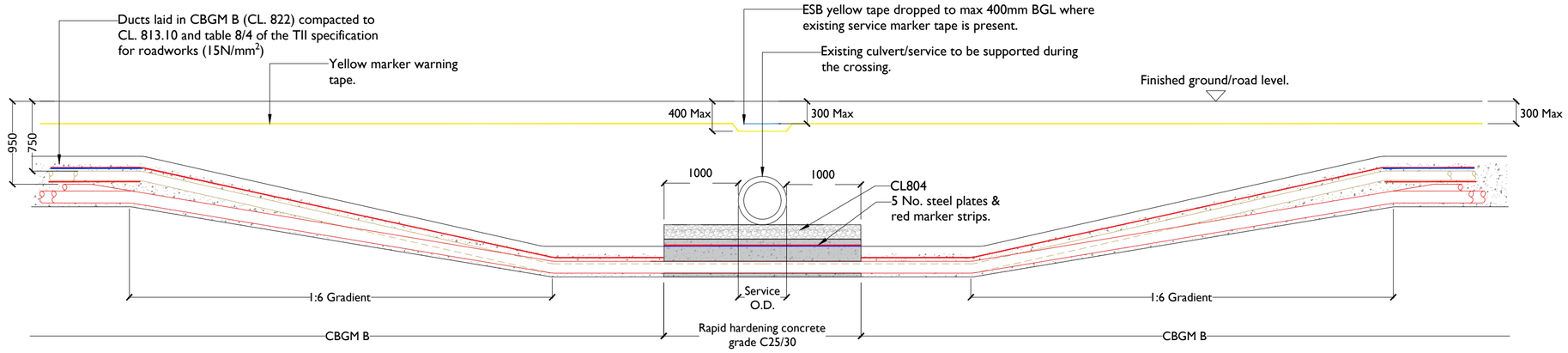
SHEET TITLE

Trench Sections For Undercrossing Existing Watermain/Wastewater

SHEET NUMBER

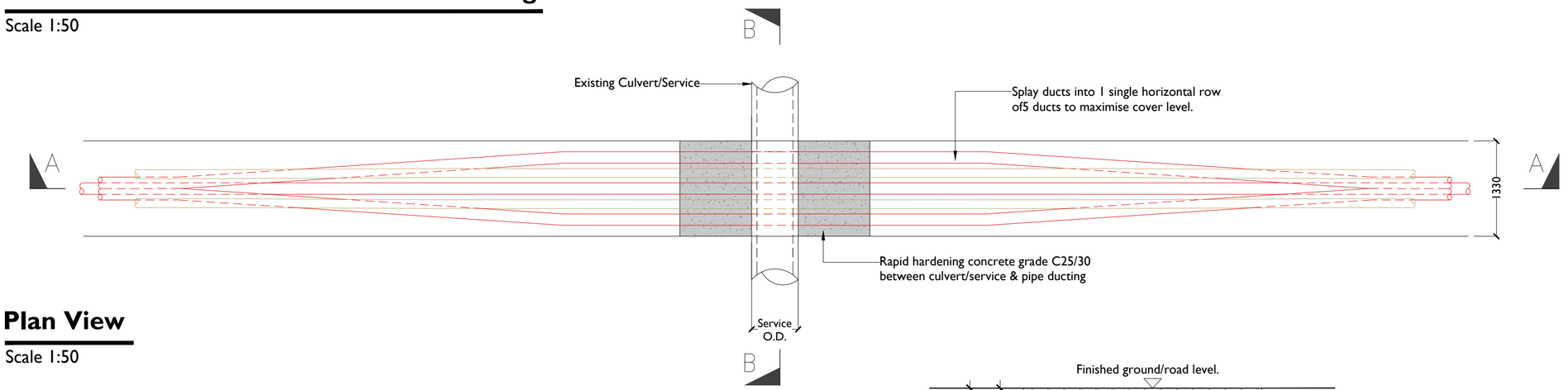
05935-DR-267

ISO A2 420mm x 594mm



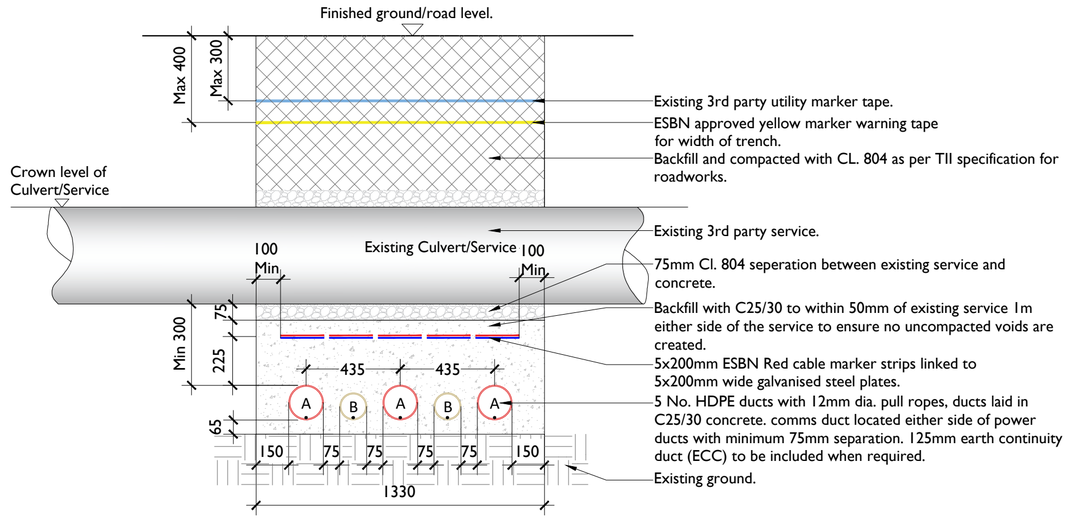
Section A-A Culvert/Service Undercrossing

Scale 1:50



Plan View

Scale 1:50



A = 160mm Outer diameter HDPE ESB approved duct, SDR = 21
B = 125mm Outer diameter HDPE ESB approved duct, SDR = 17.6
C = 125mm Outer diameter HDPE ESB approved duct, SDR = 17.6

Section B-B

Scale 1:20

General Notes

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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 culvert/service below, use rapid hardening cement grade C25/30 following engineers prior approval.
8. For standard trench cross section drawings see 05935-DR-253 to 05935-DR-256 (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. **ESB's preference is to cross under existing services where possible. This design may only be applied with confirmation in writing from the Engineer on a case by case basis**
11. Backfill as per guidelines for the opening, backfilling and reinstatement of openings in public roads (2017)
12. As per WIS 4-08-02 & IGN 4-08-01 granular material shall be 14mm to 5mm graded aggregate or 10mm single sized aggregate
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.

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PROJECT

Cahermurphy West Wind Farm 110kV Grid Connection

CLIENT

FuturEnergy Ireland

CONSULTANTS

MKO

NOTES: -

LEGEND: -

- 160mm Ø HDPE Power Duct with 12mm diameter pull rope
- 125mm Ø HDPE Communication Duct with 12mm diameter pull rope
- Red marker strip
- Yellow marker warning tape
- 6mm Galvanised steel plate
- Existing service tape

ISSUE/REVISION

P1	12.12.25	Issued for Planning
N1	03.10.25	Issued For Information
I/R	DATE	DESCRIPTION

PROJECT NUMBER

05-935

SHEET TITLE

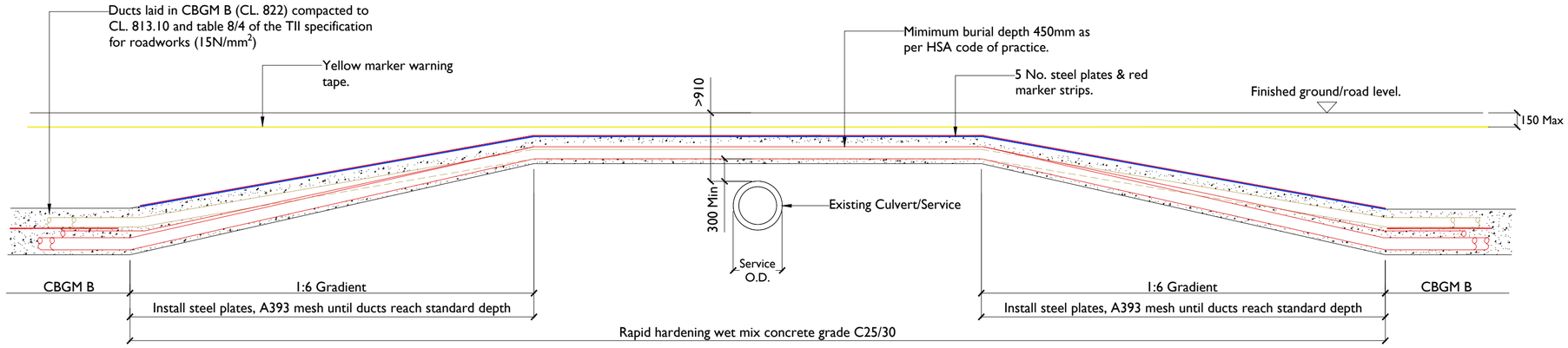
Trench Sections For Undercrossing Existing Culvert/Service No ECC

SHEET NUMBER

05935-DR-268

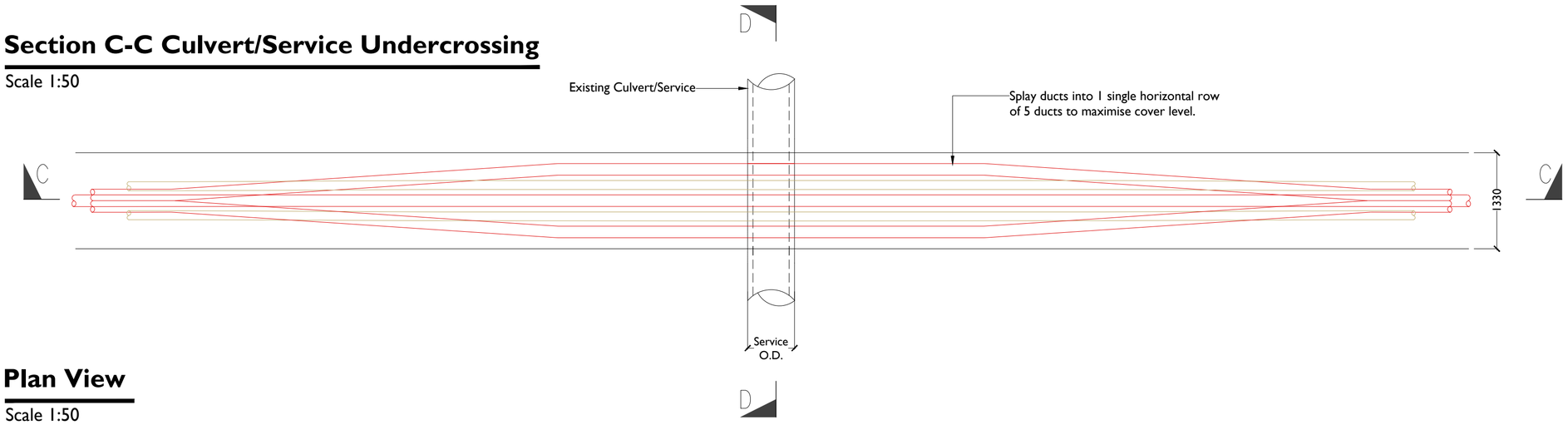
Project Management Initials: Designer: DMB Checked: POS Approved: DB

ISO A2 420mm x 594mm



Section C-C Culvert/Service Undercrossing

Scale 1:50

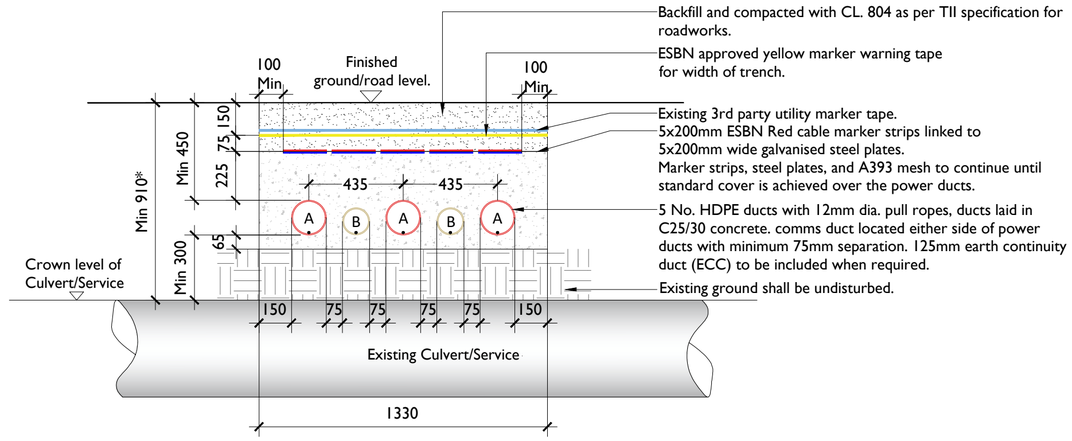


Plan View

Scale 1:50

General Notes

1. This drawing is subject to EirGrid design 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 see 05935-DR-253 to 05935-DR-256 (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. **ESB's preference is to cross under existing services where possible. This design may only be applied with confirmation in writing from the Engineer on a case by case basis**
11. Backfill as per guidelines for the opening, backfilling and reinstatement of openings in public roads (2017)
12. As per WIS 4-08-02 & IGN 4-08-01 granular material shall be 14mm to 5mm graded aggregate or 10mm single sized aggregate
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.



* All existing services with covers less than min. dimensions above shall be crossed by undercrossing method.

A = 160mm Outer diameter HDPE ESB approved duct, SDR = 21
B = 125mm Outer diameter HDPE ESB approved duct, SDR = 17.6
C = 125mm Outer diameter HDPE ESB approved duct, SDR = 17.6

Section D-D

Scale 1:20

Project Management Initials: Designer: DMB Checked: POS Approved: DB

tli GROUP
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PROJECT

Cahermurphy West Wind Farm 110kV Grid Connection

CLIENT

FuturEnergy Ireland

CONSULTANTS

MKO

NOTES: -

LEGEND: -

- 160mm Ø HDPE Power Duct with 12mm diameter pull rope
- 125mm Ø HDPE Communication Duct with 12mm diameter pull rope
- Red marker strip
- Yellow marker warning tape
- 6mm Galvanised steel plate
- Existing service tape

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P1	12.12.25	Issued for Planning
N1	03.10.25	Issued For Information

PROJECT NUMBER

05 - 935

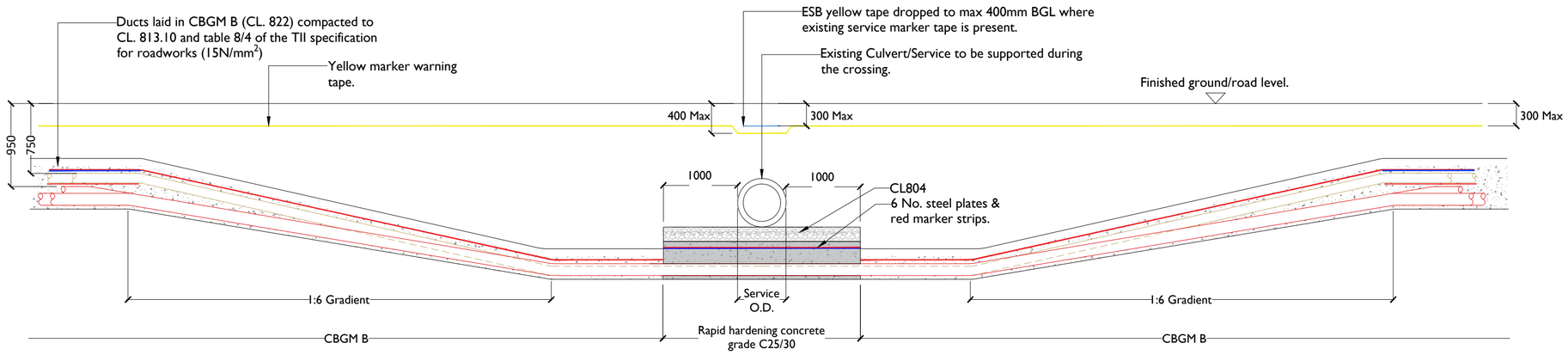
SHEET TITLE

Trench Sections For Overcrossing Existing Culvert/Service No ECC

SHEET NUMBER

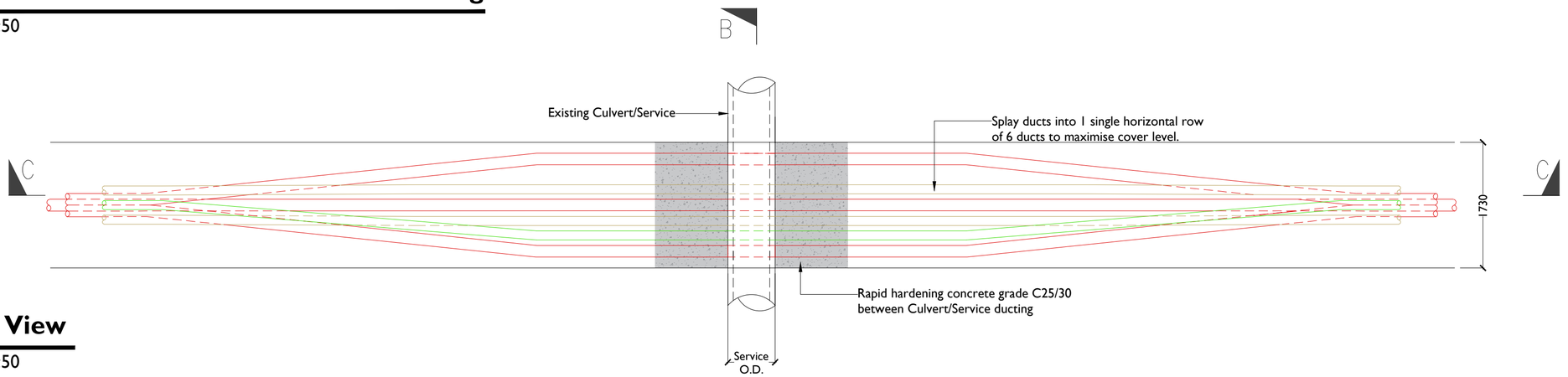
05935-DR-269

ISO A2 420mm x 594mm



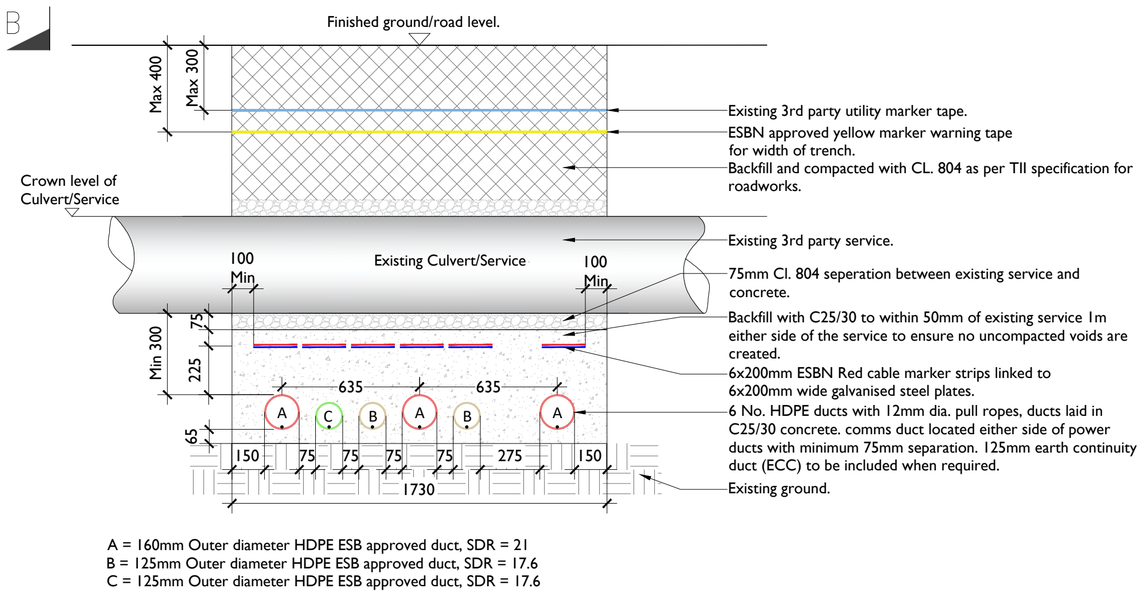
Section A-A Culvert/Service Undercrossing

Scale 1:50



Plan View

Scale 1:50



A = 160mm Outer diameter HDPE ESB approved duct, SDR = 21
B = 125mm Outer diameter HDPE ESB approved duct, SDR = 17.6
C = 125mm Outer diameter HDPE ESB approved duct, SDR = 17.6

Section B-B

Scale 1:20

General Notes

1. This drawing is subject to EirGrid design 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 see 05935-DR-257 to 05935-DR-260 (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. **ESB's preference is to cross under existing services where possible. This design may only be applied with confirmation in writing from the Engineer on a case by case basis**
11. Backfill as per guidelines for the opening, backfilling and reinstatement of openings in public roads (2017)
12. As per WIS 4-08-02 & IGN 4-08-01 granular material shall be 14mm to 5mm graded aggregate or 10mm single sized aggregate
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.

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PROJECT

Cahermurphy West Wind Farm 110kV Grid Connection

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FuturEnergy Ireland

CONSULTANTS

MKO

NOTES: -

See Notes in Main Drawing

LEGEND: -

- 160mm Ø HDPE Power Duct with 12mm diameter pull rope
- 125mm Ø HDPE Communication Duct with 12mm diameter pull rope
- 125mm Ø HDPE Earth Continuity Conductor with 12mm diameter pull rope
- Red marker strip
- Yellow marker warning tape
- 6mm Galvanised steel plate

ISSUE/REVISION

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P1	12.12.25	Issued for Planning
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SHEET TITLE

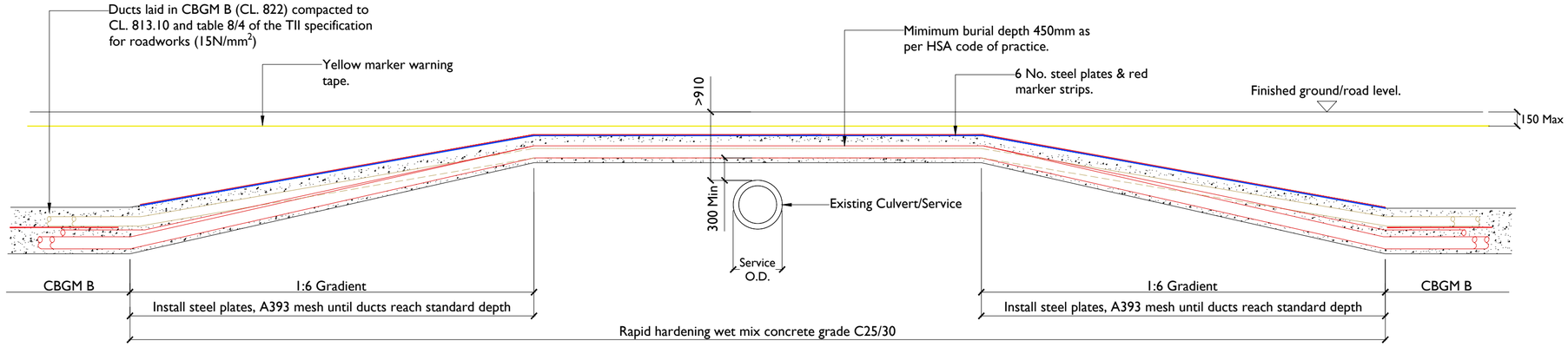
Trench Sections For Undercrossing Existing Culvert/Service

SHEET NUMBER

05935-DR-270

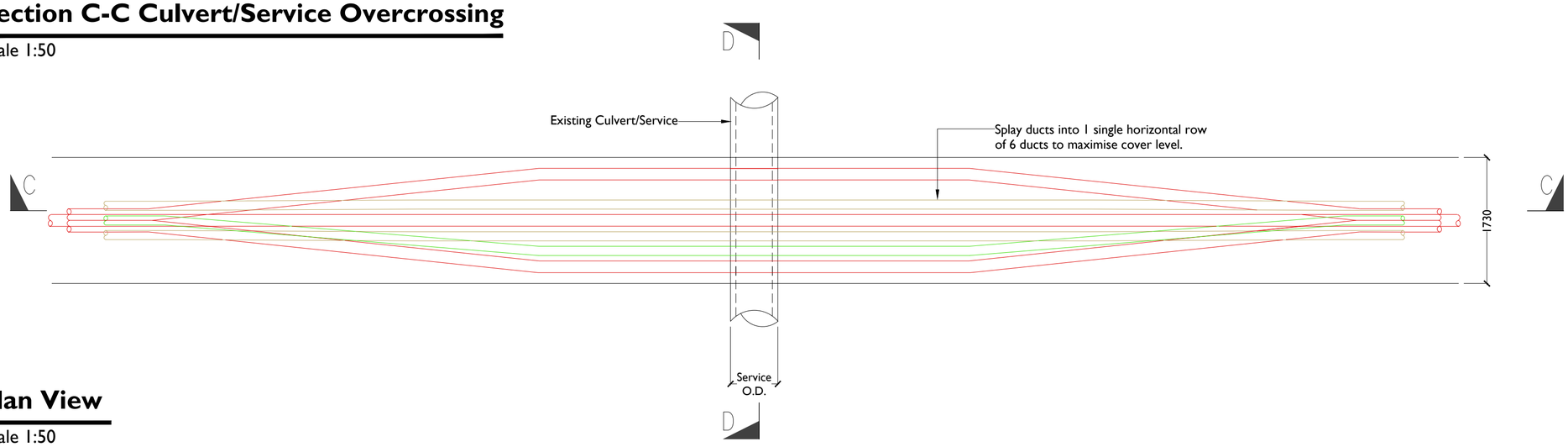
Project Management Initials: Designer: DMB Checked: POS Approved: DB

ISO A2 420mm x 594mm



Section C-C Culvert/Service Overcrossing

Scale 1:50

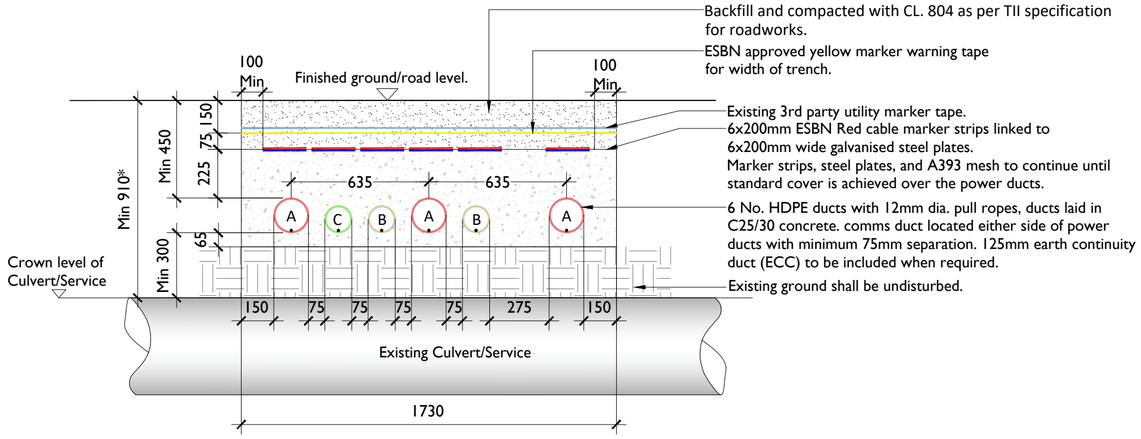


Plan View

Scale 1:50

General Notes

1. This drawing is subject to EirGrid design 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 see 05935-DR-257 to 05935-DR-260 (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. **ESB's preference is to cross under existing services where possible. This design may only be applied with confirmation in writing from the Engineer on a case by case basis**
11. Backfill as per guidelines for the opening, backfilling and reinstatement of openings in public roads (2017)
12. As per WIS 4-08-02 & IGN 4-08-01 granular material shall be 14mm to 5mm graded aggregate or 10mm single sized aggregate
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.



* All existing services with covers less than min. dimensions above shall be crossed by undercrossing method.

A = 160mm Outer diameter HDPE ESB approved duct, SDR = 21
B = 125mm Outer diameter HDPE ESB approved duct, SDR = 17.6
C = 125mm Outer diameter HDPE ESB approved duct, SDR = 17.6

Section D-D

Scale 1:20

Project Management Initials: Designer: DMB Checked: POS Approved: DB

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PROJECT

Cahermurphy West Wind Farm 110kV Grid Connection

CLIENT

FuturEnergy Ireland

CONSULTANTS

MKO

NOTES: -

LEGEND: -

- 160mm Ø HDPE Power Duct with 12mm diameter pull rope
- 125mm Ø HDPE Communication Duct with 12mm diameter pull rope
- 125mm Ø HDPE Earth Continuity Conductor with 12mm diameter pull rope
- Red marker strip
- Yellow marker warning tape
- 6mm Galvanised steel plate
- Existing service tape

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P1	12.12.25	Issued for Planning
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PROJECT NUMBER

05-935

SHEET TITLE

Trench Sections For Overcrossing Existing Culvert/Service

SHEET NUMBER

05935-DR-271

ISO A2 420mm x 594mm

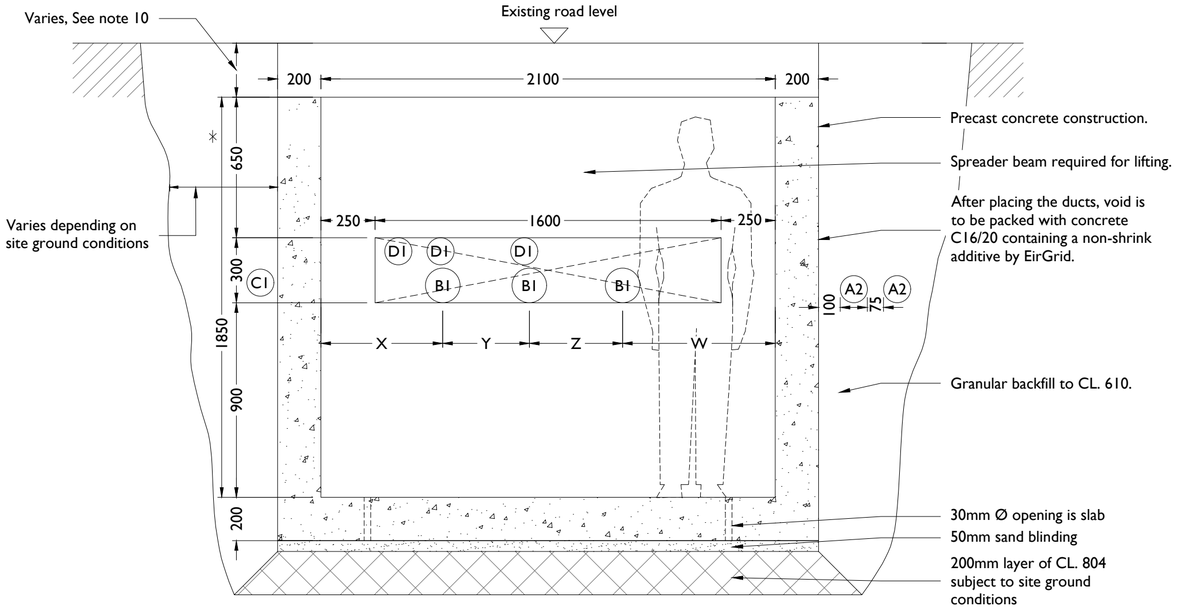
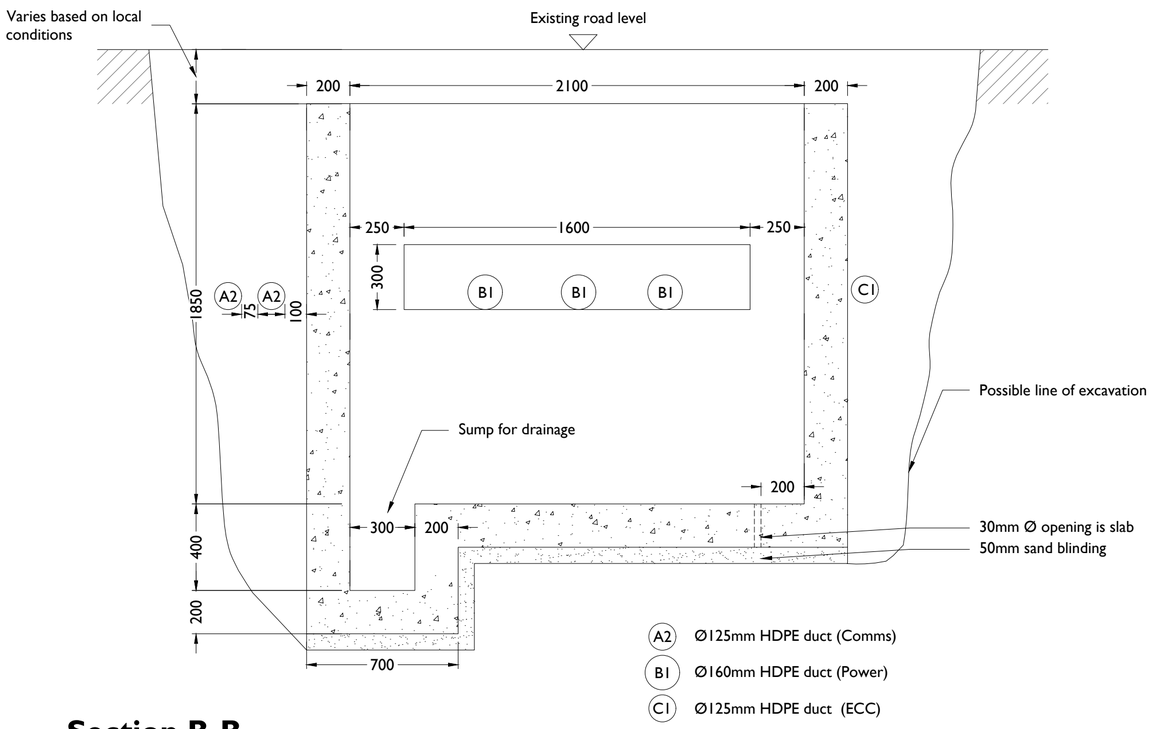


Table 1 - Duct Seperation

	X	Y	Z	W
110kV	560	400	400	740

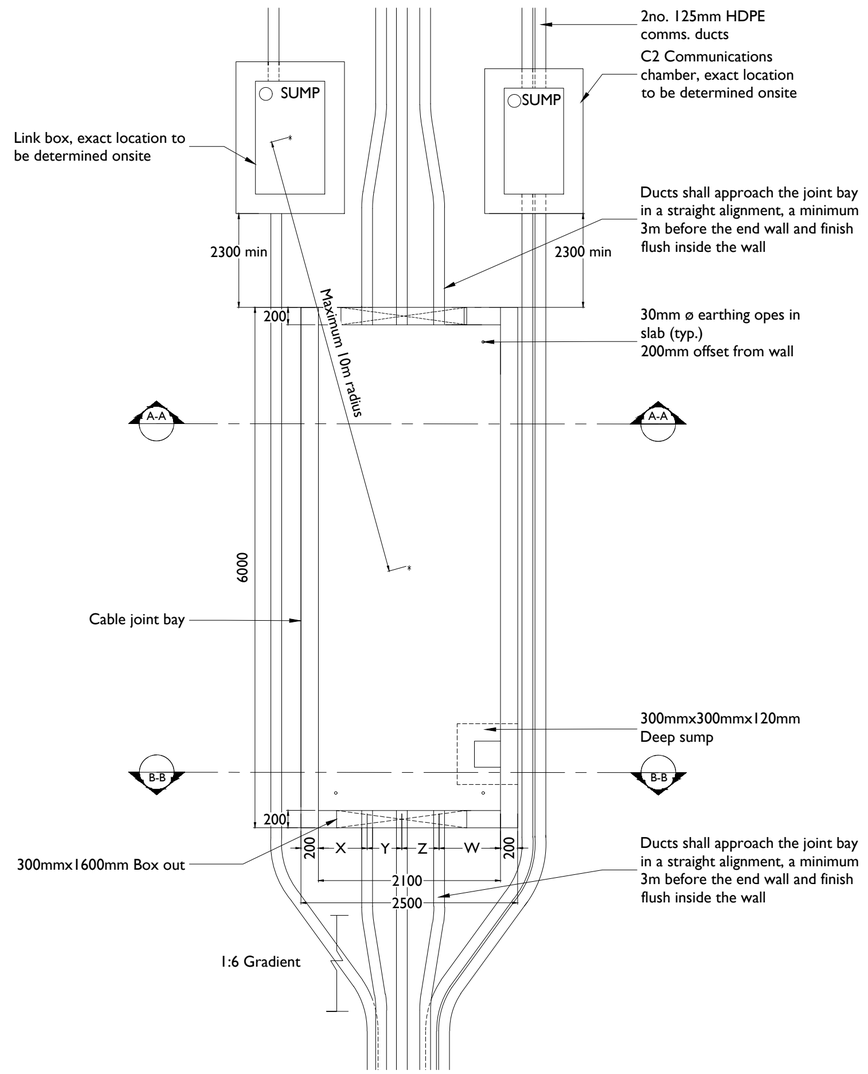
- A2 Ø125mm HDPE duct (Comms)
- B1 Ø160mm HDPE duct (Power)
- C1 Ø125mm HDPE duct (ECC)
- D1 Ø125mm HDPE duct (Bonding Leads)

Section A-A
Scale 1:20



- A2 Ø125mm HDPE duct (Comms)
- B1 Ø160mm HDPE duct (Power)
- C1 Ø125mm HDPE duct (ECC)

Section B-B
Scale 1:20



Typical Plan of Joint Bay in Road
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. 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.
5. The length of bonding lead length shall in no case exceed 10m. No joints in bonding cable are permitted.
6. All earthing shall be in accordance with ENA ER C55 and EirGrid/ESBN functional specification.
7. Link box chambers to be positioned at the edge or off road.
8. Link box chambers and C2 comm chambers final positioning to be agreed with EirGrid prior
9. to installation.
10. The depth from ground/road level to 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

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Cahermurphy West Wind Farm 110kV Grid Connection

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CONSULTANTS

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NOTES: -

- This drawing is to be read in conjunction with relevant drawings, specifications and reports.
- Dimensions are in millimeters, unless noted otherwise.
- Drawings are not to be scaled use figured dimensions only.
- The compaction of backfill material around the cables shall be carried out by hand.
- The contractor shall provide test certificates confirming that the thermal resistivity of the thermal sand is maximum 1.k.m/W.

LEGEND: -

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P1	12.12.25	Issued for Planning
N1	03.10.25	Issued For Information

PROJECT NUMBER

05-935

SHEET TITLE

Joint Bay-
General Arrangement

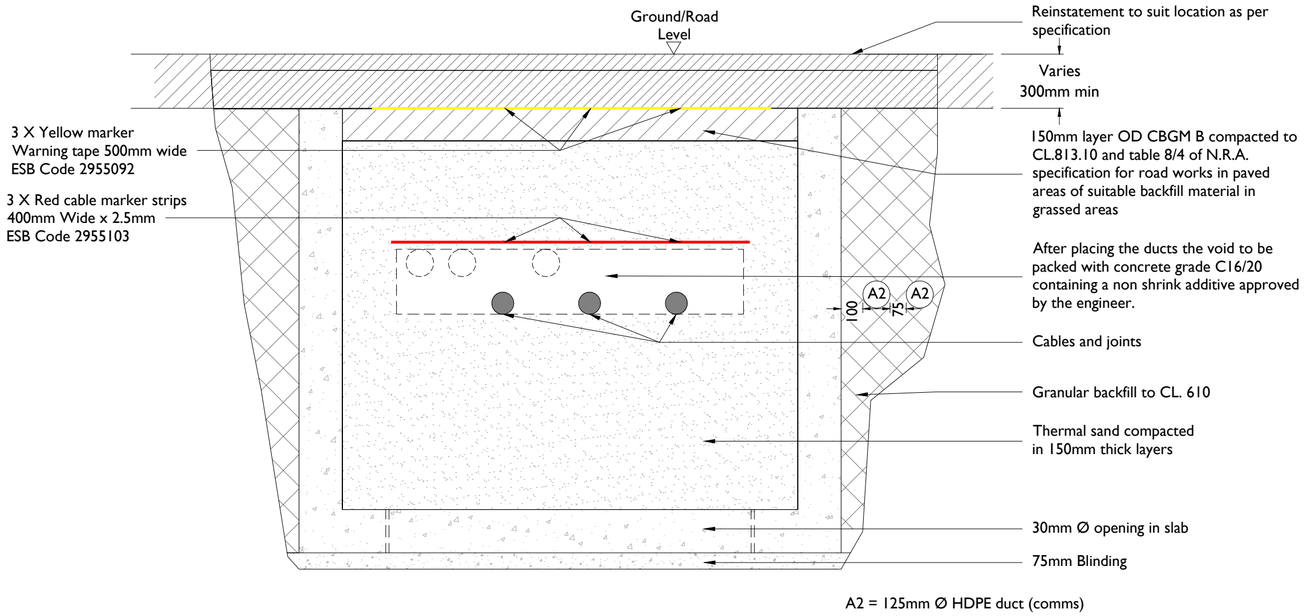
SHEET NUMBER

05935-DR-272

Project Management Initials: Designer: DMB Checked: POS Approved: DB

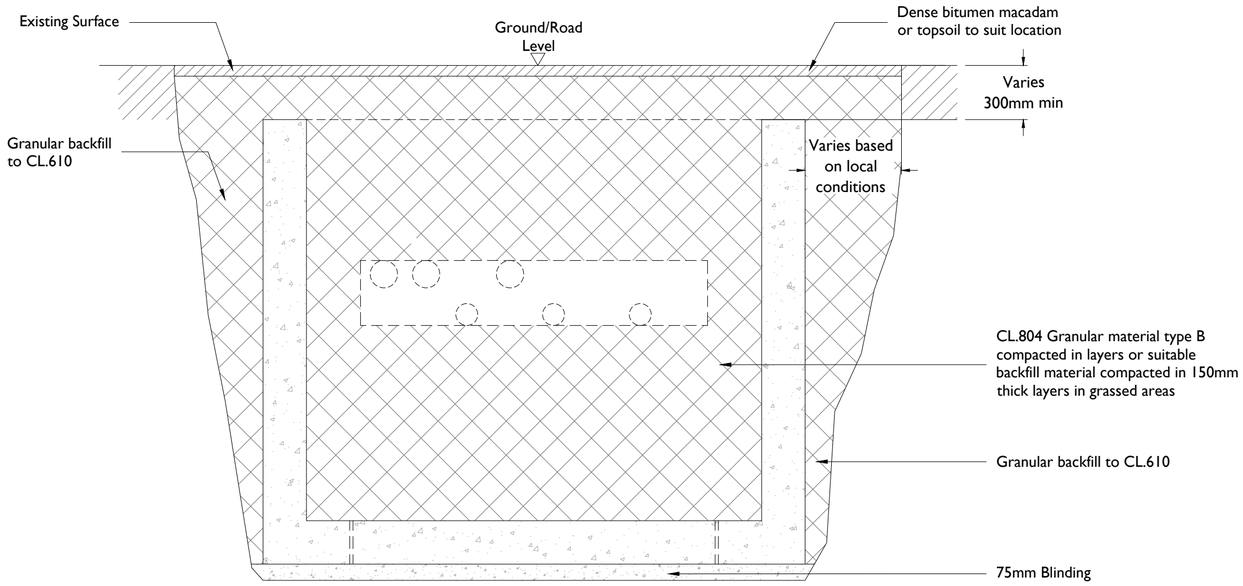
ISO A2 420mm x 594mm

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



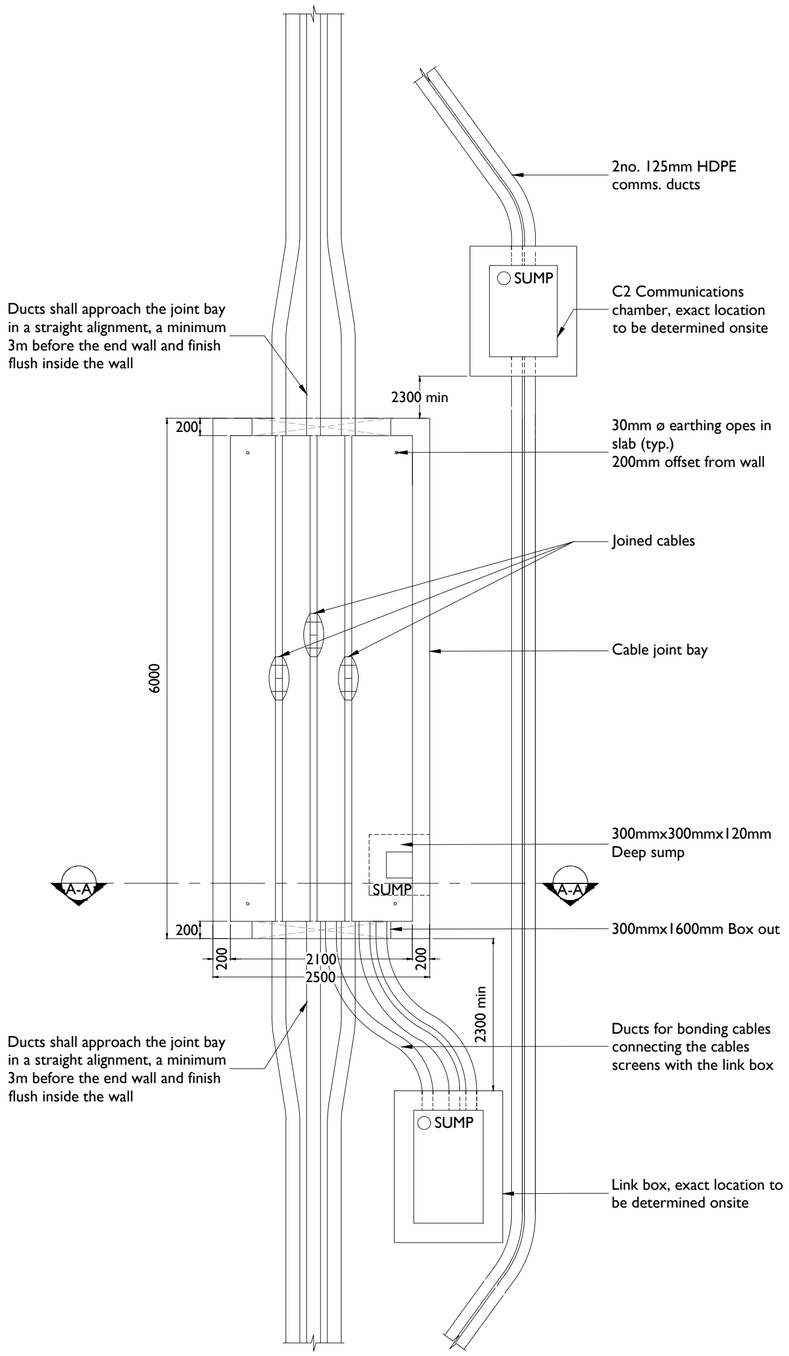
Section A-A Permanent Reinstatement

Scale 1:20



Section A-A Temporary Reinstatement

Scale 1:20



Typical Plan of Joint Bay in Road

Scale 1:50

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PROJECT

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NOTES: -

- This drawing is to be read in conjunction with relevant drawings, specifications and reports.
- Dimensions are in millimeters, unless noted otherwise.
- Drawings are not to be scaled use figured dimensions only.
- The compaction of backfill material around the cables shall be carried out by hand.
- The contractor shall provide test certificates confirming that the thermal resistivity of the thermal sand is maximum 1.k.m/W.

LEGEND: -

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P1	12.12.25	Issued for Planning
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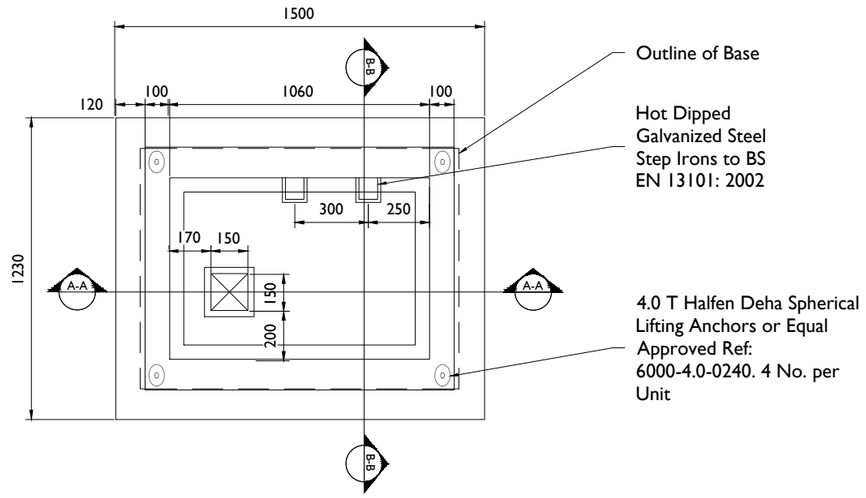
SHEET TITLE

Joint Bay-Reinstatement

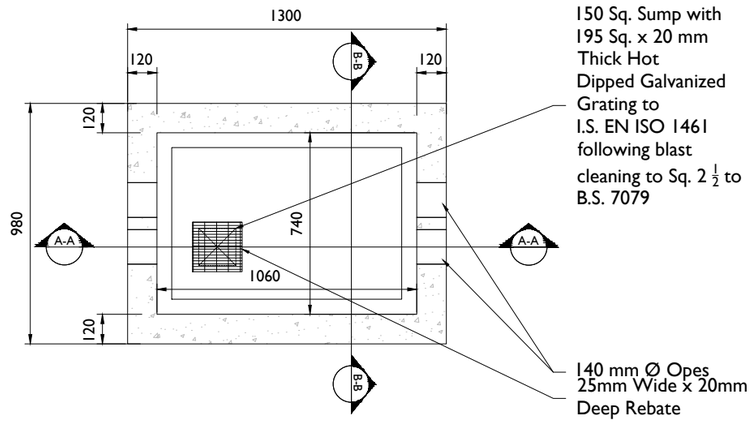
SHEET NUMBER

05935-DR-273

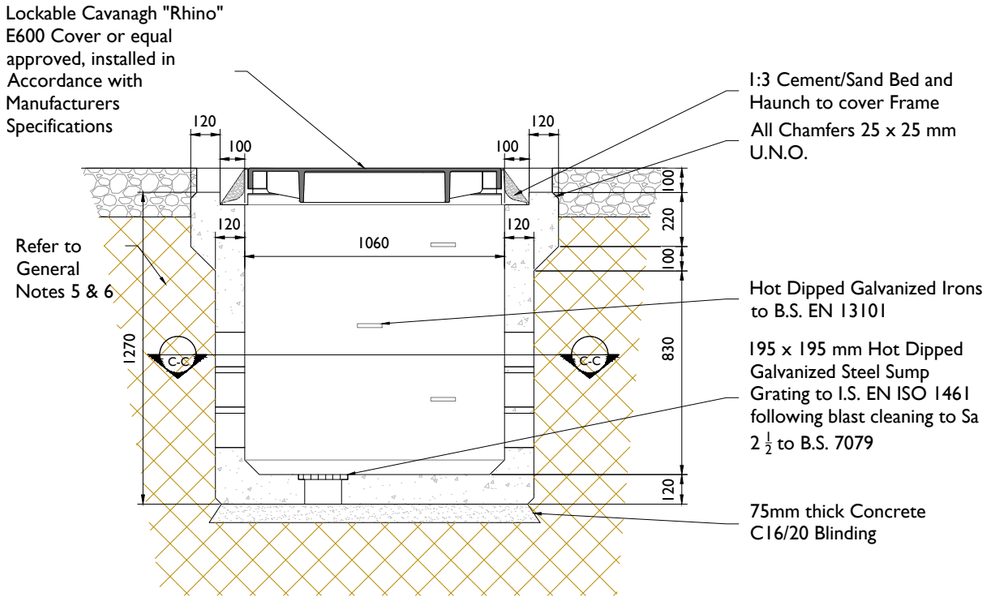
Project Management Initials: Designer: DMB Checked: POS Approved: DB



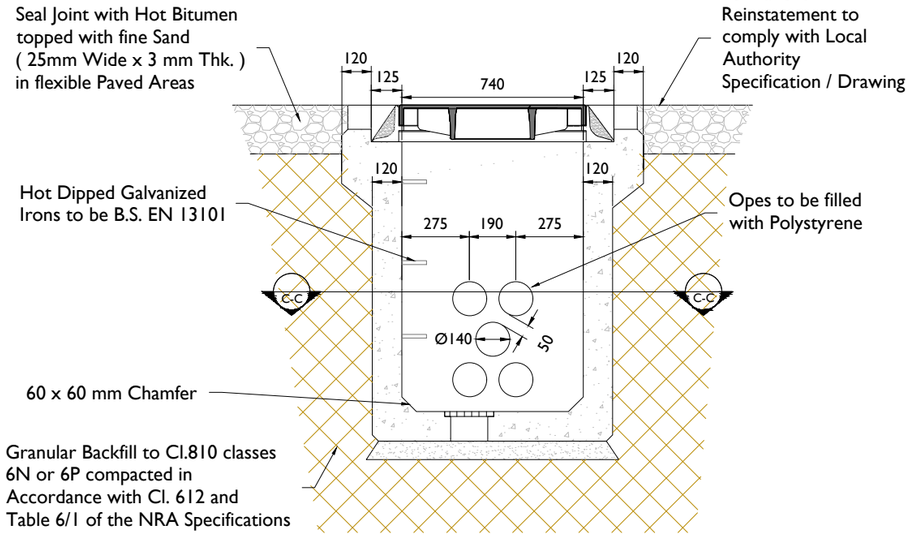
C2 Chamber - Typical Plan
Scale 1:25



C2 Chamber - Plan Section C-C
Scale 1:25



C2 Chamber - Section A-A
Scale 1:25



C2 Chamber - Section B-B
Scale 1:25

General Notes:

1. This drawing is to be read in conjunction with ESB drawing PE424-D7001-004-001 and all relevant drawings, specifications and reports.
2. Dimensions are in millimeters, unless noted otherwise.
3. Drawings are not to be scaled use figured dimensions only.
4. The contractor shall check all dimensions prior to construction, any discrepancies to be reported to the civil site supervisor immediately.
5. Temporary supports to the sides of the excavation may be required dependant on subsoil, method of work and site constraints, and are to be agreed with the ESB Engineer prior to commencement of excavation. side slopes of an unsupported excavation dependant upon subsoil and shall be agreed with ESB Engineer.
6. Main contractor to provide a method statement and risk assessment for the excavation works for the ESB Engineer to review.
7. The construction, as shown, is applicable only where the subsoil at formation level exceeds 100kN/m² Bearing capacity.
8. Suitability of the cover and chamber to be assessed by the project engineer in circumstances of high traffic loading in accordance with the recommendations of NRA Design manual for roads and bridges addendum to HA 104/09.
9. Cover and frame to B.S. EN 124.
10. Cover shall have approved badged marking incorporated to the approval of the ESB Engineer.
11. All materials and workmanship to be in accordance with the NRA Specification for roadworks.
12. Reinstatement to comply with requirements of the relevant local authority/asset owner.
13. Reinforced concrete to be a minimum grade C32/40, sulphate resisting cement to be used where aggressive soil conditions apply, Refer to table 6.1 of B.S. 8110.
14. Final Position of C2 Chambers shall be agreed with ESB.

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PROJECT
Cahermurphy West Wind Farm
110kV Grid Connection

PROJECT NUMBER
05-935

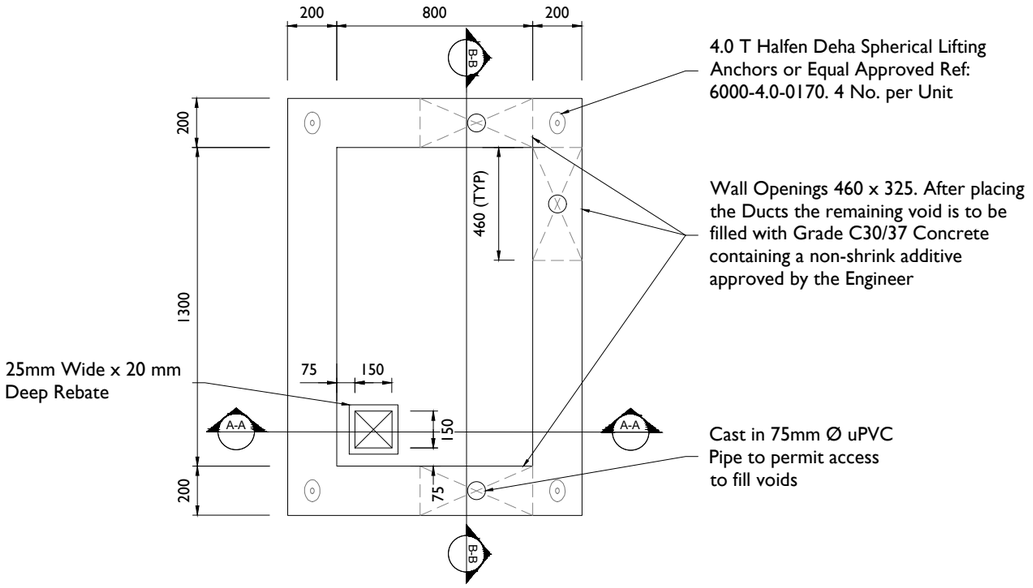
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05935-DR-274

SHEET TITLE
C2 Chamber Details

DRAWING STATUS
For Information

ISSUE/REVISION

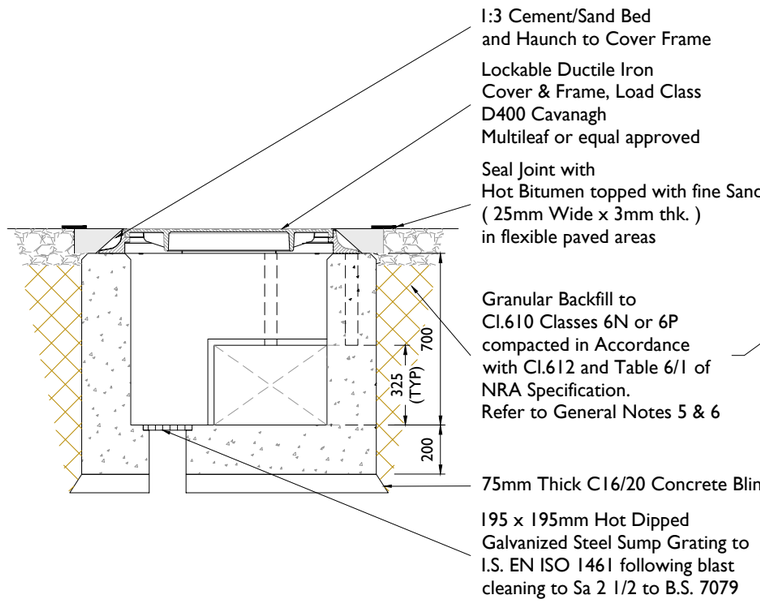
I/R	DATE	DESCRIPTION
P1	12.12.25	Issued for Planning
N1	03.10.25	Issued for Information



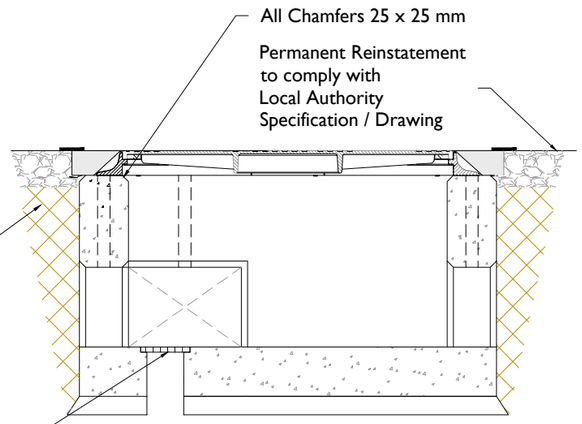
Link Box Chamber - Typical Plan
Scale 1:25

GENERAL NOTES:

1. This drawing is to be read in conjunction with with ESB drawing PE424-D7001-005-001 and all relevant drawings, specifications and reports.
2. Dimensions are in millimeters, unless noted otherwise.
3. Drawings are not to be scaled use figured dimensions only.
4. The contractor shall check all dimensions prior to construction, any discrepancies to be reported to the civil site supervisor immediately.
5. Temporary supports to the sides of the excavation may be required dependant on subsoil, method of work and site constraints, and are to be agreed with the ESB Engineer prior to commencement of excavation. Side slopes of an unsupported excavation dependant upon subsoil and shall be agreed with ESB Engineer.
6. Main contractor to provide a method statement and risk assessment for the excavation works for the ESB Engineer to review.
7. The construction, as shown, is applicable only where the subsoil at formation level exceeds 100kN/m² Bearing capacity.
8. Suitability of the cover and chamber to be assessed by the project Engineer in circumstances of high traffic loading in accordance with the recommendations of NRA Design manual for roads and bridges addendum to HA 104/09.
9. Cover and frame to B.S. EN 124.
10. Cover shall have approved badged marking incorporated to the approval of the ESB Engineer.
11. All materials and workmanship to be in accordance with the NRA Specification for roadworks.
12. Reinstatement to comply with requirements of the relevant local authority/asset owner.
13. Reinforced concrete to be a minimum grade C32/40, sulphate resisting cement to be used where aggressive soil conditions apply, refer to table 6.1 OF B.S. 8110.
14. Final position of link box to be agreed with ESB prior to installation.



Link Box Chamber - Section A-A
Scale 1:25



Link Box Chamber - Section B-B
Scale 1:25

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PROJECT
Cahermurphy West Wind Farm
110kV Grid Connection

PROJECT NUMBER
05-935

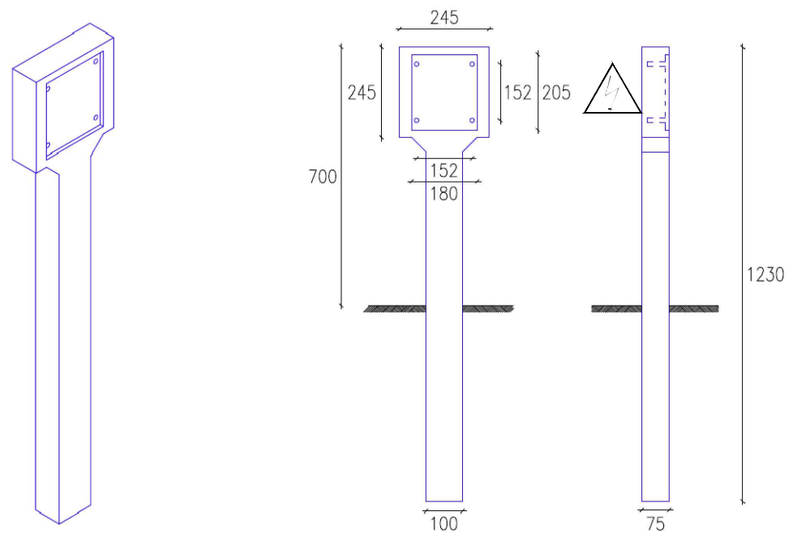
SHEET NUMBER
05935-DR-275

SHEET TITLE
Typical Link Box Chamber
Details

DRAWING STATUS
For Information

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P1	12.12.25	Issued for Planning
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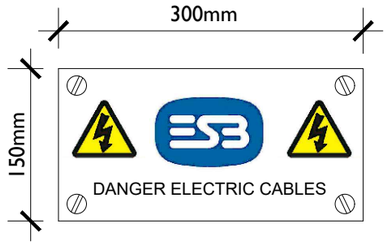
Note:

Marker posts will be used on non-roadway routes to delineate the duct route and joint bay positions.
Corrosion proof aluminium triangular danger sign, with 700mm base, and with centred lightning symbol, on engineering grade fluorescent yellow background shall be installed in adequately sized concrete foundations. Marker posts shall also be placed in the event that burial depth is not to standard.



Typical ESB Marker Post Detail

SCALE: NTS



Note:

Metallic plate; 300mm x150mm; 4 screw-holes. Surface Marker Plates to be placed on footpaths/fences, bridges, walkways etc., where cable depth is unavoidably shallow.



Typical Surface Marker Plate

Typical ESB Marker Plate Detail

SCALE: NTS

Notes:

- This design is subject to ESB approval and should not be used for construction.
- This drawing is to be read in conjunction with relevant drawings, specifications and reports.
- Dimensions are in millimeters, unless noted otherwise.
- Drawings are not to be scaled. Use figured dimensions only.

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PROJECT NUMBER
05-935

SHEET NUMBER
05935-DR-276

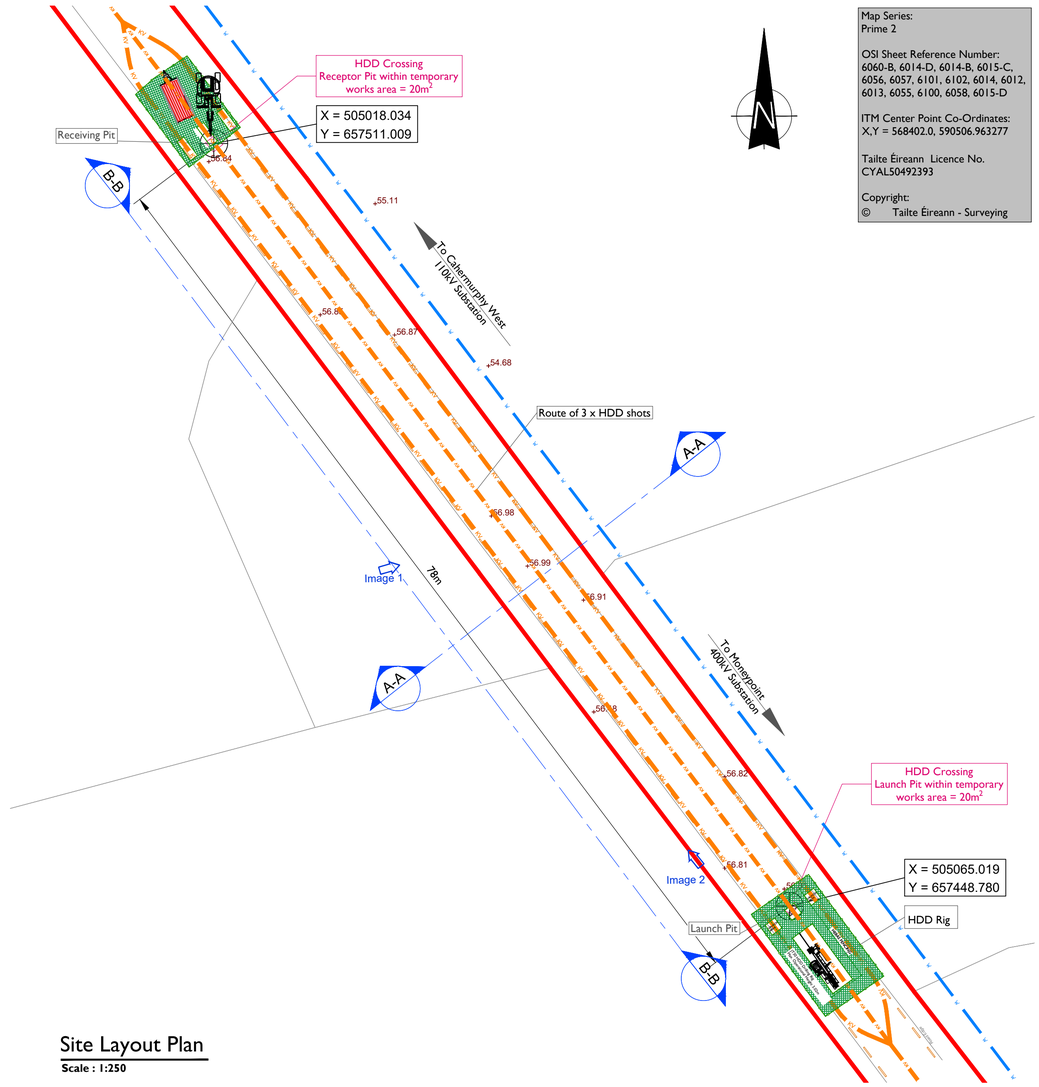
SHEET TITLE
UG Cable Marker Post Detail

DRAWING STATUS
For Information

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P1	12.12.25	Issued for Planning
N1	03.10.25	For Information

ISO A1 594mm x 841mm



Map Series:
Prime 2

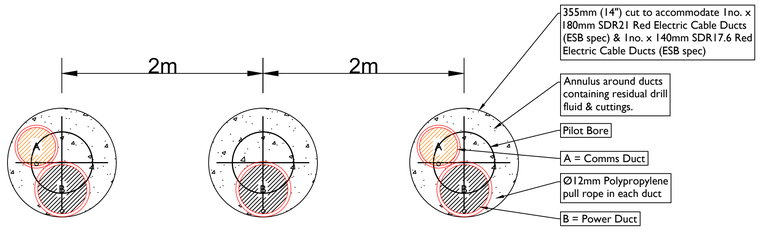
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ITM Center Point Co-Ordinates:
X,Y = 568402.0, 590506.963277

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Site Layout Plan
Scale : 1:250



Drill Shot Section
Scale : 1:10

HDD Schedule

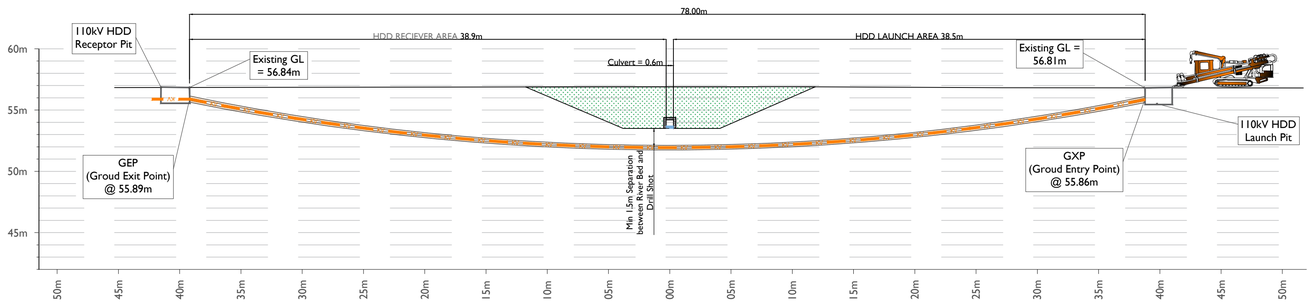
110kV	Circuit
	3 x 180mm SDR 21 Red Electric Ducts 2 x 140mm SDR 17.6 Red Electric Ducts
Entry (GEP) Co-Ordinates	X = 505065.019, Y = 657448.755
Exit (GXP) Co-Ordinates	X = 505018.034, Y = 657511.01
HDD Length	• Horizontal Distance - 78.00m • Curve Distance - 78.5m
All HDD ducts to comply with ESB Specification	



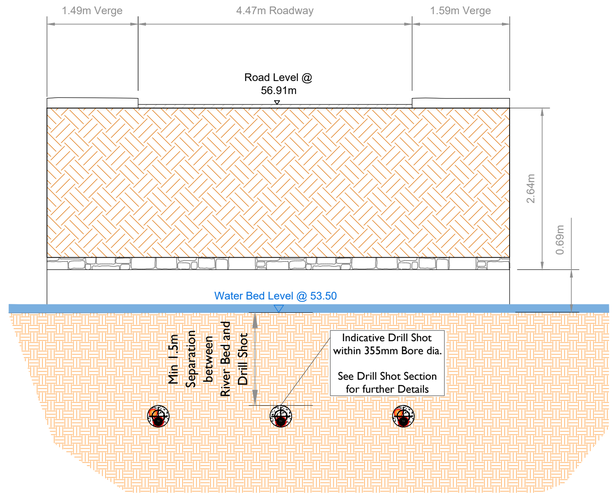
Image 1



Image 2



Section B - B
Scale : 1:250



Section A - A
Scale : 1:50

Project Management Initials: Designer: EM Checked: DB Approved: DBro

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PROJECT

Cahermurphy West Wind Farm 110kV Grid Connection

CLIENT

FuturEnergy Ireland

CONSULTANTS

MKO

NOTES: -

- Bridge crossing designs will be submitted to Clare Co. Council for review.
- Proposed designs are subject to ESB design approval and should not be used for construction.

LEGEND: -

Proposed 110kV Grid Connection
Total length of UGC Route - 25.005km
Red Line Planning Boundary
Irish Water Infrastructure shown thus

ISSUE/REVISION

P1	12.12.25	Issued for Planning
N1	03.10.25	Issued for Information
I/R	DATE	DESCRIPTION

PROJECT NUMBER

05-935

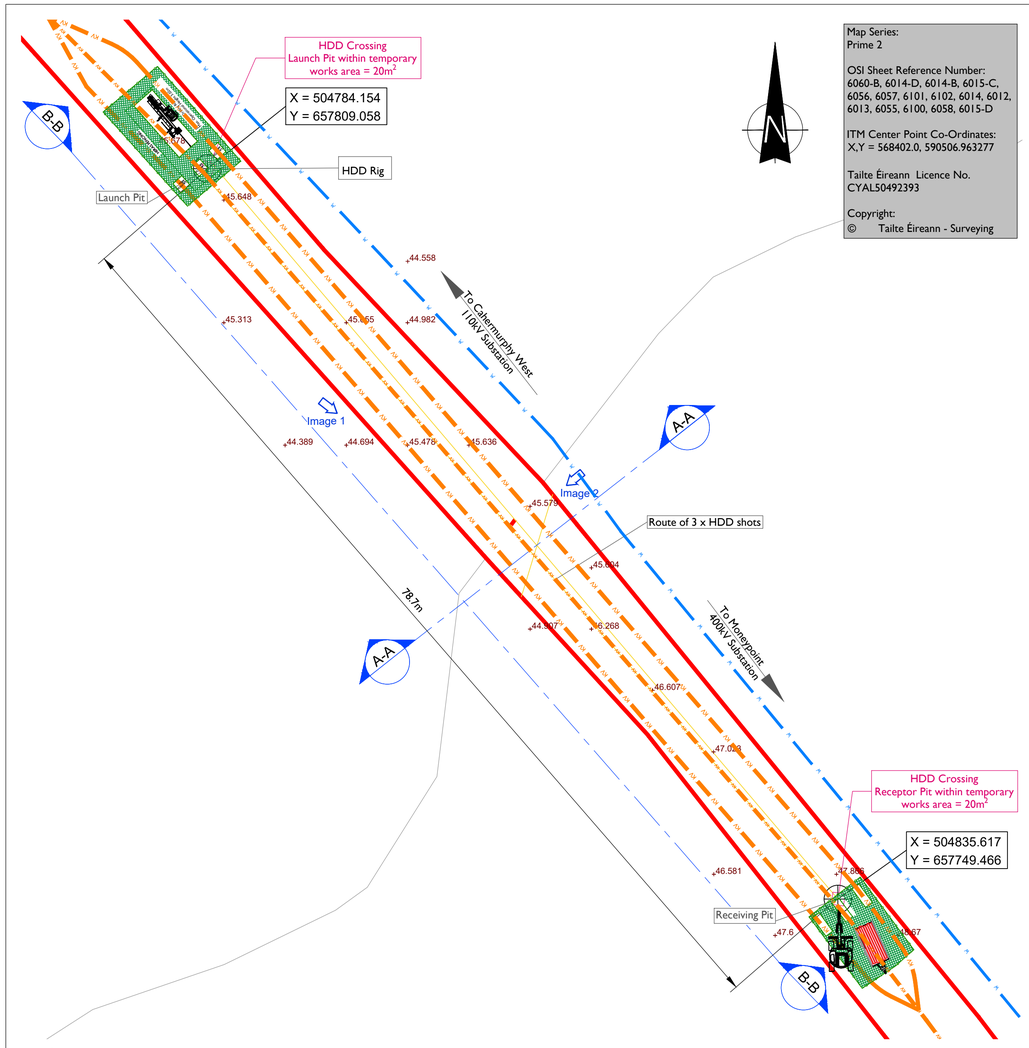
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HDD 1 Bridge 1
Proposed Crossing Details

SHEET NUMBER

05935-DR-280

ISO A1 594mm x 841mm



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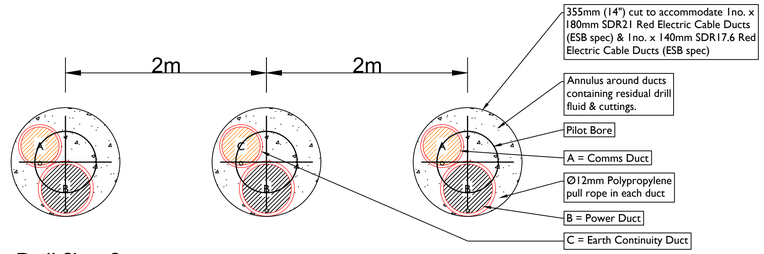
OSI Sheet Reference Number:
6060-B, 6014-D, 6014-B, 6015-C, 6056, 6057, 6101, 6102, 6014, 6012, 6013, 6055, 6100, 6058, 6015-D

ITM Center Point Co-Ordinates:
X,Y = 568402.0, 590506.963277

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Site Layout Plan
Scale : 1:250



Drill Shot Section
Scale : 1:10

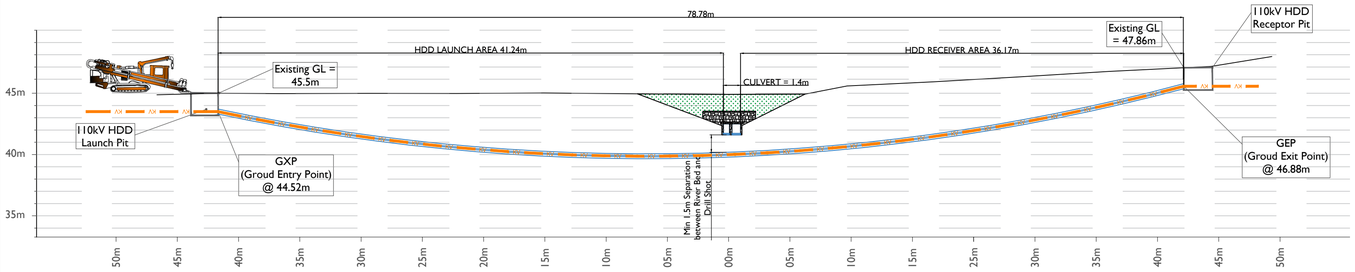
HDD Schedule	
110kV	Circuit
	3 x 180mm SDR 21 Red Electric Ducts 3 x 140mm SDR 17.6 Red Electric Ducts
Entry (GEP) Co-Ordinates	X = 504784.154, Y = 657809.058
Exit (GXP) Co-Ordinates	X = 504835.617, Y = 657749.466
HDD Length	• Horizontal Distance - 78.00m • Curve Distance - 78.5m
All HDD ducts to comply with ESB Specification	



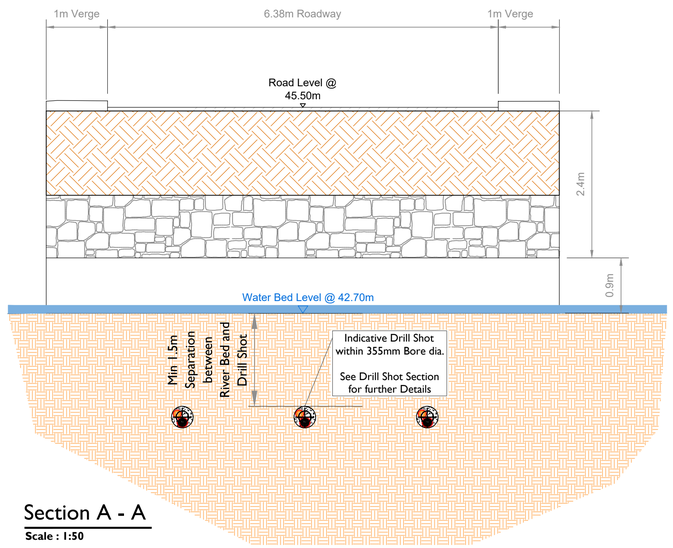
Image 1



Image 2



Section B - B
Scale : 1:250



Section A - A
Scale : 1:50

Project Management Initials:
Designer: EM
Checked: DB
Approved: DBro

tli GROUP

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PROJECT

Cahermurphy West Wind Farm 110kV Grid Connection

CLIENT

FuturEnergy Ireland

CONSULTANTS

MKO

NOTES: -

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LEGEND: -

Proposed 110kV Grid Connection
Total length of UGC Route - 25.005km
Red Line Planning Boundary
Irish Water Infrastructure shown thus

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PROJECT NUMBER

05-935

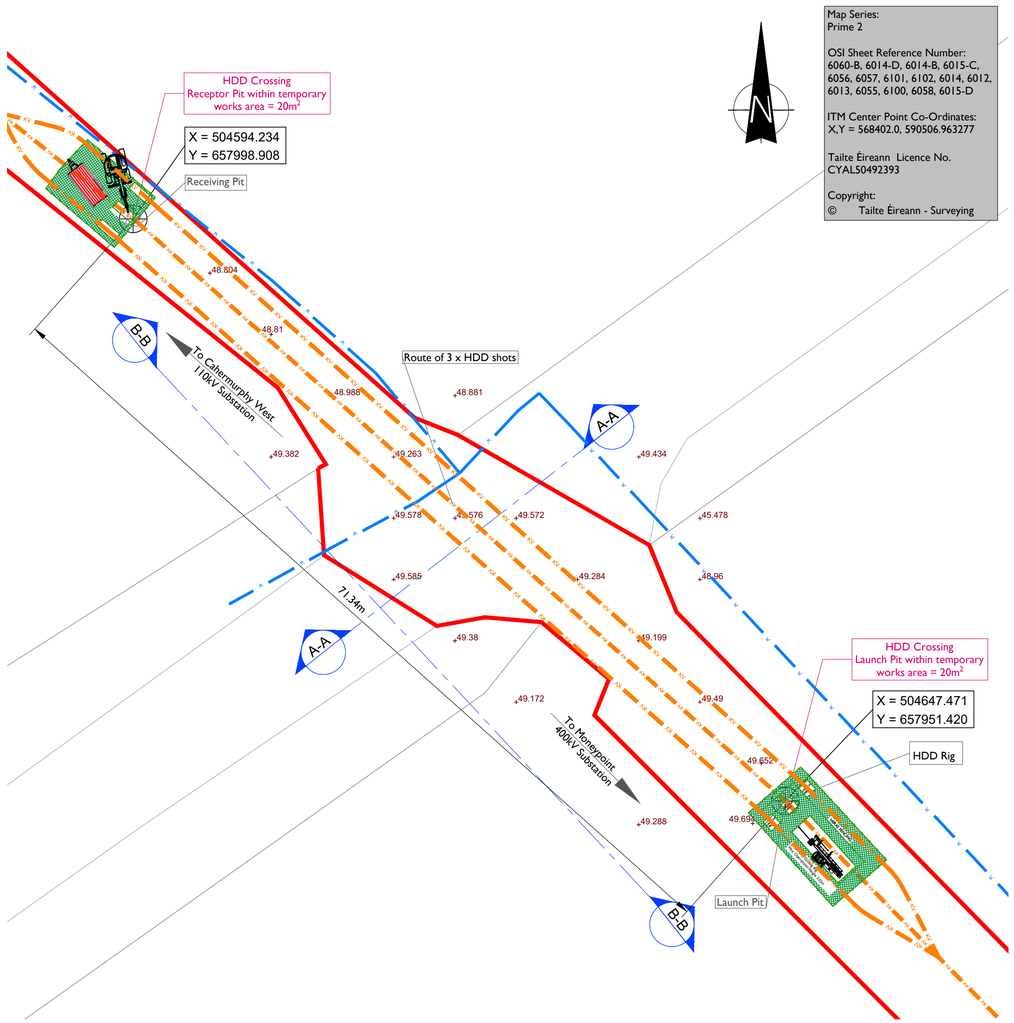
SHEET TITLE

HDD 2 - Culvert 6
Proposed Crossing Details

SHEET NUMBER

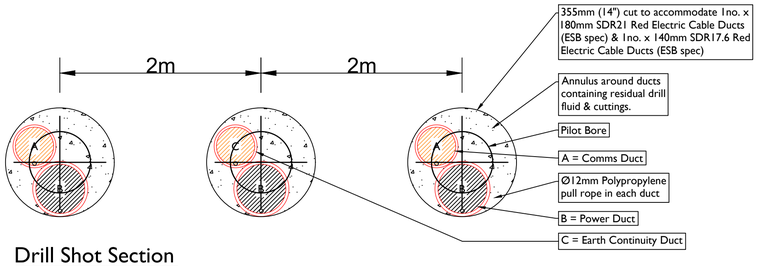
05935-DR-281

ISO A1 594mm x 841mm



Site Layout Plan

Scale : 1:250

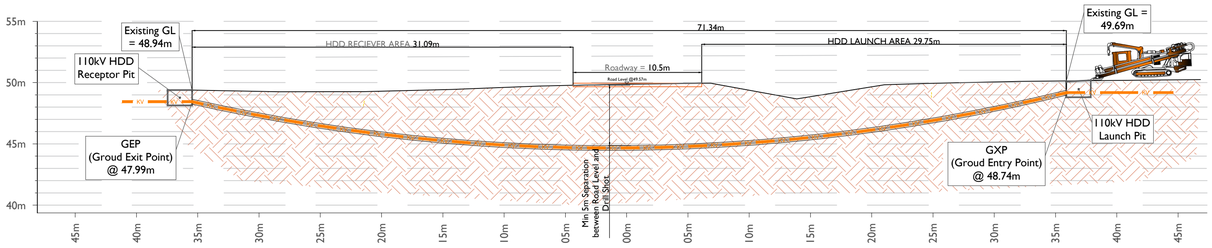


Drill Shot Section

Scale : 1:10

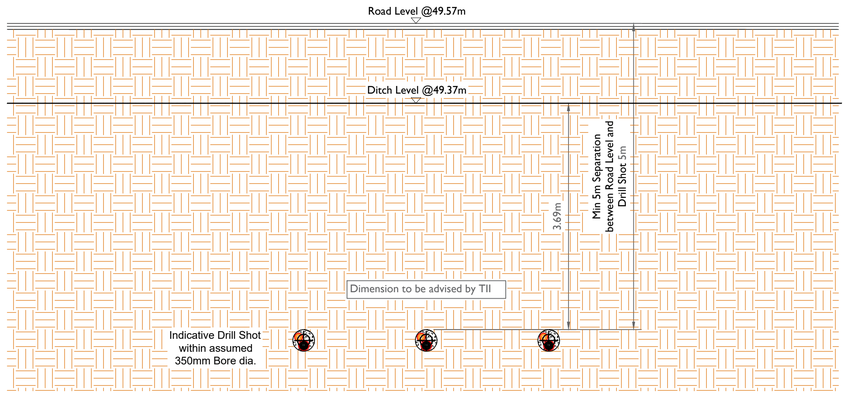
HDD Schedule

110kV	Circuit
	3 x 180mm SDR 21 Red Electric Ducts 3 x 140mm SDR 17.6 Red Electric Ducts
Entry (GEP) Co-Ordinates	X = 504647,471 Y = 657951.420
Exit (GXP) Co-Ordinates	X = 504594,234 Y = 657998.908
HDD Length	• Horizontal Distance - 71.34m • Curve Distance - 72.02m
All HDD ducts to comply with ESB Specification	



Section B - B

Scale : 1:250



Section A - A

Scale : 1:50

Approved: DBro
Checked: DB
Designer: EM
Project Management Initials:

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PROJECT

Cahermurphy West Wind Farm 110kV Grid Connection

CLIENT

FuturEnergy Ireland

CONSULTANTS

MKO

NOTES: -

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- Proposed designs are subject to ESB design approval and should not be used for construction.

LEGEND: -

Proposed 110kV Grid Connection
Total length of UGC Route - 25.005km

Red Line Planning Boundary

Irish Water Infrastructure shown thus

ISSUE/REVISION

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PROJECT NUMBER

05-935

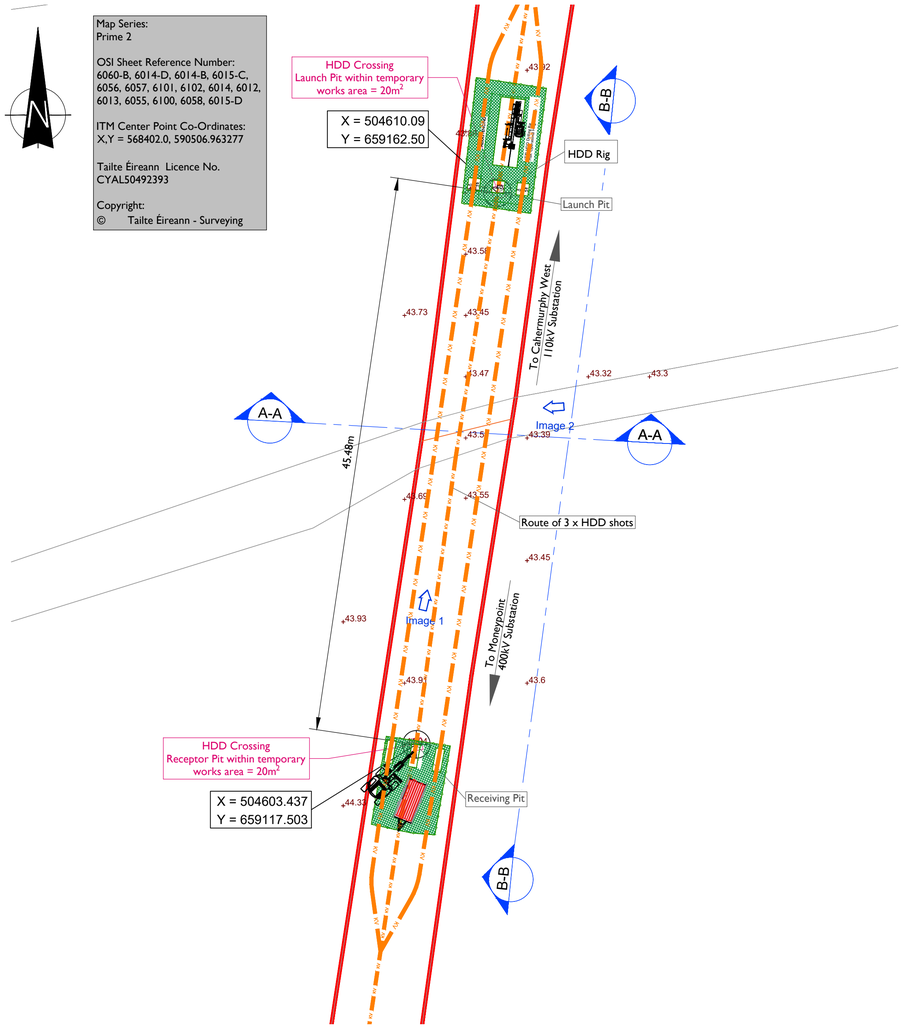
SHEET TITLE

HDD 3 - National Road
Proposed Crossing Details

SHEET NUMBER

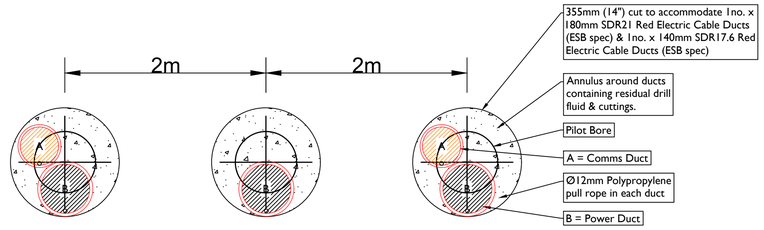
05935-DR-282

ISO A1 594mm x 841mm



Site Layout Plan

Scale : 1:250



Drill Shot Section

Scale : 1:10

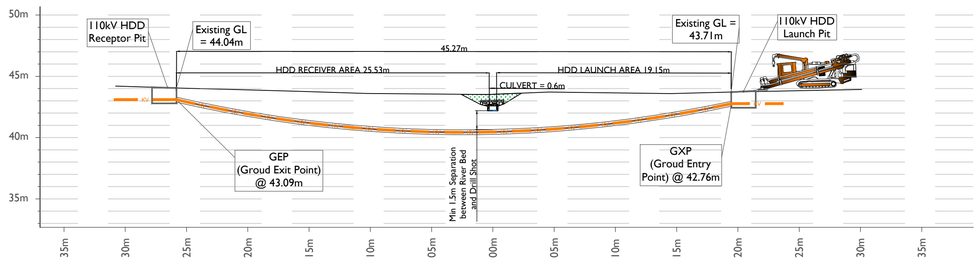
HDD Schedule	
110kV	Circuit
	3 x 180mm SDR 21 Red Electric Ducts 2 x 140mm SDR 17.6 Red Electric Ducts
Entry (GEP) Co-Ordinates	X = 504610.09, Y = 659162.50
Exit (GXP) Co-Ordinates	X = 504603.43, Y = 659117.50
HDD Length	• Horizontal Distance - 78.00m • Curve Distance - 78.5m
All HDD ducts to comply with ESB Specification	



Image 1

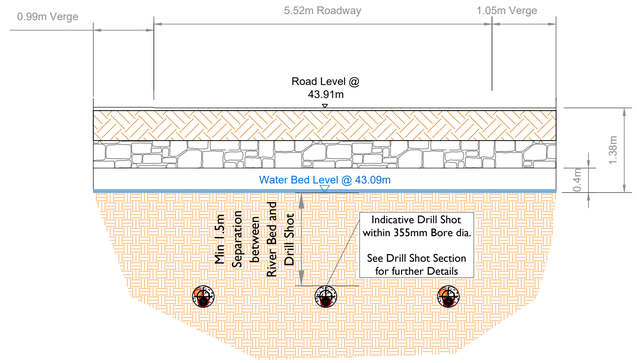


Image 2



Section B - B

Scale : 1:250



Section A - A

Scale : 1:50

tli GROUP

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PROJECT

Cahermurphy West Wind Farm 110kV Grid Connection

CLIENT

FuturEnergy Ireland

CONSULTANTS

MKO

NOTES: -

- Bridge crossing designs will be submitted to Clare Co. Council for review.
- Proposed designs are subject to ESB design approval and should not be used for construction.

LEGEND: -

Proposed 110kV Grid Connection
Total length of UGC Route - 25.005km

Red Line Planning Boundary

ISSUE/REVISION

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05-935

SHEET TITLE

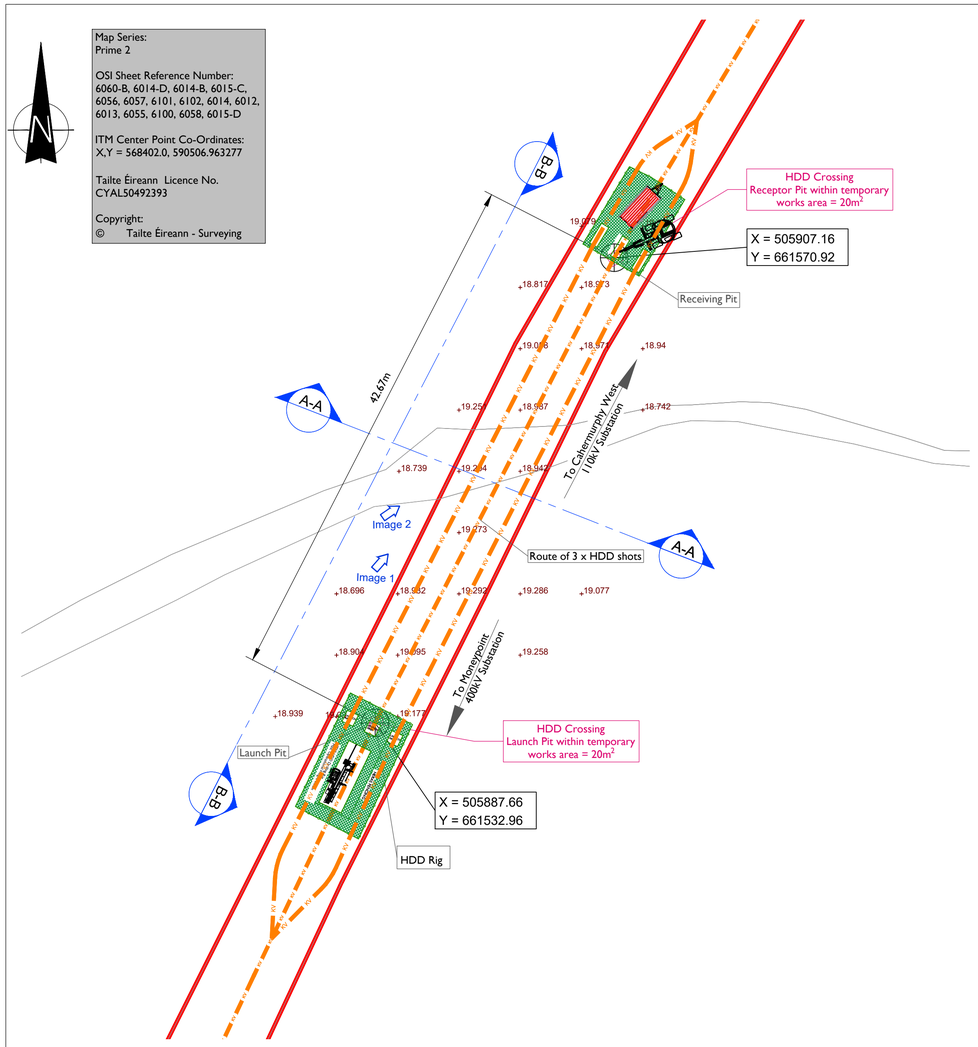
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Proposed Crossing Details

SHEET NUMBER

05935-DR-283

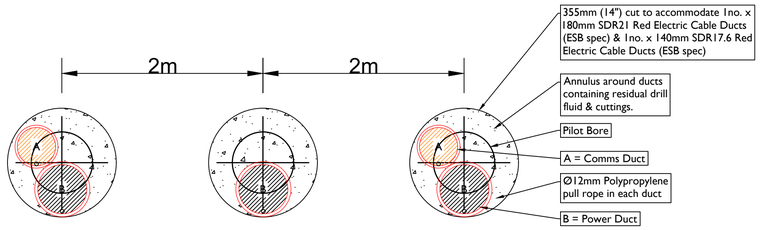
Project Management Initials: Designer: EM Checked: DB Approved: DBro

ISO A1 594mm x 841mm



Site Layout Plan

Scale : 1:250



Drill Shot Section

Scale : 1:10

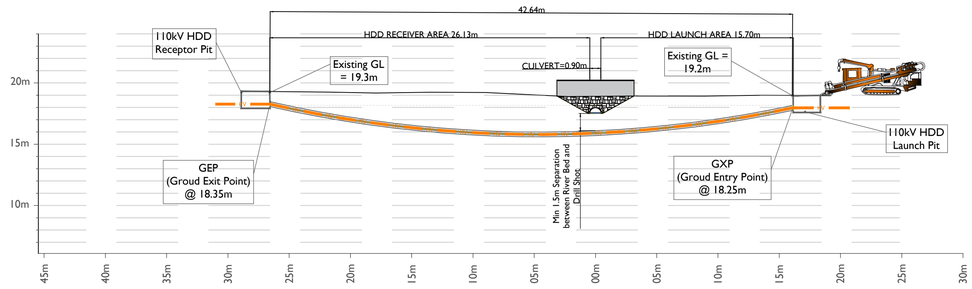
HDD Schedule	
110kV	Circuit
	3 x 180mm SDR 21 Red Electric Ducts 2 x 140mm SDR 17.6 Red Electric Ducts
Entry (GEP) Co-Ordinates	X = 505887.66, Y = 661532.96
Exit (GXP) Co-Ordinates	X = 505907.16, Y = 661570.92
HDD Length	• Horizontal Distance - 42.64m • Curve Distance - 43.01m
All HDD ducts to comply with ESB Specification	



Image 1

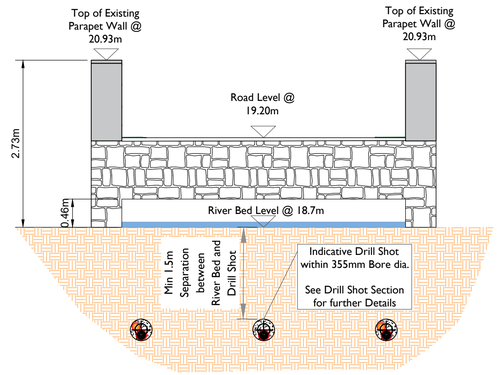


Image 2



Section B - B

Scale : 1:250



Section A - A

Scale : 1:50

Project Management Initials: Designer: EM Checked: DB Approved: DBro

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PROJECT

Cahermurphy West Wind Farm 110kV Grid Connection

CLIENT

FuturEnergy Ireland

CONSULTANTS

MKO

NOTES: -

- Bridge crossing designs will be submitted to Clare Co. Council for review.
- Proposed designs are subject to ESB design approval and should not be used for construction.

LEGEND: -

Proposed 110kV Grid Connection
Total length of UGC Route - 25.005km

Red Line Planning Boundary

ISSUE/REVISION

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PROJECT NUMBER

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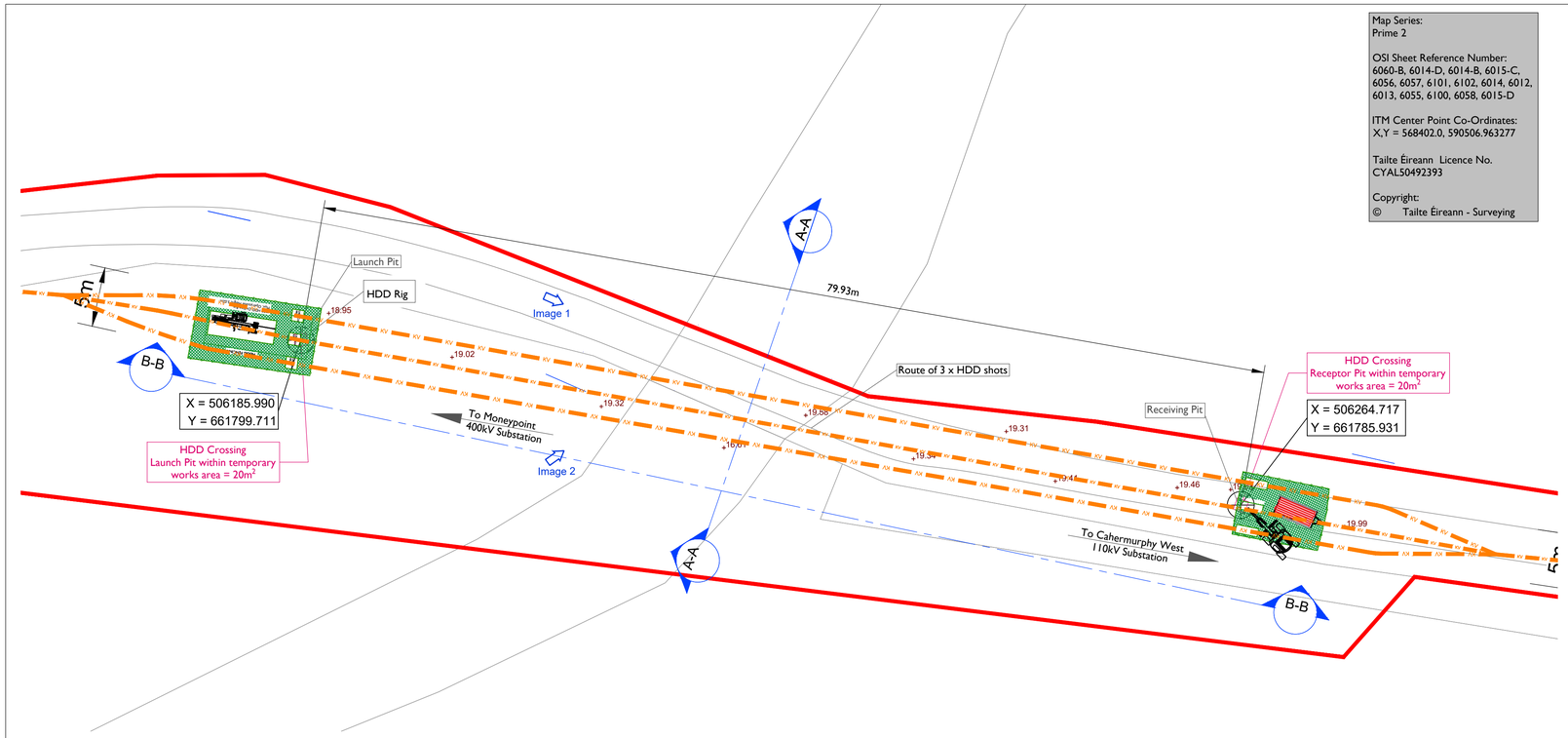
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HDD 5 Bridge 12
Proposed Crossing Details

SHEET NUMBER

05935-DR-284

ISO A1 594mm x 841mm



Map Series:
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OSI Sheet Reference Number:
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ITM Center Point Co-Ordinates:
X,Y = 568402.0, 590506.963277

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HDD Schedule

110kV	Circuit
	3 x 180mm SDR 21 Red Electric Ducts 2 x 140mm SDR 17.6 Red Electric Ducts
Entry (GEP) Co-Ordinates	X = 506185.990, Y = 661799.711
Exit (GXP) Co-Ordinates	X = 506264.717, Y = 661785.931
HDD Length	• Horizontal Distance - 79.87m • Curve Distance - 80.26m
All HDD ducts to comply with ESB Specification	

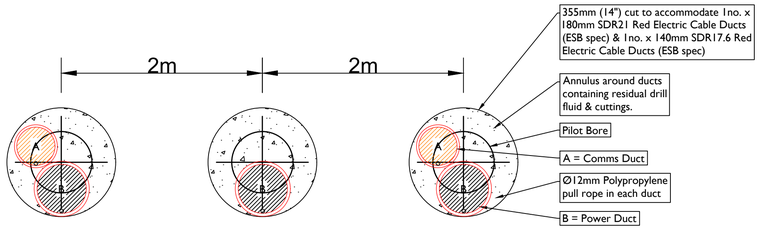
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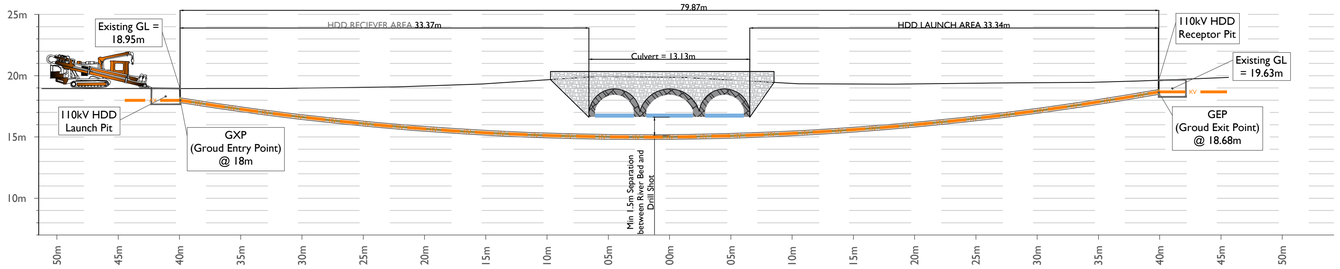
Image 1



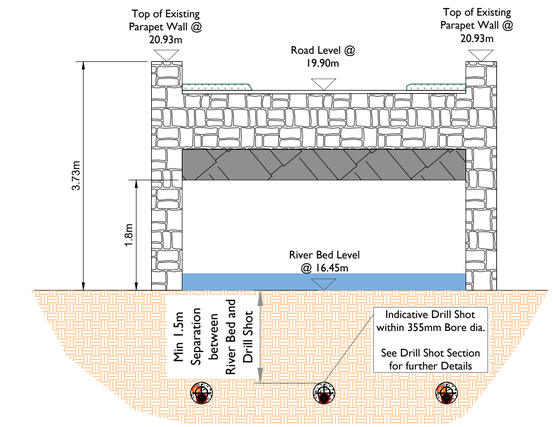
Image 2



Drill Shot Section
Scale : 1:10



Section B - B
Scale : 1:250



Section A - A
Scale : 1:50

Project Management Initials: Designer: EM Checked: DB Approved: DBro

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PROJECT

Cahermurphy West Wind Farm 110kV Grid Connection

CLIENT

FuturEnergy Ireland

CONSULTANTS

MKO

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LEGEND: -

Proposed 110kV Grid Connection
Total length of UGC Route - 25.005km

Red Line Planning Boundary

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P1	12.12.25	Issued for Planning
N1	03.10.25	Issued for Information

PROJECT NUMBER

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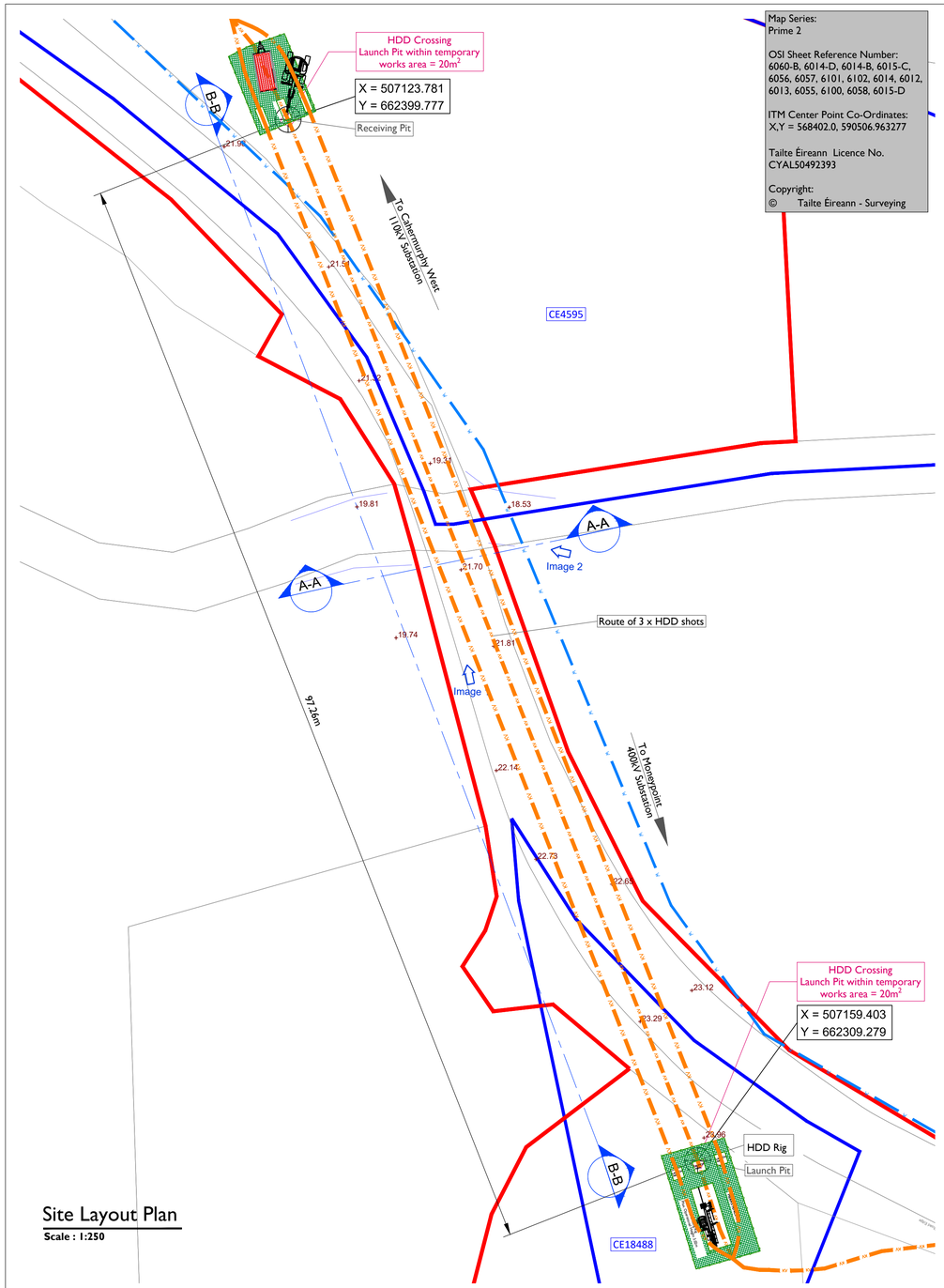
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HDD 6 Bridge 2
Proposed Crossing Details

SHEET NUMBER

05935-DR-285

ISO A1 594mm x 841mm



Site Layout Plan

Scale : 1:250

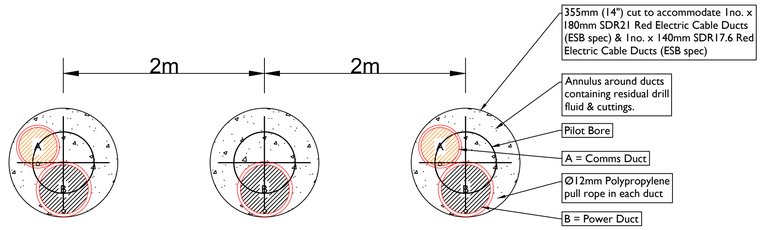
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OSI Sheet Reference Number:
6060-B, 6014-D, 6014-B, 6015-C, 6056, 6057, 6101, 6102, 6014, 6012, 6013, 6055, 6100, 6058, 6015-D

ITM Center Point Co-Ordinates:
X,Y = 568402.0, 590506.963277

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Drill Shot Section

Scale : 1:10

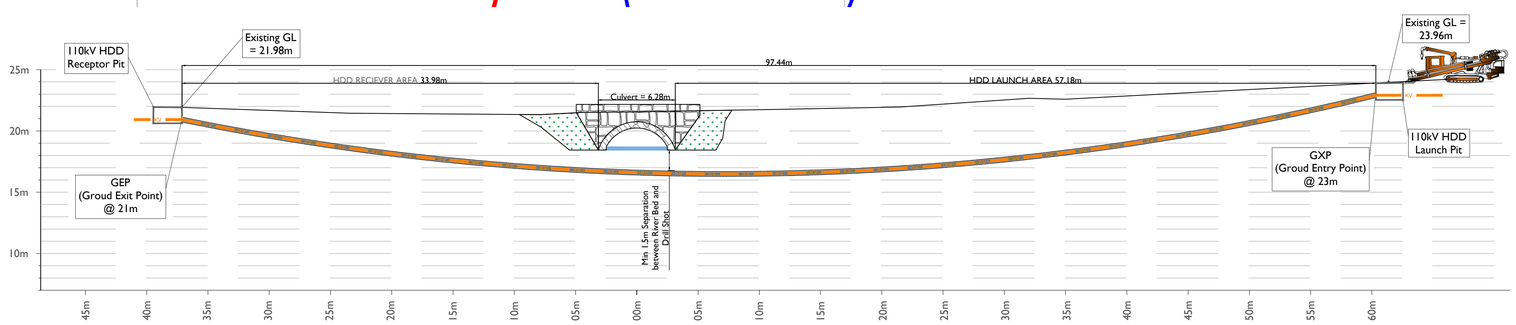


Image 1



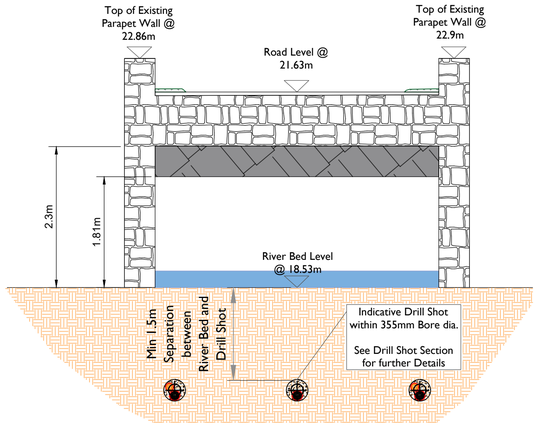
Image 2

HDD Schedule	
110kV	Circuit
	3 x 180mm SDR 21 Red Electric Ducts 2 x 140mm SDR 17.6 Red Electric Ducts
Entry (GEP) Co-Ordinates	X = 507159.403, Y = 662309.279
Exit (GXP) Co-Ordinates	X = 507123.78, Y = 662399.77
HDD Length	• Horizontal Distance - 78.00m • Curve Distance - 78.5m
All HDD ducts to comply with ESB Specification	



Section B - B

Scale : 1:250



Section A - A

Scale : 1:50

Project Management Initials: Designer: EM Checked: DB Approved: DBro

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PROJECT

Cahermurphy West Wind Farm 110kV Grid Connection

CLIENT

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CONSULTANTS

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LEGEND: -

Proposed 110kV Grid Connection
Total length of UGC Route - 25.005km
Red Line Planning Boundary
Landowner Folio Boundary
Irish Water Infrastructure shown thus

ISSUE/REVISION

P1	12.12.25	Issued for Planning
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I/R	DATE	DESCRIPTION

PROJECT NUMBER

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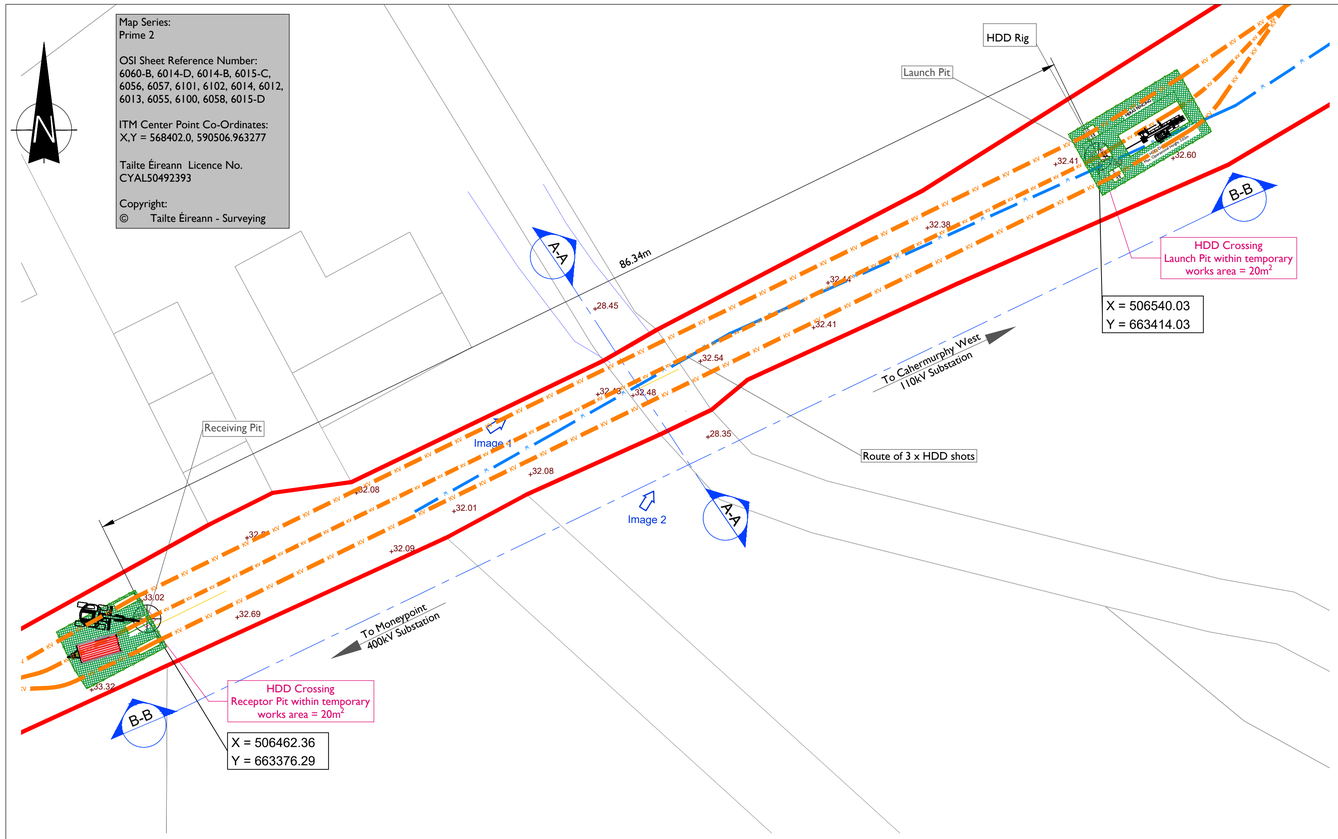
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HDD 7 - Bridge 3
Proposed Crossing Details

SHEET NUMBER

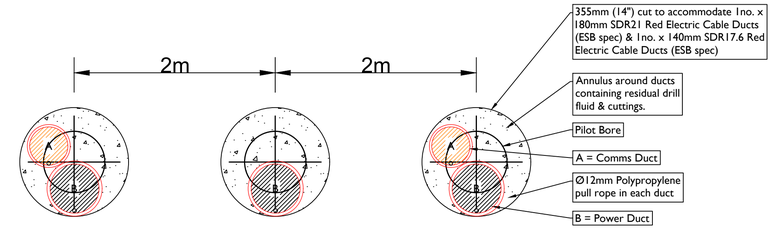
05935-DR-286

ISO A1 594mm x 841mm



Site Layout Plan

Scale : 1:250



Drill Shot Section

Scale : 1:10

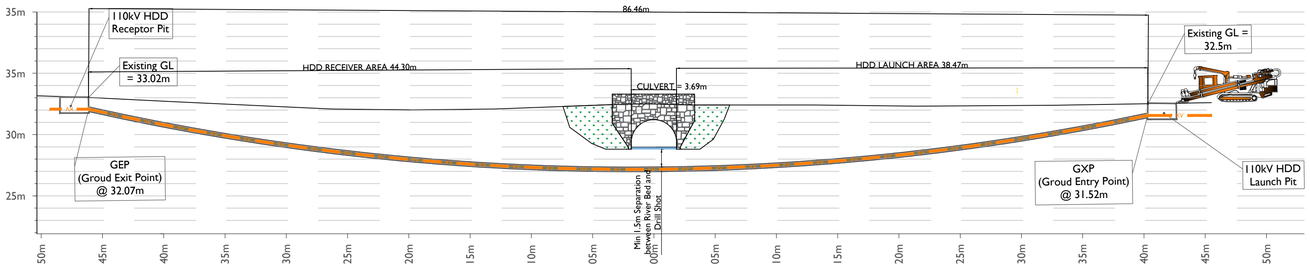
HDD Schedule	
110kV	Circuit
	3 x 180mm SDR 21 Red Electric Ducts 2 x 140mm SDR 17.6 Red Electric Ducts
Entry (GEP) Co-Ordinates	X = 506540.03, Y = 663414.03
Exit (GXP) Co-Ordinates	X = 506462.36, Y = 663376.29
HDD Length	• Horizontal Distance - 86.46m • Curve Distance - 87.1m
All HDD ducts to comply with ESB Specification	



Image 1

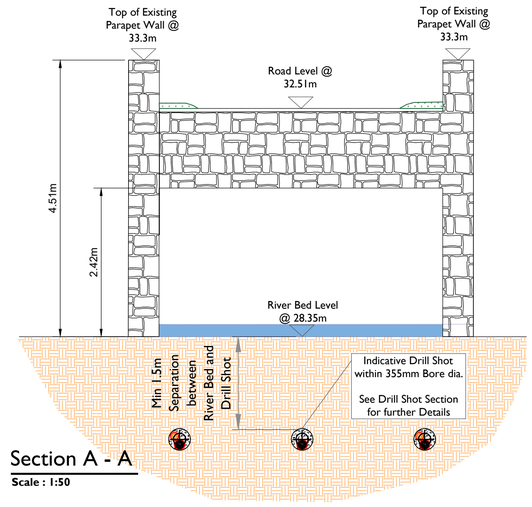


Image 2



Section B - B

Scale : 1:250



Section A - A

Scale : 1:50

Project Management Initials: Designer: EM Checked: DB Approved: DBro

tli GROUP

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PROJECT

Cahermurphy West Wind Farm 110kV Grid Connection

CLIENT

FuturEnergy Ireland

CONSULTANTS

MKO

NOTES: -

- Bridge crossing designs will be submitted to Clare Co. Council for review.
- Proposed designs are subject to ESB design approval and should not be used for construction.

LEGEND: -

Proposed 110kV Grid Connection
Total length of UGC Route - 25.005km

Red Line Planning Boundary

Irish Water Infrastructure shown thus

ISSUE/REVISION

P1	12.12.25	Issued for Planning
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I/R	DATE	DESCRIPTION

PROJECT NUMBER

05-935

SHEET TITLE

HDD 8 - Bridge 4
Proposed Crossing Details

SHEET NUMBER

05935-DR-287

ISO A1 594mm x 841mm

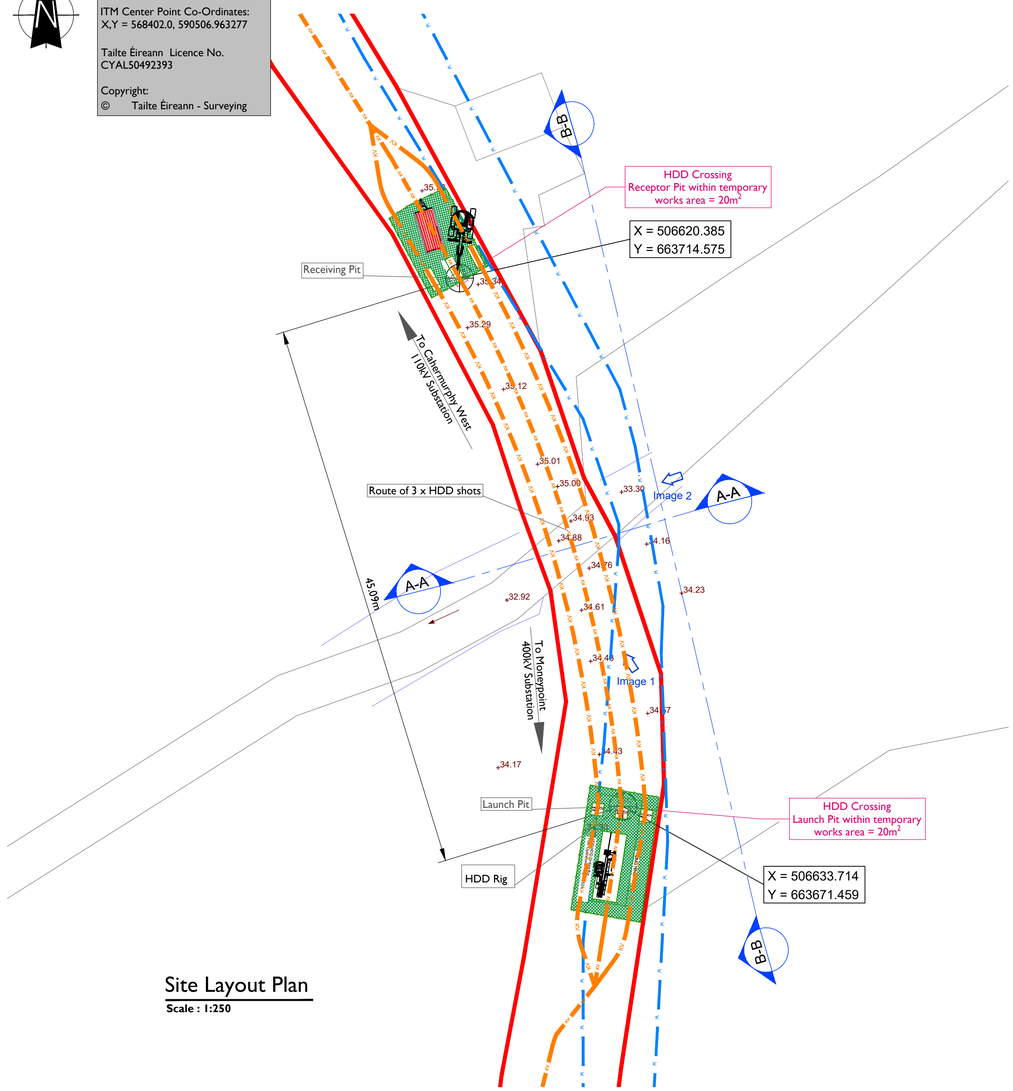
Map Series:
Prime 2

OSI Sheet Reference Number:
6060-B, 6014-D, 6014-B, 6015-C, 6056, 6057, 6101, 6102, 6014, 6012, 6013, 6055, 6100, 6058, 6015-D

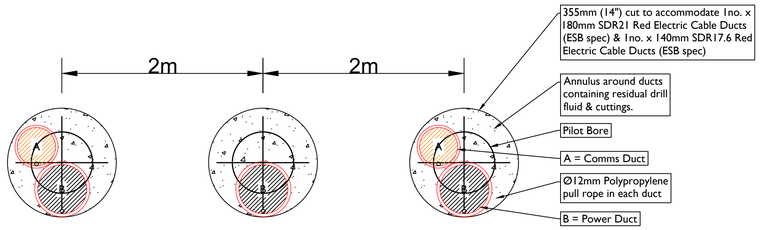
ITM Center Point Co-Ordinates:
X,Y = 568402.0, 590506.963277

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Site Layout Plan
Scale : 1:250



Drill Shot Section
Scale : 1:10

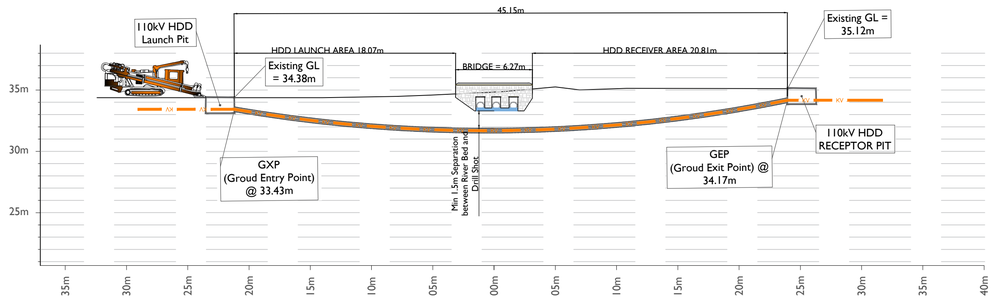
HDD Schedule	
110kV	Circuit
	3 x 180mm SDR 21 Red Electric Ducts 2 x 140mm SDR 17.6 Red Electric Ducts
Entry (GEP) Co-Ordinates	X = 506633,714 Y = 663671.459
Exit (GXP) Co-Ordinates	X = 506620.38, Y = 663714.575
HDD Length	• Horizontal Distance - 45.15m • Curve Distance - 45.39m
All HDD ducts to comply with ESB Specification	



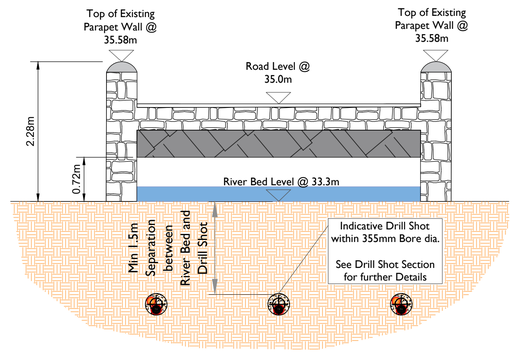
Image 1



Image 2



Section B - B
Scale : 1:250



Section A - A
Scale : 1:50

Project Management Initials: Designer: EM Checked: DB Approved: DBro

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PROJECT

Cahermurphy West Wind Farm 110kV Grid Connection

CLIENT

FuturEnergy Ireland

CONSULTANTS

MKO

NOTES: -

- Bridge crossing designs will be submitted to Clare Co. Council for review.
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LEGEND: -

Proposed 110kV Grid Connection
Total length of UGC Route - 25.005km

Red Line Planning Boundary

Irish Water Infrastructure shown thus

ISSUE/REVISION

P1	12.12.25	Issued for Planning
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I/R	DATE	DESCRIPTION

PROJECT NUMBER

05-935

SHEET TITLE

HDD 9 - Bridge 5
Proposed Crossing Details

SHEET NUMBER

05935-DR-288

ISO A1 594mm x 841mm

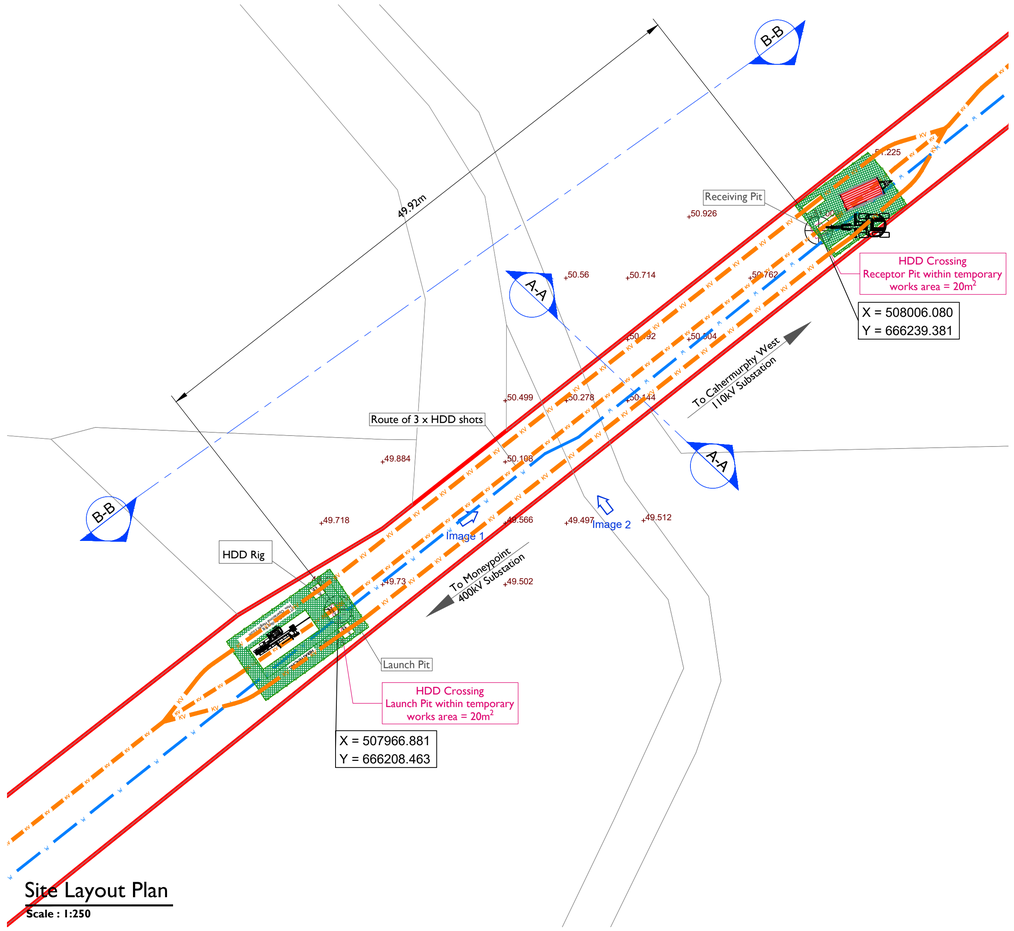
Map Series:
Prime 2

OSI Sheet Reference Number:
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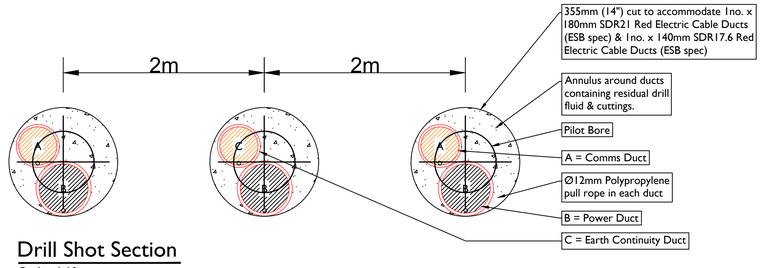
ITM Center Point Co-Ordinates:
X,Y = 568402.0, 590506.963277

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Site Layout Plan
Scale : 1:250



Drill Shot Section
Scale : 1:10

HDD Schedule

110kV	Circuit
	3 x 180mm SDR 21 Red Electric Ducts 3 x 140mm SDR 17.6 Red Electric Ducts
Entry (GEP) Co-Ordinates	X = 507966.881, Y =666208.463
Exit (GXP) Co-Ordinates	X = 508006.080, Y = 666239.381
HDD Length	• Horizontal Distance - 50.03m • Curve Distance - 50.3m
All HDD ducts to comply with ESB Specification	

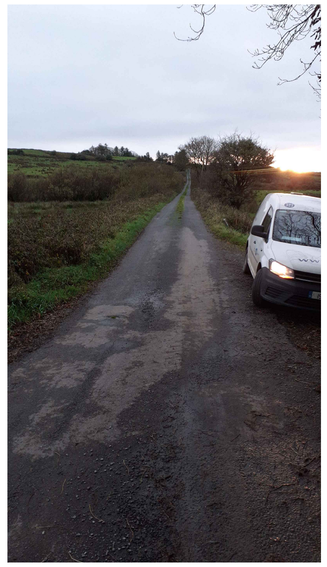
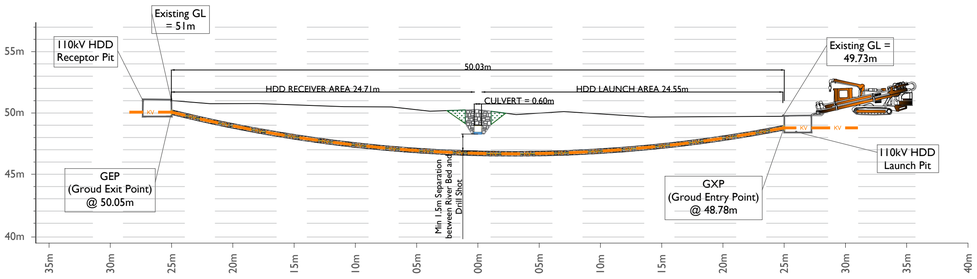


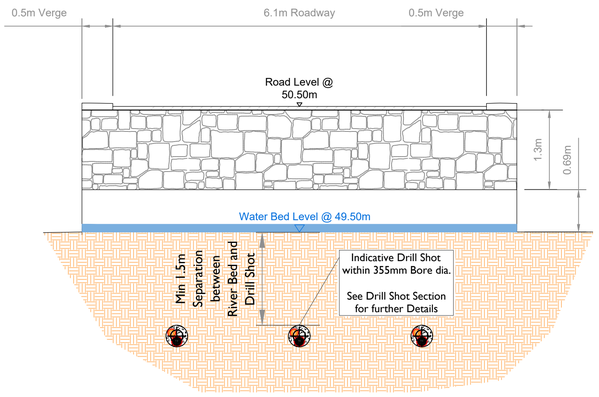
Image 1



Image 2



Section B - B
Scale : 1:250



Section A - A
Scale : 1:50

Project Management Initials: Designer: EM Checked: DB Approved: DBro

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PROJECT

Cahermurphy West Wind Farm 110kV Grid Connection

CLIENT

FuturEnergy Ireland

CONSULTANTS

MKO

NOTES: -

- Bridge crossing designs will be submitted to Clare Co. Council for review.
- Proposed designs are subject to ESB design approval and should not be used for construction.

LEGEND: -

Proposed 110kV Grid Connection
Total length of UGC Route - 25.005km

Red Line Planning Boundary

Irish Water Infrastructure shown thus

ISSUE/REVISION

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I/R	DATE	DESCRIPTION

PROJECT NUMBER

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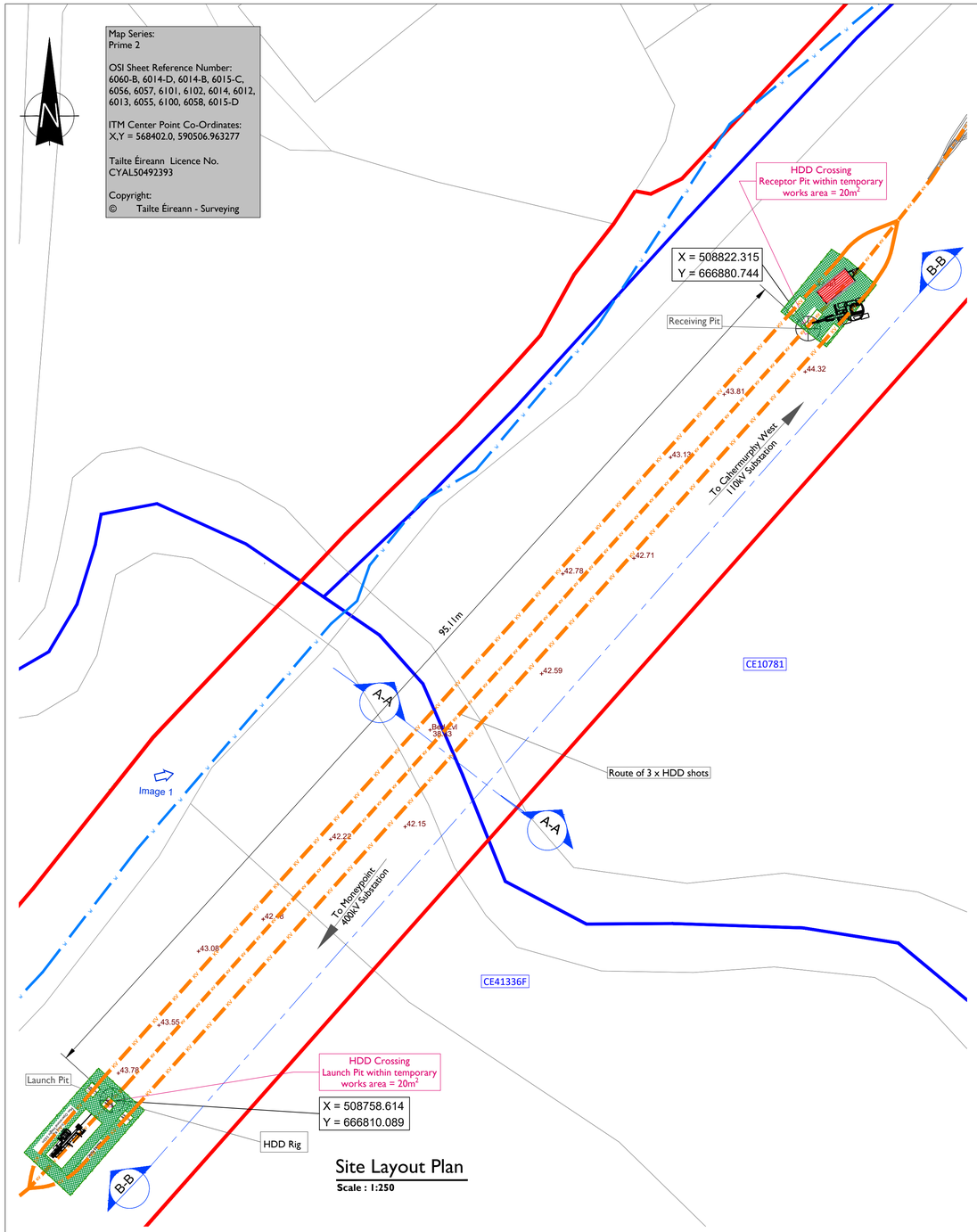
SHEET TITLE

HDD 10 - Culvert 13
Proposed Crossing Details

SHEET NUMBER

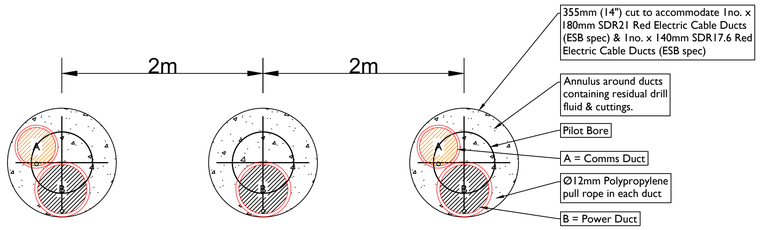
05935-DR-289

ISO A1 594mm x 841mm



Site Layout Plan

Scale : 1:250



Drill Shot Section

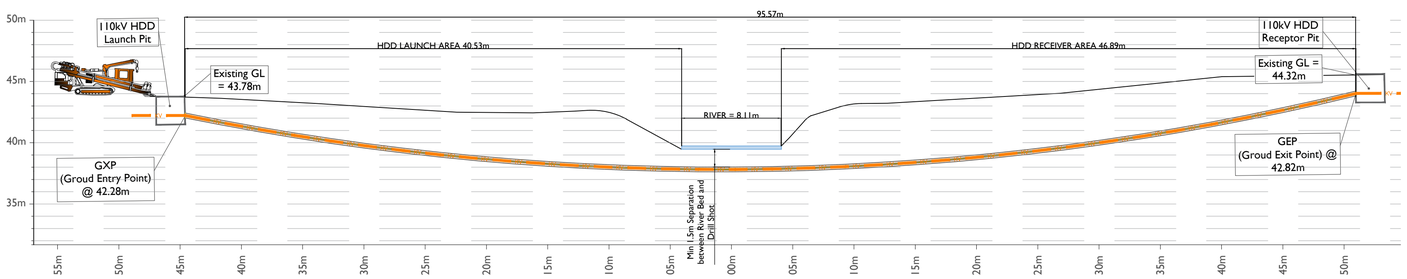
Scale : 1:10

HDD Schedule

110kV	Circuit
	3 x 180mm SDR 21 Red Electric Ducts 2 x 140mm SDR 17.6 Red Electric Ducts
Entry (GEP) Co-Ordinates	X = 508758,614 Y = 666810.089
Exit (GXP) Co-Ordinates	X = 508822.315, Y = 666880.744
HDD Length	• Horizontal Distance - 95.57m • Curve Distance - 96.34m
All HDD ducts to comply with ESB Specification	

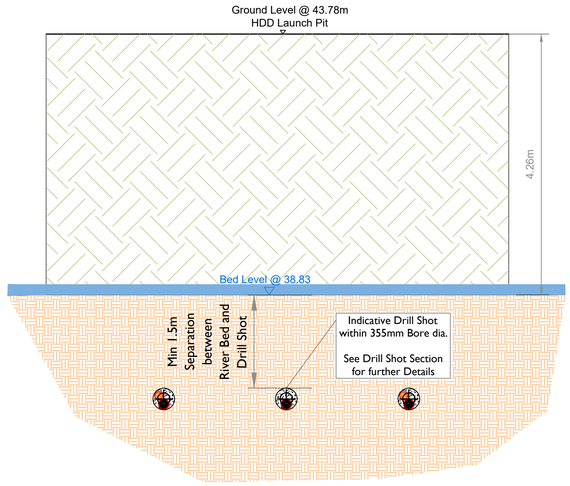


Image 1



Section B - B

Scale : 1:250



Section A - A

Scale : 1:50

Approved: DBro
Checked: DB
Designer: EM
Project Management Initials:

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PROJECT

Cahermurphy West Wind Farm 110kV Grid Connection

CLIENT

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CONSULTANTS

MKO

NOTES: -

- Bridge crossing designs will be submitted to Clare Co. Council for review.
- Proposed designs are subject to ESB design approval and should not be used for construction.

LEGEND: -

Proposed 110kV Grid Connection
Total length of UGC Route - 25.005km

Red Line Planning Boundary

Landowner Folio Boundary

Irish Water Infrastructure shown thus

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P1	12.12.25	Issued for Planning
N1	03.10.25	Issued for Information

PROJECT NUMBER

05-935

SHEET TITLE

HDD 11 - Bridge 6
Proposed Crossing Details

SHEET NUMBER

05935-DR-290

ISO A1 594mm x 841mm

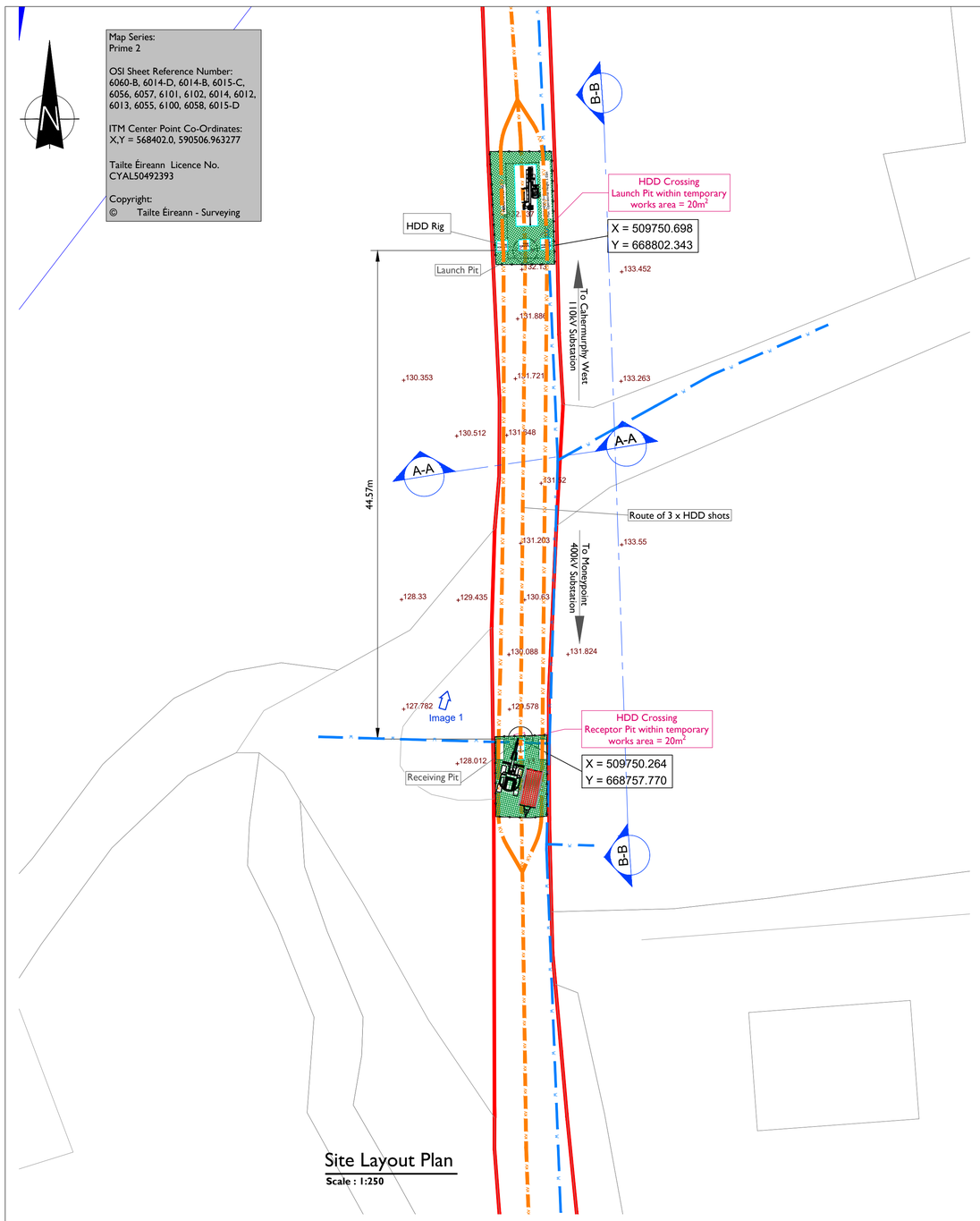
Map Series:
Prime 2

OSI Sheet Reference Number:
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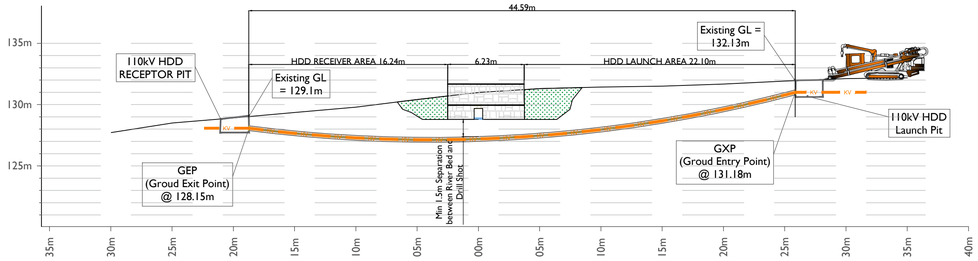
ITM Center Point Co-Ordinates:
X,Y = 568402.0, 590506.963277

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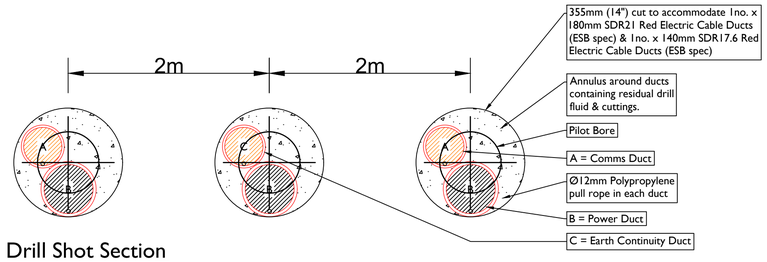
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Site Layout Plan
Scale : 1:250



Section B - B
Scale : 1:250



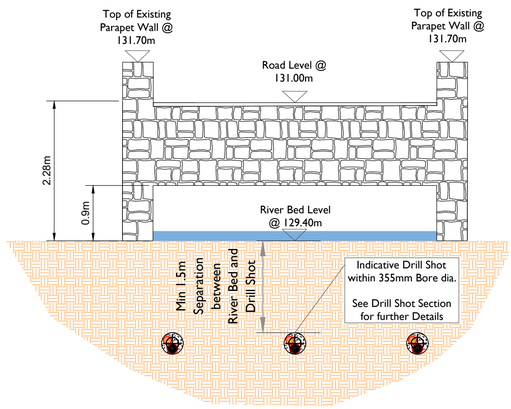
Drill Shot Section
Scale : 1:10

HDD Schedule

110kV	Circuit
	3 x 180mm SDR 21 Red Electric Ducts 3 x 140mm SDR 17.6 Red Electric Ducts
Entry (GEP) Co-Ordinates	X = 509750.698, Y = 668802.343
Exit (GXP) Co-Ordinates	X = 509750.264, Y = 668757.770
HDD Length	• Horizontal Distance - 44.59m • Curve Distance - 44.96m
All HDD ducts to comply with ESB Specification	



Image 1



Section A - A
Scale : 1:50

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PROJECT

Cahermurphy West Wind Farm 110kV Grid Connection

CLIENT

FuturEnergy Ireland

CONSULTANTS

MKO

NOTES: -

- Bridge crossing designs will be submitted to Clare Co. Council for review.
- Proposed designs are subject to ESB design approval and should not be used for construction.

LEGEND: -

Proposed 110kV Grid Connection
Total length of UGC Route - 25.005km

Red Line Planning Boundary

Irish Water Infrastructure shown thus

ISSUE/REVISION

P1	12.12.25	Issued for Planning
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I/R	DATE	DESCRIPTION

PROJECT NUMBER

05-935

SHEET TITLE

HDD 12 - Culvert 17
Proposed Crossing Details

SHEET NUMBER

05935-DR-291

Project Management Initials: Designer: EM Checked: DB Approved: DBro

ISO A1 594mm x 841mm

Watercourse Crossing Schedule

Watercourse No.	Location (ITM)	Dimensions (mm)	Material	Approx. Cover (mm)	Crossing Methodology	Photo
1. Culvert 01	X: 505485 Y: 653896	Inaccessible access prevents determining build specification	Inaccessible access prevents determining build specification	Inaccessible access prevents determining build specification	UnderCrossing	
2. Culvert 02	X: 505802 Y: 655285	1000 Ø	Concrete	1000	UnderCrossing	
3. Culvert 03	X: 505695 Y: 655938	Inaccessible access prevents determining build specification	PVC	Inaccessible access prevents determining build specification	Undercrossing	Inaccessible access prevents determining build specification
4. Culvert 04	X: 505686 Y: 656003	Inaccessible access prevents determining build specification	Concrete	3000	Overcrossing	
5. Culvert 05	X: 505658 Y: 656236	500 X 500	Single Stone Clapper	2500	OverCrossing	

Watercourse Crossing Schedule (Sh. 1 of 5)

SCALE: NTS

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PROJECT

Cahermurphy West Wind Farm 110kV Grid Connection

CLIENT

FuturEnergy Ireland

CONSULTANTS

MKO

NOTES: -

- No structural surveys have been carried out and the proposals are subject to detailed design.
- Crossings are in compliance with EirGrid specification requirements for shallow formation, min depth, etc.
- Additional culverts may be encountered on the route.
- Dimensions are in millimeters, unless noted otherwise.
- Co-Ordinates to ITM Grid.

LEGEND: -

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P2	13.02.26	Issued for Planning
P1	12.12.25	Issued for Planning
N1	03.10.25	Issued for Information

PROJECT NUMBER

05-935

SHEET TITLE

Watercourse Crossing Schedule
Sheet 1 of 5

SHEET NUMBER

05935-DR-235

ISO A1 594mm x 841mm

Watercourse Crossing Schedule

Watercourse No.	Location (ITM)	Dimensions (mm)	Material	Approx. Cover (mm)	Crossing Methodology	Photo
6. Bridge 01	X: 505042 Y: 657474	600 X 700	Stone (Bridge)	4000	HDD	
7. Culvert 06	X: 504815 Y: 657783	1400 x 900	Double Stone Clapper	2400	HDD	
8. Culvert 07	X: 504546 Y: 658042	Inaccessible access prevents determining build specification	Inaccessible access prevents determining build specification	Inaccessible access prevents determining build specification	Undercrossing	
9. Culvert 08	X: 504612 Y: 659144	400 X 600	Single Stone Clapper	800	HDD	
10. Culvert 09	X: 504656 Y: 659687	700 Ø	Concrete	300	Undercrossing	

Watercourse Crossing Schedule (Sh. 2 of 5)

SCALE: NTS

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PROJECT

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LEGEND: -

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P2	13.02.26	Issued for Planning
P1	12.12.25	Issued for Planning
N1	03.10.25	Issued for Information

PROJECT NUMBER

05-935

SHEET TITLE

Watercourse Crossing Schedule
Sheet 2 of 5

SHEET NUMBER

05935-DR-236

ISO A1 594mm x 841mm

Watercourse Crossing Schedule

Watercourse No.	Location (ITM)	Dimensions (mm)	Material	Approx. Cover (mm)	Crossing Methodology	Photo
11. Culvert 10	X: 504875 Y: 659839	600 Ø	Concrete	1900	Overcrossing	 
12. Culvert 11	X: 505443 Y: 660665	400 Ø	Concrete	600	Undercrossing	 
13. Culvert 12	X: 505892 Y: 661551	500 Ø	Concrete	200	HDD	 
14. Bridge 02	X: 506225 Y: 661798	Inaccessible access prevents determining build specification	Concrete (Triple Arched Bridge)	600	HDD	 
15. Bridge 03	X: 507141 Y: 662349	Inaccessible access prevents determining build specification	Concrete (Single Arched Bridge)	500	HDD	 

Watercourse Crossing Schedule (Sh. 3 of 5)

SCALE: NTS

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PROJECT

Cahermurphy West Wind Farm 110kV Grid Connection

CLIENT

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- Co-Ordinates to ITM Grid.

LEGEND: -

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P2	13.02.26	Issued for Planning
P1	12.12.25	Issued for Planning
N1	03.10.25	Issued for Information

PROJECT NUMBER

05-935

SHEET TITLE

Watercourse Crossing Schedule
Sheet 3 of 5

SHEET NUMBER

05935-DR-237

ISO A1 594mm x 841mm

Watercourse Crossing Schedule

Watercourse No.	Location (ITM)	Dimensions (mm)	Material	Approx. Cover (mm)	Crossing Methodology	Photo
16. Bridge 04	X: 506482 Y: 663380	Inaccessible access prevents determining build specification	Concrete (Single Arched Bridge)	50	HDD	
17. Bridge 05	X: 506639 Y: 663671	Inaccessible access prevents determining build specification	Triple Stone Clapper (Bridge)	350	HDD	
18. Culvert 13	X: 507983 Y: 666228	600 X 700	Single Stone Clapper	1300	HDD	
19. Culvert 14	X: 508678 Y: 666760	Inaccessible access prevents determining build specification	Inaccessible access prevents determining build specification	Inaccessible access prevents determining build specification	Undercrossing	
20. Bridge 06	X: 508786 Y: 666858	Inaccessible access prevents determining build specification	Concrete (Single Arched Bridge)	450	HDD	

Watercourse Crossing Schedule (Sh. 4 of 5)

SCALE: NTS

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LEGEND: -

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P2	13.02.26	Issued for Planning
P1	12.12.25	Issued for Planning
N1	03.10.25	Issued for Information

PROJECT NUMBER

05-935

SHEET TITLE

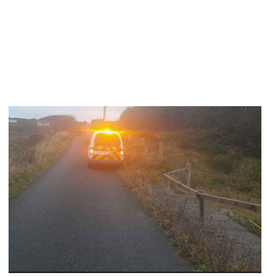
Watercourse Crossing Schedule
Sheet 4 of 5

SHEET NUMBER

05935-DR-238

ISO A1 594mm x 841mm

Watercourse Crossing Schedule

Watercourse No.	Location (ITM)	Dimensions (mm)	Material	Approx. Cover (mm)	Crossing Methodology	Photo
21. Culvert 15	X: 509592 Y: 667739	Inaccessible access prevents determining build specification	Inaccessible access prevents determining build specification	Inaccessible access prevents determining build specification	UnderCrossing	Inaccessible access prevents determining build specification
21. Culvert 16	X: 509768 Y: 668340	1000 Ø	Concrete	650	UnderCrossing	 
22. Culvert 17	X: 509748 Y: 668775	700 X 1200	Concrete	1000	HDD	
23. Culvert 18	X: 509718 Y: 668865	300 Ø	Concrete	550	Undercrossing	 

Watercourse Crossing Schedule (Sh. 5 of 5)

SCALE: NTS

tli GROUP

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PROJECT

Cahermurphy West Wind Farm 110kV Grid Connection

CLIENT

FuturEnergy Ireland

CONSULTANTS

MKO

NOTES: -

- No structural surveys have been carried out and the proposals are subject to detailed design.
- Crossings are in compliance with EirGrid specification requirements for shallow formation, min depth, etc.
- Additional culverts may be encountered on the route.
- Dimensions are in millimeters, unless noted otherwise.
- Co-Ordinates to ITM Grid.

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Watercourse Crossing Schedule
Sheet 5 of 5

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