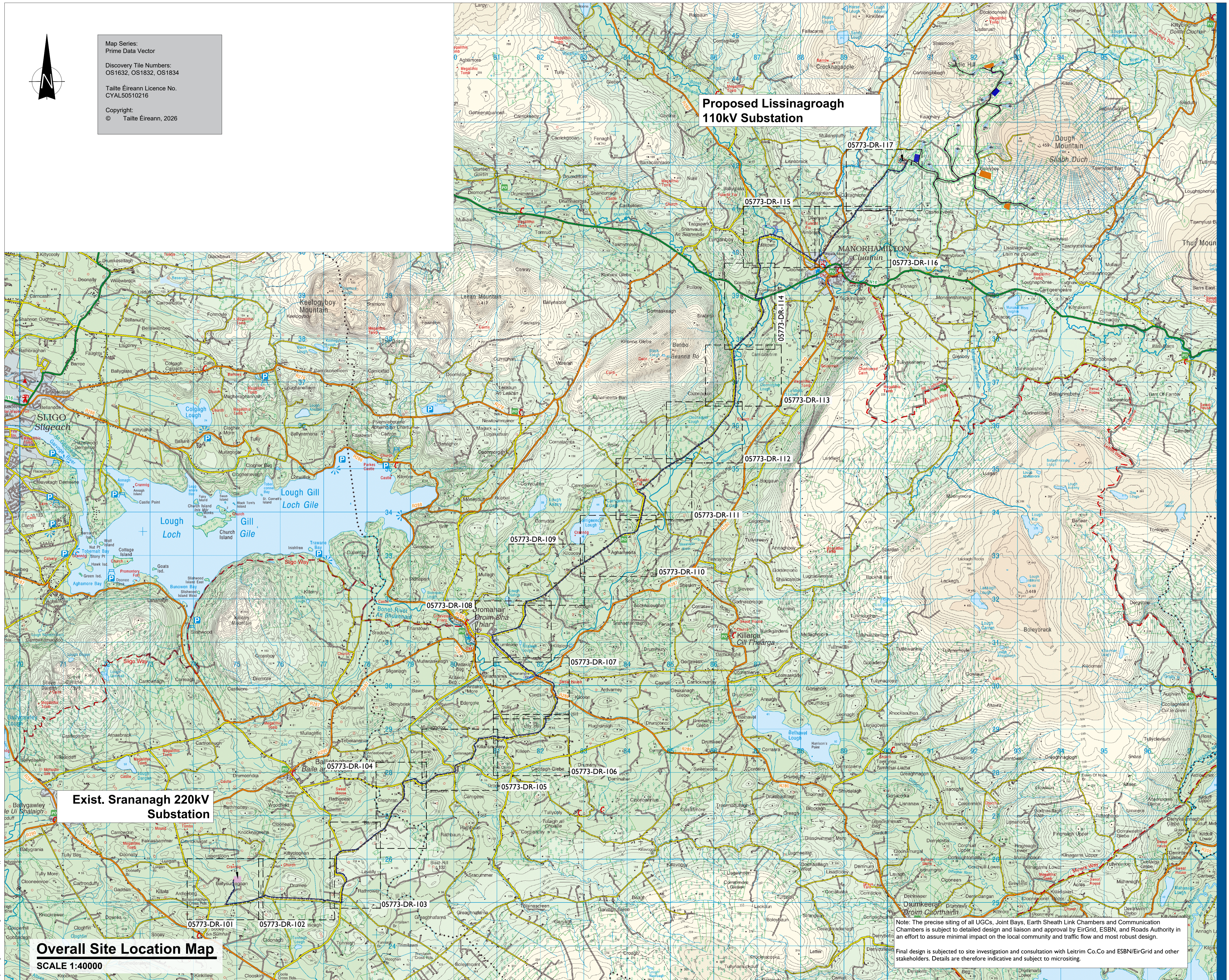


Map Series:
Prime Data Vector

Discovery Tile Numbers:
OS1632, OS1832, OS1834

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**Proposed Lissinagroagh
110kV Substation**

**Exist. Srananagh 220kV
Substation**

Overall Site Location Map
SCALE 1:40000

Note: The precise siting of all UGCs, Joint Bays, Earth Sheath Link Chambers and Communication Chambers is subject to detailed design and liaison and approval by EirGrid, ESN, and Roads Authority in an effort to assure minimal impact on the local community and traffic flow and most robust design.

Final design is subject to site investigation and consultation with Leitrim Co.Co and ESN/EirGrid and other stakeholders. Details are therefore indicative and subject to micro-siting.



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

Regional Office
Basepoint Business Centre
Stourley Road, Basingstoke,
Hampshire,
RG24 8UP, UK
Tel: 00 44 1256406664

PROJECT

**Lissinagroagh (WF)
Wind Farm
110kV Grid Connection**

CLIENT

FuturaEnergy Ireland

CONSULTANTS

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- NOTES:**
- This drawing is to be read in conjunction with relevant drawings, specifications and reports.
 - Path of cable route may vary depending on site conditions and presence of existing services.
 - Duct and cable sizes to be confirmed as part of detailed design.
 - Other services may be encountered along the route.
 - Existing road build up and reinstatement requirements to be confirmed with Leitrim Co.Co

- LEGEND:**
- Proposed UGC Grid Route shown thus (32.0km)
 - Red Line Planning Boundary shown thus
 - EIAR Planning Boundary
 - Permanent Paved Access Roads shown thus
 - Windfarm Development Area

**ISSUED FOR PLANNING
21.04.2026**

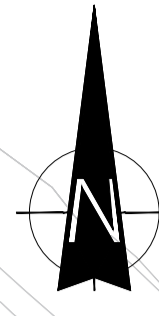
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P03	21.04.26	Issued for Planning
P02	20.04.26	Issued for Planning
P01	30.01.26	Issued for Planning
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PROJECT NUMBER
05-773

SHEET TITLE
Overall Site Location Map

SHEET NUMBER
05773-DR-100

ISO A1 594mm x 841mm

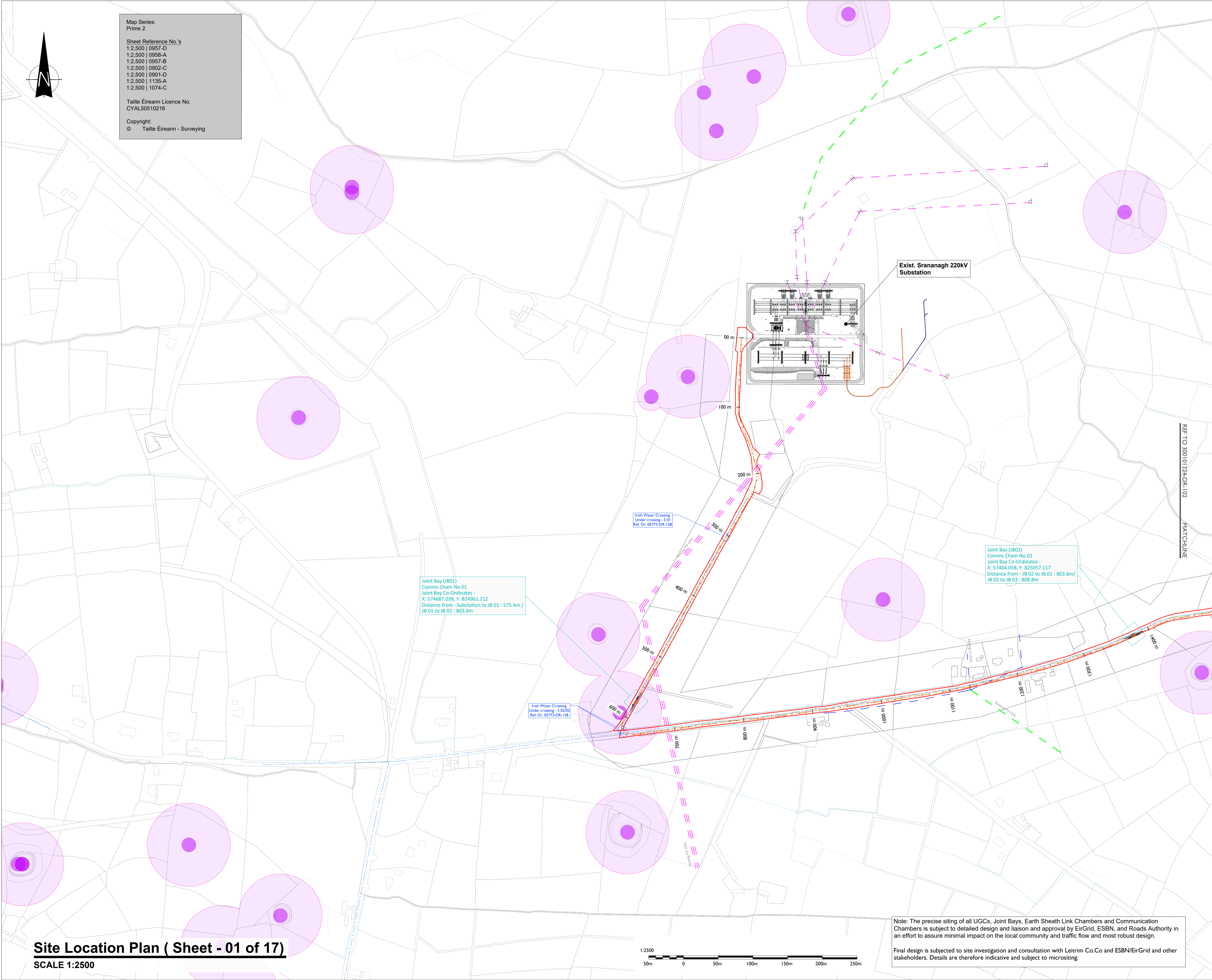


Map Series:
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1:2,500 | 1074-C

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Site Location Plan (Sheet - 01 of 17)
SCALE 1:2500



Note: The precise siting of all UGCs, Joint Bays, Earth Sheath Link Chambers and Communication Chambers is subject to detailed design and liaison and approval by EirGrid, ESBN, and Roads Authority in an effort to assure minimal impact on the local community and traffic flow and most robust design.

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Beenrigh,
Abbeydorney,
Tralee, Co. Kerry
Ireland
Tel: 00353 66 7135710

Regional Office
Basepoint Business Centre
Stroudley Road, Basingstoke,
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PROJECT

**Lissinagroagh
Wind Farm
110kV Grid Connection**

CLIENT



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- NOTES: -**
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 - Other services may be encountered along the route.
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LEGEND: -

Proposed UGC Grid Route shown thus (32.0Km)	
Red Line Planning Boundary shown thus	
Existing Lake, River Network shown thus	
Existing Stream Network shown thus	
Existing ESB LV/MV Networks shown thus	
Existing ESB HV OHL Networks shown thus	
Existing Irish Water Services shown thus	
Notification Zone for Heritage Monument shown thus	

**ISSUED FOR PLANNING
21.04.2026**

ISSUE/REVISION

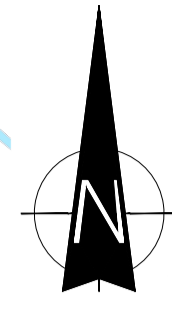
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P02	20.04.26	Issued for Planning
P01	30.01.26	Issued for Planning
I/R	DATE	DESCRIPTION

PROJECT NUMBER
05-773

SHEET TITLE
Site Layout Plan
Sheet 01 of 17

SHEET NUMBER
05773-DR-101

ISO A1 594mm x 841mm
 Project Management Tables: Designer: AD Checked: DB Approved: RG

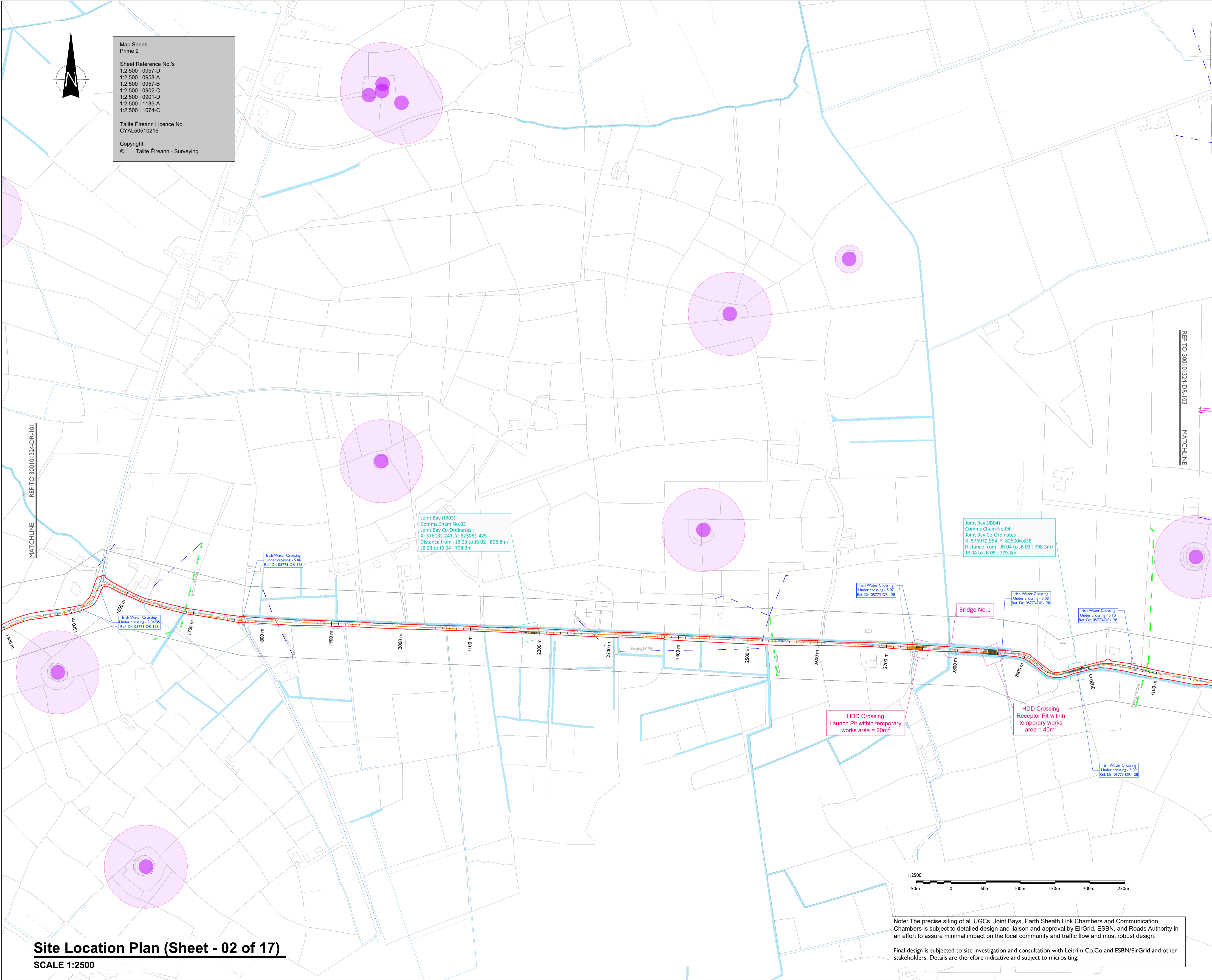


Map Series:
 Prime 2

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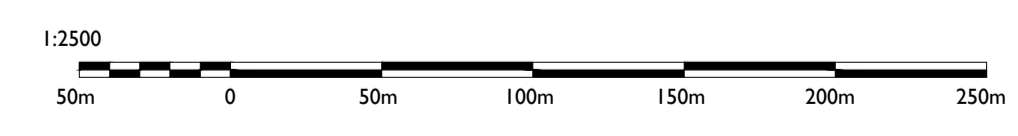


Joint Bay (JB03)
 Comms Cham No.03
 Joint Bay Co-Ordinates:
 X: 576382.243, Y: 825061.475
 Distance from - JB 03 to JB 02 : 808.8m/
 JB 03 to JB 04 : 798.3m

Joint Bay (JB04)
 Comms Cham No.04
 Joint Bay Co-Ordinates:
 X: 576970.954, Y: 825006.628
 Distance from - JB 04 to JB 03 : 798.3m/
 JB 04 to JB 05 : 779.8m

HDD Crossing
 Launch Pit within temporary
 works area = 20m²

HDD Crossing
 Receptor Pit within temporary
 works area = 40m²



Note: The precise siting of all UGCs, Joint Bays, Earth Sheath Link Chambers and Communication Chambers is subject to detailed design and liaison and approval by EirGrid, ESBN, and Roads Authority in an effort to assure minimal impact on the local community and traffic flow and most robust design.

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 Beenrigh,
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 Tralee, Co. Kerry
 Ireland
 Tel: 00353 66 7135710

Regional Office
 Basepoint Business Centre
 Stroudley Road, Basingstoke,
 Hampshire,
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PROJECT

**Lissingagroagh
 Wind Farm
 110kV Grid Connection**

CLIENT



CONSULTANTS



- NOTES: -**
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 - Duct and cable sizes to be confirmed as part of detailed design.
 - Other services may be encountered along the route.
 - Existing road build up and reinstatement requirements to be confirmed with Leitrim Co.Co

LEGEND: -

Proposed UGC Grid Route shown thus (32.0Kv)	
Red Line Planning Boundary shown thus	
Existing Lake, River Network shown thus	
Existing Stream Network shown thus	
Existing ESB LV/MV Networks shown thus	
Existing ESB HV OHL Networks shown thus	
Existing Irish Water Services shown thus	
Notification Zone for Heritage Monument shown thus	

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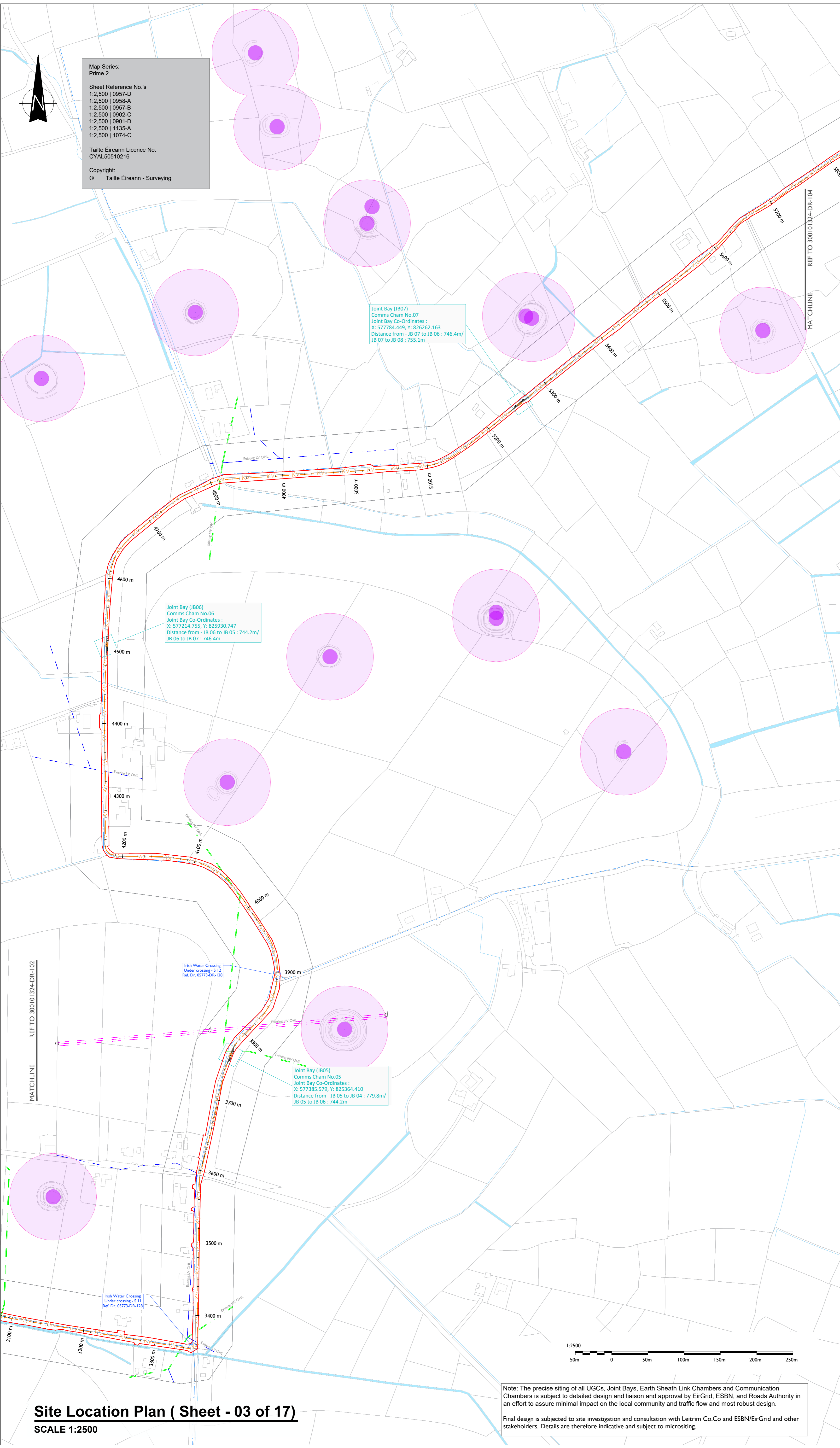
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PROJECT NUMBER
 05-773

SHEET TITLE
 Site Layout Plan
 Sheet 02 of 17

SHEET NUMBER
 05773-DR-102

Site Location Plan (Sheet - 02 of 17)
 SCALE 1:2500



Map Series:
Prime 2

Sheet Reference No.'s
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1:2,500 | 1074-C

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Joint Bay (JB07)
Comms Cham No.07
Joint Bay Co-Ordinates :
X: 577784.449, Y: 826262.163
Distance from - JB 07 to JB 06 : 746.4m/
JB 07 to JB 08 : 755.1m

Joint Bay (JB06)
Comms Cham No.06
Joint Bay Co-Ordinates :
X: 577214.755, Y: 825930.747
Distance from - JB 06 to JB 05 : 744.2m/
JB 06 to JB 07 : 746.4m

Joint Bay (JB05)
Comms Cham No.05
Joint Bay Co-Ordinates :
X: 577385.579, Y: 825364.410
Distance from - JB 05 to JB 04 : 779.8m/
JB 05 to JB 06 : 744.2m

Irish Water Crossing
Under crossing - S 12
Ref. Dr. 05773-DK-128

Irish Water Crossing
Under crossing - S 11
Ref. Dr. 05773-DK-128

LEGEND: -

Proposed UGC Grid Route shown thus (32.0Km)	
Red Line Planning Boundary shown thus	
Existing Lake, River Network shown thus	
Existing Stream Network shown thus	
Existing ESB LV/MV Networks shown thus	
Existing ESB HV OHL Networks shown thus	
Existing Irish Water Services shown thus	
Notification Zone for Heritage Monument shown thus	

NOTES: -

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- Dimensions are in millimeters, unless noted otherwise.
- Drawings are not to be scaled, use figured dimensions only.

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Tel: 00353 66 7135710

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PROJECT

**Lissinagroagh
Wind Farm
110kV Grid Connection**

CLIENT

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PROJECT NUMBER
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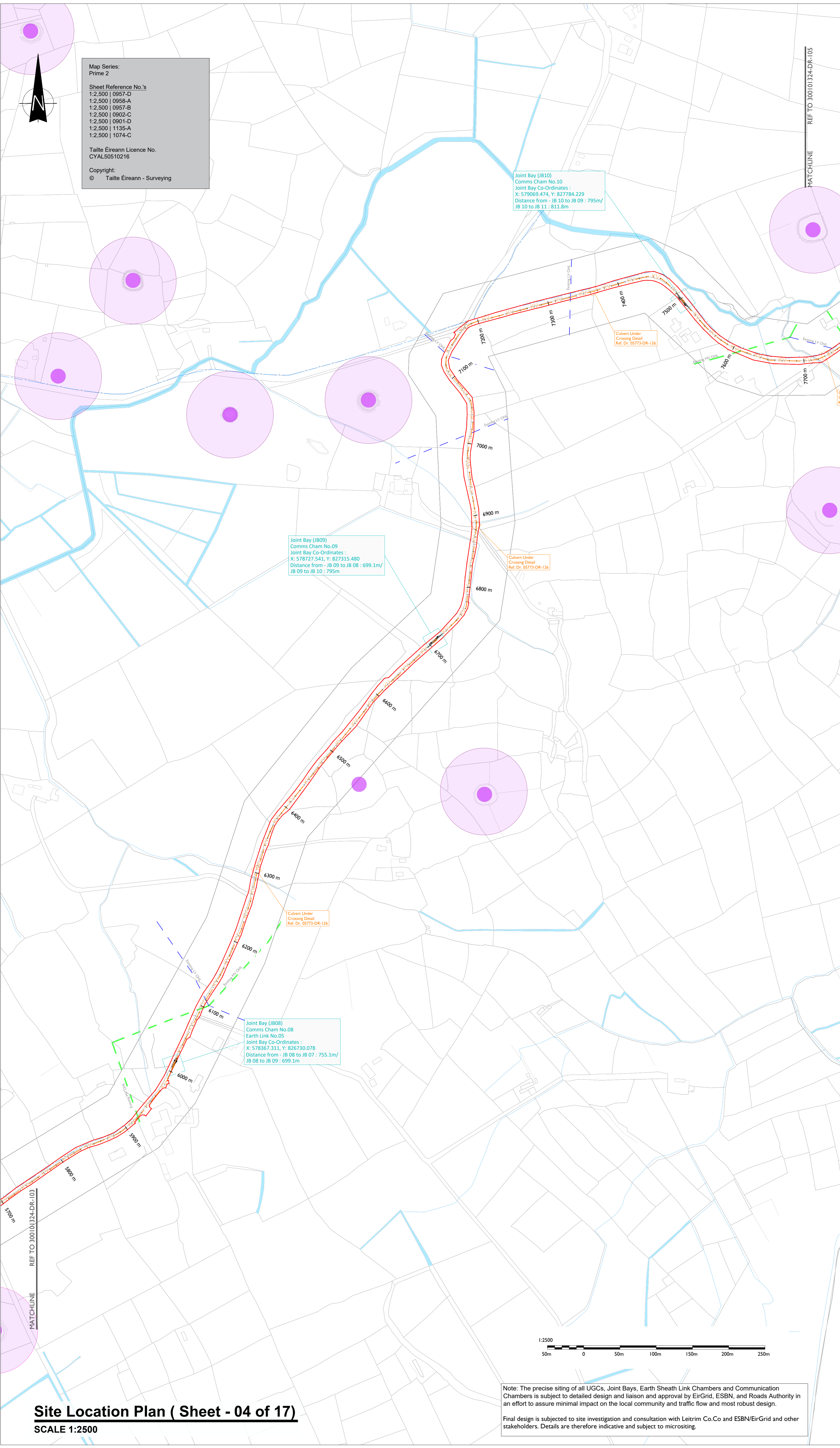
SHEET TITLE
Site Layout Plan
Sheet 3 of 17

SHEET NUMBER
05773-DR-103

Site Location Plan (Sheet - 03 of 17)
SCALE 1:2500

Note: The precise siting of all UGCs, Joint Bays, Earth Sheath Link Chambers and Communication Chambers is subject to detailed design and liaison and approval by EirGrid, ESBN, and Roads Authority in an effort to assure minimal impact on the local community and traffic flow and most robust design.

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Map Series:
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1:2,500 | 1074-C

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Joint Bay (JB10)
Comms Cham No.10
Joint Bay Co-Ordinates :
X: 579069.474, Y: 827784.229
Distance from - JB 10 to JB 09 : 795m/
JB 10 to JB 11 : 811.8m

Joint Bay (JB09)
Comms Cham No.09
Joint Bay Co-Ordinates :
X: 578727.541, Y: 827315.480
Distance from - JB 09 to JB 08 : 699.1m/
JB 09 to JB 10 : 795m

Joint Bay (JB08)
Comms Cham No.08
Earth Link No.05
Joint Bay Co-Ordinates :
X: 578367.311, Y: 826730.078
Distance from - JB 08 to JB 07 : 755.1m/
JB 08 to JB 09 : 699.1m

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LEGEND: -

Proposed UGC Grid Route shown thus (32.0km)	
Red Line Planning Boundary shown thus	
Existing Lake, River Network shown thus	
Existing Stream Network shown thus	
Existing ESB LV/MV Networks shown thus	
Existing ESB HV OHL Networks shown thus	
Existing Irish Water Services shown thus	
Notification Zone for Heritage Monument shown thus	

NOTES: -

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- Dimensions are in millimeters, unless noted otherwise.
- Drawings are not to be scaled, use figured dimensions only.

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21.04.2026**

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PROJECT

**Lissinagroagh
Wind Farm
110kV Grid Connection**

CLIENT

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PROJECT NUMBER

05-773

SHEET TITLE

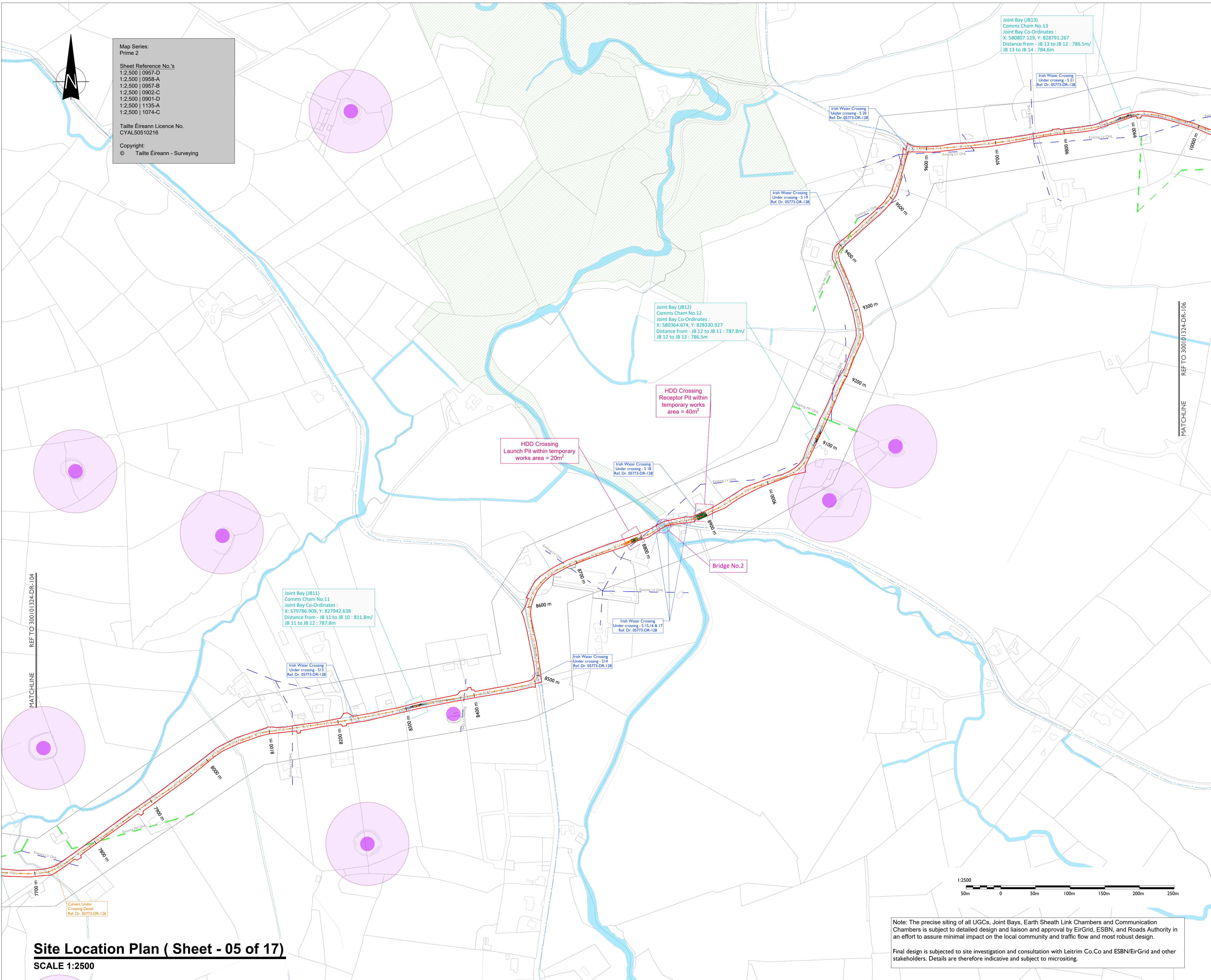
Site Layout Plan
Sheet 04 of 17

SHEET NUMBER

05773-DR-104

Site Location Plan (Sheet - 04 of 17)
SCALE 1:2500

ISO A1 594mm x 841mm
 Project Management Tables: Designer: AD, Checked: DB, Approved: RG



Map Series:
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 1:2,500 | 1135-A
 1:2,500 | 1074-C

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Joint Bay (JB13)
 Comms Cham No.13
 Joint Bay Co-Ordinates :
 X: 580807.125, Y: 828791.267
 Distance from - JB 13 to JB 12 : 786.5m/
 JB 13 to JB 14 : 784.6m

Joint Bay (JB12)
 Comms Cham No.12
 Joint Bay Co-Ordinates :
 X: 580364.674, Y: 828330.927
 Distance from - JB 12 to JB 11 : 787.8m/
 JB 12 to JB 13 : 786.5m

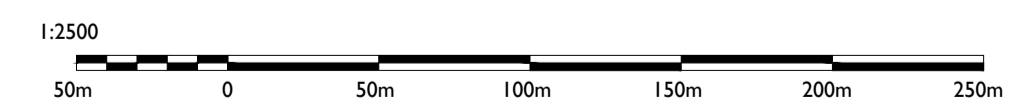
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 Comms Cham No.11
 Joint Bay Co-Ordinates :
 X: 579786.509, Y: 827942.638
 Distance from - JB 11 to JB 10 : 811.8m/
 JB 11 to JB 12 : 787.8m

HDD Crossing
 Launch Pit within temporary
 works area = 20m²

HDD Crossing
 Receptor Pit within
 temporary works
 area = 40m²

MATCHLINE REF TO 300101324-DR-104

MATCHLINE REF TO 300101324-DR-106



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Site Location Plan (Sheet - 05 of 17)
 SCALE 1:2500



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 Beenleigh,
 Abbeydonney,
 Tralee, Co. Kerry
 Ireland
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Regional Office
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PROJECT

**Lissinagroagh
 Wind Farm
 110kV Grid Connection**

CLIENT



CONSULTANTS



- NOTES: -**
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 - Duct and cable sizes to be confirmed as part of detailed design.
 - Other services may be encountered along the route.
 - Existing road build up and reinstatement requirements to be confirmed with Leitrim Co.Co

LEGEND: -

Proposed UGC Grid Route shown thus (32.0km)	
Red Line Planning Boundary shown thus	
Existing Lake, River Network shown thus	
Existing Stream Network shown thus	
Existing ESB LVMV Networks shown thus	
Existing ESB HV OHL Networks shown thus	
Existing Irish Water Services shown thus	
Notification Zone for Heritage Monument shown thus	
Special Areas of Conservation (SAC)	

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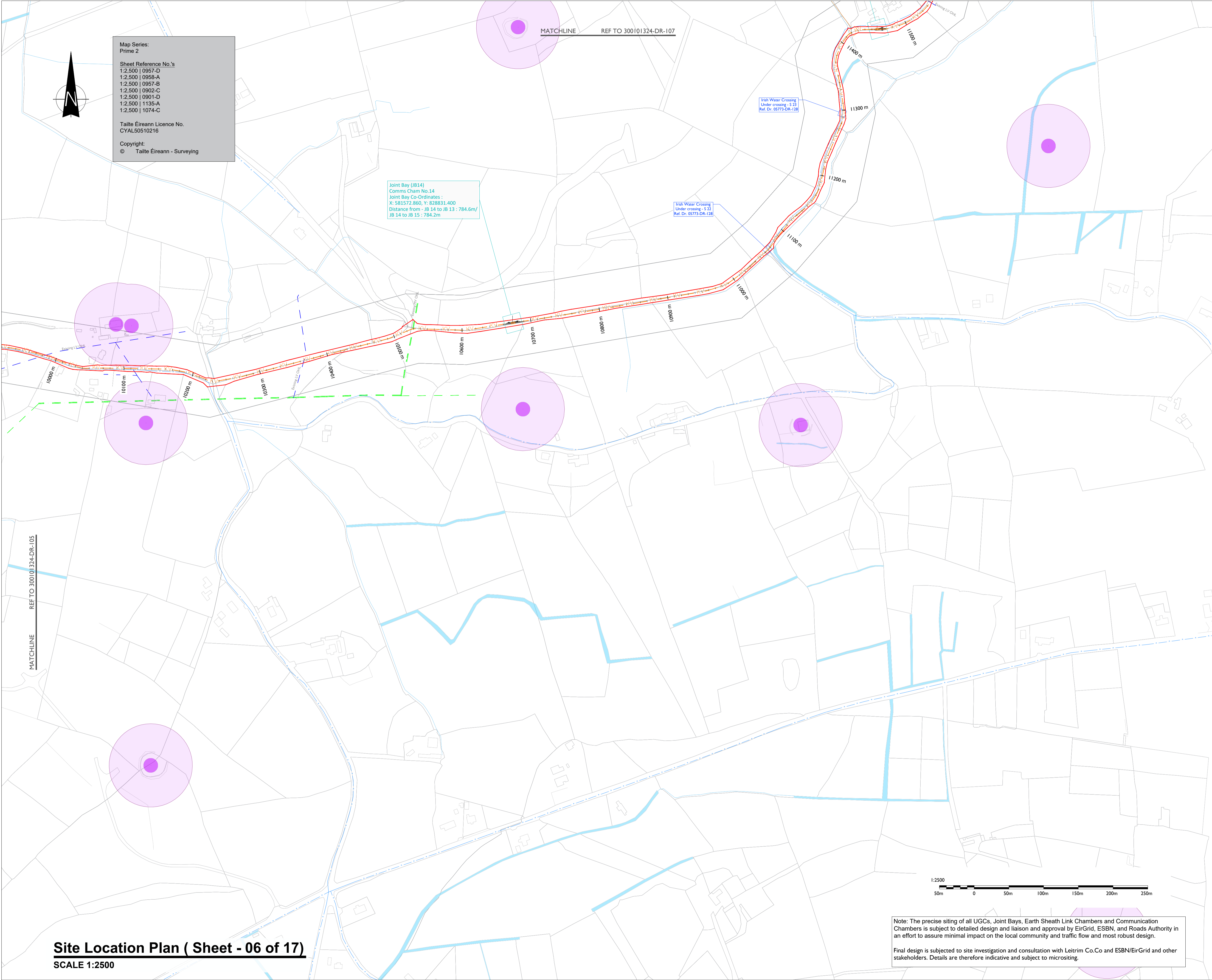
PROJECT NUMBER
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SHEET TITLE
 Site Layout Plan
 Sheet 05 of 17

SHEET NUMBER
 05773-DR-105

ISO A1 594mm x 841mm

Project Management: Designer: AD Checked: DB Approved: RG



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Joint Bay (JB14)
Comms Cham No.14
Joint Bay Co-Ordinates:
X: 581572.860, Y: 828831.400
Distance from - JB 14 to JB 13 : 784.6m/
JB 14 to JB 15 : 784.2m

Inish Water Crossing
Under crossing - S 23
Ref. Dr. 05773-DR-128

Inish Water Crossing
Under crossing - S 22
Ref. Dr. 05773-DR-128

Note: The precise siting of all UGCs, Joint Bays, Earth Sheath Link Chambers and Communication Chambers is subject to detailed design and liaison and approval by EirGrid, ESNB, and Roads Authority in an effort to assure minimal impact on the local community and traffic flow and most robust design.

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Site Location Plan (Sheet - 06 of 17)
SCALE 1:2500

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Tralee, Co. Kerry
Ireland
Tel: 00353 66 7135710

Regional Office
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Stroudley Road, Basingstoke,
Hampshire,
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PROJECT

**Lissinagroagh
Wind Farm
110kV Grid Connection**

CLIENT



CONSULTANTS



- NOTES: -**
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 - Duct and cable sizes to be confirmed as part of detailed design.
 - Other services may be encountered along the route.
 - Existing road build up and reinstatement requirements to be confirmed with Leitrim Co.Co

LEGEND: -

Proposed UGC Grid Route shown thus (32.0Kv)	
Red Line Planning Boundary shown thus	
Existing Lako, River Network shown thus	
Existing Stream Network shown thus	
Existing ESB LV/MV Networks shown thus	
Existing ESB HV OHL Networks shown thus	
Existing Inish Water Services shown thus	
Notification Zone for Heritage Monument shown thus	

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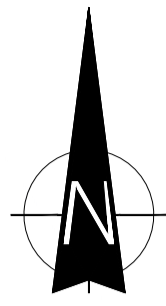
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PROJECT NUMBER
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SHEET TITLE
Site Layout Plan
Sheet 06 of 17

SHEET NUMBER
05773-DR-106

ISO A1 594mm x 841mm
Project Management: Designer: AD
Checked: DB
Approved: RG



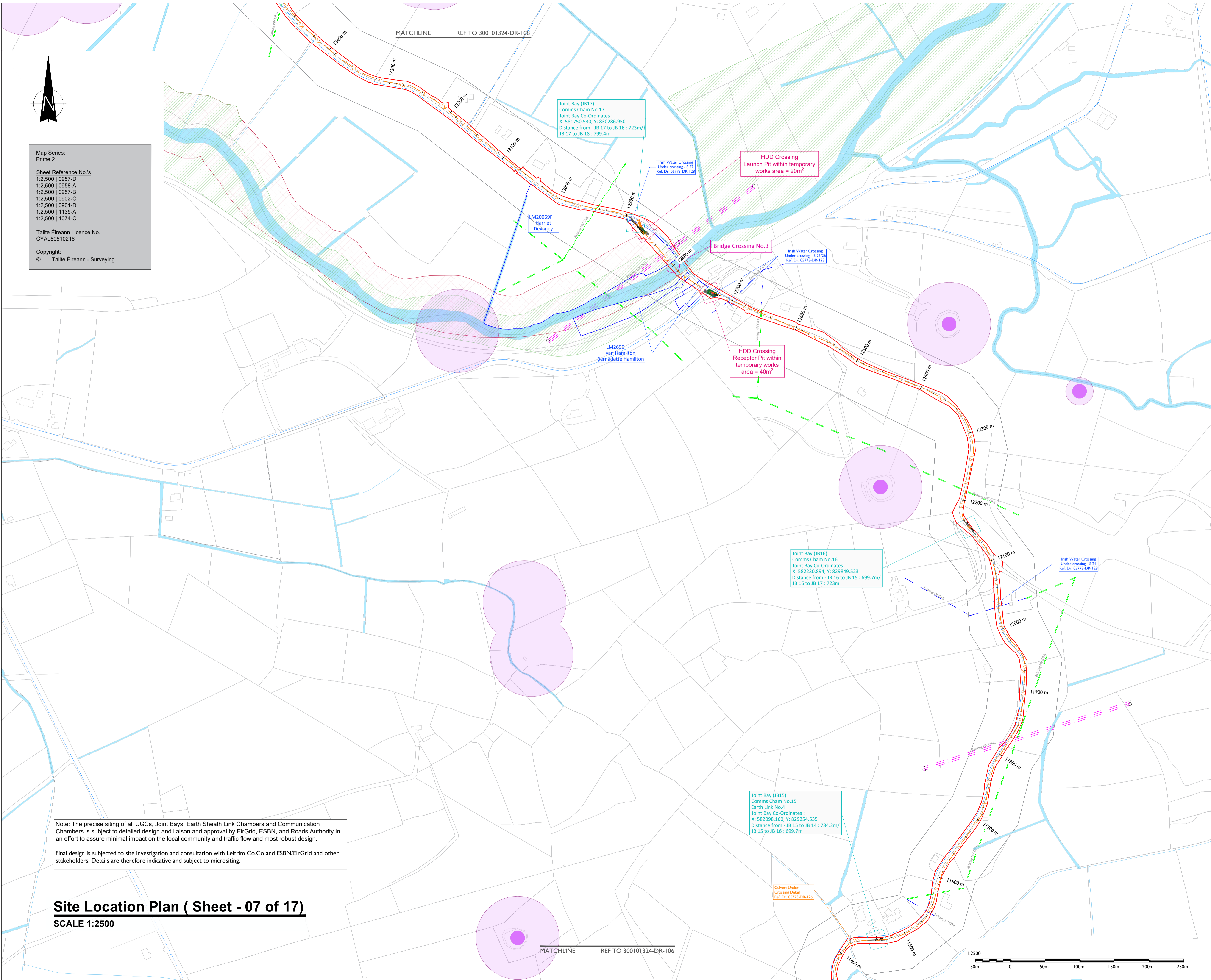
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MATCHLINE REF TO 300101324-DR-108



Note: The precise siting of all UGCs, Joint Bays, Earth Sheath Link Chambers and Communication Chambers is subject to detailed design and liaison and approval by EirGrid, ESBN, and Roads Authority in an effort to assure minimal impact on the local community and traffic flow and most robust design.

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Site Location Plan (Sheet - 07 of 17)

SCALE 1:2500

MATCHLINE REF TO 300101324-DR-106



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Ireland
Tel: 00353 66 7135710

Regional Office
Basepoint Business Centre
Stroudley Road, Basingstoke,
Hampshire,
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PROJECT

Lissinagroagh Wind Farm 110kV Grid Connection

CLIENT

FuturaEnergy Ireland

CONSULTANTS

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CONSULTING ENGINEERS

- NOTES: -
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 - Duct and cable sizes to be confirmed as part of detailed design.
 - Other services may be encountered along the route.
 - Existing road build up and reinstatement requirements to be confirmed with Leitrim Co.Co

LEGEND: -

Proposed UGC Grid Route shown thus (32.0km)	
Red Line Planning Boundary shown thus	
Existing Lake, River Network shown thus	
Existing Stream Network shown thus	
Existing ESB LV/MV Networks shown thus	
Existing ESB HV OHL Networks shown thus	
Existing Irish Water Services shown thus	
Notification Zone for Heritage Monument shown thus	
Special Areas of Conservation (SAC)	
Proposed Natural Heritage Areas (pNHA)	
Landowners Boundary shown thus	

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21.04.2026

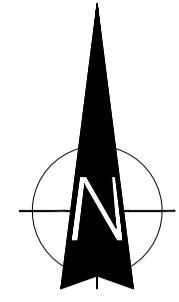
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PROJECT NUMBER
05-773

SHEET TITLE
Site Layout Plan
Sheet 07 of 17

SHEET NUMBER
05773-DR-107

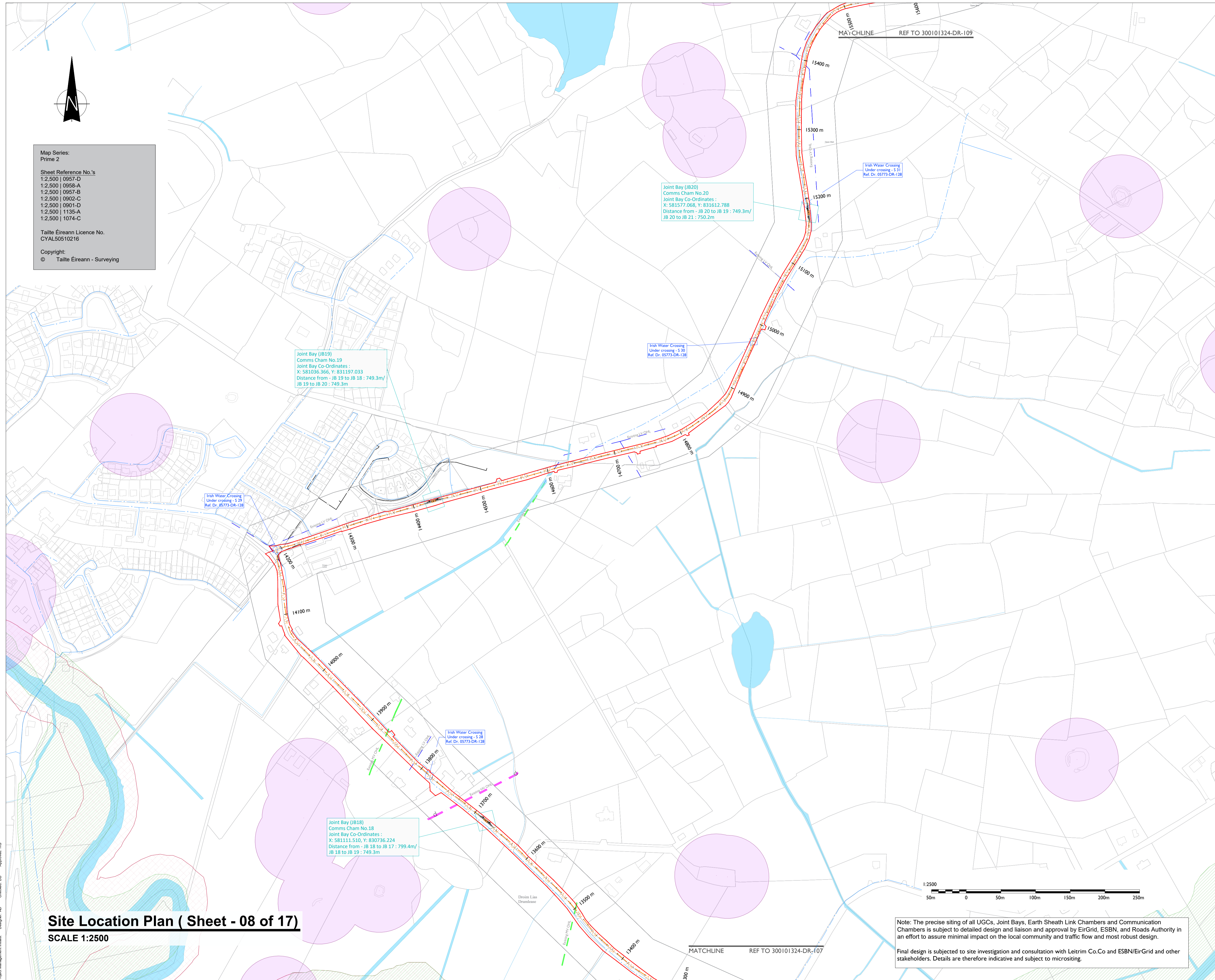


Map Series:
Prime 2

Sheet Reference No.'s
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1:2,500 | 0901-D
1:2,500 | 1135-A
1:2,500 | 1074-C

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Site Location Plan (Sheet - 08 of 17)
SCALE 1:2500



Note: The precise siting of all UGCs, Joint Bays, Earth Sheath Link Chambers and Communication Chambers is subject to detailed design and liaison and approval by EirGrid, ESNB, and Roads Authority in an effort to assure minimal impact on the local community and traffic flow and most robust design.

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Abbeydorney,
Tralee, Co. Kerry
Ireland
Tel: 00353 66 7135710

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Basepoint Business Centre
Stroudley Road, Basingstoke,
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PROJECT

**Lissinagroagh
Wind Farm
110kV Grid Connection**

CLIENT



CONSULTANTS



- NOTES: -**
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 - Path of cable route may vary depending on site conditions and presence of existing services.
 - Duct and cable sizes to be confirmed as part of detailed design.
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LEGEND: -

Proposed UGC Grid Route shown thus (32.0Km)	
Red Line Planning Boundary shown thus	
Existing ESB Underground MV cable shown thus	
Existing Lake, River Network shown thus	
Existing Stream Network shown thus	
Existing ESB LV/MV Networks shown thus	
Existing ESB HV OHL Networks shown thus	
Existing Irish Water Services shown thus	
Notification Zone for Heritage Monument shown thus	
Special Areas of Conservation (SAC)	

ISSUED FOR PLANNING
21.04.2026

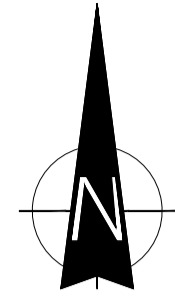
ISSUE/REVISION

NO	DATE	DESCRIPTION
P03	21.04.26	Issued for Planning
P02	20.04.26	Issued for Planning
P01	30.01.26	Issued for Planning
I/R	DATE	DESCRIPTION

PROJECT NUMBER
05-773

SHEET TITLE
Site Layout Plan
Sheet 08 of 17

SHEET NUMBER
05773-DR-108



Map Series:
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PROJECT

**Lissinagroagh
Wind Farm
110kV Grid Connection**

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LEGEND: -

Proposed UGC Grid Route shown thus (32.0Km)	
Red Line Planning Boundary shown thus	
Existing Lake, River Network shown thus	
Existing Stream Network shown thus	
Existing ESB LVMV Networks shown thus	
Existing ESB HV OHL Networks shown thus	
Existing Irish Water Services shown thus	
Notification Zone for Heritage Monument shown thus	
Special Areas of Conservation (SAC)	

**ISSUED FOR PLANNING
21.04.2026**

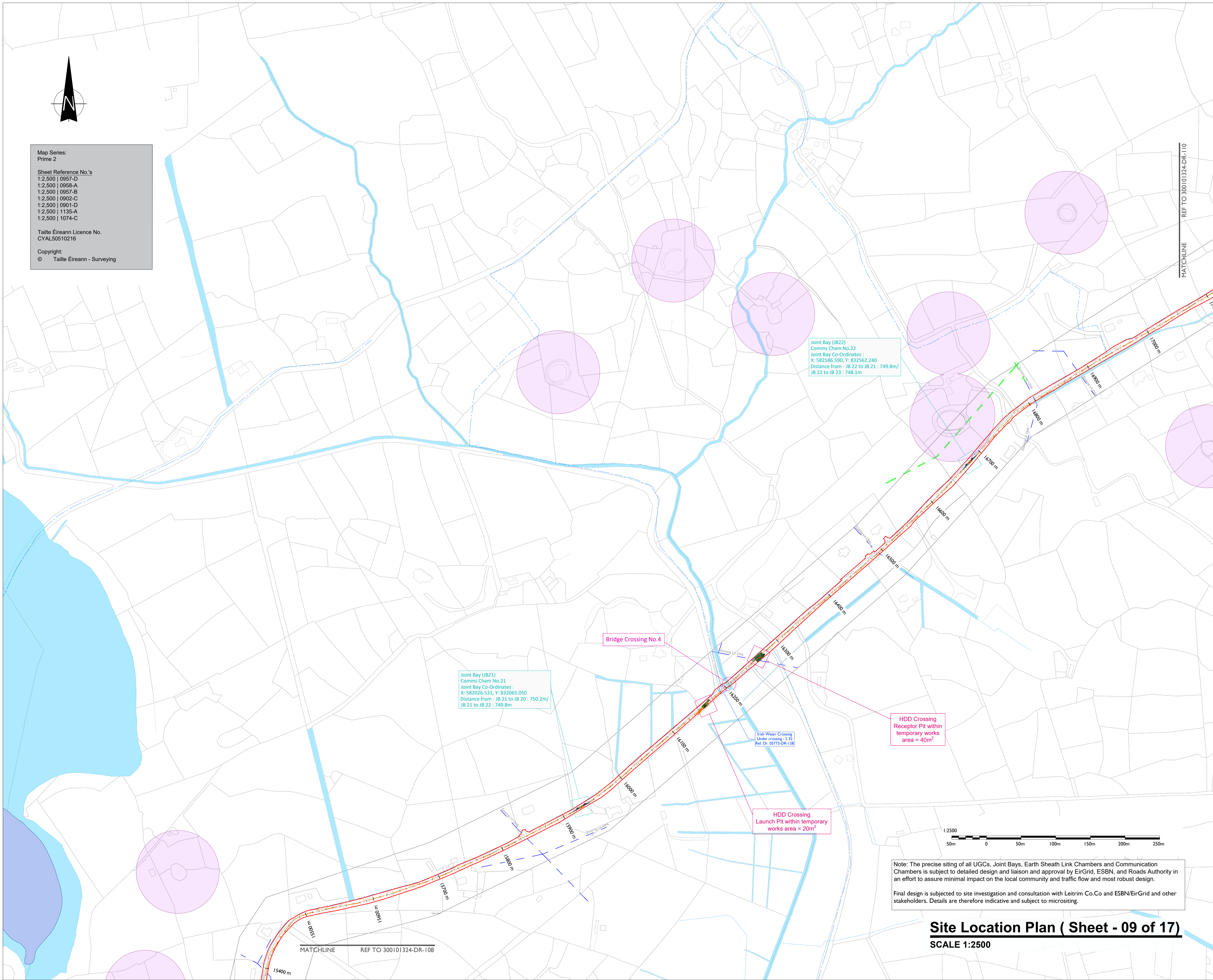
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P02	20.04.26	Issued for Planning
P01	30.01.26	Issued for Planning
I/R	DATE	DESCRIPTION

PROJECT NUMBER
05-773

SHEET TITLE
Site Layout Plan
Sheet 09 of 17

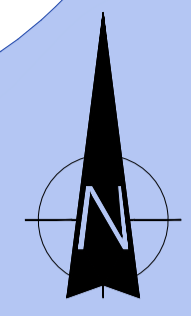
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05773-DR-109



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Site Location Plan (Sheet - 09 of 17)
SCALE 1:2500

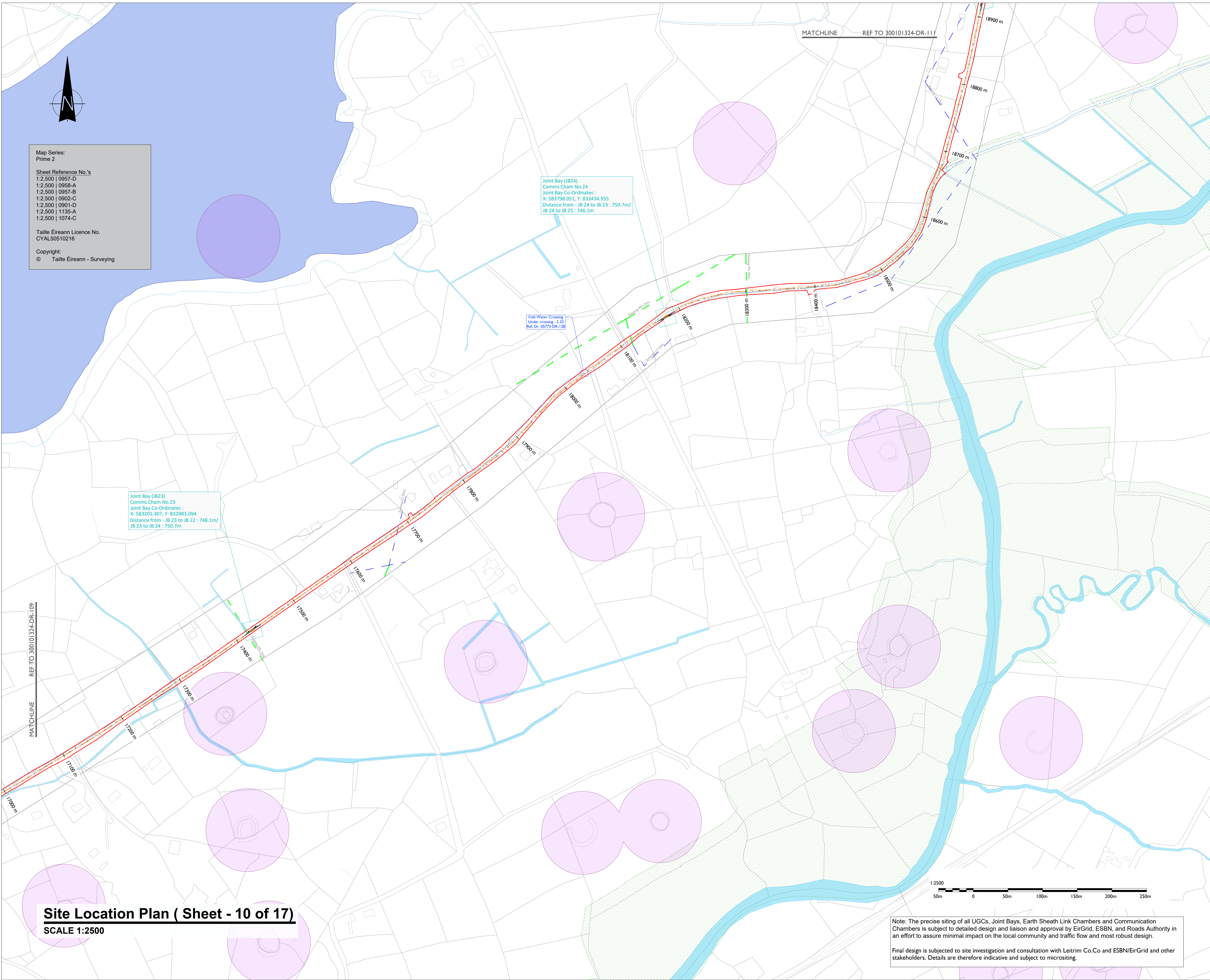


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1:2.500 | 0901-D
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Joint Bay (JB23)
Comms Cham No.23
Joint Bay Co-Ordinates:
X: 583702.307, Y: 833983.094
Distance from - JB 23 to JB 22 : 748.1m/
JB 23 to JB 24 : 750.7m

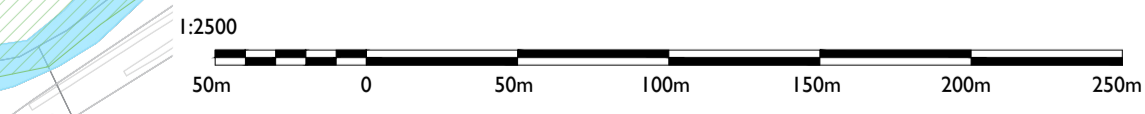
Joint Bay (JB24)
Comms Cham No.24
Joint Bay Co-Ordinates:
X: 583798.051, Y: 833434.955
Distance from - JB 24 to JB 23 : 750.7m/
JB 24 to JB 25 : 746.1m

Irish Water Crossing
Under crossing - S 33
Ref. Dr. 05773-DR-138

MATCHLINE REF TO 300101324-DR-111

MATCHLINE REF TO 300101324-DR-109

Site Location Plan (Sheet - 10 of 17)
SCALE 1:2500



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Tel: 00353 66 7135710

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PROJECT

**Lissinagroagh
Wind Farm
110kV Grid Connection**

CLIENT



CONSULTANTS



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LEGEND: -

Proposed UGC Grid Route shown thus (32.0km)	
Red Line Planning Boundary shown thus	
Existing Lake, River Network shown thus	
Existing Stream Network shown thus	
Existing ESB LV/MV Networks shown thus	
Existing ESB HV OHL Networks shown thus	
Existing Irish Water Services shown thus	
Notification Zone for Heritage Monument shown thus	
Special Areas of Conservation (SAC)	

ISSUED FOR PLANNING
21.04.2026

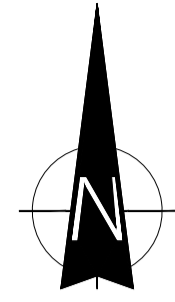
ISSUE/REVISION

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P03	21.04.26	Issued for Planning
P02	20.04.26	Issued for Planning
P01	30.01.26	Issued for Planning
I/R	DATE	DESCRIPTION

PROJECT NUMBER
05-773

SHEET TITLE
Site Layout Plan
Sheet 10 of 17

SHEET NUMBER
05773-DR-110

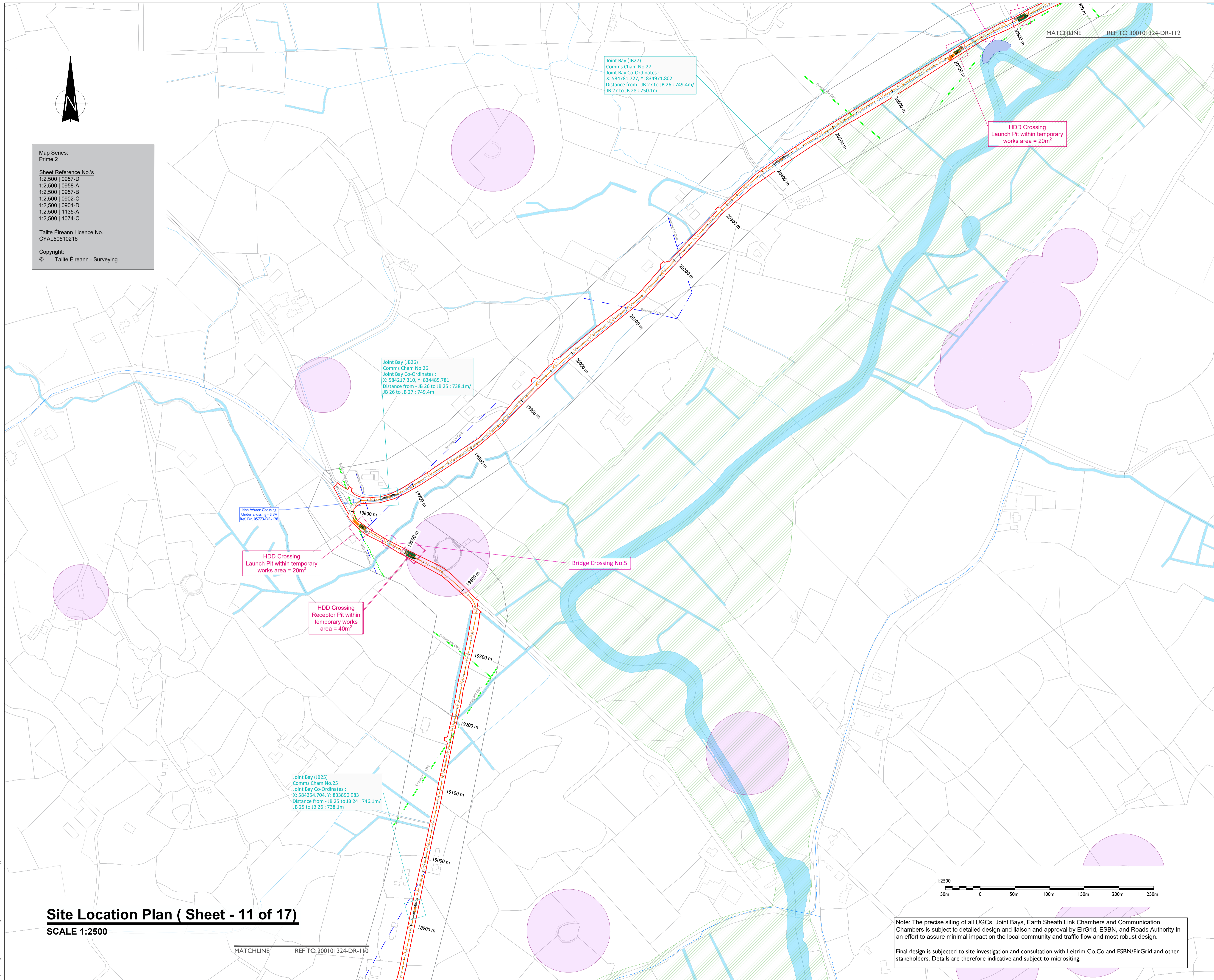


Map Series:
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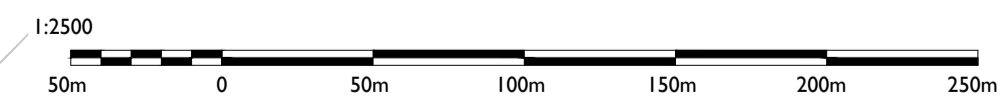
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Site Location Plan (Sheet - 11 of 17)

SCALE 1:2500

MATCHLINE REF TO 300101324-DR-110



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Ireland
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PROJECT

**Lissinagroagh
Wind Farm
110kV Grid Connection**

CLIENT



CONSULTANTS



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LEGEND: -

Proposed UGC Grid Route shown thus (32.0Km)	
Red Line Planning Boundary shown thus	
Existing Lake, River Network shown thus	
Existing Stream Network shown thus	
Existing ESB LV/MV Networks shown thus	
Existing ESB HV OHL Networks shown thus	
Existing Irish Water Services shown thus	
Notification Zone for Heritage Monument shown thus	
Special Areas of Conservation (SAC)	

**ISSUED FOR PLANNING
21.04.2026**

ISSUE/REVISION

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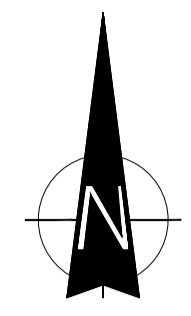
05-773

SHEET TITLE

Site Layout Plan
Sheet 11 of 17

SHEET NUMBER

05773-DR-111



Map Series:
Prime 2

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MATCHLINE REF TO 300101324-DR-113

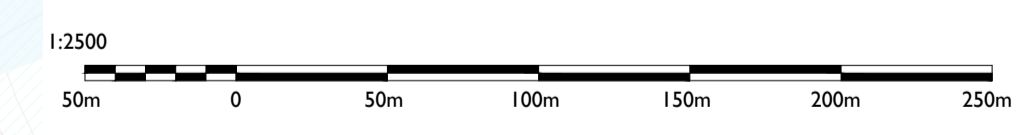
Joint Bay (JB29)
Comms Cham No.29
Joint Bay Co-Ordinates:
X: 585979.855, Y: 835855.457
Distance from - JB 29 to JB 28 : 750.1m/
JB 29 to JB 30 : 749.2m

Joint Bay (JB28)
Comms Cham No.28
Joint Bay Co-Ordinates:
X: 585408.293, Y: 835378.048
Distance from - JB 28 to JB 27 : 750.1m/
JB 28 to JB 29 : 750.1m

Chvert Over Crossing
Deal
Ref. Dr. 05773-DR-127

HDD Crossing
Receptor Pit within
temporary works
area = 40m²

Bridge Crossing No.6



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Site Location Plan (Sheet - 12 of 17)
SCALE 1:2500



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Tralee, Co. Kerry
Ireland
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PROJECT

**Lissinagroagh
Wind Farm
110kV Grid Connection**

CLIENT



CONSULTANTS



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LEGEND: -

Proposed UGC Grid Route shown thus (32.0Km)	
Red Line Planning Boundary shown thus	
Existing Lake, River Network shown thus	
Existing Stream Network shown thus	
Existing ESB LV/MV Networks shown thus	
Existing ESB HV OHL Networks shown thus	
Existing Irish Water Services shown thus	
Notification Zone for Heritage Monument shown thus	
Special Areas of Conservation (SAC)	

ISSUED FOR PLANNING
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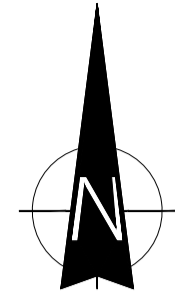
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I/R	DATE	DESCRIPTION

PROJECT NUMBER
05-773

SHEET TITLE
Site Layout Plan
Sheet 12 of 17

SHEET NUMBER
05773-DR-112



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1:2.500 | 1135-A
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Joint Bay (JB31)
Comms Cham No.31
Joint Bay Co-Ordinates:
X: 586416.951, Y: 837218.001
Distance from - JB 31 to JB 30 : 749.1m/
JB 31 to JB 32 : 750.0m

Joint Bay (JB30)
Comms Cham No.30
Joint Bay Co-Ordinates:
X: 586395.286, Y: 836471.794
Distance from - JB 30 to JB 29 : 759.2m/
JB 30 to JB 31 : 749.1m

MATCHLINE REF TO 300101324-DR-114

MATCHLINE REF TO 300101324-DR-112

Site Location Plan (Sheet - 13 of 17)
SCALE 1:2500



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PROJECT

**Lissingroagh
Wind Farm
110kV Grid Connection**

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LEGEND: -

Proposed UGC Grid Route shown thus (32.0km)	
Red Line Planning Boundary shown thus	
Existing Lake, River Network shown thus	
Existing Stream Network shown thus	
Existing ESB L/M/V Networks shown thus	
Existing ESB HV OHL Networks shown thus	
Existing Irish Water Services shown thus	
Notification Zone for Heritage Monument shown thus	
Special Areas of Conservation (SAC)	

**ISSUED FOR PLANNING
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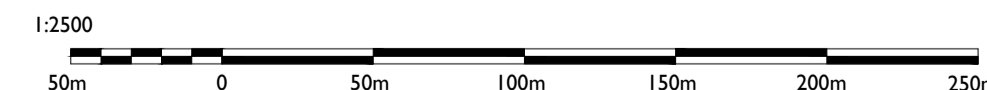
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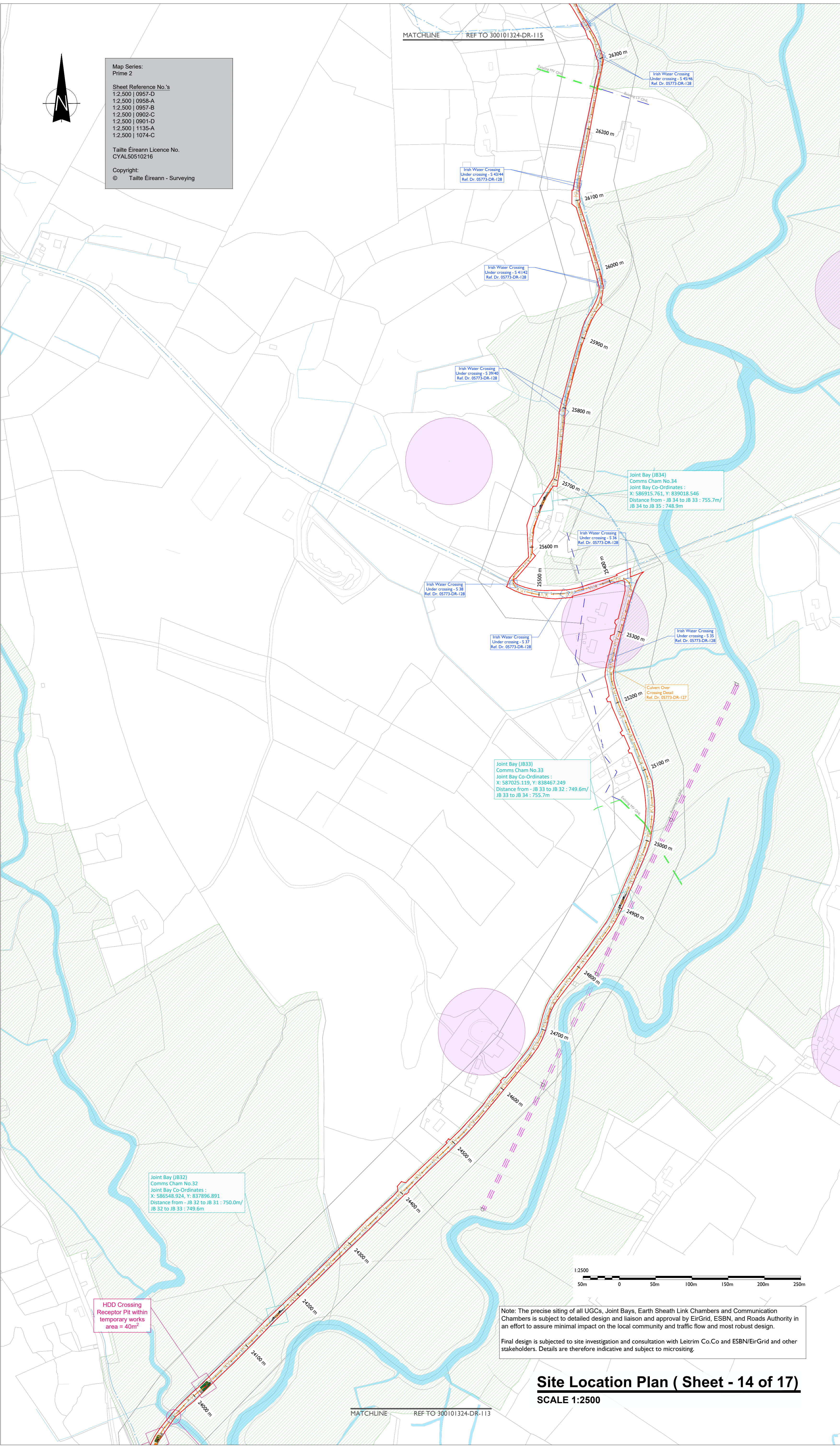
SHEET TITLE
Site Layout Plan
Sheet 13 of 17

SHEET NUMBER
05773-DR-113

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LEGEND: -

Proposed UGC Grid Route shown thus (32.0Km)	
Red Line Planning Boundary shown thus	
Existing Lake, River Network shown thus	
Existing Stream Network shown thus	
Existing ESB LV/MV Networks shown thus	
Existing ESB HV OHL Networks shown thus	
Existing Irish Water Services shown thus	
Notification Zone for Heritage Monument shown thus	
Special Areas of Conservation (SAC)	

ISSUED FOR PLANNING
21.04.2026

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PROJECT

Lissinagroagh Wind Farm 110kV Grid Connection

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FuturEnergy Ireland

CONSULTANTS

TOBIN CONSULTING ENGINEERS

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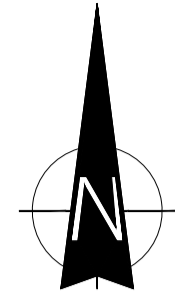
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PROJECT NUMBER
05-773

SHEET TITLE
Site Layout Plan
Sheet 14 of 17

SHEET NUMBER
05773-DR-114

Site Location Plan (Sheet - 14 of 17)
SCALE 1:2500

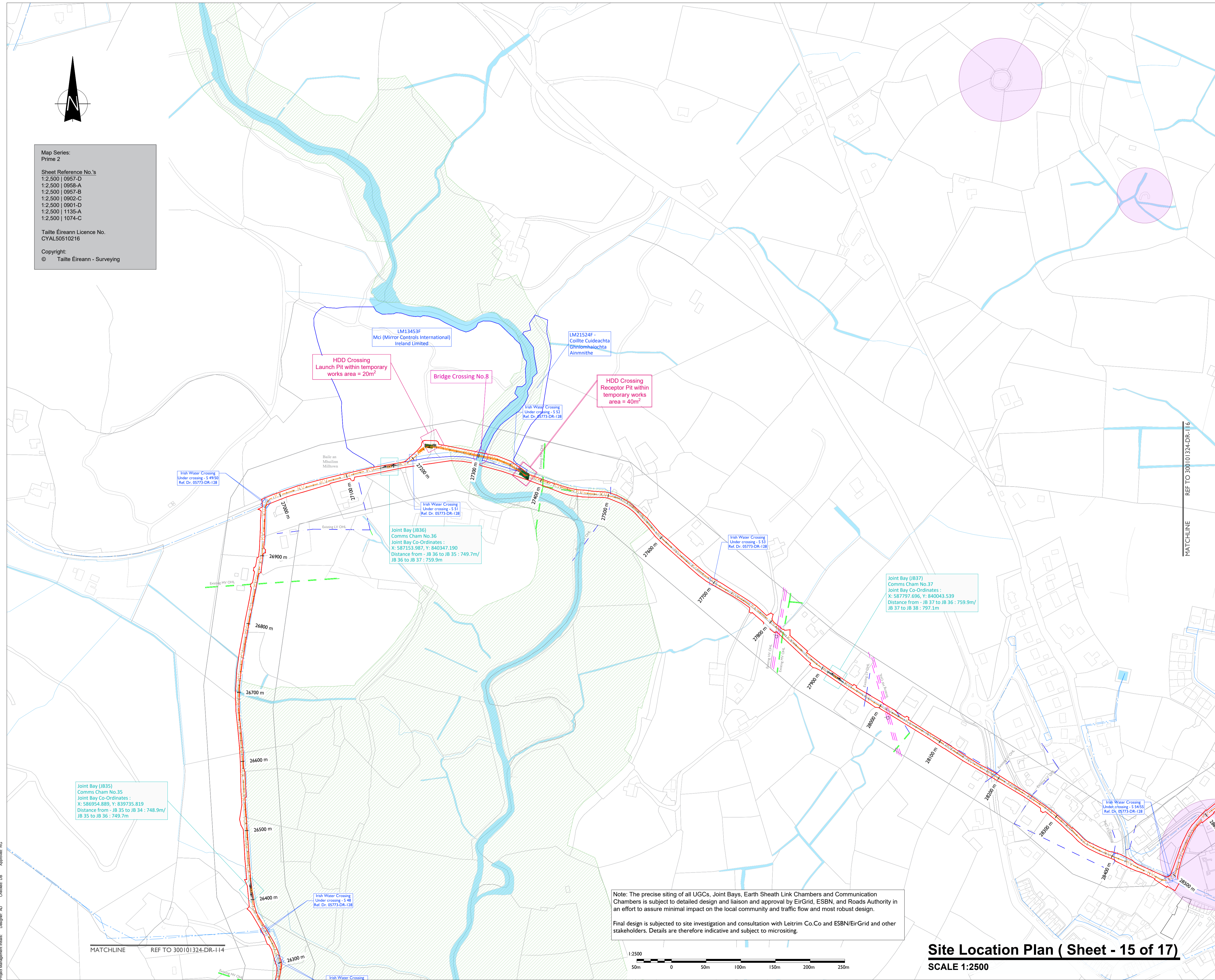


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PROJECT

**Lissinagroagh
Wind Farm
110kV Grid Connection**

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LEGEND: -

Proposed UGC Grid Route shown thus (32.0Km)	
Red Line Planning Boundary shown thus	
Existing Lake, River Network shown thus	
Existing Stream Network shown thus	
Existing ESB LV/MV Networks shown thus	
Existing ESB HV OHL Networks shown thus	
Existing Irish Water Services shown thus	
Notification Zone for Heritage Monument shown thus	
Special Areas of Conservation (SAC)	
Landowners Boundary shown thus	

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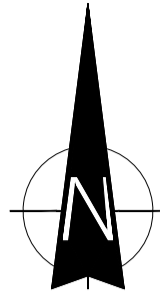
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05-773

SHEET TITLE
Site Layout Plan
Sheet 15 of 17

SHEET NUMBER
05773-DR-115

Site Location Plan (Sheet - 15 of 17)
SCALE 1:2500

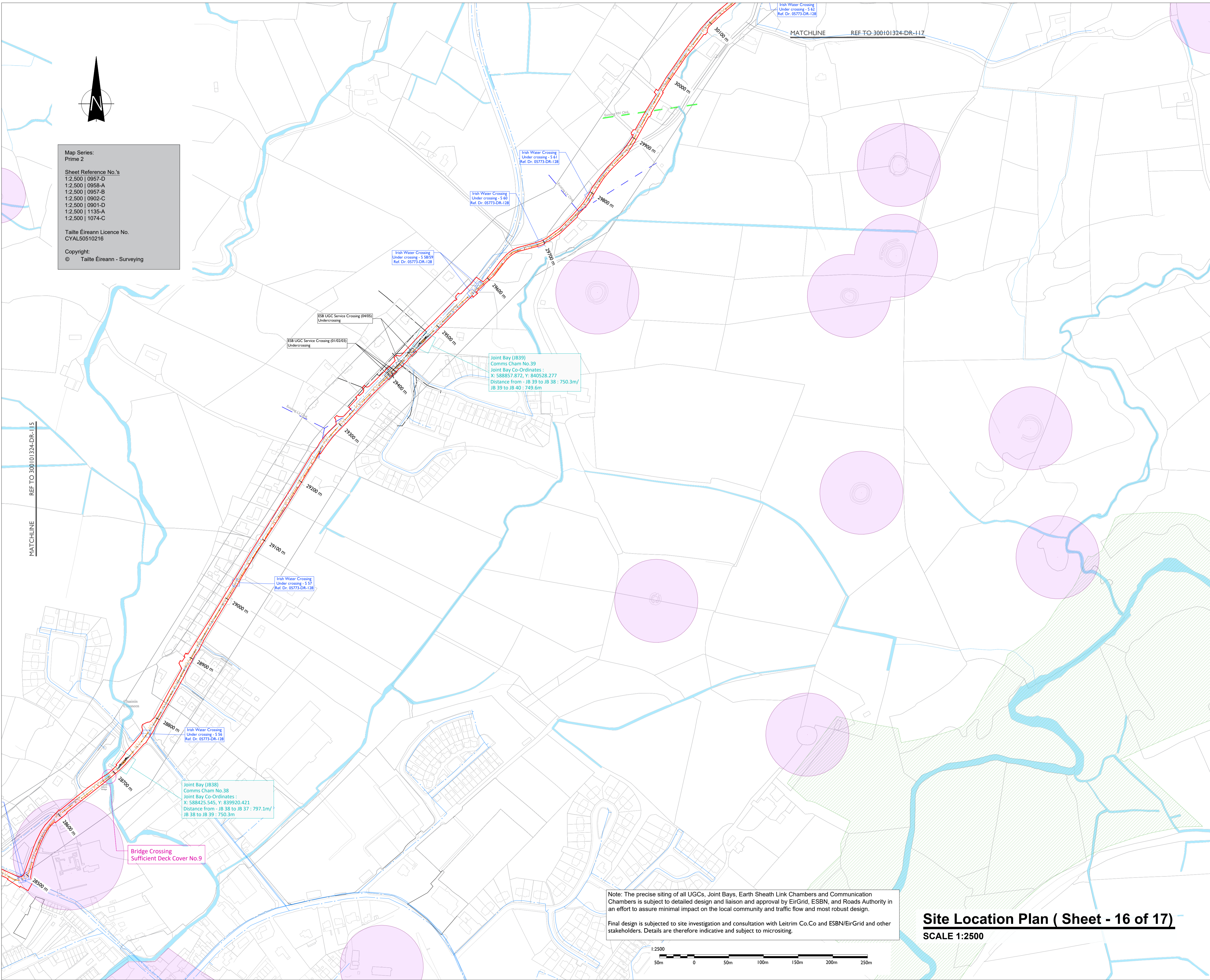


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PROJECT

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Wind Farm
110kV Grid Connection**

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CONSULTANTS



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LEGEND: -

Proposed UGC Grid Route shown thus (32.0Km)	
Red Line Planning Boundary shown thus	
Existing Lako, River / Stream Network shown thus	
Existing ESB Underground MV cable shown thus	
Existing ESB LVMV Networks shown thus	
Existing ESB HV OHL Networks shown thus	
Existing Irish Water Services shown thus	
Notification Zone for Heritage Monument shown thus	
Special Areas of Conservation (SAC)	

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21.04.2026**

ISSUE/REVISION

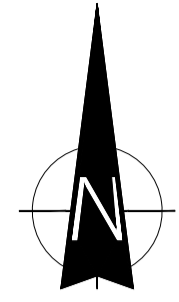
NO	DATE	DESCRIPTION
P03	21.04.26	Issued for Planning
P02	20.04.26	Issued for Planning
P01	30.01.26	Issued for Planning
I/R	DATE	DESCRIPTION

PROJECT NUMBER
05-773

SHEET TITLE
Site Layout Plan
Sheet 16 of 17

SHEET NUMBER
05773-DR-116

Site Location Plan (Sheet - 16 of 17)
SCALE 1:2500

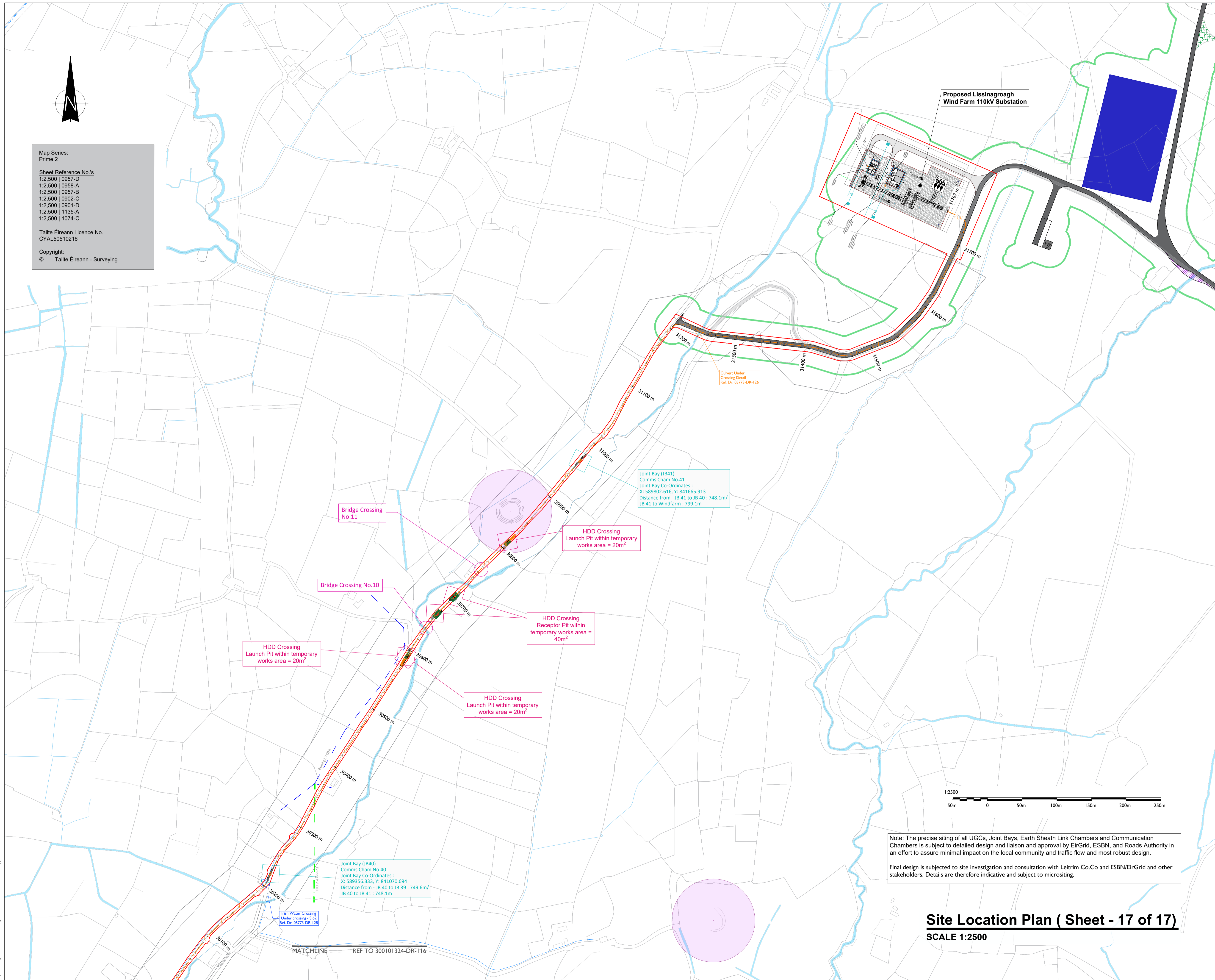


Map Series:
Prime 2

Sheet Reference No.'s
1:2,500 | 0957-D
1:2,500 | 0958-A
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1:2,500 | 0901-D
1:2,500 | 1135-A
1:2,500 | 1074-C

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Head Office
Beenrigh,
Abbeydorney,
Tralee, Co. Kerry
Ireland
Tel: 00353 66 7135710

Regional Office
Basepoint Business Centre
Stroudley Road, Basingstoke,
Hampshire,
RG24 8UP, UK
Tel: 00 44 1256406664

PROJECT

**Lissinagroagh
Wind Farm
110kV Grid Connection**

CLIENT

FuturaEnergy
Ireland

CONSULTANTS

TOBIN
CONSULTING ENGINEERS

NOTES: -

- This drawing is to be read in conjunction with relevant drawings, specifications and reports.
- Path of cable route may vary depending on site conditions and presence of existing services.
- Duct and cable sizes to be confirmed as part of detailed design.
- Other services may be encountered along the route.
- Existing road build up and reinstatement requirements to be confirmed with Leitrim Co.Co

LEGEND: -

Proposed UGC Grid Route shown thus (32.0km)	
Red Line Planning Boundary shown thus	
EIAR Planning Boundary	
Permanent Paved Access Roads shown thus	
Existing Lake, River / Stream Network shown thus	
Existing ESB LV/MV Networks shown thus	
Existing ESB HV OHL Networks shown thus	
Existing Irish Water Services shown thus	
Notification Zone for Heritage Monument shown thus	

**ISSUED FOR PLANNING
21.04.2026**

ISSUE/REVISION

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PROJECT NUMBER

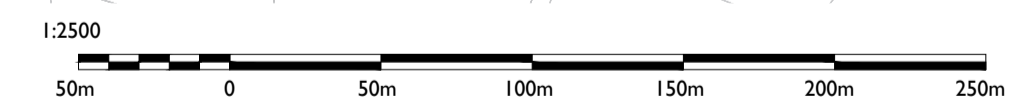
05-773

SHEET TITLE

Site Layout Plan
Sheet 17 of 17

SHEET NUMBER

05773-DR-117

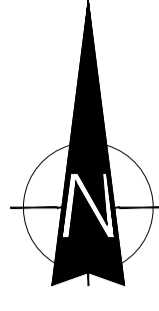


Note: The precise siting of all UGCs, Joint Bays, Earth Sheath Link Chambers and Communication Chambers is subject to detailed design and liaison and approval by EirGrid, ESBN, and Roads Authority in an effort to assure minimal impact on the local community and traffic flow and most robust design.

Final design is subjected to site investigation and consultation with Leitrim Co.Co and ESN/EirGrid and other stakeholders. Details are therefore indicative and subject to micro-siting.

Site Location Plan (Sheet - 17 of 17)
SCALE 1:2500

MATCHLINE REF TO 300101324-DR-116



Map Series:
Prime Data Vector

Discovery Tile Numbers:
OS1632, OS1832, OS1834

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

Regional Office
Basepoint Business Centre
Stourley Road, Basingstoke,
Hampshire,
RG24 8UP, UK
Tel: 00 44 1256406664

PROJECT

Lissinagroagh (WF)
Wind Farm
110kV Grid Connection

CLIENT

FuturaEnergy Ireland

CONSULTANTS

TOBIN
CONSULTING ENGINEERS

NOTES:-

- This drawing is to be read in conjunction with relevant drawings, specifications and reports.
- Path of cable route may vary depending on site conditions and presence of existing services.
- Duct and cable sizes to be confirmed as part of detailed design.
- Other services may be encountered along the route.
- Existing road build up and reinstatement requirements to be confirmed with Leitrim Co.Co

LEGEND:-

- Proposed UGC Grid Route shown thus
- Red Line Planning Boundary shown thus
- EIAR Planning Boundary
- Permanent Paved Access Roads shown thus
- Windfarm Development Area

ISSUED FOR PLANNING
21.04.2026

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PROJECT NUMBER

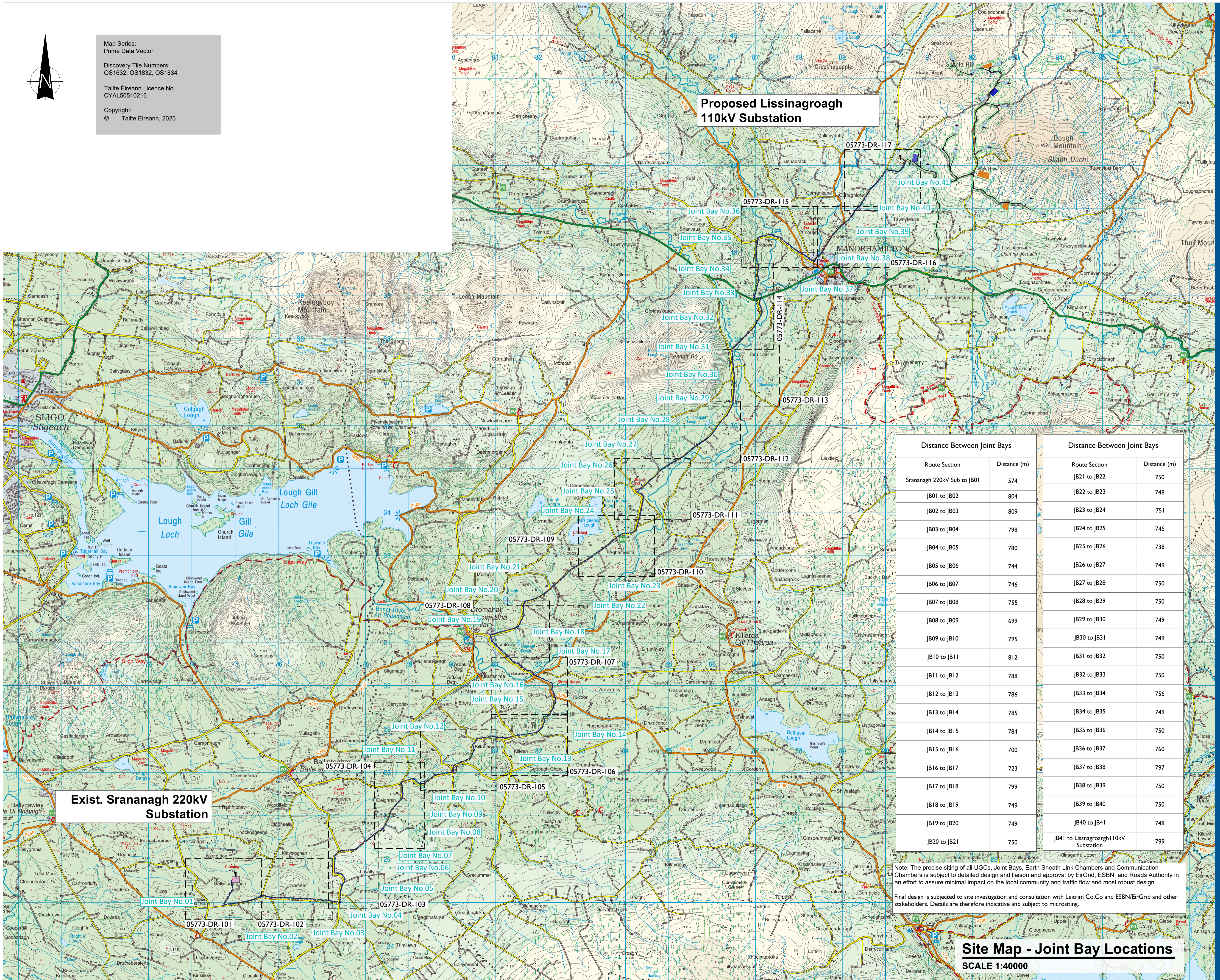
05-773

SHEET TITLE

Site Map - Joint Bay Locations

SHEET NUMBER

05773-DR-118



**Proposed Lissinagroagh
110kV Substation**

**Exist. Sranagh 220kV
Substation**

Distance Between Joint Bays		Distance Between Joint Bays	
Route Section	Distance (m)	Route Section	Distance (m)
Sranagh 220kV Sub to JB01	574	JB21 to JB22	750
JB01 to JB02	804	JB22 to JB23	748
JB02 to JB03	809	JB23 to JB24	751
JB03 to JB04	798	JB24 to JB25	746
JB04 to JB05	780	JB25 to JB26	738
JB05 to JB06	744	JB26 to JB27	749
JB06 to JB07	746	JB27 to JB28	750
JB07 to JB08	755	JB28 to JB29	750
JB08 to JB09	699	JB29 to JB30	749
JB09 to JB10	795	JB30 to JB31	749
JB10 to JB11	812	JB31 to JB32	750
JB11 to JB12	788	JB32 to JB33	750
JB12 to JB13	786	JB33 to JB34	756
JB13 to JB14	785	JB34 to JB35	749
JB14 to JB15	784	JB35 to JB36	750
JB15 to JB16	700	JB36 to JB37	760
JB16 to JB17	723	JB37 to JB38	797
JB17 to JB18	799	JB38 to JB39	750
JB18 to JB19	749	JB39 to JB40	750
JB19 to JB20	749	JB40 to JB41	748
JB20 to JB21	750	JB41 to Lissinagroagh 110kV Substation	799

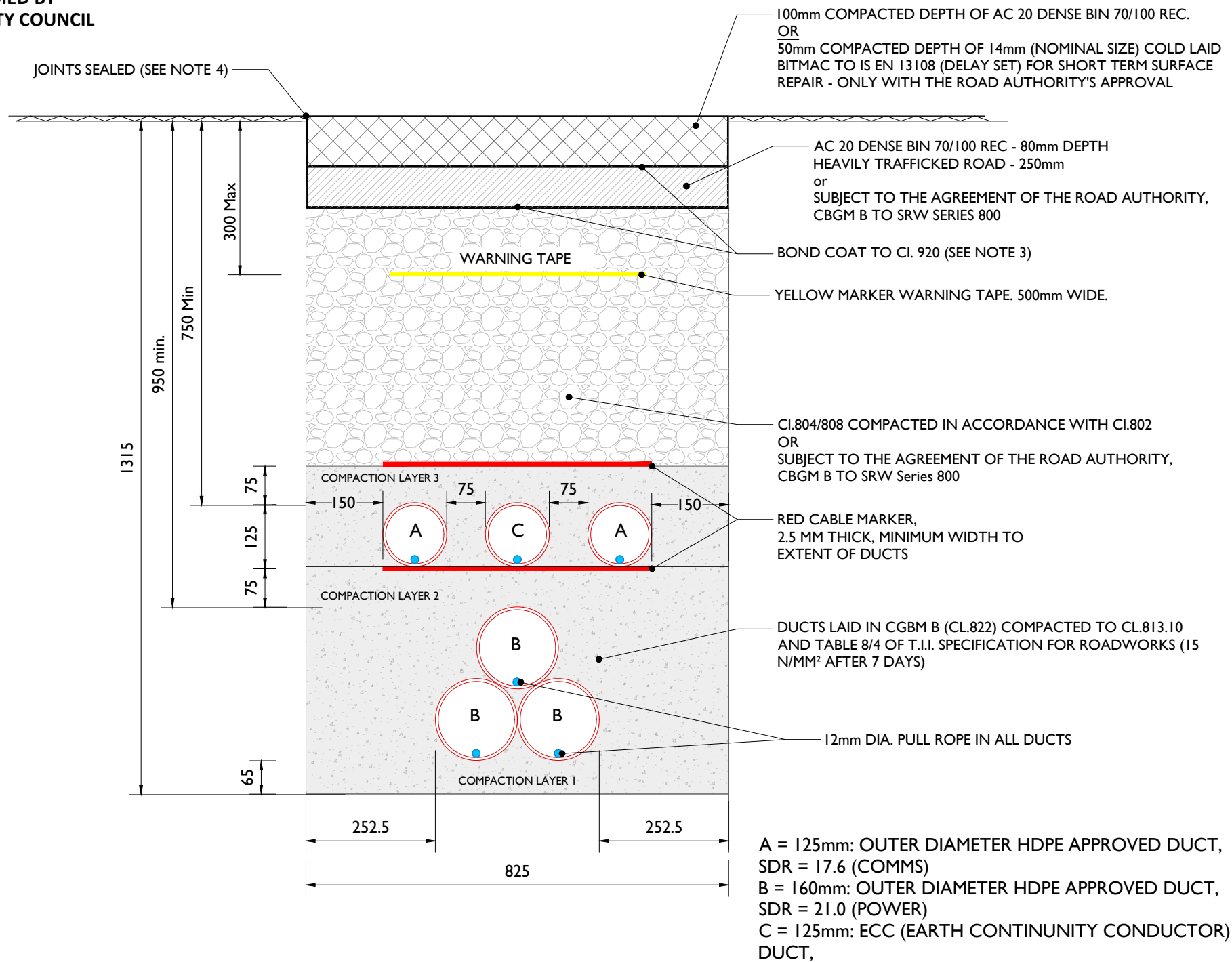
Note: The precise siting of all UGCs, Joint Bays, Earth Sheath Link Chambers and Communication Chambers is subject to detailed design and liaison and approval by EirGrid, ESBN, and Roads Authority in an effort to assure minimal impact on the local community and traffic flow and most robust design.

Final design is subjected to site investigation and consultation with Leitrim Co.Co and ESBN/EirGrid and other stakeholders. Details are therefore indicative and subject to microsetting.

Site Map - Joint Bay Locations
SCALE 1:40000

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

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



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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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.

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

SCALE 1:10



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

CLIENT
FuturEnergy Ireland

PROJECT
**Lissinagroagh Wind Farm
110 kV Grid Connection**

PROJECT NUMBER: 05-773
SHEET NUMBER: 05773-DR-119a

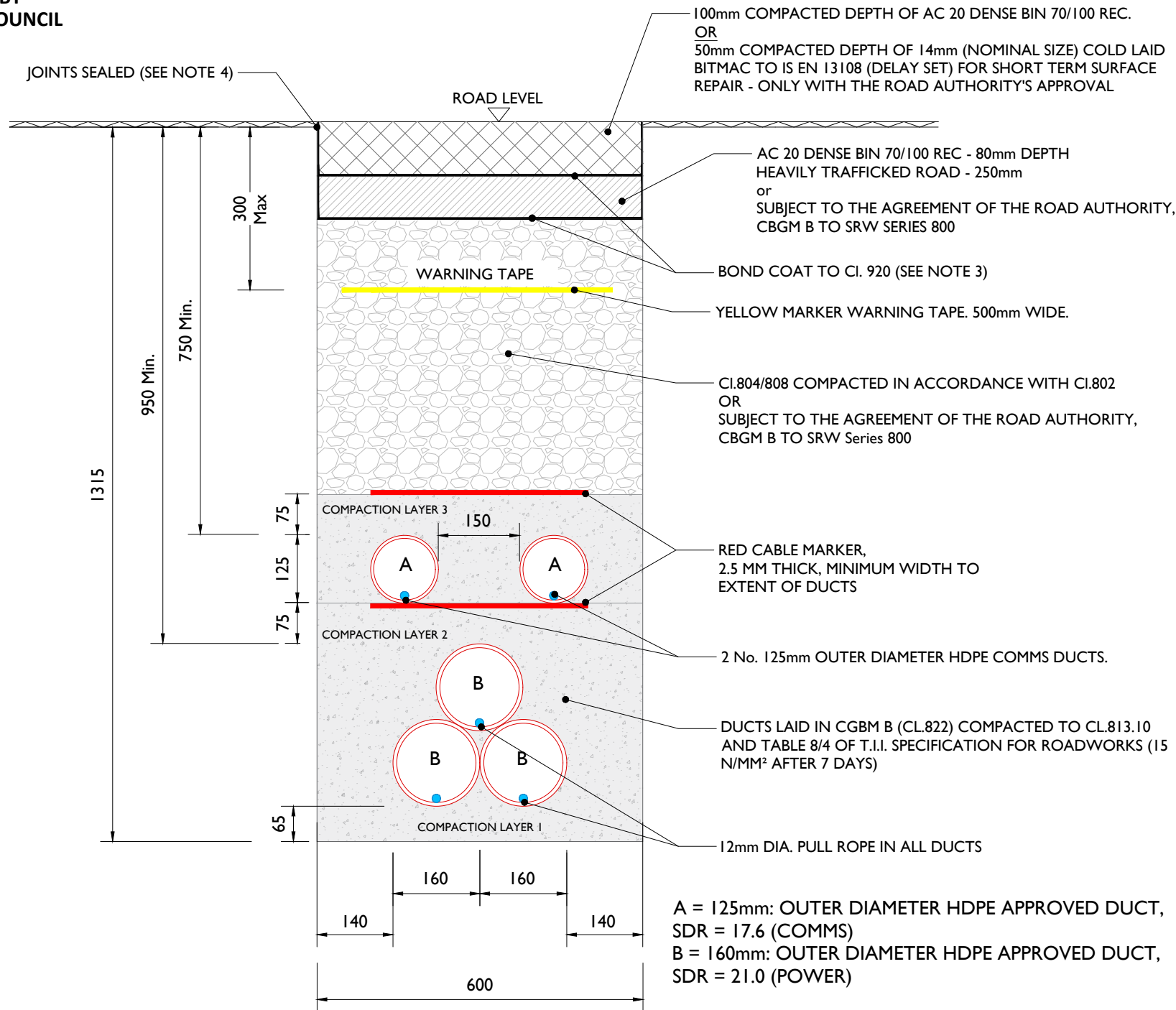
SHEET TITLE
**Ducting through Local Roads
Temporary Reinstatement (SDI) with ECC**

DRAWING STATUS
For Planning

ISSUE/REVISION		
I/R	DATE	DESCRIPTION
P01	21.04.26	Issued for Planning
P00	12.01.26	Issued for Planning

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

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



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

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

SCALE 1:10



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

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PROJECT
Lissinagroagh Wind Farm
110 kV Grid Connection

PROJECT NUMBER
05-773

SHEET NUMBER
05773-DR-119b

SHEET TITLE
Ducting Through Local Roads
Temporary Reinstatement (SDI)

DRAWING STATUS
For Planning

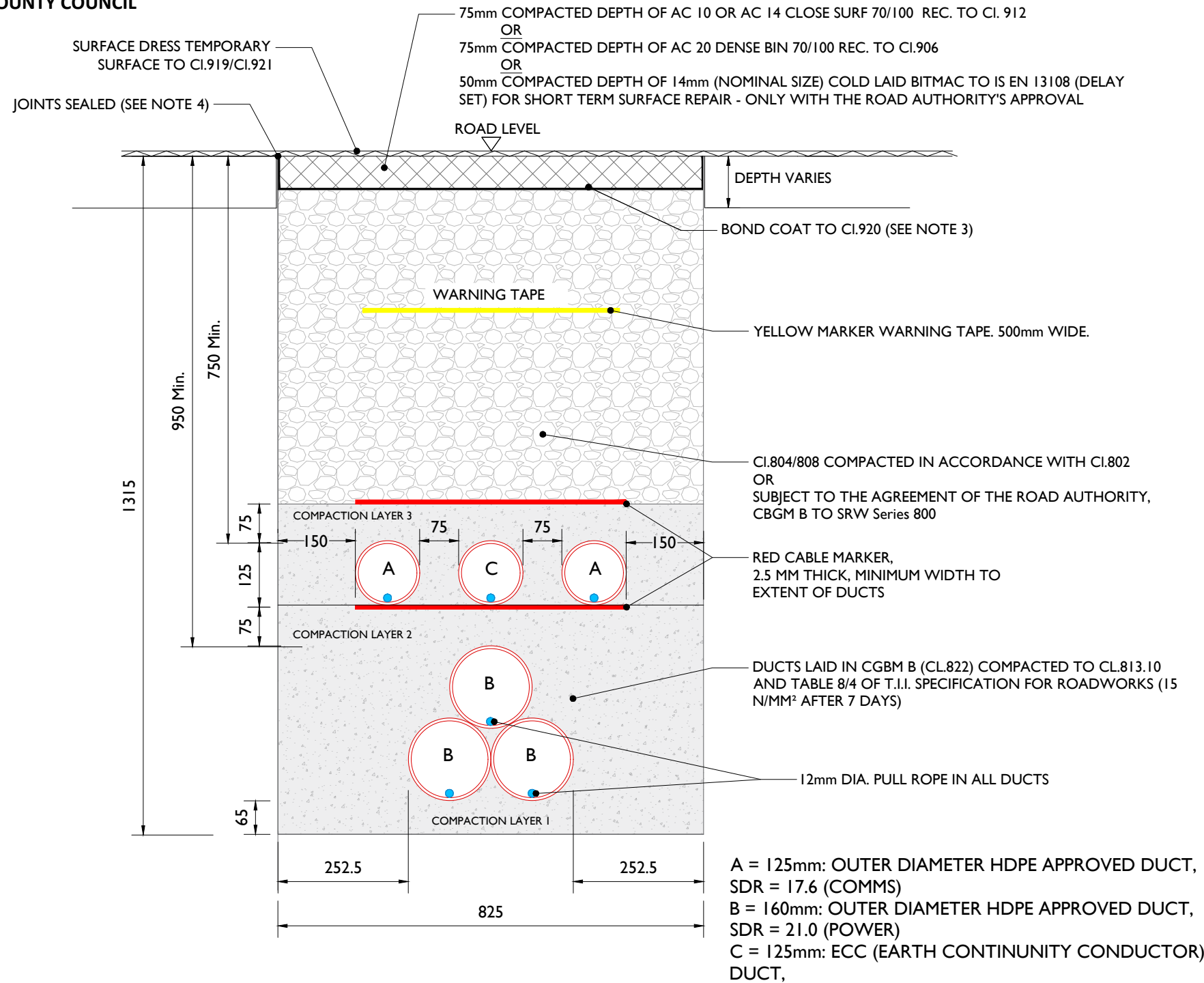
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ISSUE/REVISION	DATE	DESCRIPTION
P01	21.04.26	Issued for Planning
P00	12.01.26	Issued for Planning
I/R	DATE	DESCRIPTION

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

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

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



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

SCALE 1:10



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

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PROJECT
**Lissinagroagh Wind Farm
110 kV Grid Connection**

PROJECT NUMBER: 05-773
SHEET NUMBER: 05773-DR-119c

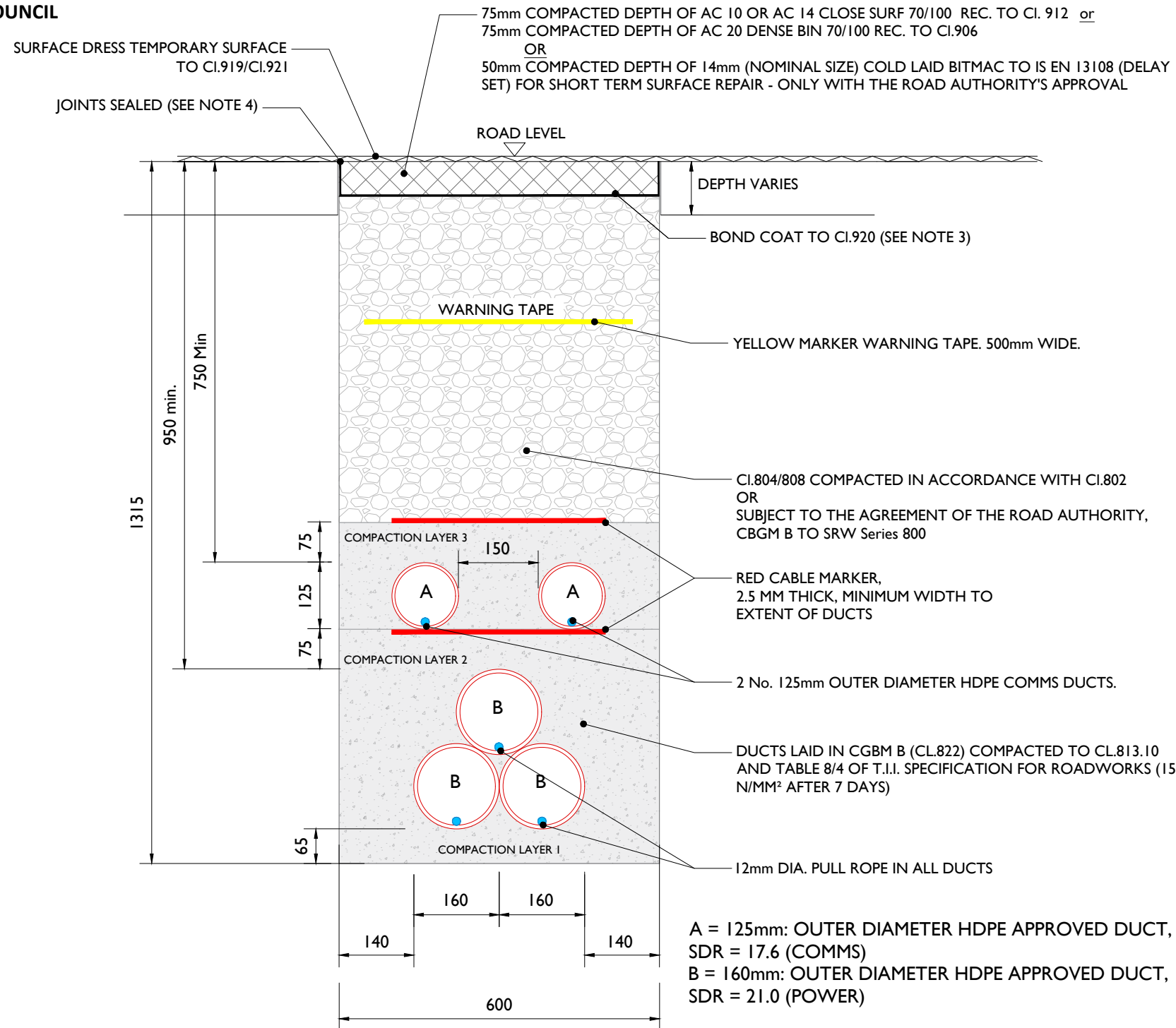
SHEET TITLE
**Ducting Through Local Roads
Temporary Reinstatement (SD2) with ECC**

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For Planning

ISSUE/REVISION		
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P01	21.04.26	Issued for Planning
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EXISTING ROAD BUILD-UP
TO BE CONFIRMED BY
LEITRIM COUNTY COUNCIL

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



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

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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.

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

SCALE 1:10



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Beenreigh,
Abbeydorney,
Tralee, Co. Kerry
Ireland
Tel: 00353 66 7135710

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PROJECT
Lissinagroagh Wind Farm
110 kV Grid Connection

PROJECT NUMBER
05-773

SHEET NUMBER
05773-DR-119d

SHEET TITLE
Ducting Through Local Roads
Temporary Reinstatement (SD2)

DRAWING STATUS
For Planning

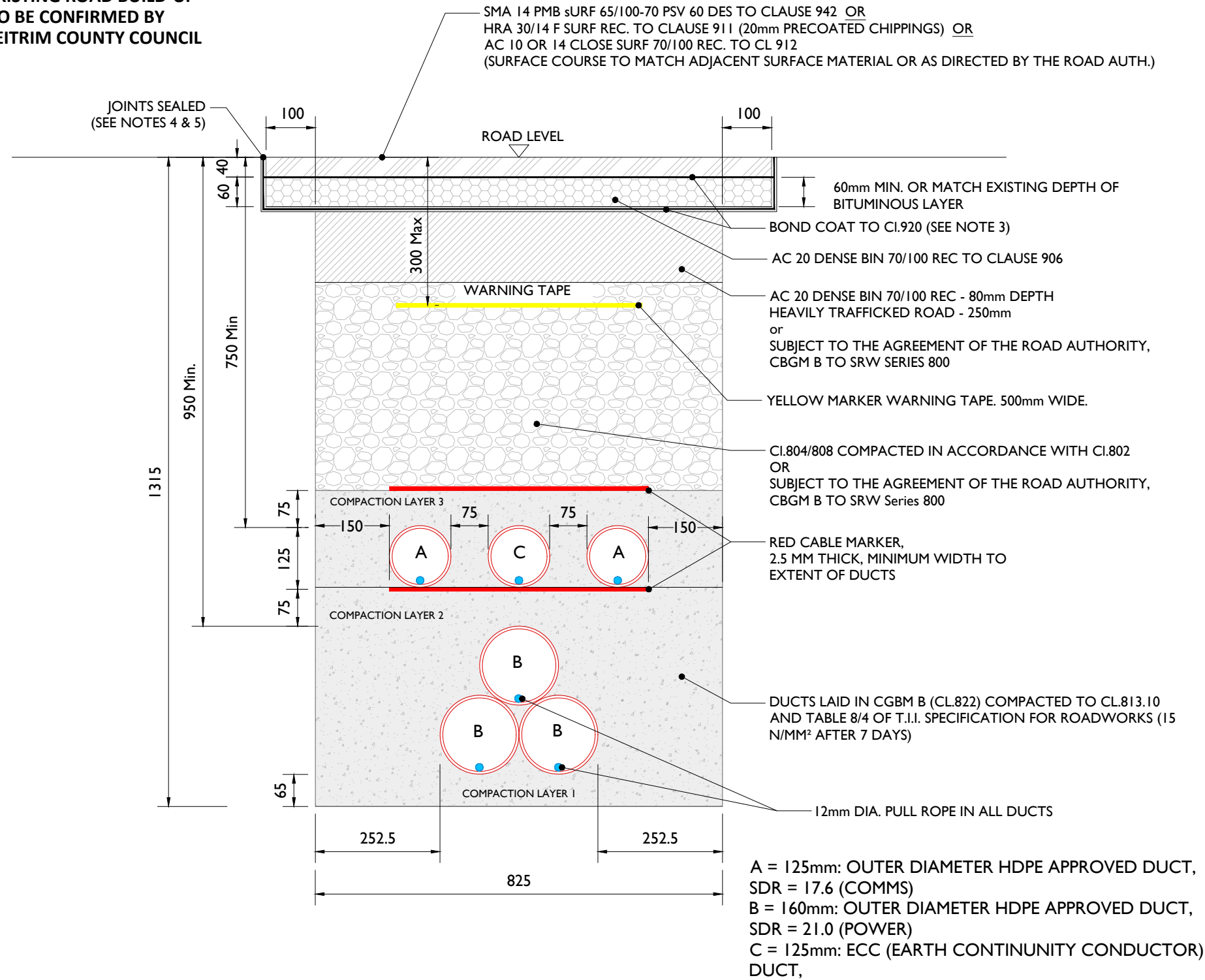
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ISSUE/REVISION	DATE	DESCRIPTION
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Reinstatement details based on Guidelines for Managing Openings in Public Roads - SD4

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

**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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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.

Typical Section Through Permanent Reinstatement of Longitudinal Opening in Roadway

SCALE 1:10



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

CLIENT
FuturEnergy Ireland

PROJECT
Lissinagroagh Wind Farm
110 kV Grid Connection

PROJECT NUMBER
05-773

SHEET NUMBER
05773-DR-120a

SHEET TITLE
Ducting Through Local Roads
Permanent Reinstatement (SD4) With ECC

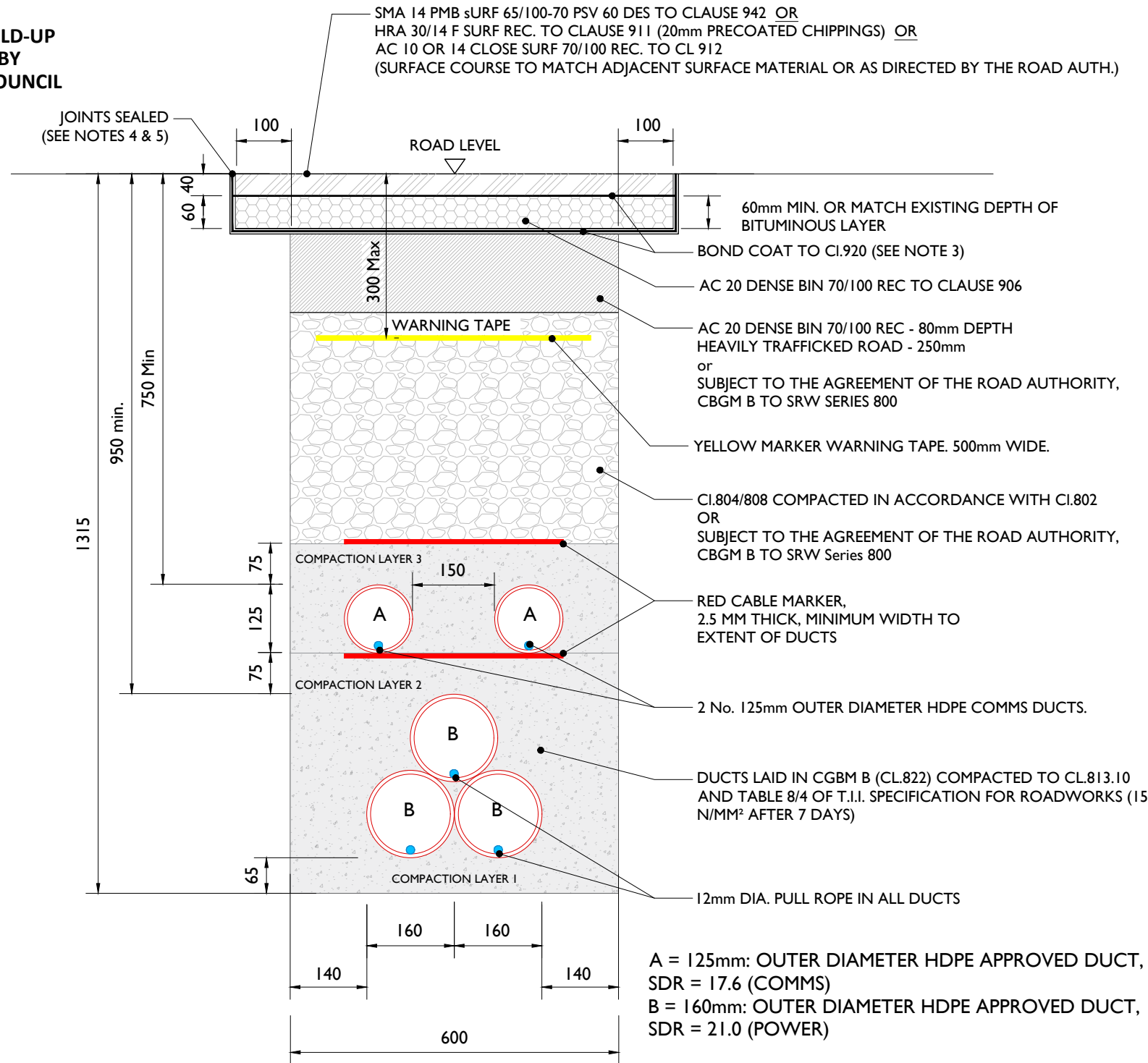
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For Planning

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ISSUE/REVISION	DATE	DESCRIPTION
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P00	12.01.26	Issued for Planning
I/R	DATE	DESCRIPTION

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

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



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Typical Section Through Permanent Reinstatement of Longitudinal Opening in Roadway

SCALE 1:10



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

CLIENT
FuturEnergy Ireland

PROJECT
Lissinagroagh Wind Farm
110 kV Grid Connection

PROJECT NUMBER SHEET NUMBER
05-773 05773-DR-120b

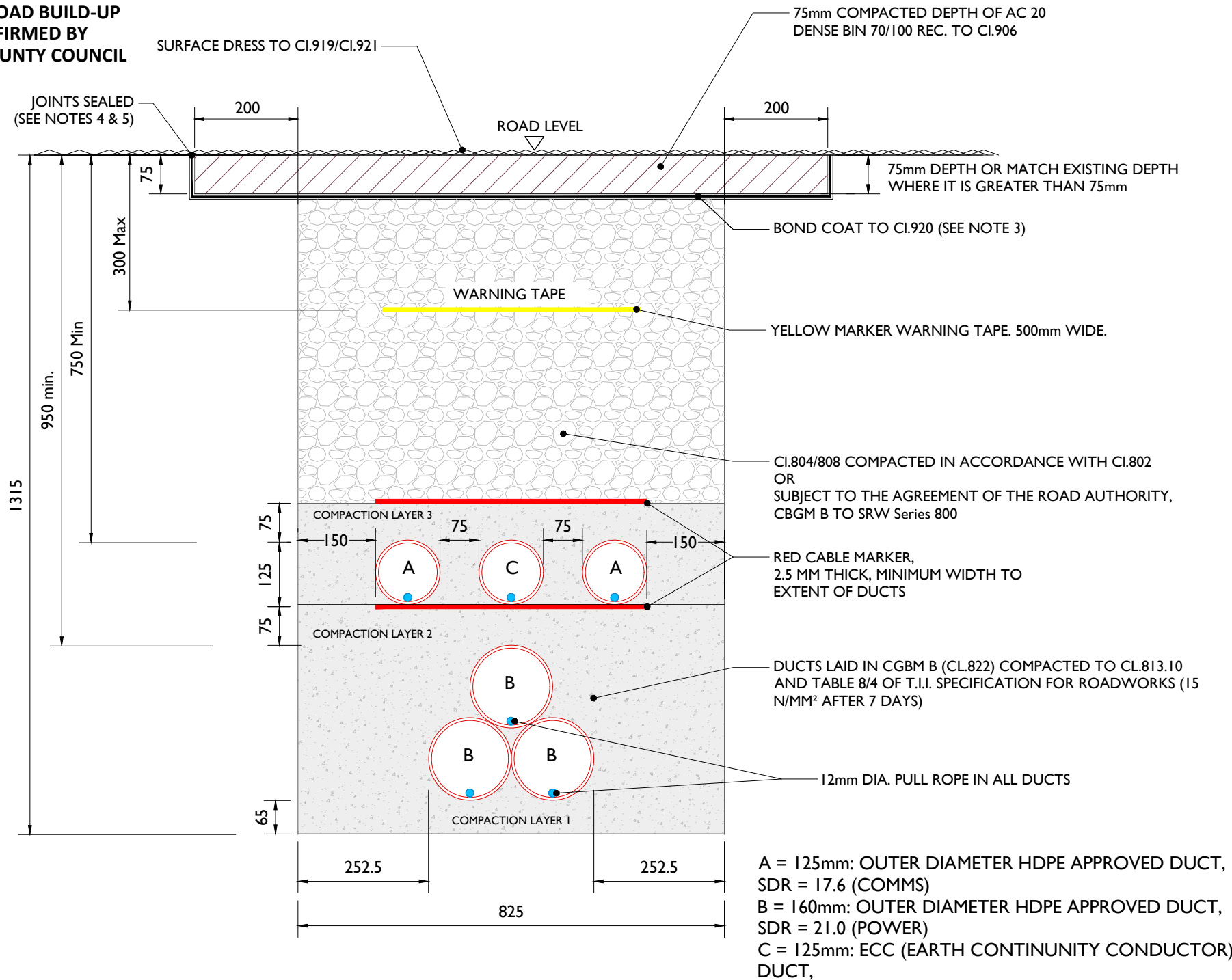
SHEET TITLE
Ducting Through Local Roads
Permanent Reinstatement (SD4)

DRAWING STATUS
For Planning

ISSUE/REVISION		
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P01	21.04.26	Issued for Planning
P00	12.01.26	Issued for Planning

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

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



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Typical Section Through Permanent Reinstatement of Longitudinal Opening in Roadway

SCALE 1:10



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

CLIENT
FuturEnergy Ireland

PROJECT
 Lissinagroagh Wind Farm
 110 kV Grid Connection

PROJECT NUMBER: 05-773
 SHEET NUMBER: 05773-DR-120c

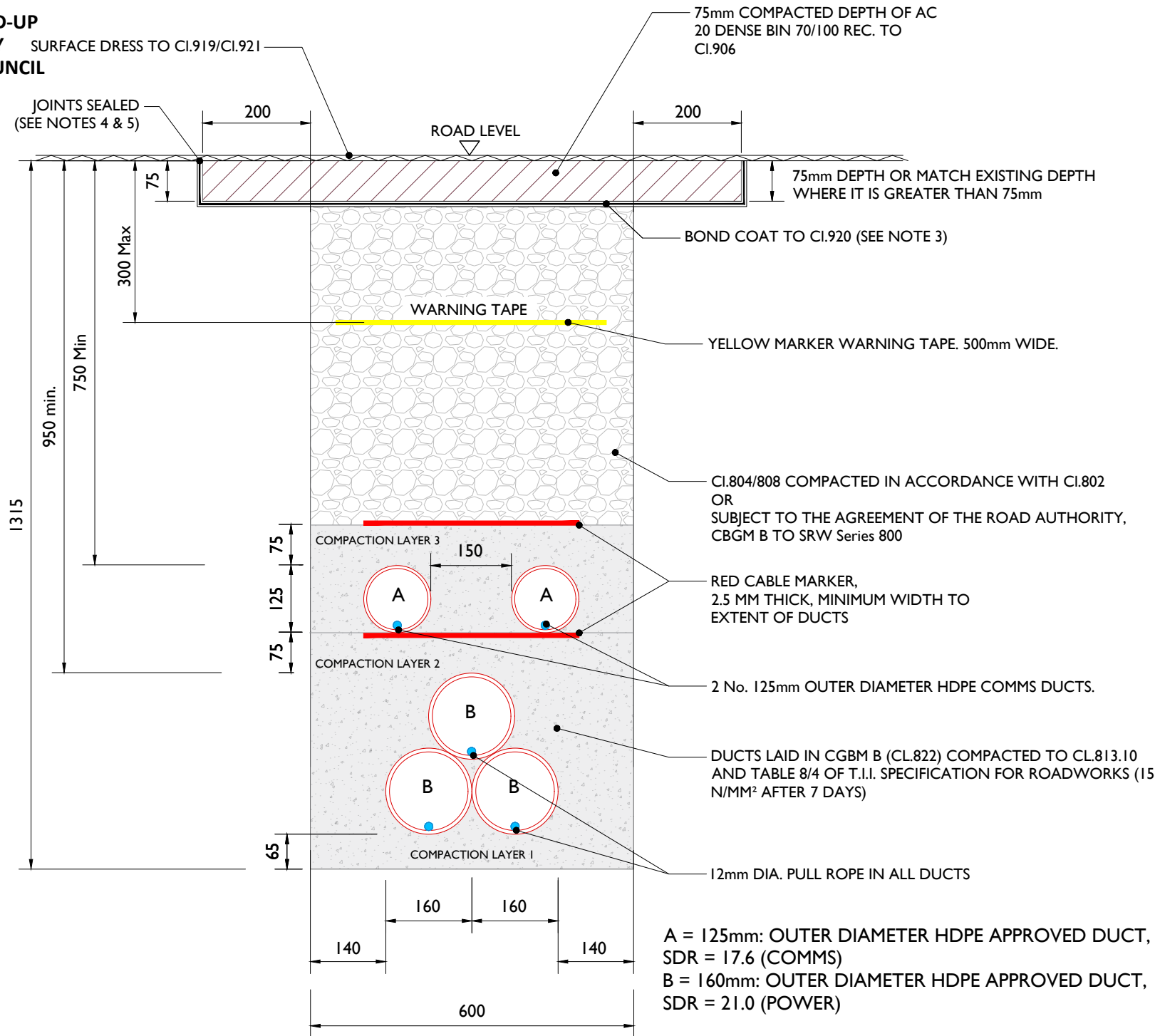
SHEET TITLE
 Ducting Through Local Roads
 Permanent Reinstatement (SD5) With ECC

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P01	21.04.26	Issued for Planning
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Reinstatement details based on Guidelines for Managing Openings in Public Roads - SD5

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



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2. All bound edges shall be saw cut to expose the full vertical thickness of each layer prior to excavation. All edges shall be essentially straight, smooth and vertical.
3. Clause 808 surface to be sprayed per clause 920 prior to application of Asphalt Concrete Layer.
4. Joint sealer shall be a hot 40/60 pen bitumen binder or cold thixotropic bitumen 50-70 pen to be applied to all vertical cuts in accordance with B.S. 594987 prior to application of bituminous materials.
5. 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 CI.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.

Typical Section Through Permanent Reinstatement of Longitudinal Opening in Roadway

SCALE 1:10



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

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PROJECT
 Lissinagroagh Wind Farm
 110 kV Grid Connection

PROJECT NUMBER: 05-773
 SHEET NUMBER: 05773-DR-120d

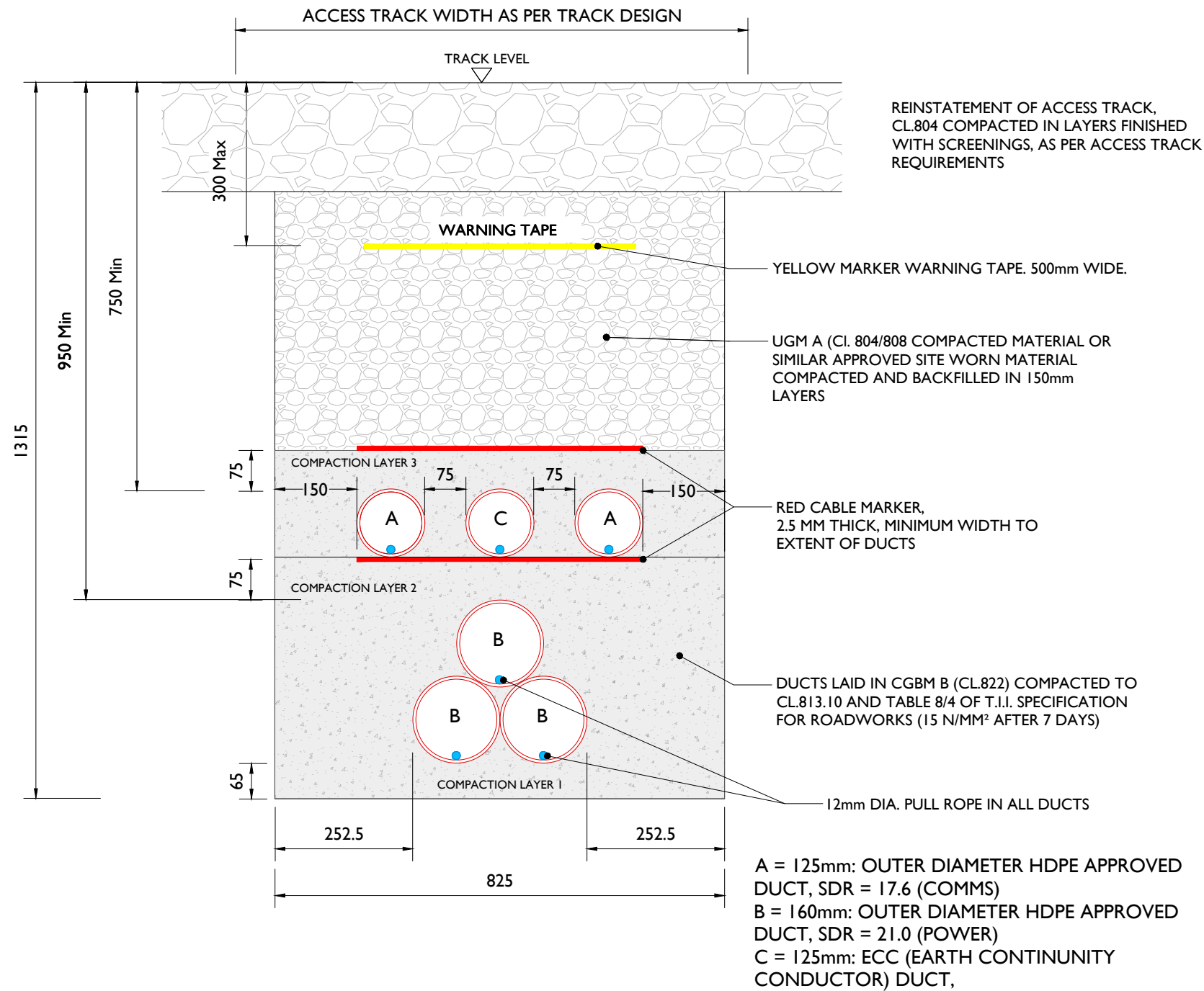
SHEET TITLE
 Ducting Through Local Roads
 Permanent Reinstatement (SD5)

DRAWING STATUS
 For Planning

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P01	21.04.26	Issued for Planning
P00	12.01.26	Issued for Planning

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



NOTES:

1. This design is subject to EirGrid & ESB approval and should be used for Planning purposes only.
2. The Customer shall submit all Planning Application designs and proposed cable routes in compliance with the specification requirements, for EirGrid to review and accept in advance of submitting to the local authority.
3. High Voltage cable installation across third party lands is to be avoided where possible.
4. High Voltage cable installation across peat lands is undesirable and only permitted in exceptional circumstances.
5. Service roads shall be installed along the cable route providing suitable and safe access for maintenance and cable pulling vehicles at all joint bay locations and along any section of the cable route that are not located within the public road.
6. A deed of easement in respect of the cable route to ESB shall be provided. (min width 4 m for 110 kV circuits and 5 m for 220 kV and 400 kV circuits)
7. Direct burial of the cable is not permitted in any circumstance.
8. This drawing is to be read in conjunction with relevant drawings, specifications and reports
9. Dimensions are in millimeters, unless noted otherwise
10. Drawings are not to be scaled use figured dimensions only

110kV Ducting in Access Track
SCALE 1:10



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 Tralee, Co. Kerry
 Ireland
 Tel: 00353 66 7135710

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PROJECT
 Lissinagroagh Wind Farm
 110 kV Grid Connection

PROJECT NUMBER
 05-773

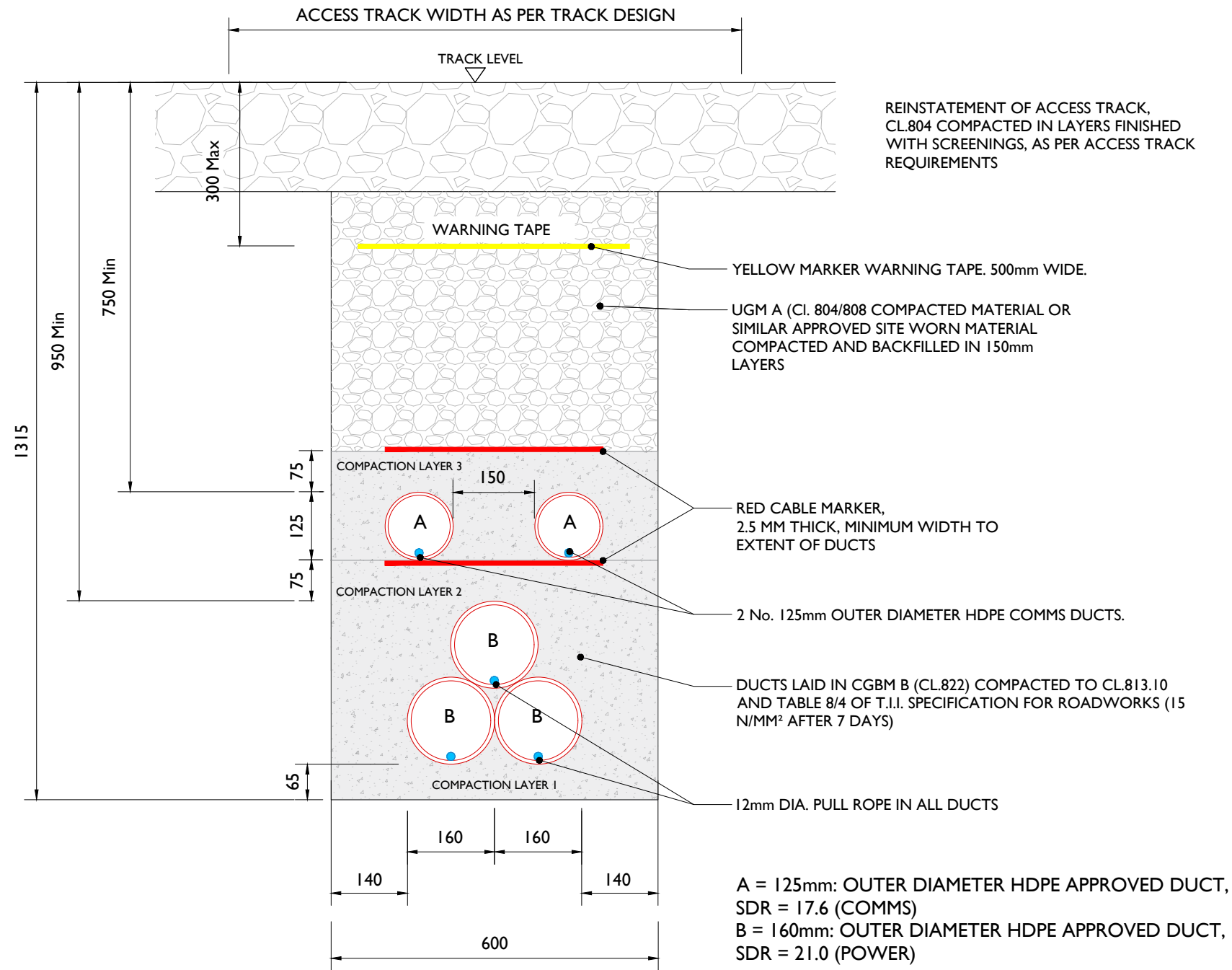
SHEET NUMBER
 05773-DR-121a

SHEET TITLE
 Ducting Through Access Track
 With ECC Duct

DRAWING STATUS
 For Planning

ISSUE/REVISION		
I/R	DATE	DESCRIPTION
P01	21.04.26	Issued for Planning
P00	12.01.26	Issued for Planning

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



NOTES:

1. This design is subject to EirGrid & ESB approval and should be used for Planning purposes only.
2. The Customer shall submit all Planning Application designs and proposed cable routes in compliance with the specification requirements, for EirGrid to review and accept in advance of submitting to the local authority.
3. High Voltage cable installation across third party lands is to be avoided where possible.
4. High Voltage cable installation across peat lands is undesirable and only permitted in exceptional circumstances.
5. Service roads shall be installed along the cable route providing suitable and safe access for maintenance and cable pulling vehicles at all joint bay locations and along any section of the cable route that are not located within the public road.
6. A deed of easement in respect of the cable route to ESB shall be provided. (min width 4 m for 110 kV circuits and 5 m for 220 kV and 400 kV circuits)
7. Direct burial of the cable is not permitted in any circumstance.
8. This drawing is to be read in conjunction with relevant drawings, specifications and reports
9. Dimensions are in millimeters, unless noted otherwise
10. Drawings are not to be scaled use figured dimensions only

110kV Ducting in Access Track
SCALE 1:10



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Abbeydorney,
Tralee, Co. Kerry
Ireland
Tel: 00353 66 7135710

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PROJECT
Lissinagroagh Wind Farm
110 kV Grid Connection

PROJECT NUMBER
05-773

SHEET NUMBER
05773-DR-121b

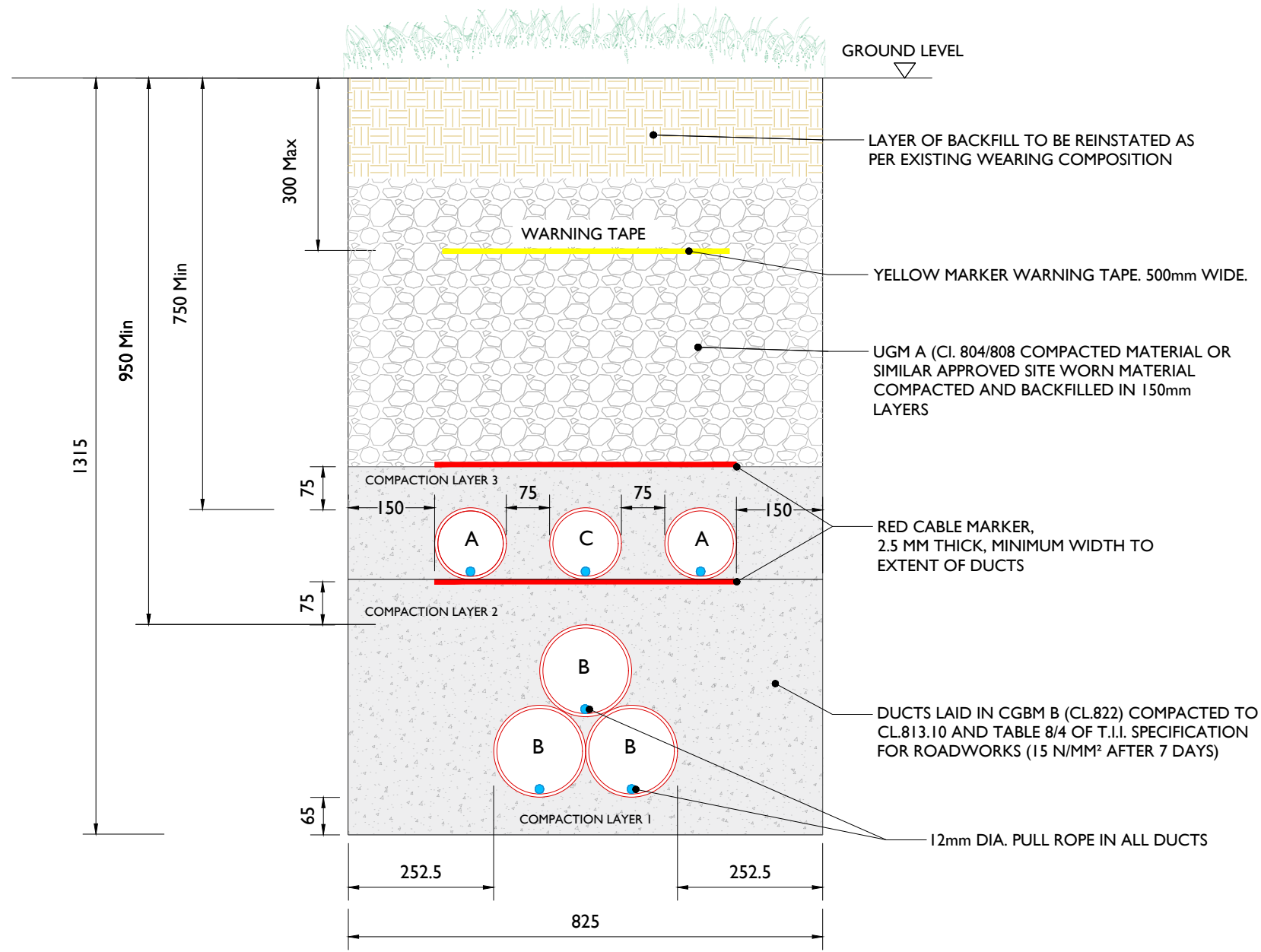
SHEET TITLE
Ducting Through Access Track

DRAWING STATUS
For Planning

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P01	21.04.26	Issued for Planning
P00	12.01.26	Issued for Planning

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



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 CONTINUITY CONDUCTOR) DUCT,

NOTES:

1. This design is subject to EirGrid & ESB approval and should be used for Planning purposes only.
2. The Customer shall submit all Planning Application designs and proposed cable routes in compliance with the specification requirements, for EirGrid to review and accept in advance of submitting to the local authority.
3. High Voltage cable installation across third party lands is to be avoided where possible.
4. High Voltage cable installation across peat lands is undesirable and only permitted in exceptional circumstances.
5. Service roads shall be installed along the cable route providing suitable and safe access for maintenance and cable pulling vehicles at all joint bay locations and along any section of the cable route that are not located within the public road.
6. A deed of easement in respect of the cable route to ESB shall be provided. (min width 4 m for 110 kV circuits and 5 m for 220 kV and 400 kV circuits)
7. Direct burial of the cable is not permitted in any circumstance.
8. This drawing is to be read in conjunction with relevant drawings, specifications and reports
9. Dimensions are in millimeters, unless noted otherwise
10. Drawings are not to be scaled use figured dimensions only

110kV Ducting through Grassland
 SCALE 1:10



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 Tralee, Co. Kerry
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 Tel: 00353 66 7135710

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PROJECT
**Lissinagroagh Wind Farm
 110 kV Grid Connection**

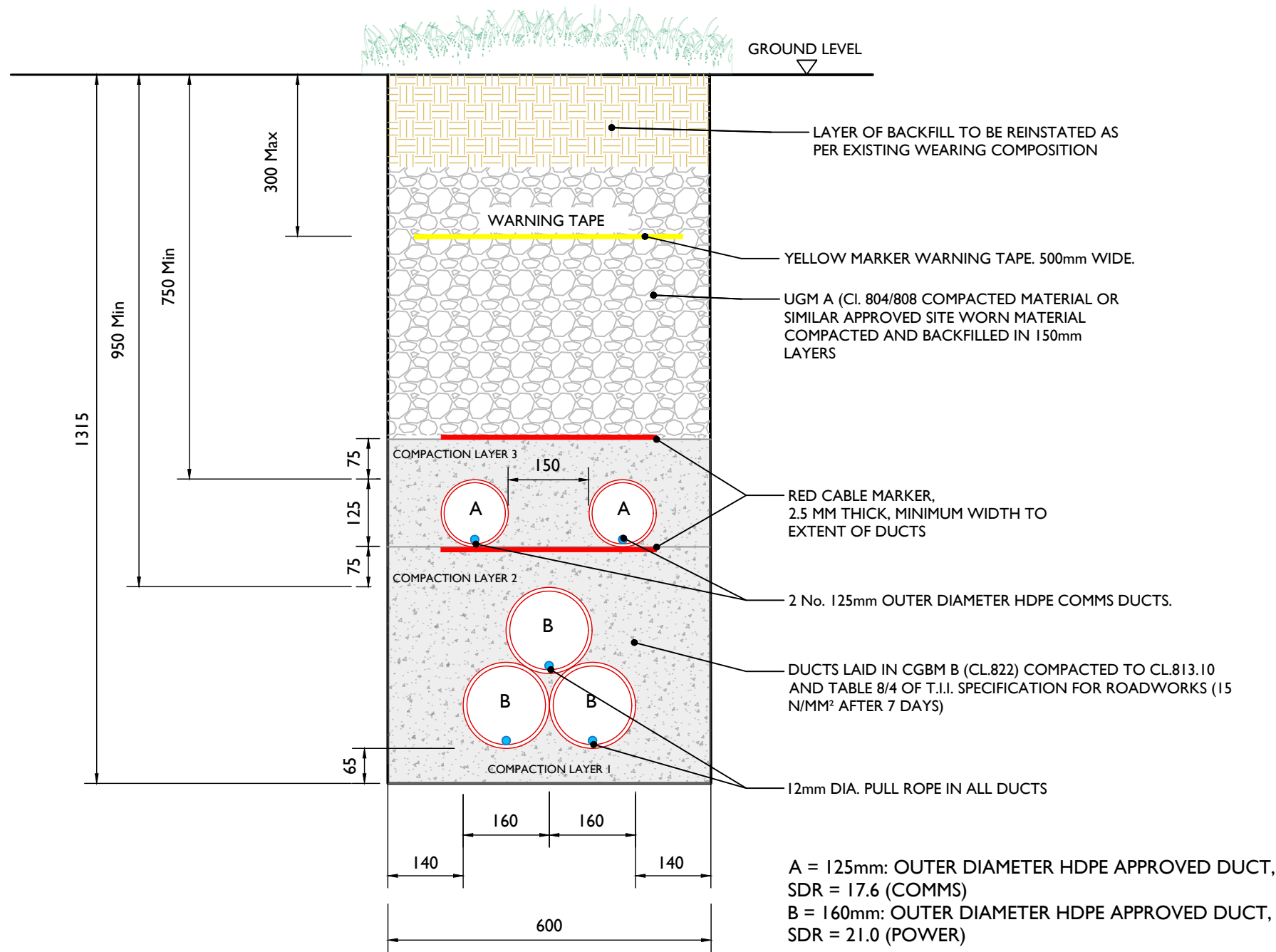
PROJECT NUMBER: 05-773
 SHEET NUMBER: 05773-DR-122a

SHEET TITLE
**Ducting Through Off Road /
 Grassland Section with ECC**

DRAWING STATUS
For Planning

ISSUE/REVISION		
I/R	DATE	DESCRIPTION
P01	21.04.26	Issued for Planning
P00	12.01.26	Issued for Planning

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



NOTES:

1. This design is subject to EirGrid & ESB approval and should be used for Planning purposes only.
2. The Customer shall submit all Planning Application designs and proposed cable routes in compliance with the specification requirements, for EirGrid to review and accept in advance of submitting to the local authority.
3. High Voltage cable installation across third party lands is to be avoided where possible.
4. High Voltage cable installation across peat lands is undesirable and only permitted in exceptional circumstances.
5. Service roads shall be installed along the cable route providing suitable and safe access for maintenance and cable pulling vehicles at all joint bay locations and along any section of the cable route that are not located within the public road.
6. A deed of easement in respect of the cable route to ESB shall be provided. (min width 4 m for 110 kV circuits and 5 m for 220 kV and 400 kV circuits)
7. Direct burial of the cable is not permitted in any circumstance.
8. This drawing is to be read in conjunction with relevant drawings, specifications and reports
9. Dimensions are in millimeters, unless noted otherwise
10. Drawings are not to be scaled use figured dimensions only

110kV Ducting through Grassland, (with ECC duct)

SCALE 1:10



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 Beenreigh,
 Abbeydorney,
 Tralee, Co. Kerry
 Ireland
 Tel: 00353 66 7135710



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PROJECT
**Lissinagroagh Wind Farm
 110 kV Grid Connection**

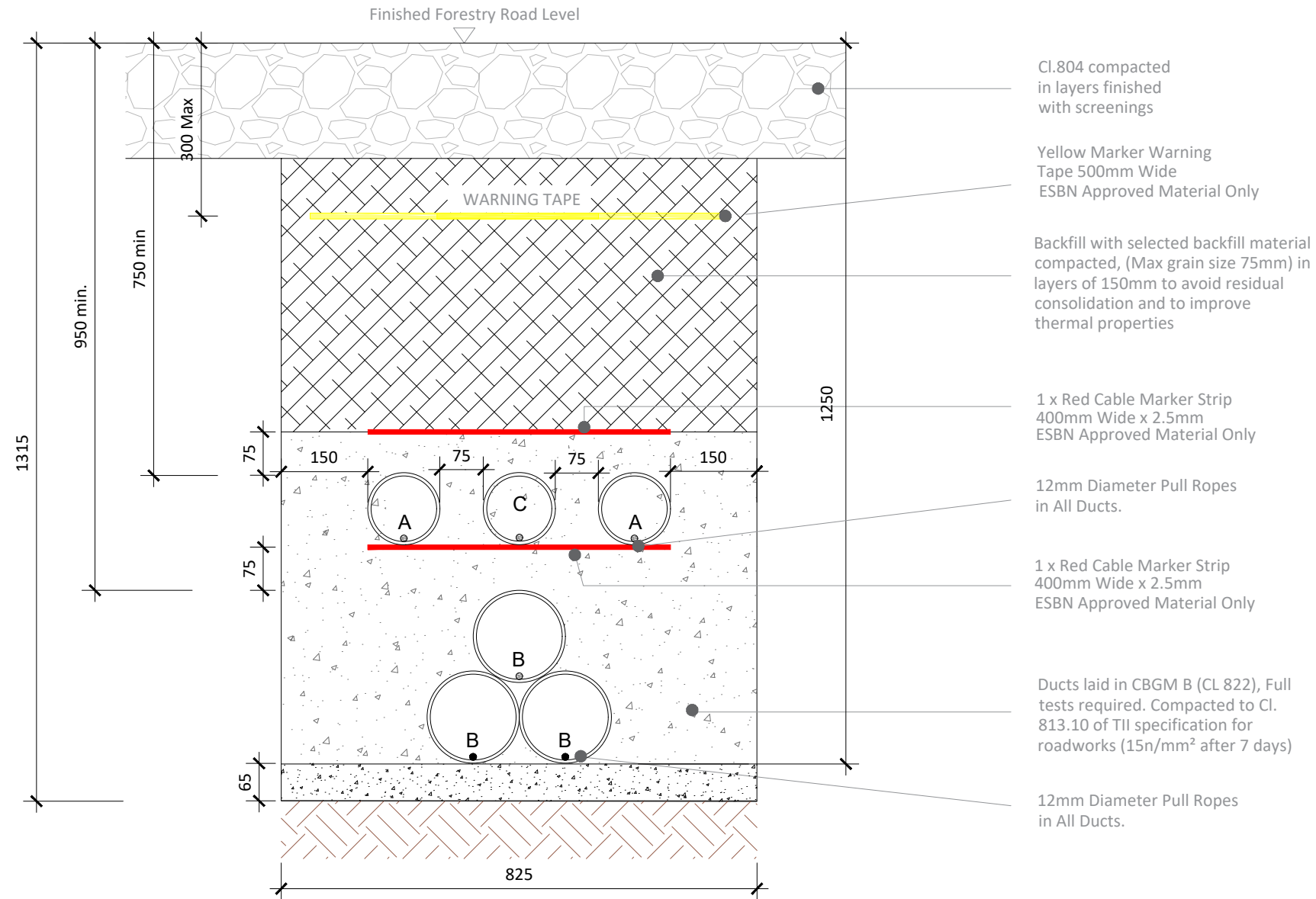
PROJECT NUMBER
05-773

SHEET NUMBER
05773-DR-122b

SHEET TITLE
**Ducting Through Off Road /
 Grassland Section**

DRAWING STATUS
For Planning

ISSUE/REVISION		
I/R	DATE	DESCRIPTION
P01	21.04.06	Issued for Planning
P00	12.01.26	Issued for Planning



A = 125mm: Outer Diameter HDPE ESB Approved Duct, SDR=17.6
 B = 160mm : Outer Diameter HDPE ESB Approved Duct, SDR= 21
 C = 125mm: ECC Earth Continuity Conductor

Section Through Forestry Road

SCALE 1:10

ALL REINSTATEMENT WORKS ARE TO BE IN ACCORDANCE WITH LANDOWNERS REQUIREMENTS

Note:

- 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

Lissinagroagh Wind Farm
 110 kV Grid Connection

PROJECT NUMBER
 05-773

SHEET NUMBER
 05773-DR-123

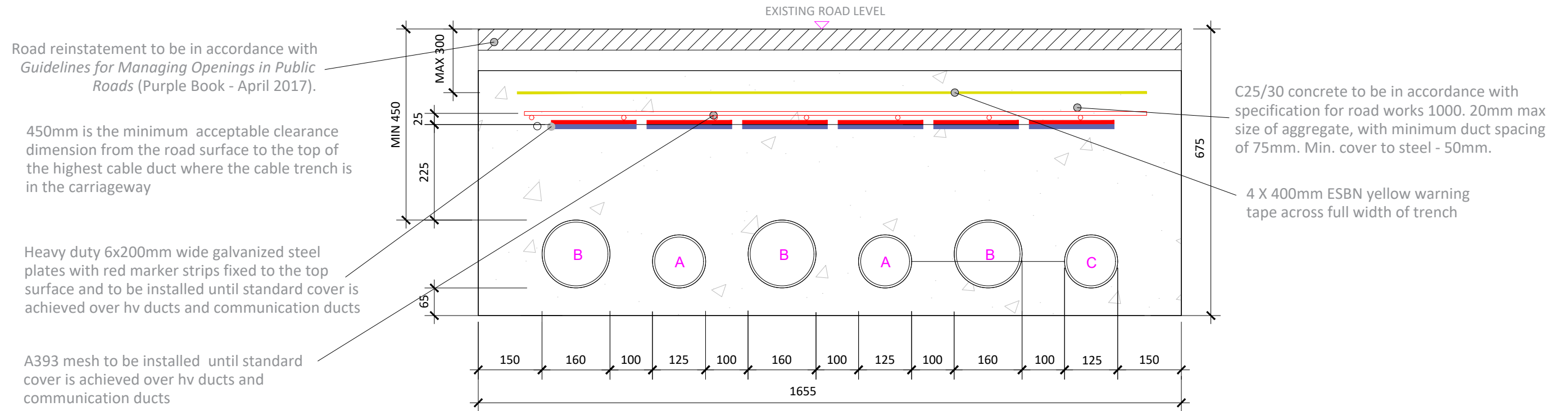
SHEET TITLE

Ducting through Forestry Road

DRAWING STATUS
 For Planning

ISSUE/REVISION

ISSUE/REVISION	DATE	DESCRIPTION
P01	21.04.26	Issued for Planning
P00	12.01.26	Issued for Planning
I/R	DATE	DESCRIPTION



A = 125mm: Outer Diameter HDPE ESB Approved Duct, SDR=17.6
 B = 160mm : Outer Diameter HDPE ESB Approved Duct, SDR=21
 C = 125mm: ECC Earth Continuity Conductor

Section Through Ducting in Flat Formation

SCALE 1:10

Note:

- 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

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



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

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PROJECT

Lissinagroagh Wind Farm
 110 kV Grid Connection

PROJECT NUMBER
 05-773

SHEET NUMBER
 05773-DR-124

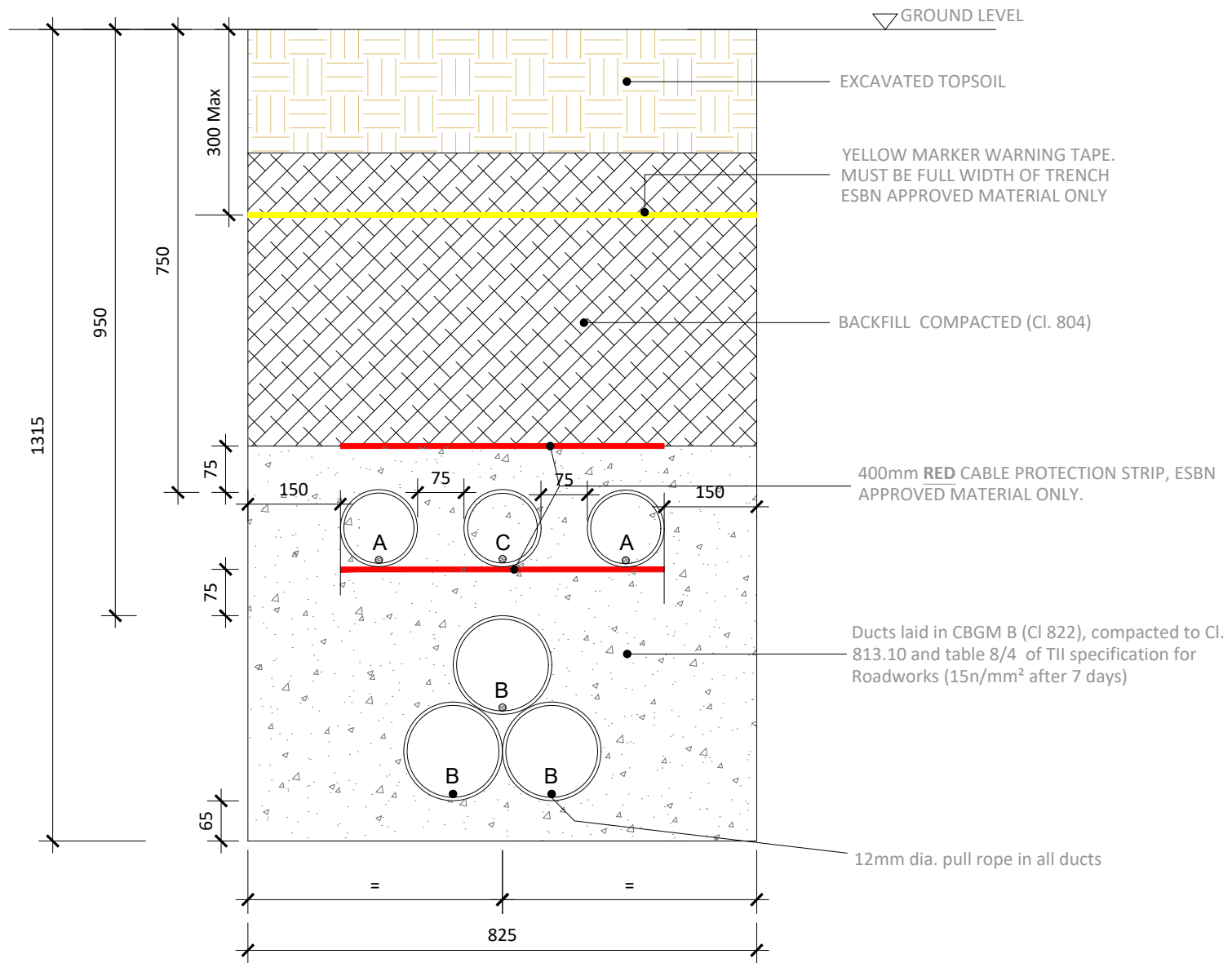
SHEET TITLE

Section Through Ducting
 in Flat Formation

DRAWING STATUS
 For Planning

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I/R	DATE	DESCRIPTION
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P00	12.01.26	Issued for Planning



A = 125mm: Outer Diameter HDPE ESB Approved Duct, SDR=17.6
 B = 160mm : Outer Diameter HDPE ESB Approved Duct, SDR= 21
 C = 125mm: ECC Earth Continuity Conductor

Section Through Off Road Sections

SCALE 1:10

Note:

- This drawing is to be read in conjunction with relevant drawings, specifications and reports
- Dimensions are in millimeters, unless noted otherwise
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ALL REINSTATEMENT WORKS ARE TO BE IN ACCORDANCE WITH LANDOWNER REQUIREMENTS

Reinstatement details based on Guidelines for Managing Openings in Public Roads - SD14



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 Beenreigh,
 Abbeydorney,
 Tralee, Co. Kerry
 Ireland
 Tel: 00353 66 7135710

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PROJECT

Lissinagroagh Wind Farm
 110kV Grid Connection

PROJECT NUMBER
 05-773

SHEET NUMBER
 05773-DR-125

SHEET TITLE

Ducting through Off Road Sections

DRAWING STATUS
 For Planning

ISSUE/REVISION

I/R	DATE	DESCRIPTION
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P01	20.04.26	Issued for Planning
P00	12.01.26	Issued for Planning

PROJECT

Lissinagroagh Wind Farm
 110kV Grid Connection

CLIENT








FuturaEnergy
 Ireland

CONSULTANTS

TOBIN
 CONSULTING ENGINEERS

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 OR STEEL PLATES
-  YELLOW MARKER WARNING TAPE
-  6mm GALVANISED STEEL PLATE
-  EXISTING SERVICE TAPE

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P02	21.04.26	Issued for Planning
P01	20.04.26	Issued for Planning
P00	12.01.26	Issued for Planning

PROJECT NUMBER

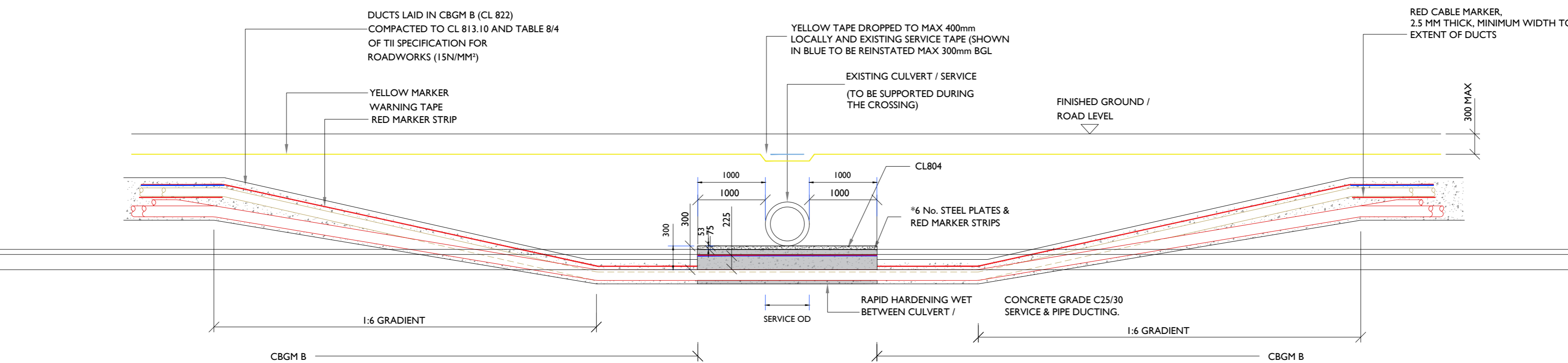
05-773

SHEET TITLE

Crossing through Existing
 Culverts/Services Undercrossing

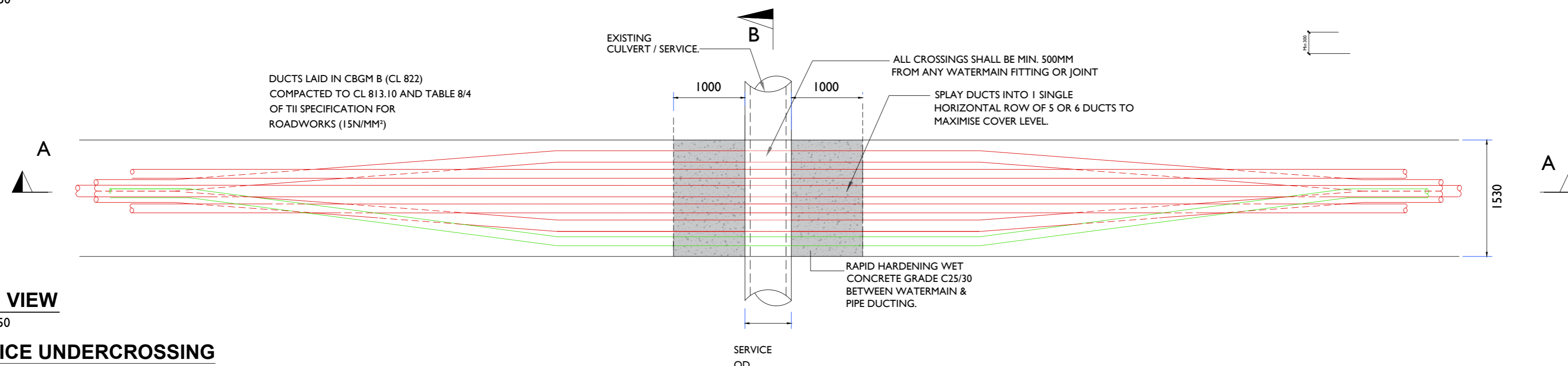
SHEET NUMBER

05773-DR-126



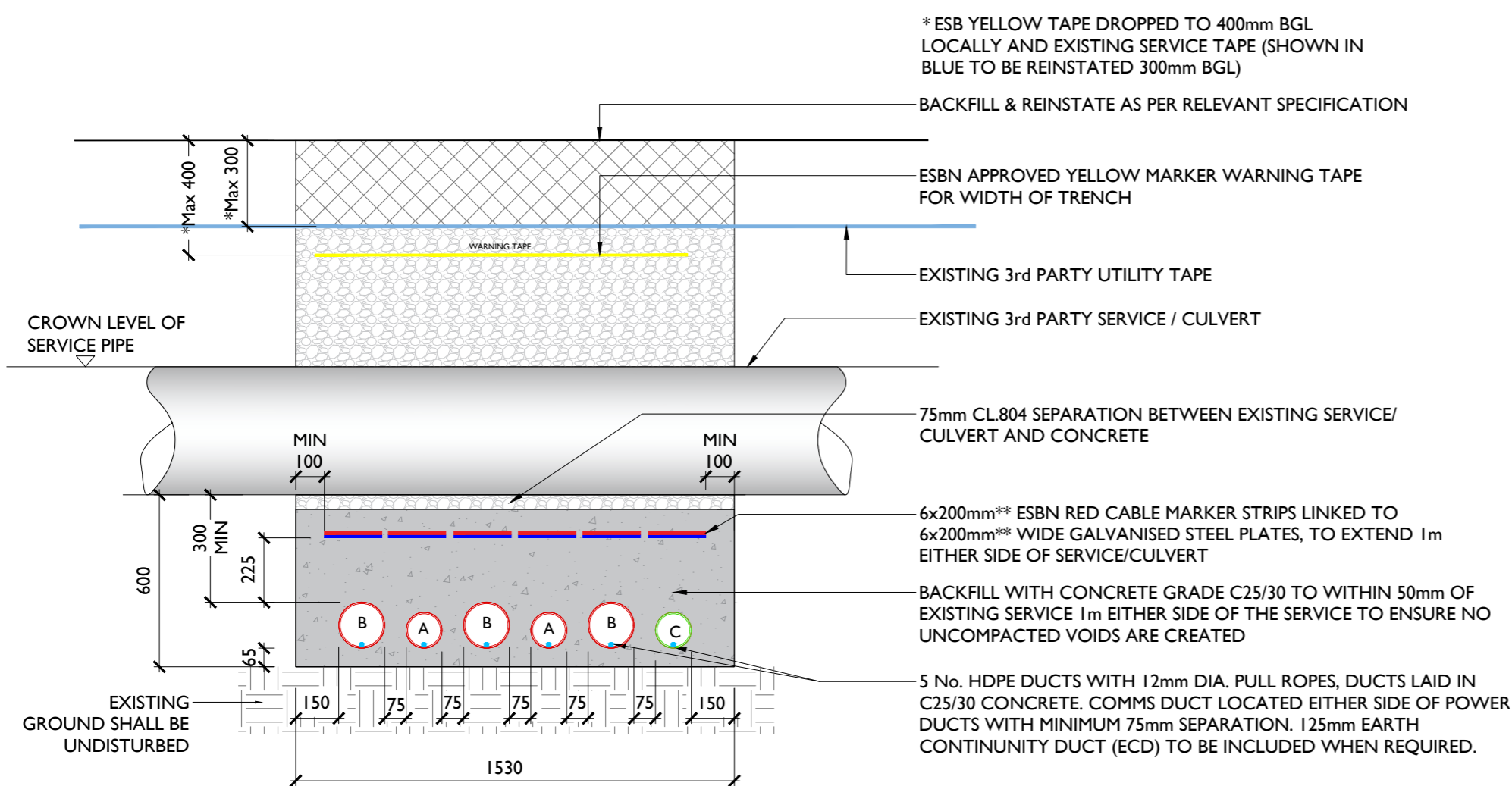
SECTION A-A
 SCALE 1:50

- * 5X200mm STEEL PLATE & RED MARKER WHERE ECC ISN'T REQUIRED
- ** MIN 1330mm WHERE ECC ISN'T REQUIRED
- *** SEE GENERAL NOTES, NO. 19



PLAN VIEW
 SCALE 1:50

SERVICE UNDERCROSSING



SECTION B-B
 SCALE: 1:20

- 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 CONTINUITY CONDUCTOR) DUCT,
- ** 5 x 200mm STEEL PLATES & RED MARKER WHERE ECC IS NOT REQUIRED
- *** MIN 1330 WHERE ECC IS NOT REQUIRED
- **** ALL EXISTING SERVICES WITH COVERS LESS THAN MIN. DIMENSIONS ABOVE SHALL BE CROSSED BY UNDERCROSSING METHOD

GENERAL NOTES

1. This drawing is subject to 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 and minimum horizontal separation to existing services, see 05773-DR-119a (TREFOIL) and 05773-DR-124 (FLAT).
9. Where depths exceed 2500mm to the top of duct the Contractor shall consult the cable system design engineer for phase spacing requirements.
10. Backfill as per guidelines for the opening, backfilling and reinstatement of openings in public roads (2015).
11. **ESB's preference is to cross under existing services where possible.**
12. Backfill as per guidelines for the opening, backfilling and reinstatement of openings in public roads (2015)
13. The Contractor is responsible for the design and construction of all temporary works. The Contractor shall appoint a temporary works designer, and submit temporary works design to PSDP for review.
14. 225mm minimum concrete over ducts where they transition from standard cross section and where they are at less than standard cover to ground level.
15. Replace existing service marker tape over 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.

PROJECT

Lissinagroagh Wind Farm
 110kV Grid Connection

CLIENT

FuturaEnergy
 Ireland

CONSULTANTS

TOBIN
 CONSULTING ENGINEERS

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 OR STEEL PLATES
- YELLOW MARKER WARNING TAPE
- 6mm GALVANISED STEEL PLATE
- EXISTING SERVICE TAPE

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P02	21.04.26	Issued for Planning
P01	20.04.26	Issued for Planning
P00	12.01.26	Issued for Planning

PROJECT NUMBER

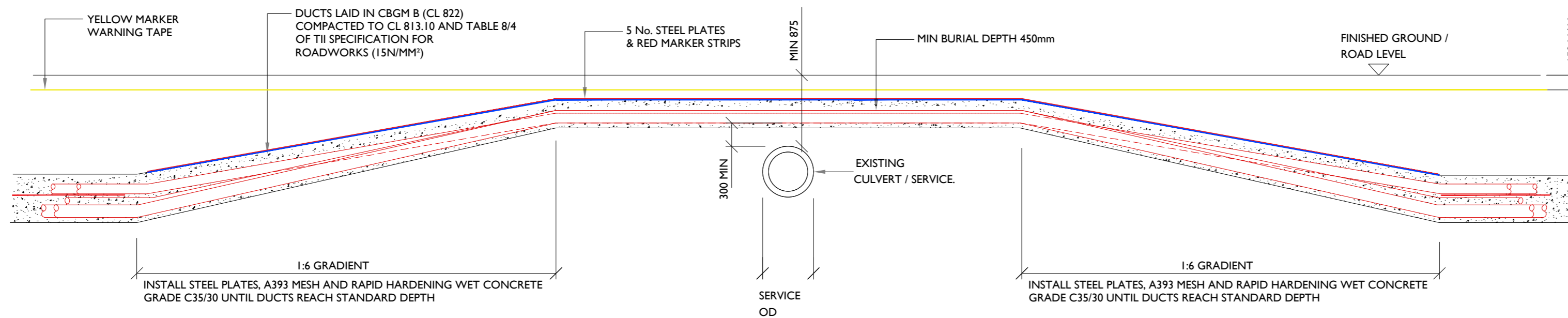
05-773

SHEET TITLE

Trench Sections For Overcrossing
 Existing Culvert/Service

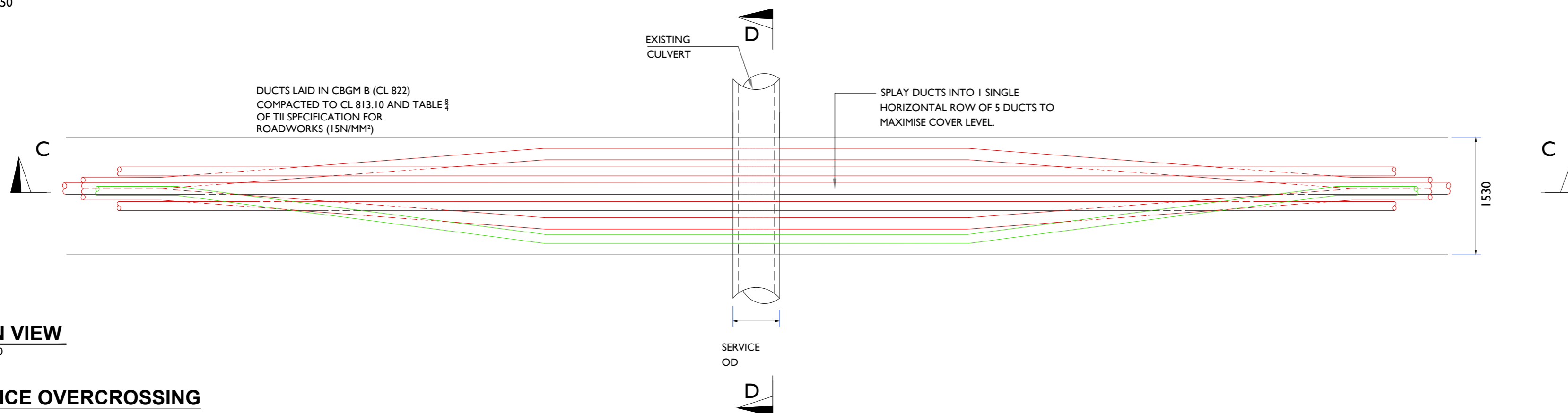
SHEET NUMBER

05773-DR-127



SECTION C-C

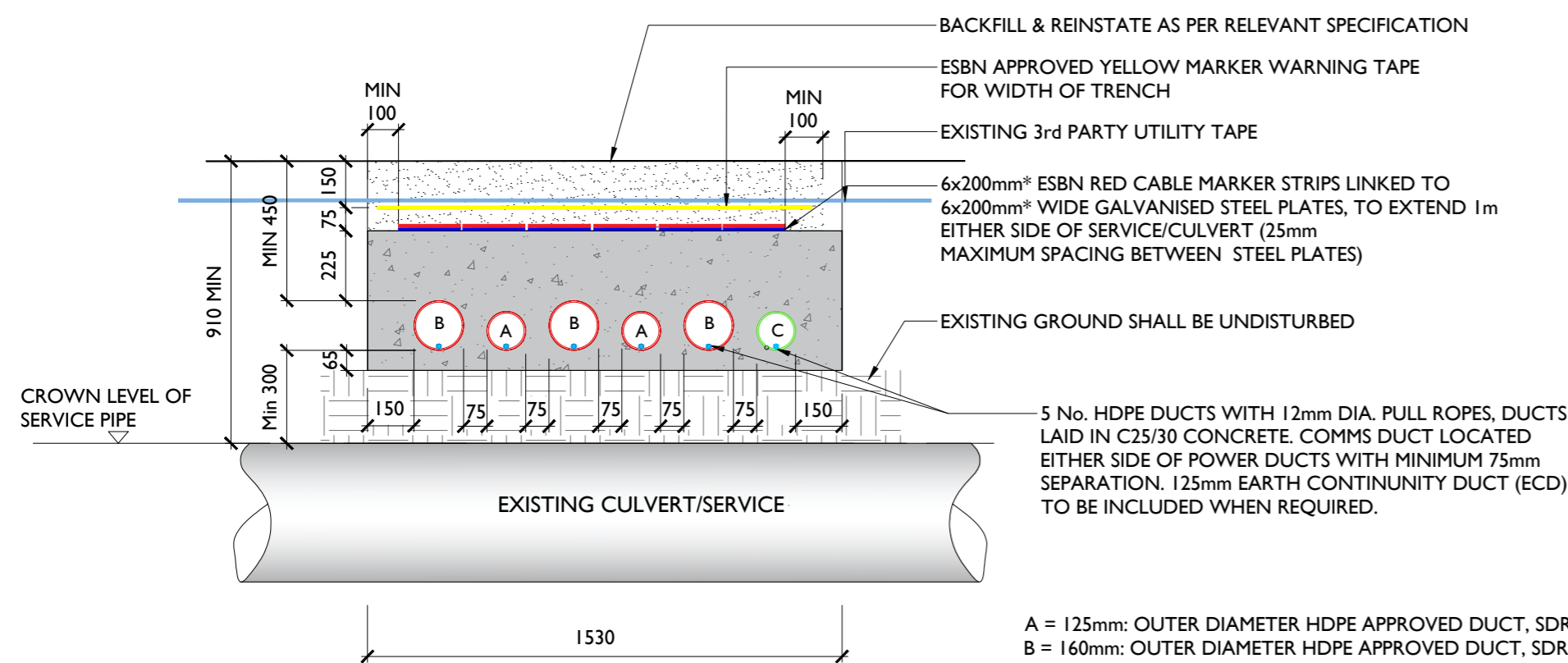
SCALE 1:50



PLAN VIEW

SCALE 1:50

SERVICE OVERCROSSING



- 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 CONTINUITY CONDUCTOR) DUCT,

- * 5 x 200mm STEEL PLATES & RED MARKER WHERE ECC IS NOT REQUIRED
- ** MIN 1330 WHERE ECC IS NOT REQUIRED
- ** ALL EXISTING SERVICES WITH COVERS LESS THAN MIN. DIMENSIONS ABOVE SHALL BE CROSSED BY UNDERCROSSING METHOD

GENERAL NOTES

1. This drawing is subject to 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 and minimum horizontal separation to existing services, see 05773-DR-119a (TREFOIL) and 05773-DR-124 (FLAT).
9. Where depths exceed 2500mm to the top of duct the Contractor shall consult the cable system design engineer for phase spacing requirements.
10. Backfill as per guidelines for the opening, backfilling and reinstatement of openings in public roads (2015).
11. **ESB's preference is to cross under existing services where possible.**
12. Backfill as per guidelines for the opening, backfilling and reinstatement of openings in public roads (2015)
13. The Contractor is responsible for the design and construction of all temporary works. The Contractor shall appoint a temporary works designer, and submit temporary works design to PSDP for review.
14. 225mm minimum concrete over ducts where they transition from standard cross section and where they are at less than standard cover to ground level.
15. Replace existing service marker tape over 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.

- 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 OR STEEL PLATES
- YELLOW MARKER WARNING TAPE
- 6mm GALVANISED STEEL PLATE
- EXISTING SERVICE TAPE

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P02	21.04.26	Issued for Planning
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P00	12.01.26	Issued for Planning

PROJECT NUMBER

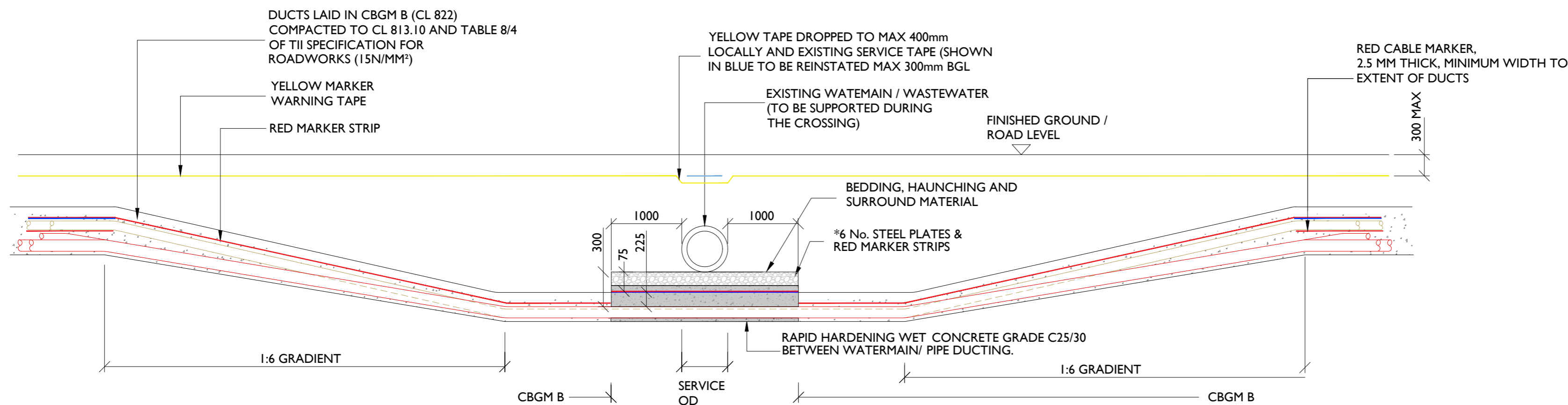
05-773

SHEET TITLE

Trench Sections For Undercrossing Existing Watermain/Wastewater

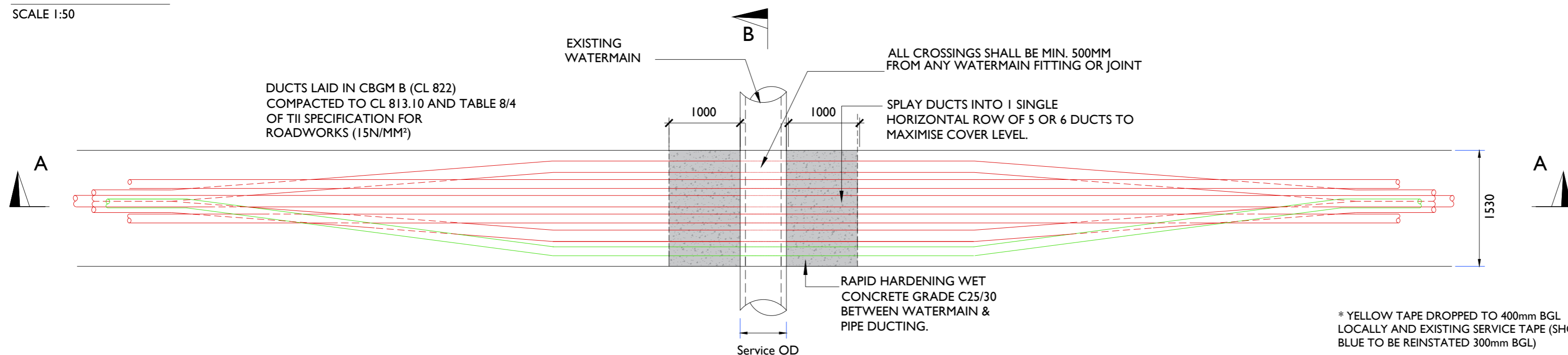
SHEET NUMBER

05773-DR-128



SECTION A-A

SCALE 1:50

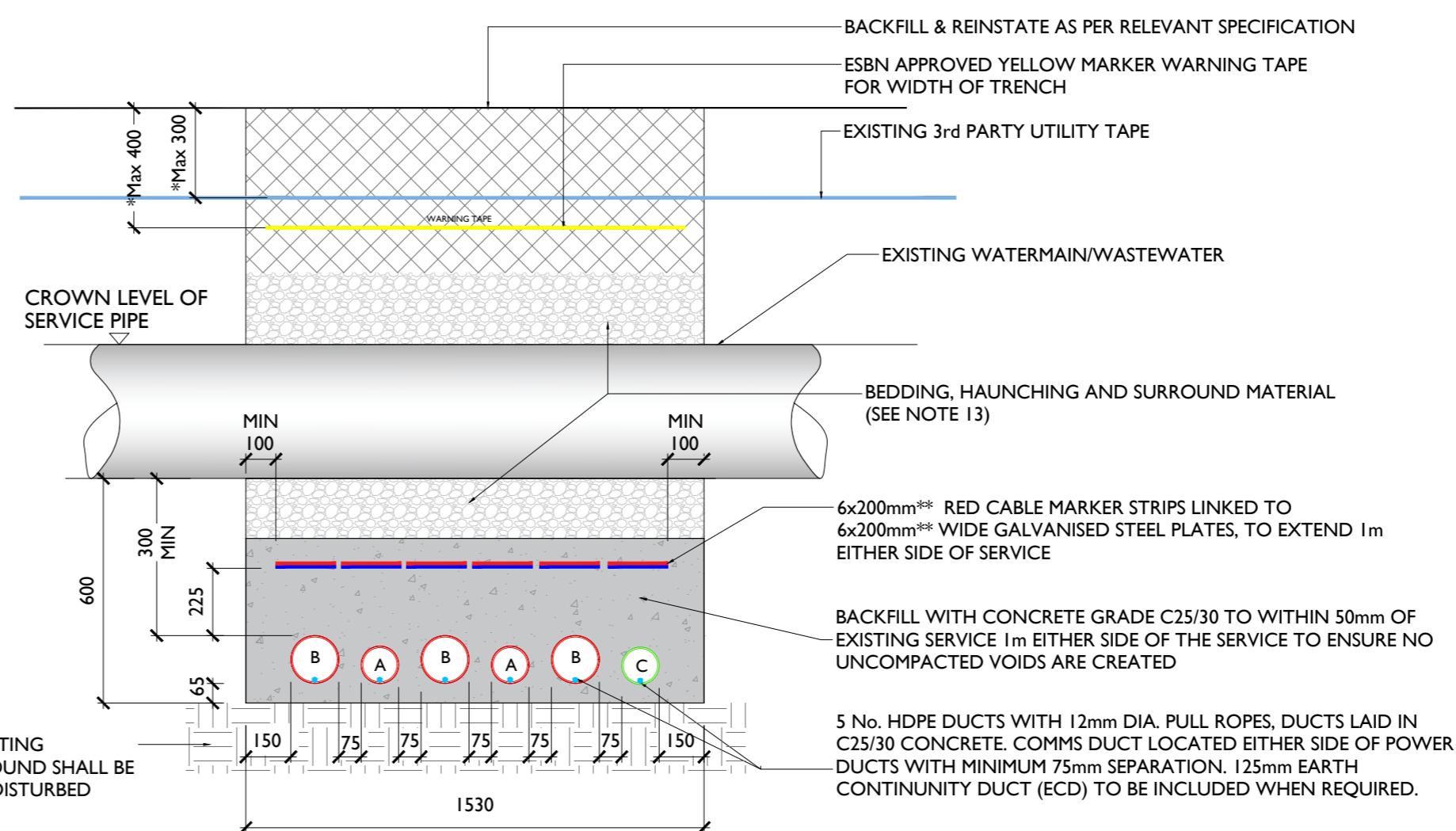


PLAN VIEW

SCALE 1:50

GENERAL NOTES

- This drawing is subject to ESB design approval and is not to be used for construction.
- This drawing is to be read in conjunction with all other relevant documentation.
- Do not scale from this drawing use only printed dimensions
- All dimensions are in millimetres, all chainages, levels and co-ordinates are in metres unless defined otherwise.
- No excavation shall commence until the Contractor has consulted up to date services drawings and carried out an Electromagnetic Locator (EML) Scan.
- Hand dig only within 500mm of existing services.
- If compacting CBGM B could cause damage to the culvert / service below, use rapid hardening cement grade C25/30 following engineers prior approval.
- For standard trench cross section drawings and minimum horizontal separation to existing services, see 05773-DR-119a (TREFOIL) and 05773-DR-124 (FLAT).
- Where depths exceed 2500mm to the top of duct the Contractor shall consult the cable system design engineer for phase spacing requirements.
- Backfill as per guidelines for the opening, backfilling and reinstatement of openings in public roads (2015).
- ESB's preference is to cross under existing services where possible.**
- Backfill as per guidelines for the opening, backfilling and reinstatement of openings in public roads (2015)
- As per VV15 4-08-02 & IGN 4-08-01 granular material shall be 14mm to 5mm graded aggregate or 10mm single sized aggregate
- If any Watermains are damaged during construction they will be replaced in full. camera scoping will be completed before and after the works.
- 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.
- 225mm minimum concrete over ducts where they transition from standard cross section and where they are at less than standard cover to ground level.
- Replace existing service marker tape over ESB yellow marker tape.
- The owner of the existing utility being crossed must be consulted in advance of works commencing as per their guidelines.
- 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

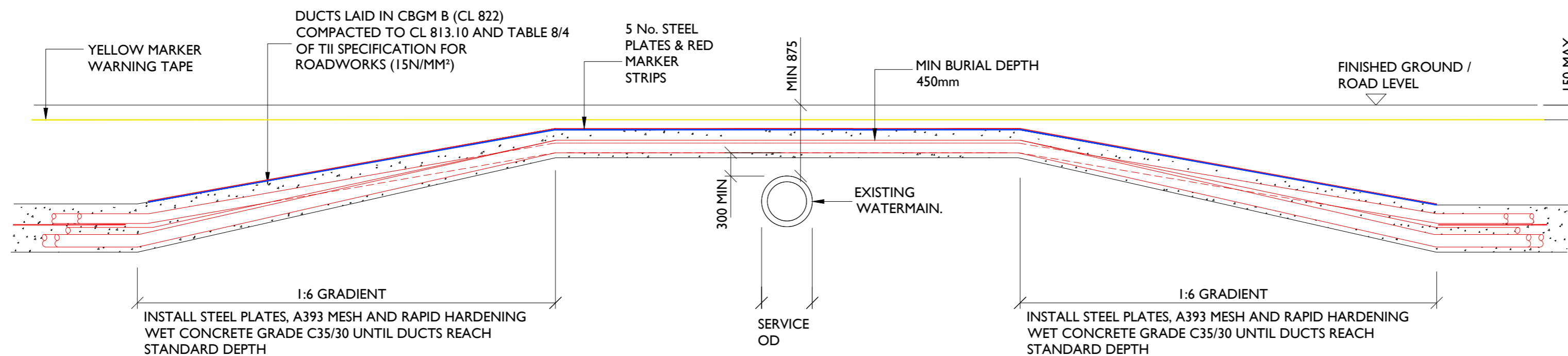
SCALE: 1:20

- ** 5 x 200mm STEEL PLATES & RED MARKER WHERE ECC IS NOT REQUIRED
- *** MIN 1330 WHERE ECC IS NOT REQUIRED
- **** ALL EXISTING SERVICES WITH COVERS LESS THAN MIN. DIMENSIONS ABOVE SHALL BE CROSSED BY UNDERCROSSING METHOD

- 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 CONTINUITY CONDUCTOR) DUCT,

- 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 OR STEEL PLATES
- YELLOW MARKER WARNING TAPE
- 6mm GALVANISED STEEL PLATE
- EXISTING SERVICE TAPE

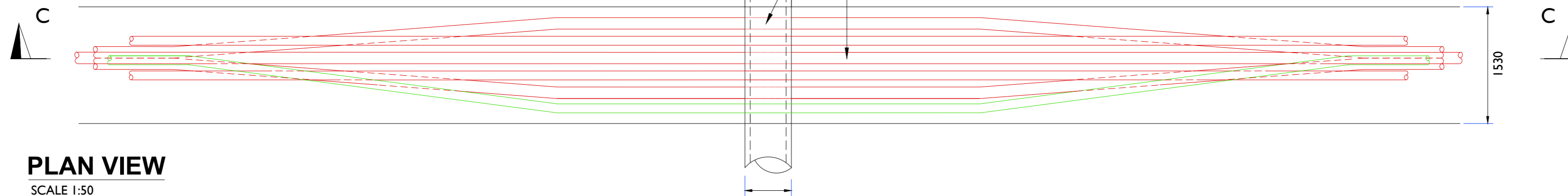
I/R	DATE	DESCRIPTION
P02	21.04.26	Issued for Planning
P01	20.04.26	Issued for Planning
P00	12.01.26	Issued for Planning



SECTION C-C

SCALE 1:50

DUCTS LAID IN CBGM B (CL 822) COMPACTED TO CL 813.10 AND TABLE 8/4 OF TII SPECIFICATION FOR ROADWORKS (15N/MM²)



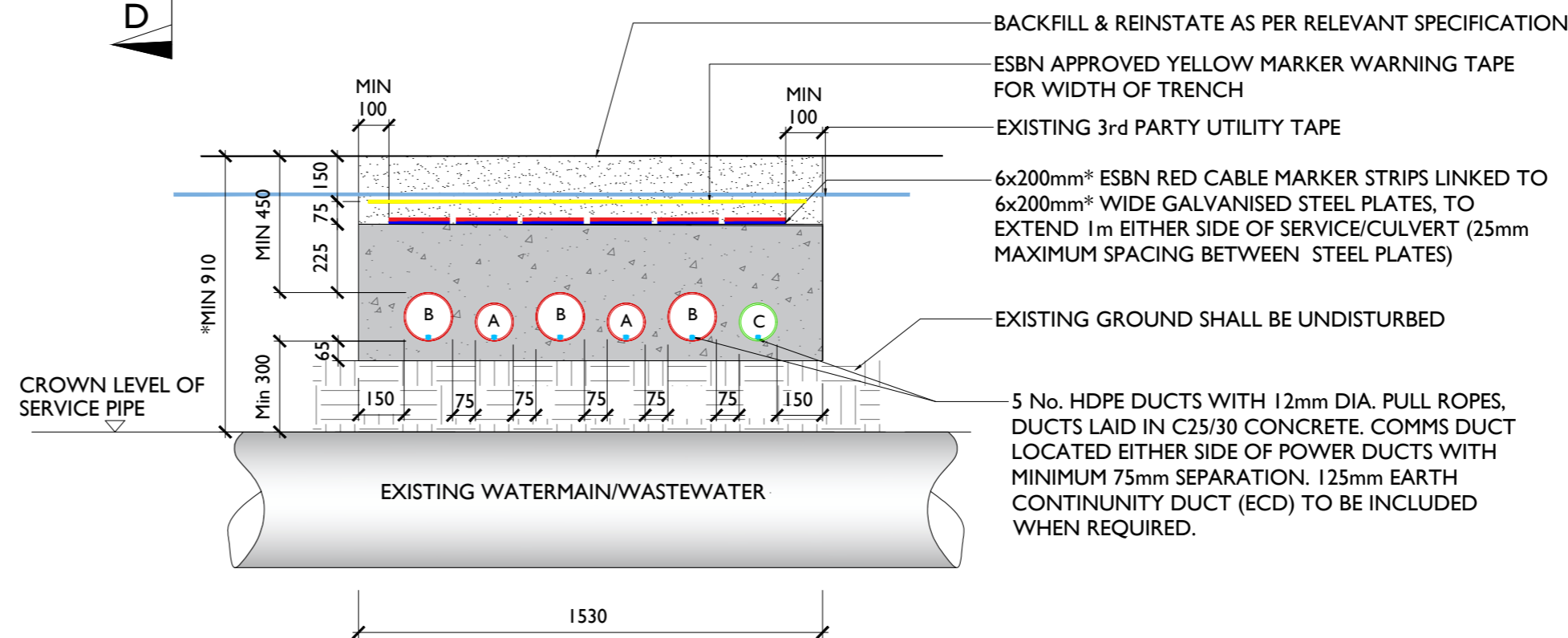
PLAN VIEW

SCALE 1:50

WATERMAIN OVERCROSSING

GENERAL NOTES

1. This drawing is subject to ESB 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 and minimum horizontal separation to existing services, see 05773-DR-119a (TREFOIL) and 05773-DR-124 (FLAT).
9. Where depths exceed 2500mm to the top of duct the Contractor shall consult the cable system design engineer for phase spacing requirements.
10. Backfill as per guidelines for the opening, backfilling and reinstatement of openings in public roads (2015).
11. **ESB's preference is to cross under existing services where possible.**
12. Backfill as per guidelines for the opening, backfilling and reinstatement of openings in public roads (2015)
13. As per WIS 4-08-02 & IGN 4-08-01 granular material shall be 14mm to 5mm graded aggregate or 10mm single sized aggregate
14. If any Watermains are damaged during construction they will be replaced in full. camera scoping will be completed before and after the works.
15. The Contractor is responsible for the design and construction of all temporary works. The Contractor shall appoint a temporary works designer, and submit temporary works design to PSDP for review.
16. 225mm minimum concrete over ducts where they transition from standard cross section and where they are at less than standard cover to ground level.
17. Replace existing service marker tape over ESB yellow marker tape.
18. The owner of the existing utility being crossed must be consulted in advance of works commencing as per their guidelines.
19. The Contractor shall record detailed as-built information as per the specification. At all crossing locations these records shall include photographic evidence clearly demonstrating that minimum service clearances and duct separations have been achieved.

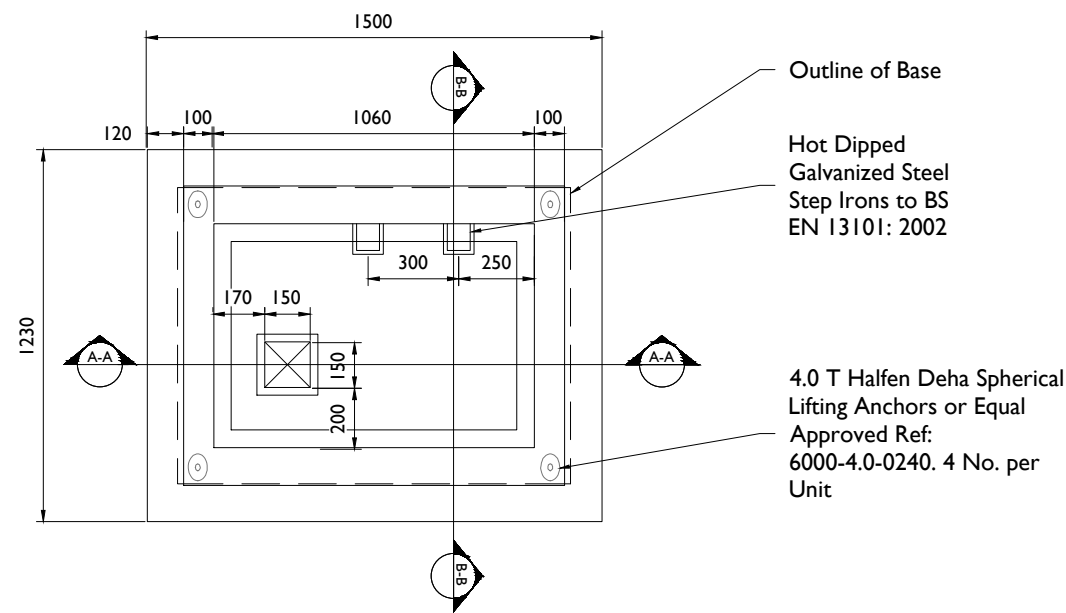


- * 5 x 200mm STEEL PLATES & RED MARKER WHERE ECC IS NOT REQUIRED
- ** MIN 1330 WHERE ECC IS NOT REQUIRED
- * ALL EXISTING SERVICES WITH COVERS LESS THAN MIN. DIMENSIONS ABOVE SHALL BE CROSSED BY UNDERCROSSING METHOD

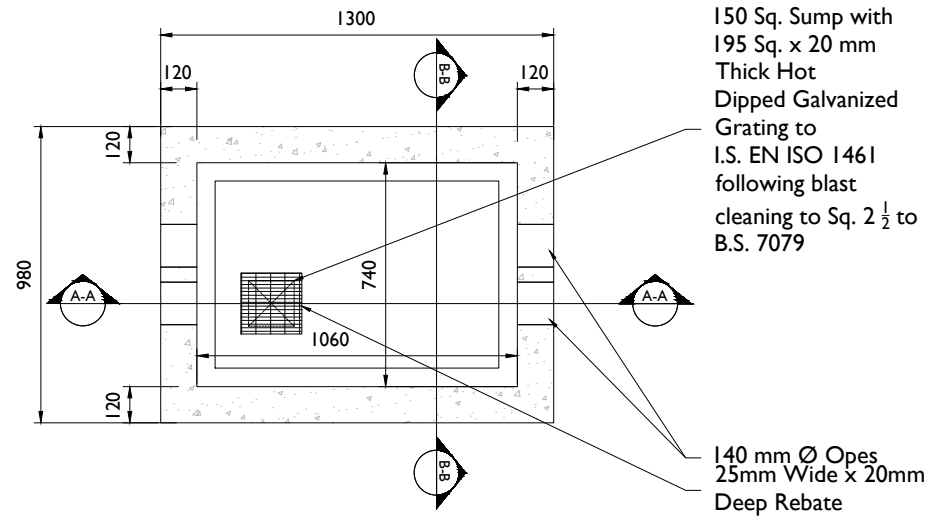
- A = 125mm: OUTER DIAMETER HDPE APPROVED DUCT, SDR = 17.6 (COMMS)
- B = 160mm: OUTER DIAMETER HDPE APPROVED DUCT, SDR = 21.0 (POWER)
- C = 125mm: ECC (EARTH CONTINUITY CONDUCTOR) DUCT,

SECTION D-D

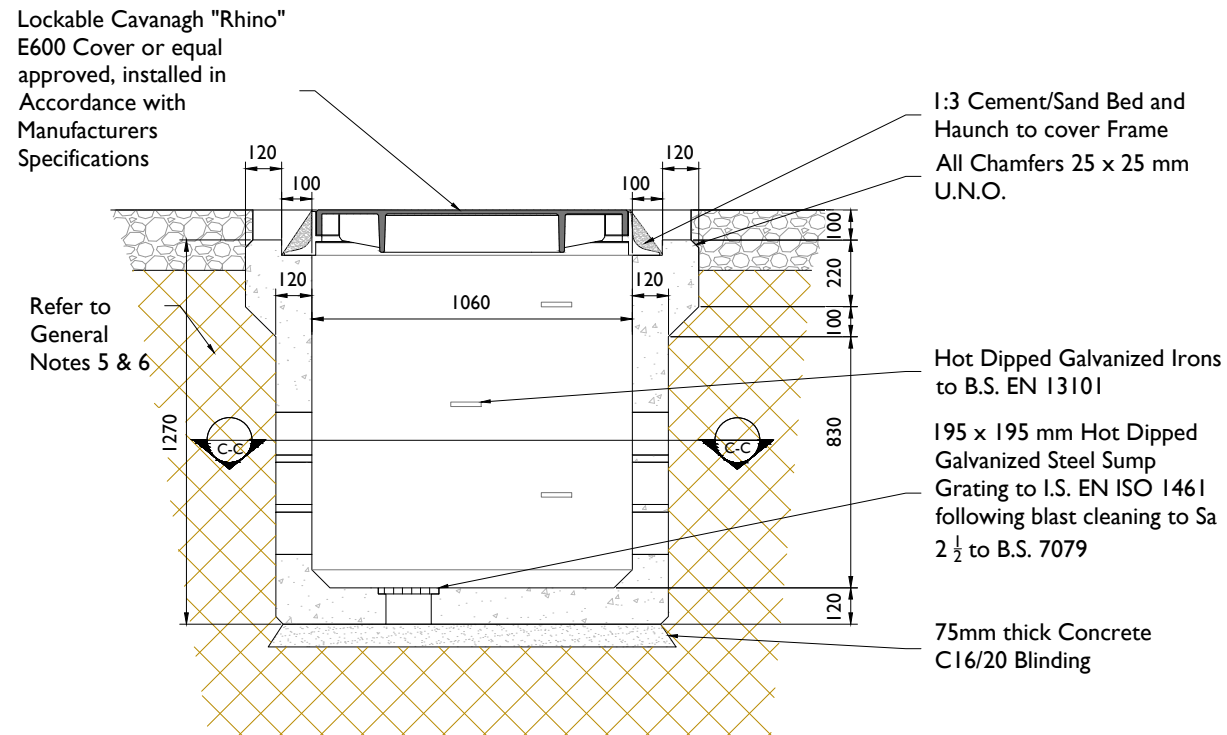
SCALE: 1:20



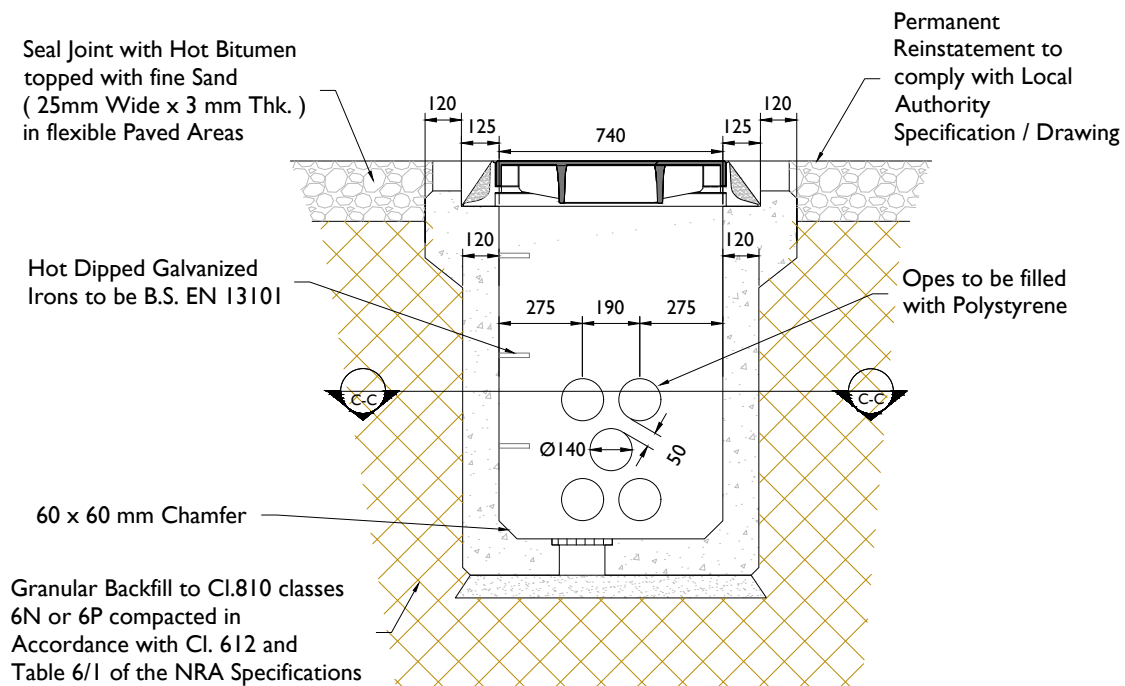
C2 Chamber - Typical Plan
Scale 1:25



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-D7002-009-002-001 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.



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

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PROJECT

Lissinagroagh Wind Farm
110kV Grid Connection

PROJECT NUMBER
05-773

SHEET NUMBER
05773-DR-142

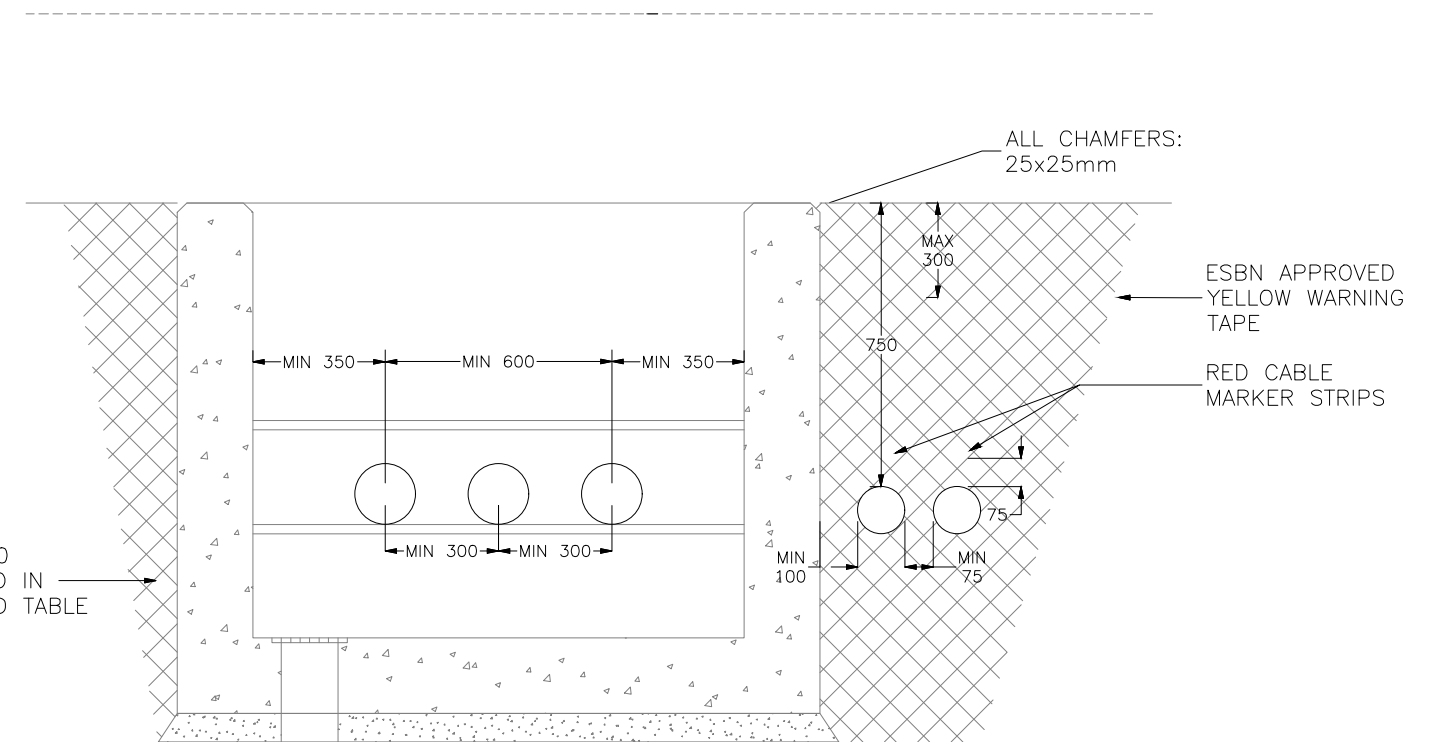
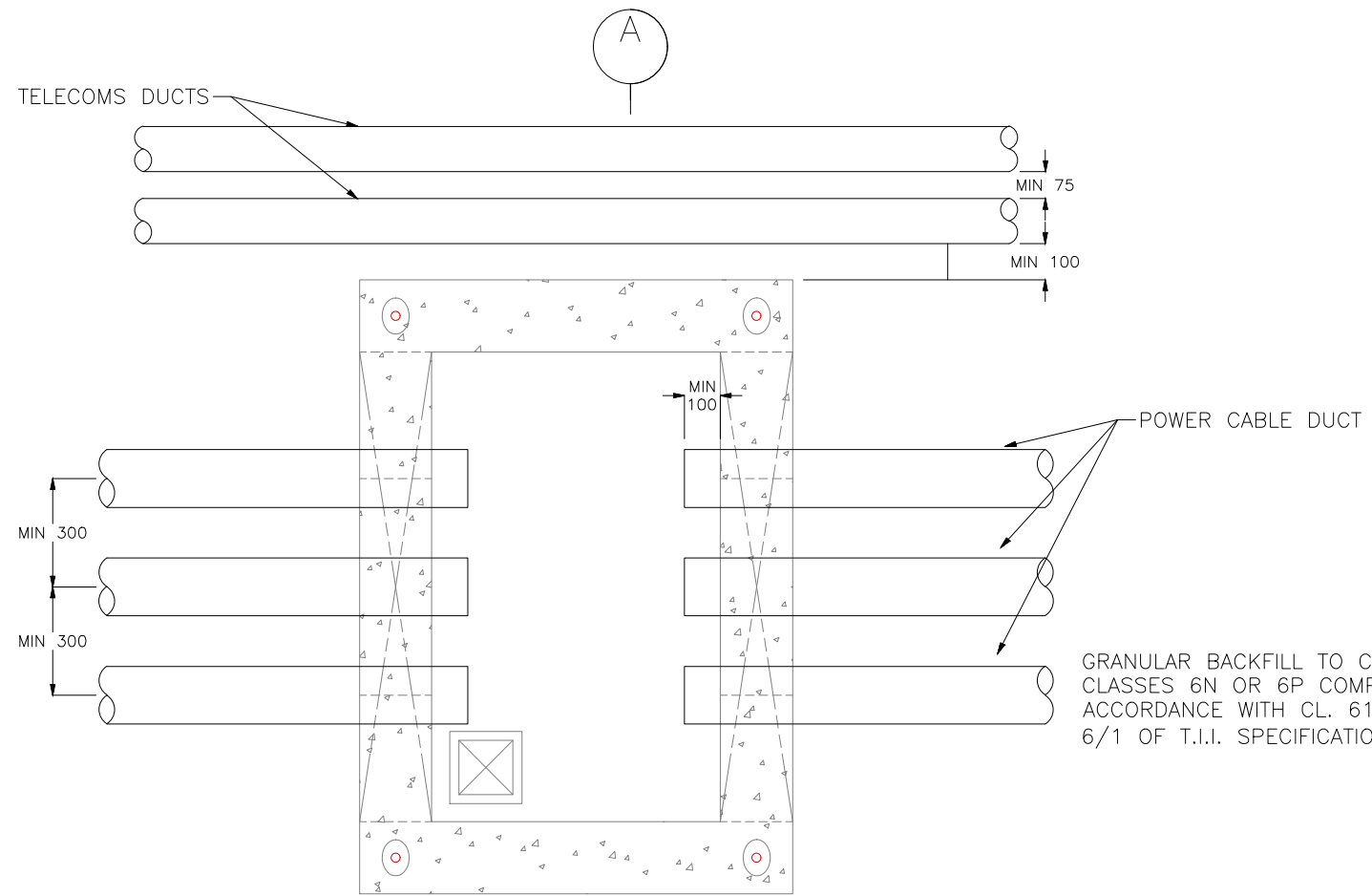
SHEET TITLE

C2 Chamber Details

DRAWING STATUS
For Planning

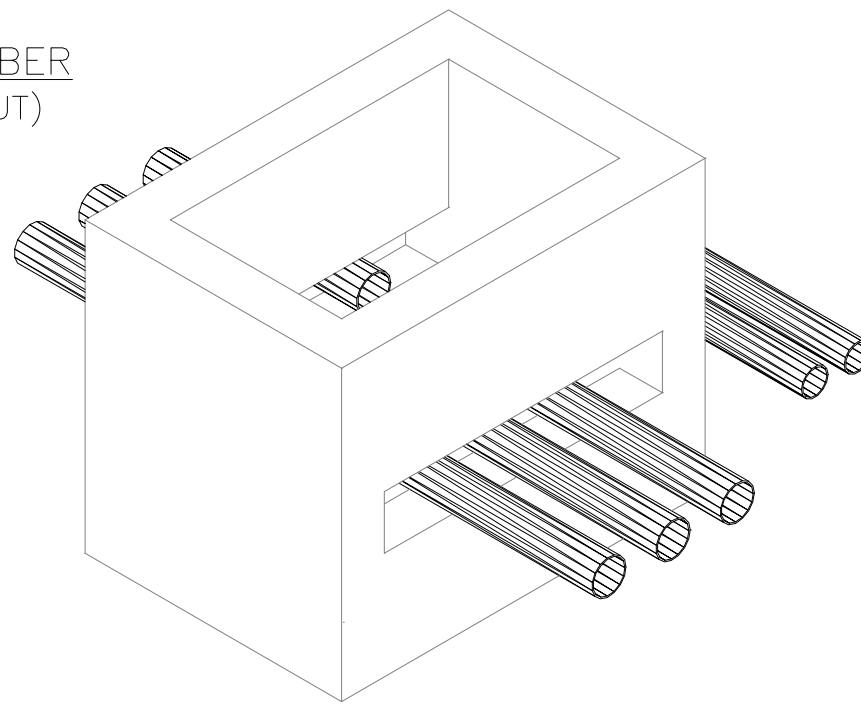
ISSUE/REVISION

I/R	DATE	DESCRIPTION
P01	21.04.26	Issued for Planning
P00	12.01.26	Issued for Planning



PLAN — TRANSITION CHAMBER
SCALE 1:20 (DUCT SETTING OUT)

SECTION A
SCALE 1:20



NOTES:

1. This drawing is to be read in conjunction with relevant drawings, specifications and reports.
2. Dimensions are in millimetres, unless noted otherwise.
3. Drawings are not to be scaled use figured dimensions only.
4. Telecommunication ducts not to be routed through Transition chamber
5. If Transition chamber is used to interface with a HDD section, Then the telecoms duct SDR 17.6 should be chamfered when coupled with SDR 11 ducts



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Beenreigh,
Abbeydorney,
Tralee, Co. Kerry
Ireland
Tel: 00353 66 7135710

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110kV Grid Connection

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SHEET NUMBER
05773-DR-143

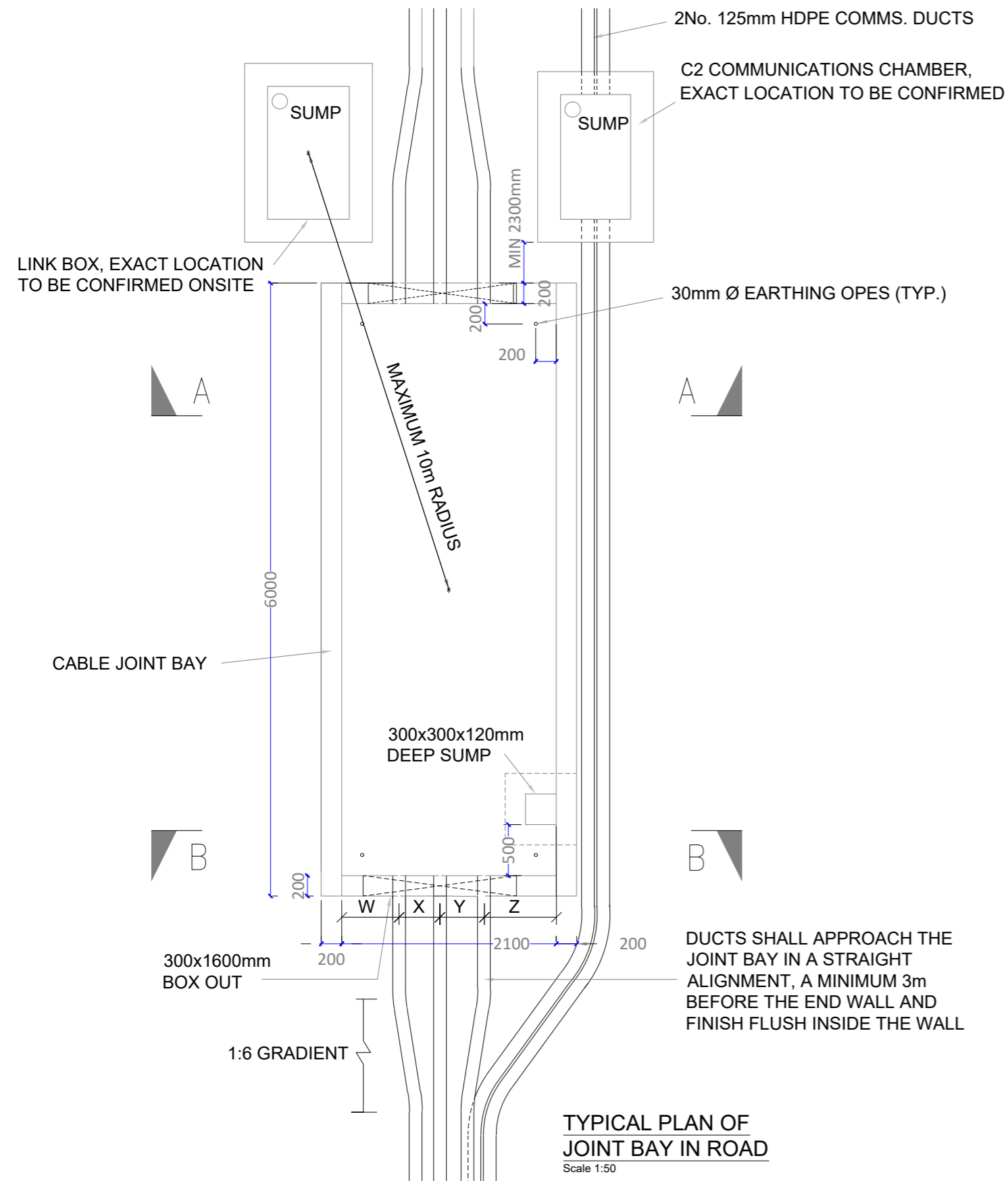
SHEET TITLE

Transition Chamber Details

DRAWING STATUS
For Planning

ISSUE/REVISION

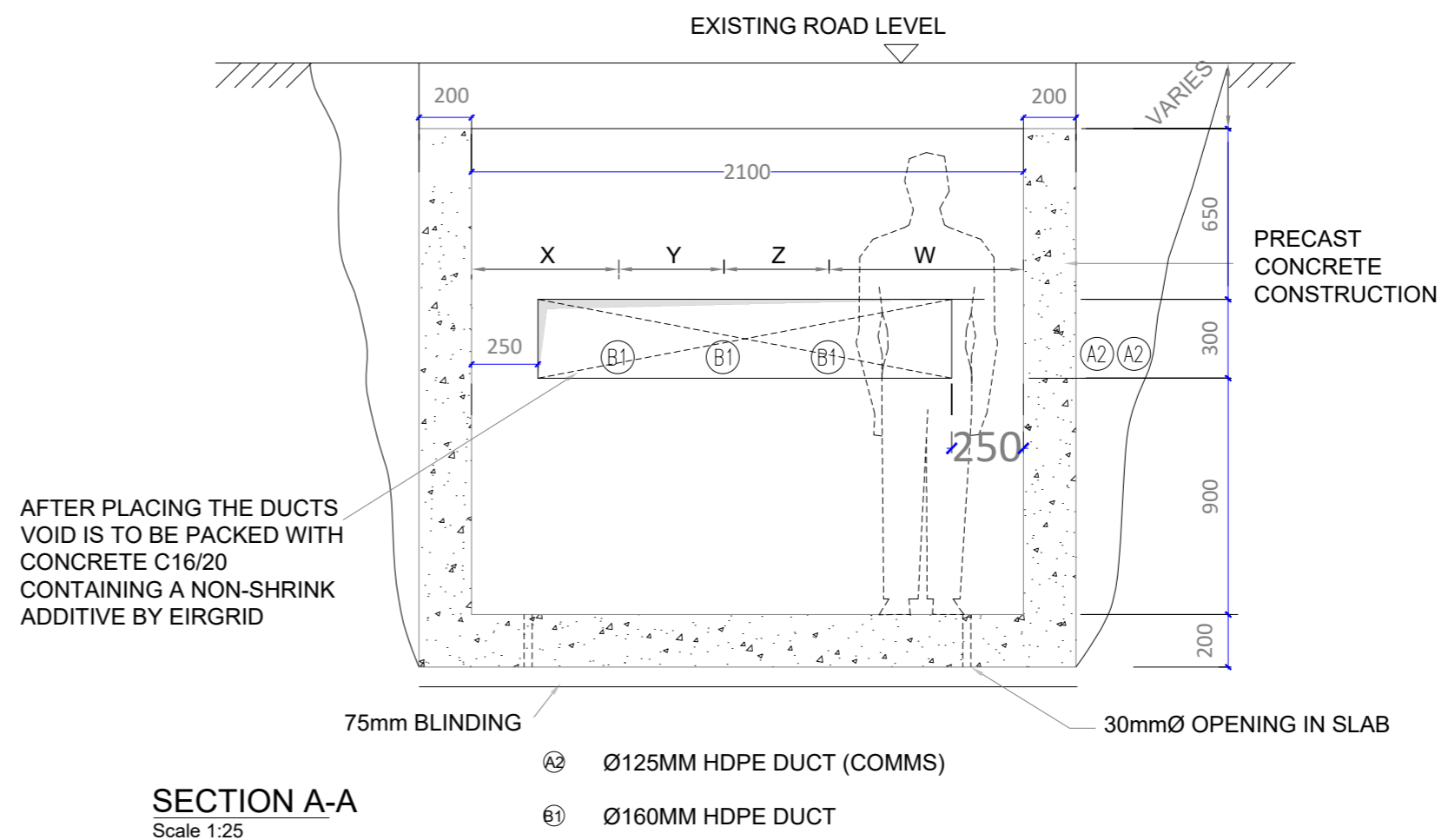
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TYPICAL PLAN OF JOINT BAY IN ROAD
Scale 1:50

GENERAL NOTES:

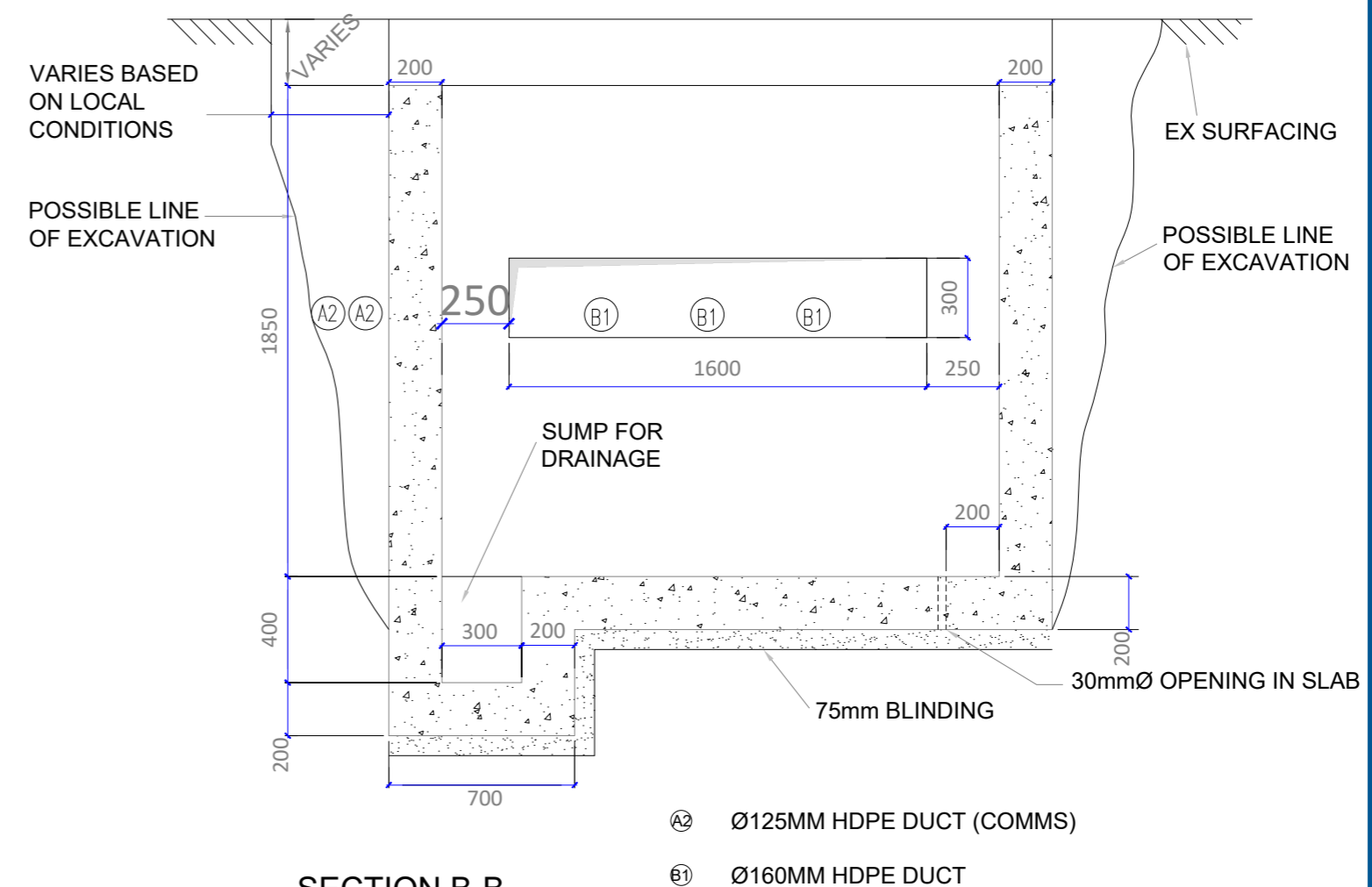
1. THIS DRAWING IS TO BE USED ONLY FOR THE PURPOSE OF ISSUE AND IS SUBJECT TO AMENDMENT.
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT INFORMATION
3. DO NOT SCALE FROM THIS DRAWING, USE ONLY PRINTED DIMENSIONS.
4. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS DEFINED OTHERWISE.
5. STANDARD FOUNDATIONS ARE BASED ON THE FORMATION AT THE BASE OF THE EXCAVATION SHOWN BEING SUITABLE FOR A MINIMUM BEARING PRESSURE OF 100kN/m². SUITABILITY OF STANDARD JOINT BAY FOUNDATIONS CAN ONLY BE CONFIRMED FOLLOWING GROUND INVESTIGATION. HAND VANE TESTS SHALL BE REQUIRED AS PER GI SPECIFICATION. WHERE SPECIFIED MINIMUM BEARING PRESSURE IS NOT ACHIEVABLE, AND WHERE PEAT IS ENCOUNTERED, THE CONTRACTOR SHALL REFER TO THE ENGINEER FOR GUIDANCE.
6. THE LENGTH OF BONDING LEAD LENGTH SHALL IN NO CASE EXCEED 10M. NO JOINTS IN BONDING CABLE ARE PERMITTED.
7. ALL EARTHING SHALL BE IN ACCORDANCE WITH ENA ER C55 AND EIRGRID/ESBN FUNCTIONAL SPECIFICATION
8. THE DEPTH FROM GROUND/ROAD 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
9. LINK BOX CHAMBERS TO BE POSITIONED AT THE EDGE OR OFF ROAD
10. LINK BOX CHAMBERS AND C2 COMM CHAMBERS FINAL POSITIONING TO BE AGREED WITH EIRGRID PRIOR TO INSTALLATION



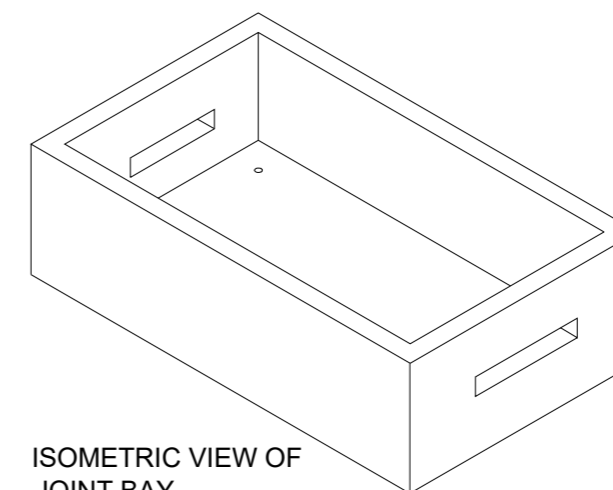
SECTION A-A
Scale 1:25

TABLE 1 - DUCT SEPERATION

	X	Y	Z	W
110kV	560	400	400	760
220kV	375	675	675	375



SECTION B-B
Scale 1:25



ISOMETRIC VIEW OF JOINT BAY
N.T.S.

NO	DATE	DESCRIPTION
P01	21.04.26	Issued for Planning
P00	12.01.26	Issued for Planning
I/R	DATE	DESCRIPTION

PROJECT

**Lissinagroagh
 Wind Farm
 110kV Grid Connection**

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FuturaEnergy Ireland

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NOTES: -

- See notes in drawing window

LEGEND: -

ISSUE/REVISION

I/R	DATE	DESCRIPTION
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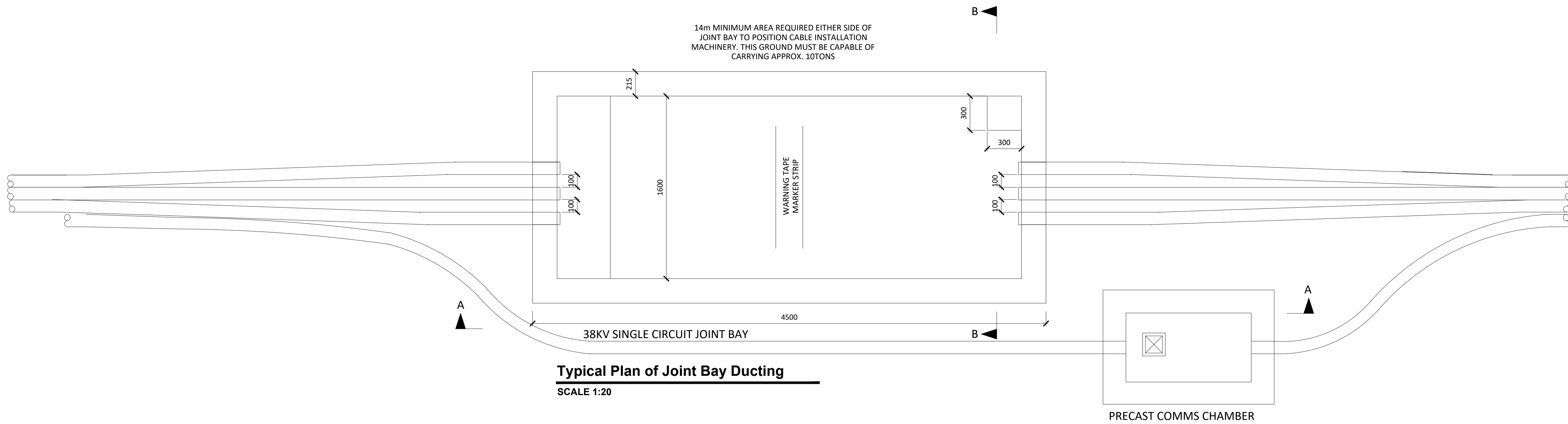
SHEET TITLE

110kV Joint Bay General Arrangement

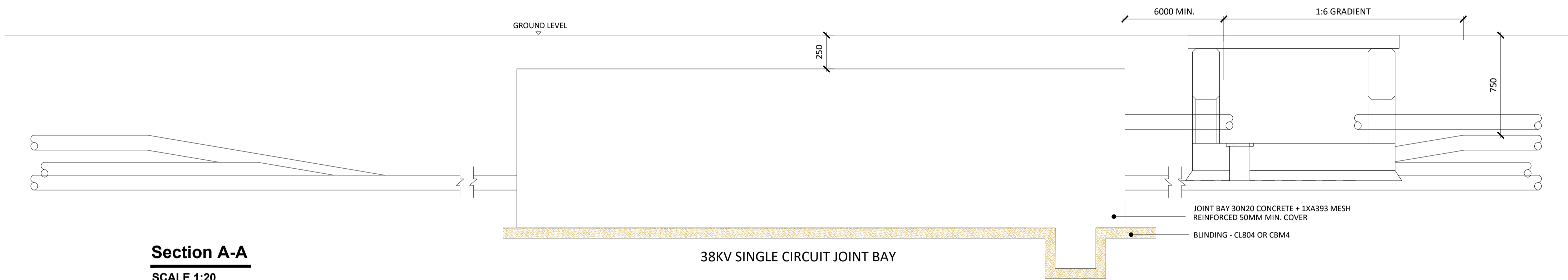
SHEET NUMBER

05773-DR-145

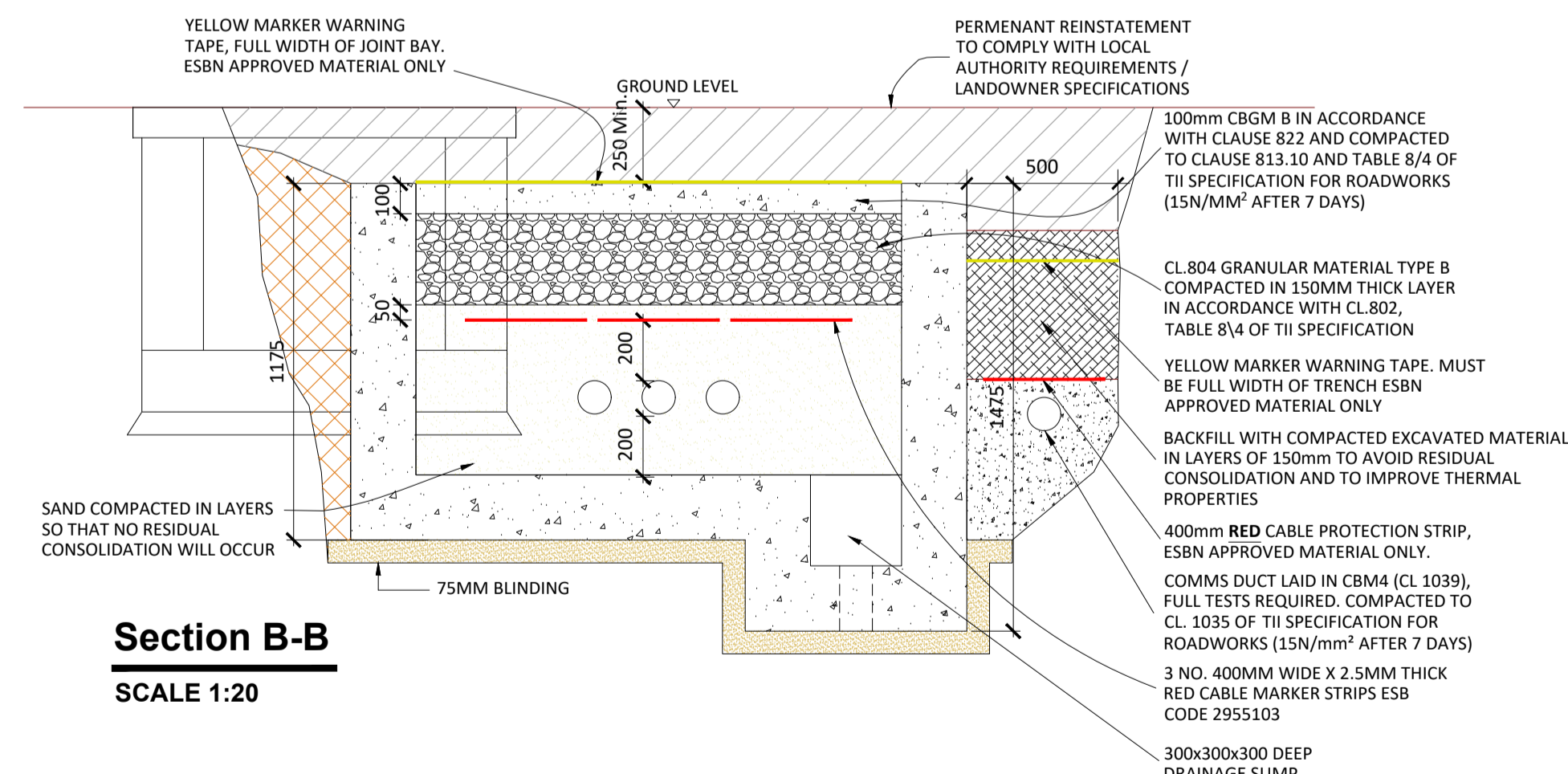
14m MINIMUM AREA REQUIRED EITHER SIDE OF JOINT BAY TO POSITION CABLE INSTALLATION MACHINERY. THIS GROUND MUST BE CAPABLE OF CARRYING APPROX. 10TONS



Typical Plan of Joint Bay Ducting
 SCALE 1:20

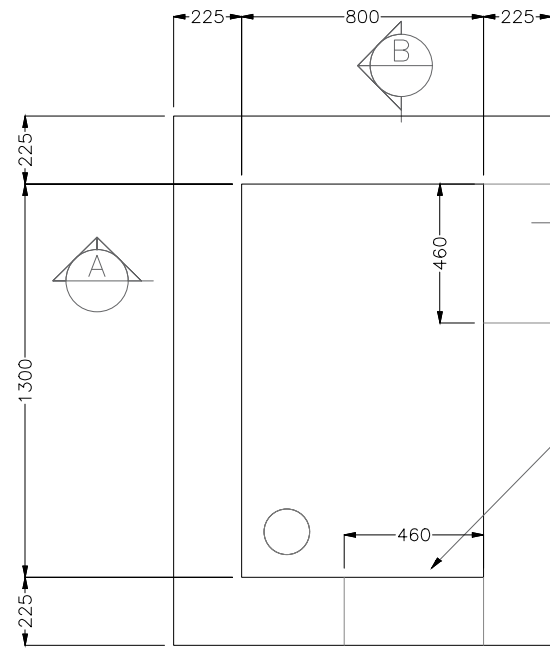


Section A-A
 SCALE 1:20



Section B-B
 SCALE 1:20

- NOTES:**
- This drawing is subject to ESB approval and should be used for planning purposes only.
 - 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
 - Suitability of standard joint bay foundations can only be confirmed following ground investigation. Standard foundations are based on the formation at the base of the excavation shown being suitable for a minimum bearing pressure of 100N/m2. Where this is not achievable and where peat is encountered, the contractor shall refer to the Engineer for guidance.

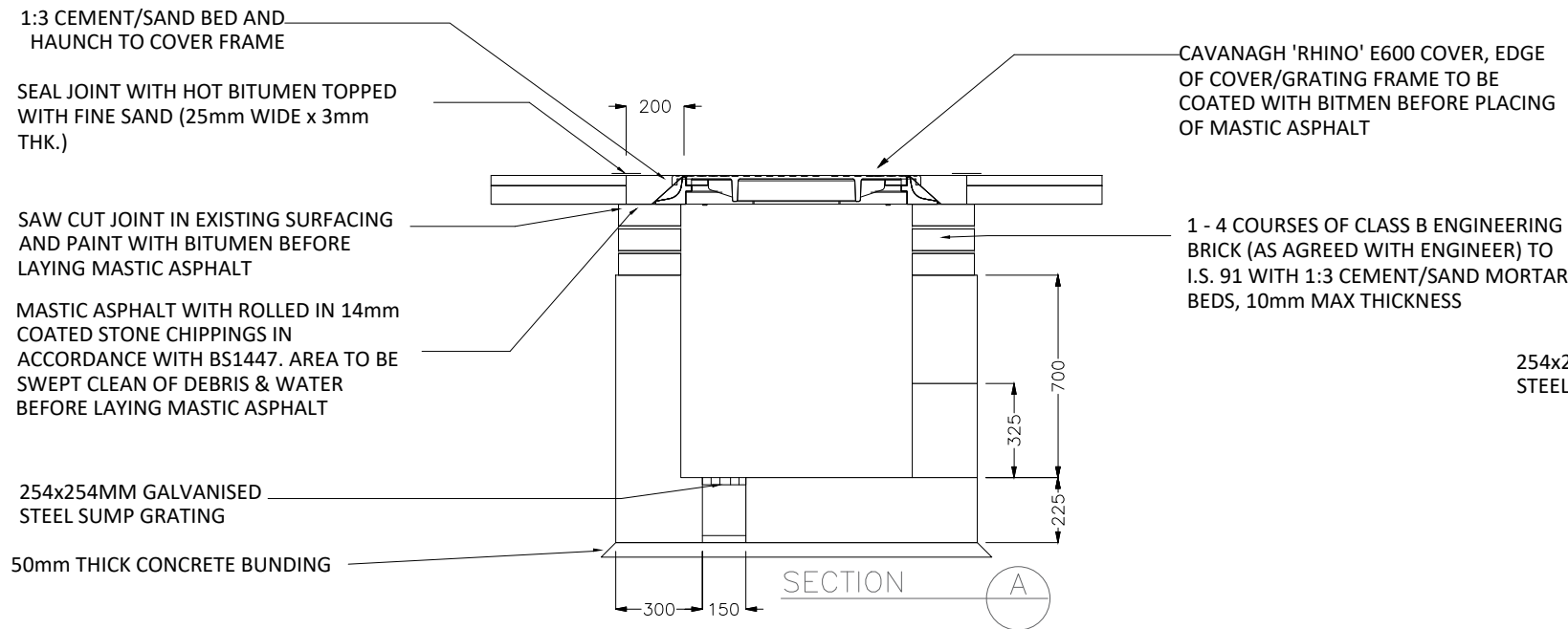


WALL OPENING 460x325 MAX. ACTUAL SIZE TO BE FORMED TO SUIT DUCT ENTRIES. VOIDS TO BE SEALED AND SURFACES MADE GOOD WITH CLASS 1 MORTAR.

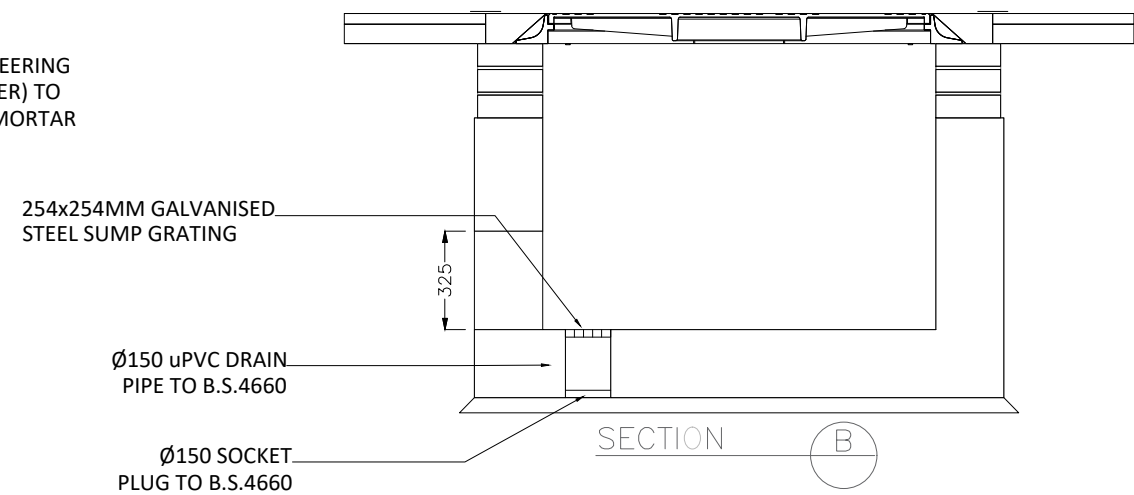
NOTES:

1. This drawing is to be read in conjunction with 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. All material and workmanship to be in accordance with the NRA./TII specification for Roadworks, May 2005 and subsequent revisions
5. Reinforced concrete to be a minimum grade C32/40, Sulphate resisting cement to be used where aggressive soil conditions apply.
6. Carriageway covers and frames to be to B.S. 124.
7. All covers to have ESB logo incorporated in them to the approval of Eirgrid
8. Brickwork to be class B Engineering, beds and Joints to be class 1 mortar
9. Final position of Link Box to be agreed with Eirgrid prior to installation

Link Box Chamber Detail - Plan
SCALE 1:20



Link Box Chamber Detail - Section A-A
SCALE 1:20



Link Box Chamber Detail - Section B-B
SCALE 1:20



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Beenreigh,
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Tralee, Co. Kerry
Ireland
Tel: 00353 66 7135710

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Lissinagroagh Wind Farm
110kV Grid Connection

PROJECT NUMBER
05-773

SHEET NUMBER
05773-DR-146

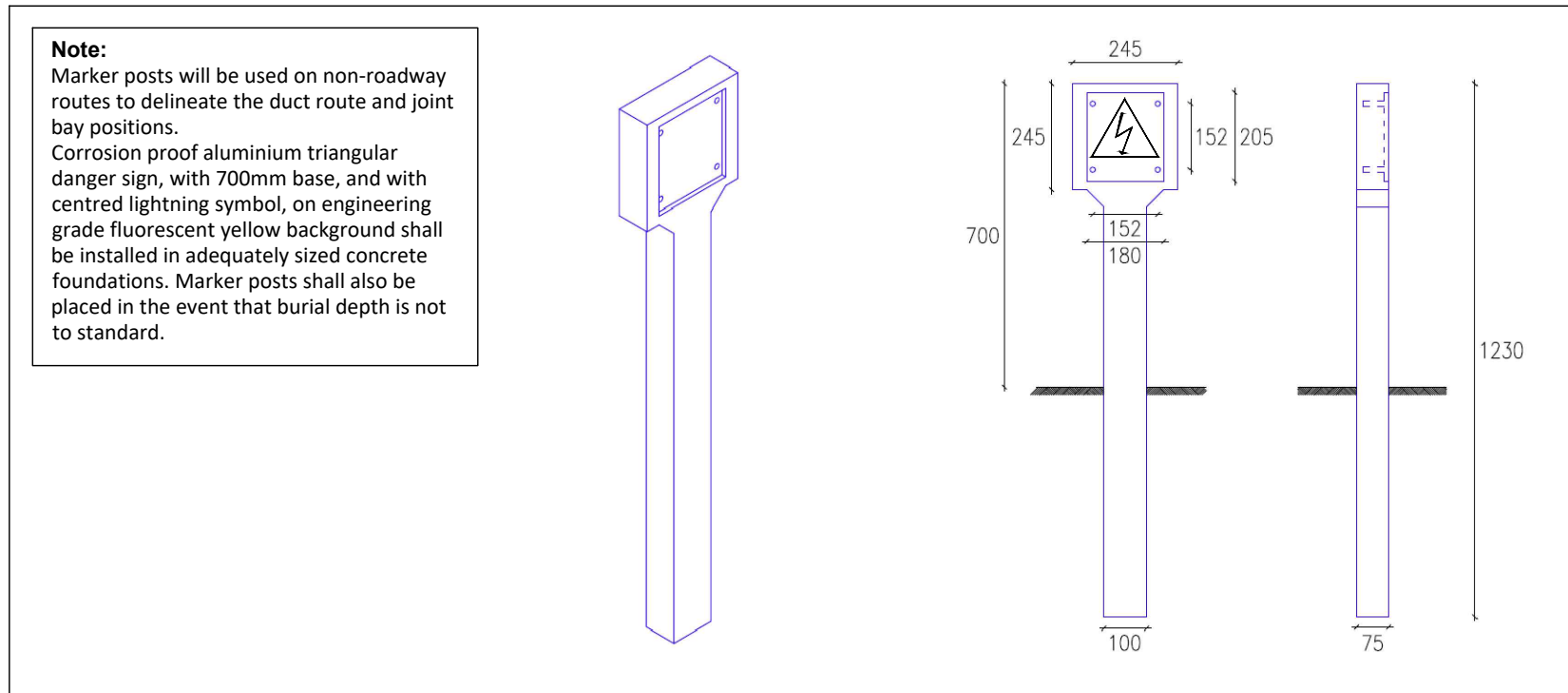
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Link Box Chamber Details

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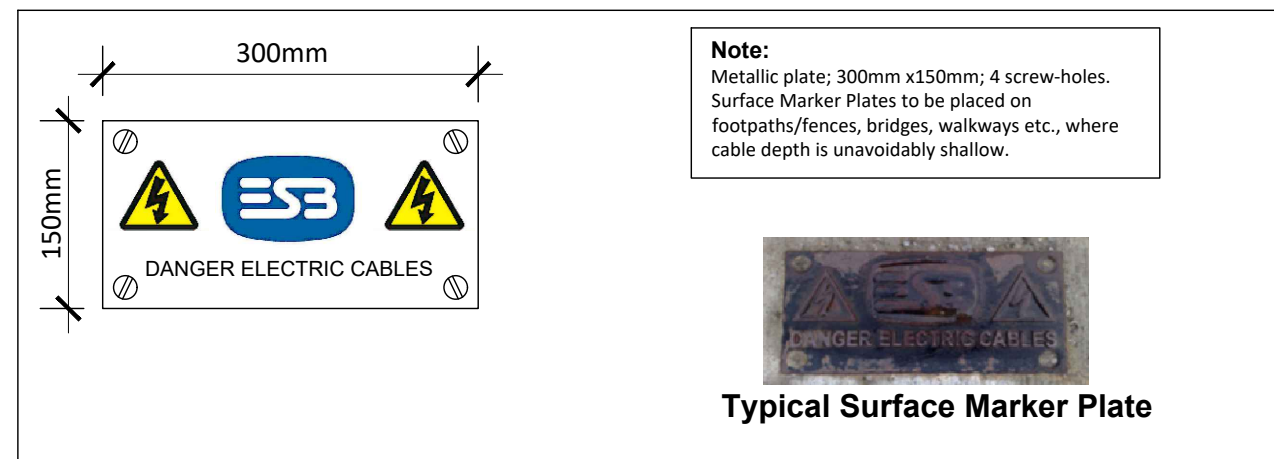
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Typical ESB Marker Post Detail

Not to Scale



Typical ESB Marker Plate Detail

Not to Scale

- Note:**
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 - Dimensions are in millimeters, unless noted otherwise.
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 110kV Grid Connection

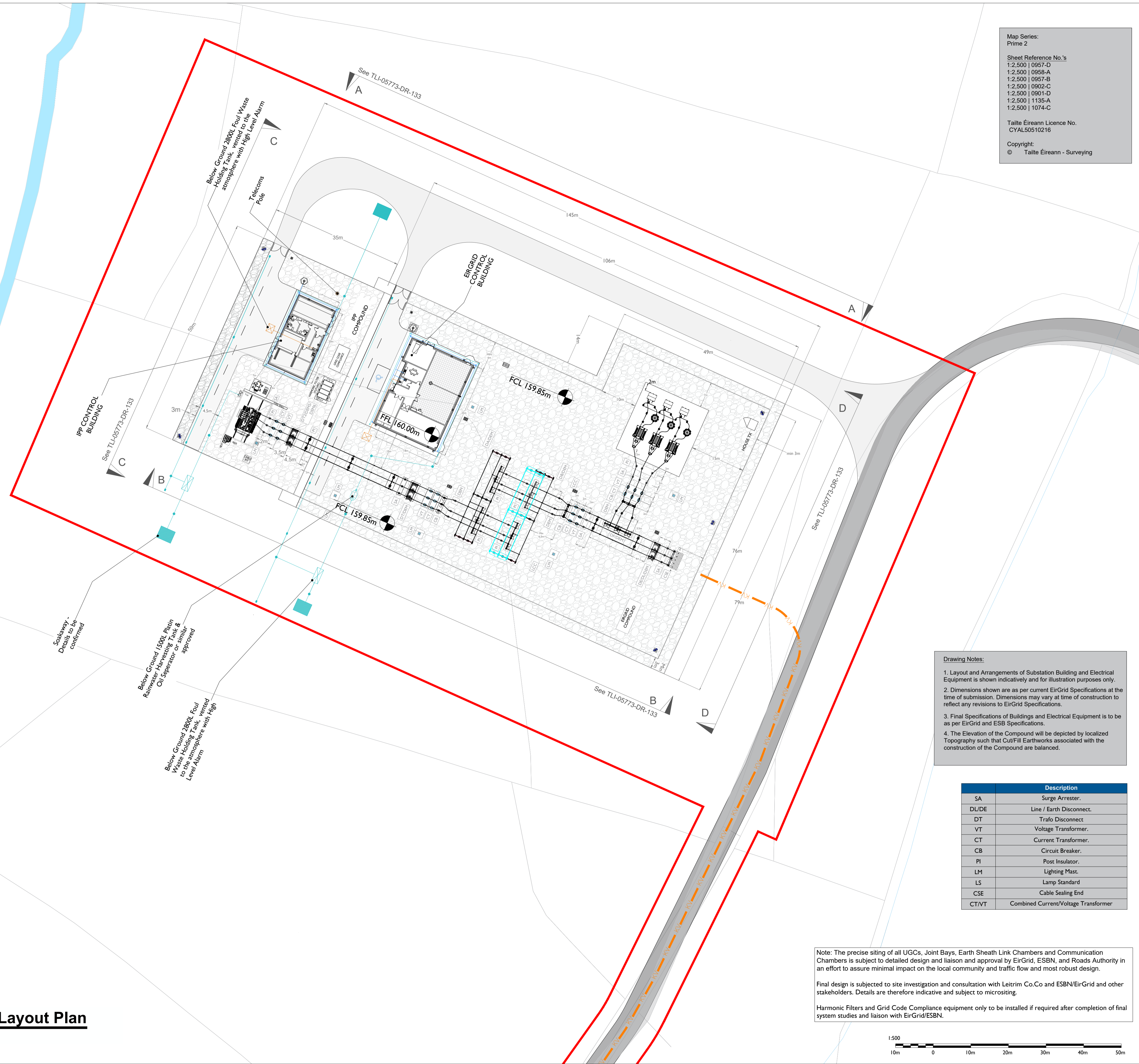
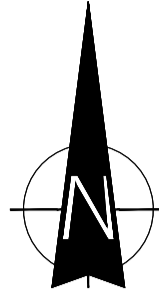
PROJECT NUMBER
 05-775

SHEET NUMBER
 05775-DR-148

SHEET TITLE
 Typical 110kV UGC -
 ESB Marker Posts / Plates

DRAWING STATUS
 For Planning

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P01	21.04.26	Issued for Planning
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Map Series:
Prime 2

Sheet Reference No.'s
1:2,500 | 0957-D
1:2,500 | 0958-A
1:2,500 | 0957-B
1:2,500 | 0902-C
1:2,500 | 0901-D
1:2,500 | 1135-A
1:2,500 | 1074-C

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tli GROUP

Head Office
Beenleigh,
Abbeydonney,
Tralee, Co. Kerry
Ireland
Tel: 00353 66 7135710

Regional Office
Basepoint Business Centre
Stroudley Road, Basingstoke,
Hampshire,
RG24 8UP, UK
Tel: 00 44 1256406664

PROJECT

Lissinagroagh
Wind Farm
110kV Grid Connection

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FuturaEnergy Ireland

CONSULTANTS

TOBIN
CONSULTING ENGINEERS

- NOTES: -**
- Configuration of substation equipment and infrastructure is subject to detailed design and EirGrid design approval.
 - The proposed substation layout should be used for planning purposes only.
 - 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.
 - Preliminary design has only taken place, more detail design is required for all individual electrical components.

- LEGEND: -**
- Proposed UGC Grid Route (31.76/km)
 - Red Line Planning Boundary shown thus
 - Proposed Levels shown thus
 - Proposed 110kV EirGrid Substation two bay arrangement
 - Existing Access track shown thus
 - Proposed Wind Farm track shown thus
 - Contours shown thus
 - Existing River Network shown thus
 - Future extension to 4 Bays shown thus
 - Future extension to 8 Bays shown thus
 - Spare shown thus

Drawing Notes:

1. Layout and Arrangements of Substation Building and Electrical Equipment is shown indicatively and for illustration purposes only.
2. Dimensions shown are as per current EirGrid Specifications at the time of submission. Dimensions may vary at time of construction to reflect any revisions to EirGrid Specifications.
3. Final Specifications of Buildings and Electrical Equipment is to be as per EirGrid and ESB Specifications.
4. The Elevation of the Compound will be depicted by localized Topography such that Cut/Fill Earthworks associated with the construction of the Compound are balanced.

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

Note: The precise siting of all UGCs, Joint Bays, Earth Sheath Link Chambers and Communication Chambers is subject to detailed design and liaison and approval by EirGrid, ESBN, and Roads Authority in an effort to assure minimal impact on the local community and traffic flow and most robust design.

Final design is subjected to site investigation and consultation with Leitrim Co.Co and ESBN/EirGrid and other stakeholders. Details are therefore indicative and subject to microcircuiting.

Harmonic Filters and Grid Code Compliance equipment only to be installed if required after completion of final system studies and liaison with EirGrid/ESBN.

Substation - Site Layout Plan
SCALE 1:500



ISSUE/REVISION

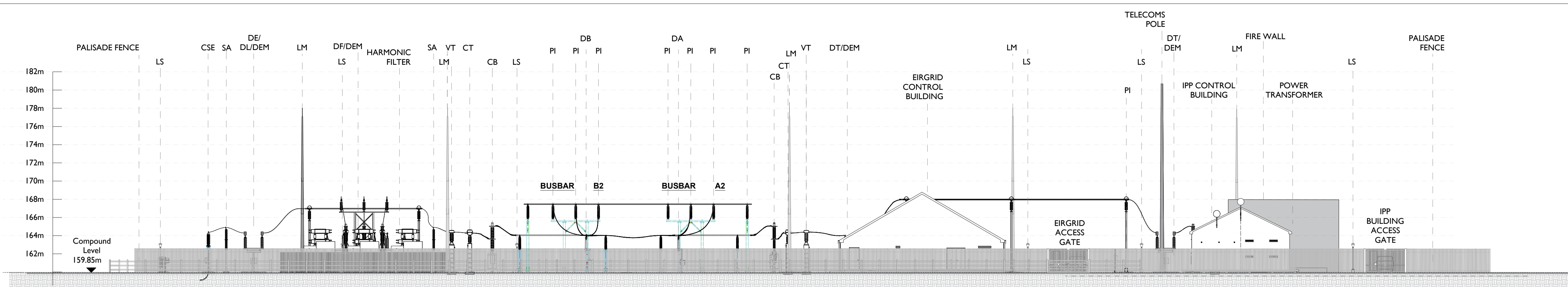
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P3	21.04.26	Issued for Planning
P2	20.04.26	Issued for Planning
P1	19.12.25	Issued for Planning

PROJECT NUMBER
05-773

SHEET TITLE
Substation Layout Plan

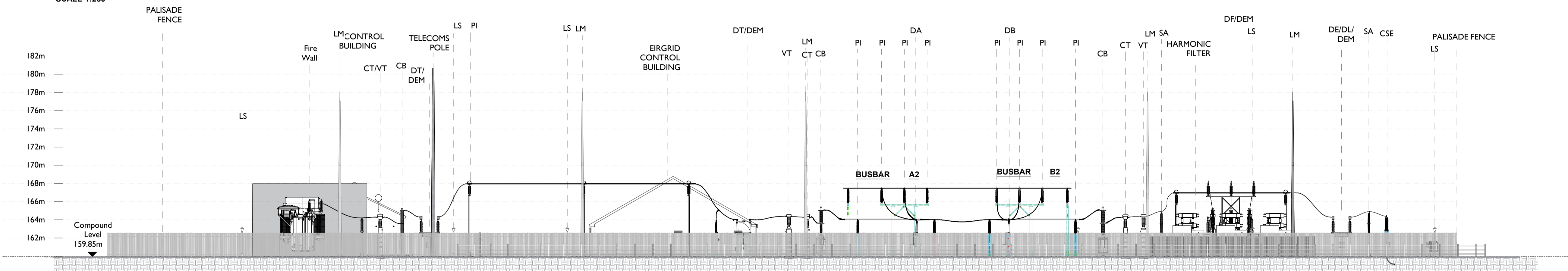
SHEET NUMBER
05773-DR-130

ISO A1 1594mm x 841mm



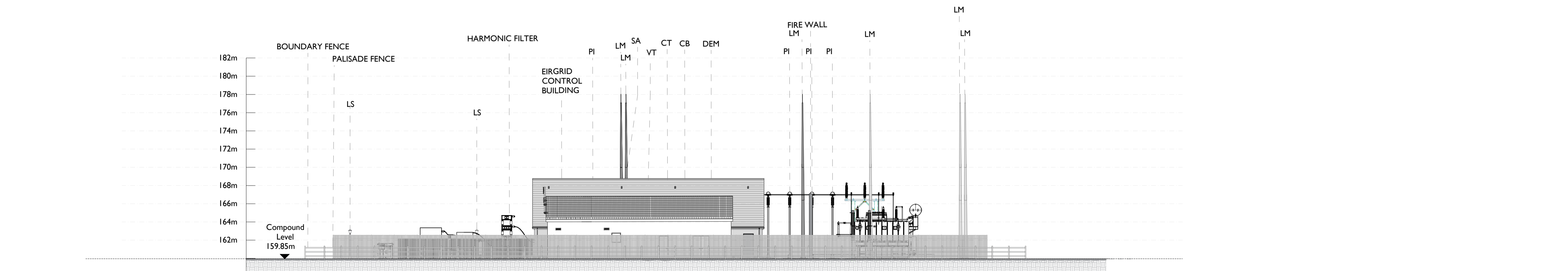
Section A-A Elevation

SCALE 1:250



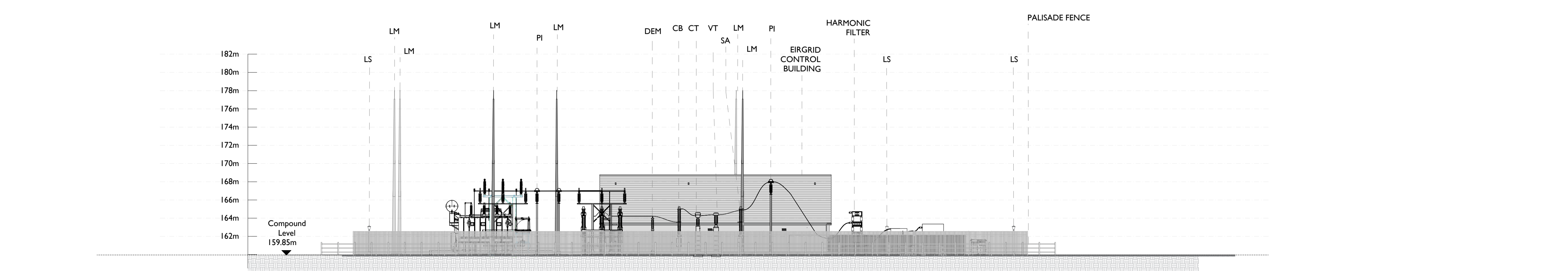
Section B-B Elevation

SCALE 1:250



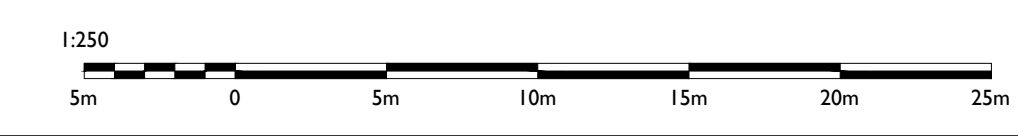
Section C-C Elevation

SCALE 1:250



Section D-D Elevation

SCALE 1:250



Head Office
Beeleigh,
Abbeydorney,
Tralee, Co. Kerry
Ireland
Tel: 00353 66 7135710

Regional Office
Basepoint Business Centre
Scroudfley Road, Basingstoke,
Hampshire,
RG24 8UP, UK
Tel: 00 44 1256406664

PROJECT
Lissinagroagh
Wind Farm
110kV Grid Connection

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Ireland

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CONSULTING ENGINEERS

- NOTES: -**
- Configuration of substation equipment and infrastructure is subject to detailed design and EirGrid design approval.
 - The proposed substation layout should be used for planning purposes only.
 - 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.
 - Preliminary design has only taken place, more detail design is required for all individual electrical components.

LEGEND: -

Symbol	Description
CSE	CABLE SEALING END
SA	SURGE ARRESTER
DL/DE	LINE DISCONNECT
DT/DEM	TRANSFORMER/EARTH DISCONNECT
DEM	EARTH SWITCH
DB/DEB	BUSBAR DISCONNECT
VT	VOLTAGE TRANSFORMER
CT	CURRENT TRANSFORMER
CB	CIRCUIT BREAKER
PI	POST INSULATOR
LM	LIGHTING MAST
LP	LAMP POST
IK	INTERFACE KIOSK
HX	HOUSE TRANSFORMER
LCC	LOCAL CONTROL CABINET
NER	NEUTRAL EARTHING RESISTOR

ISSUE/REVISION

Issue/Revision	DATE	DESCRIPTION
P3	21.04.26	Issued for Planning
P2	20.04.26	Issued for Planning
P1	19.12.25	Issued for Planning
N1	25.11.25	Issued for Information
I/R	DATE	DESCRIPTION

PROJECT NUMBER
05-773

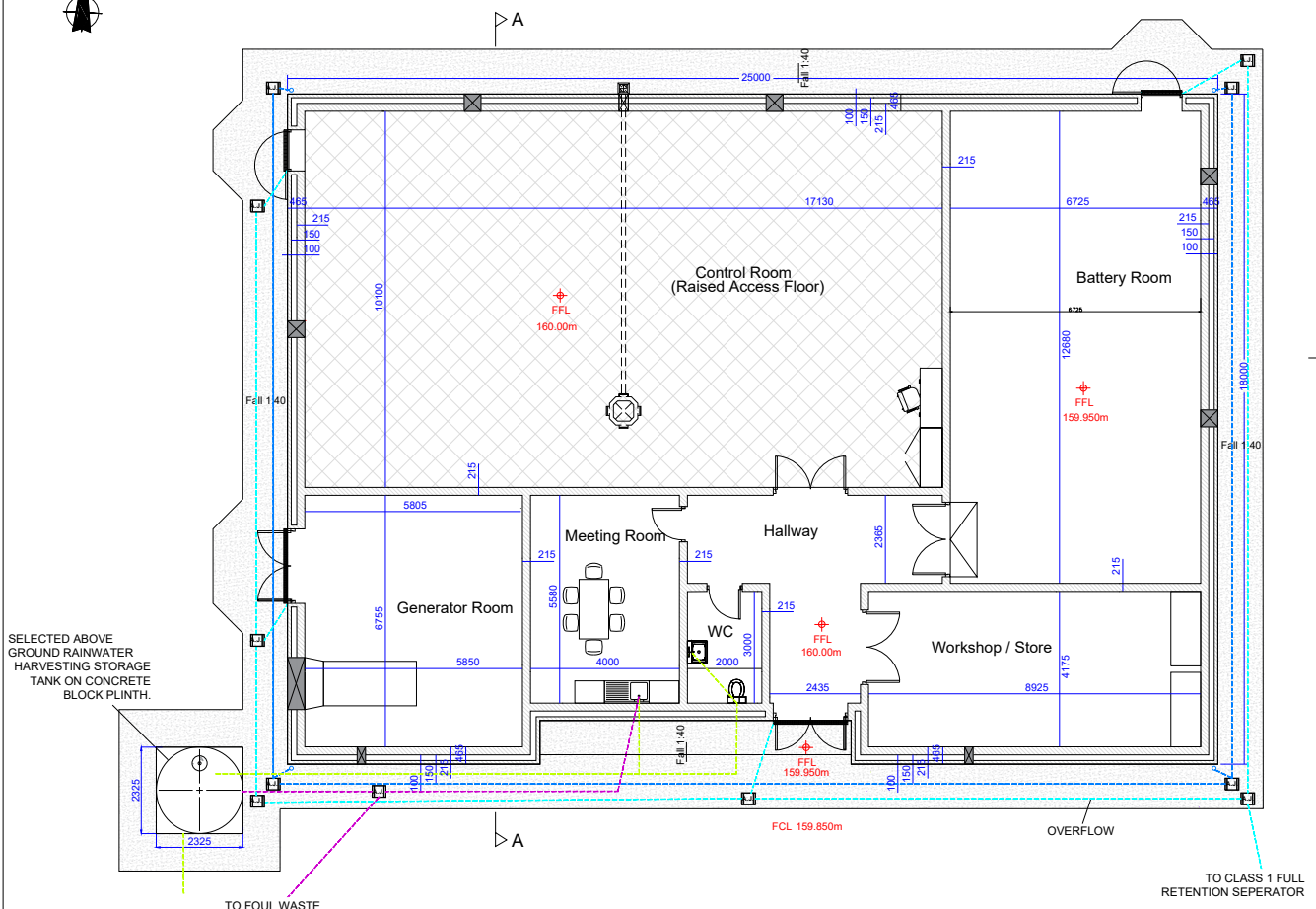
SHEET TITLE
Substation Compound Elevations

SHEET NUMBER
05773-DR-133

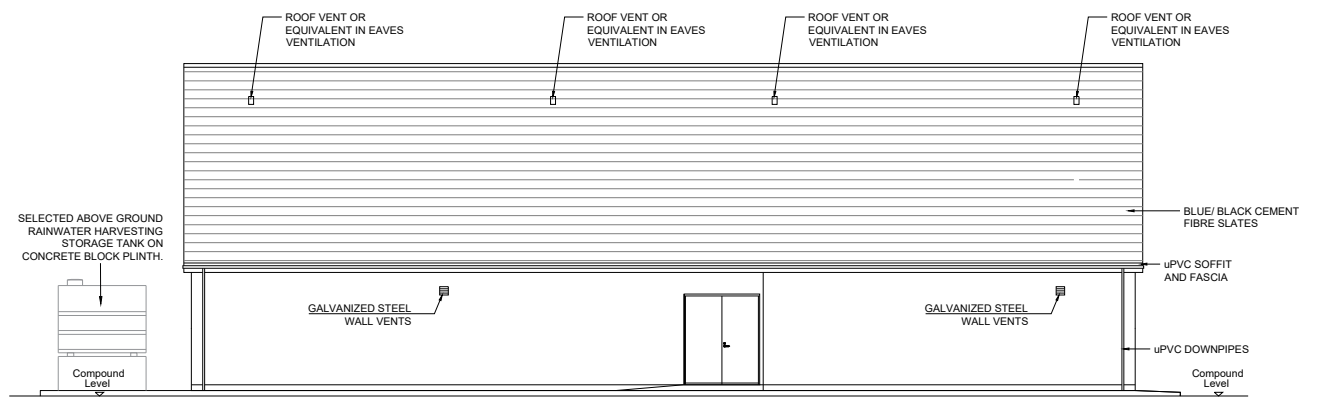
Project Management Initials: Designer: NS Checked: DB Approved: DB

ISO A1 594mm x 841mm

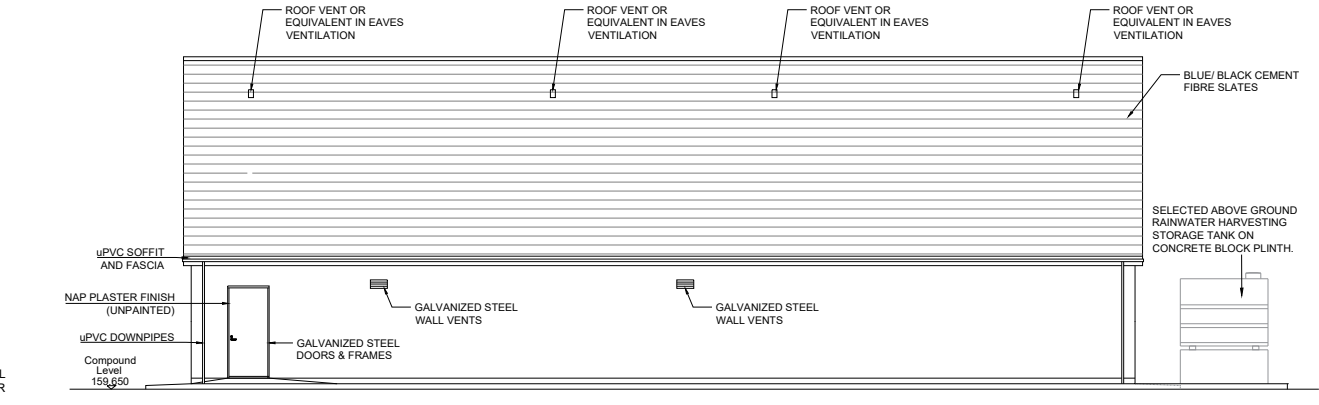
Project Management Initials: Designer: JC Checked: DB Approved: RG



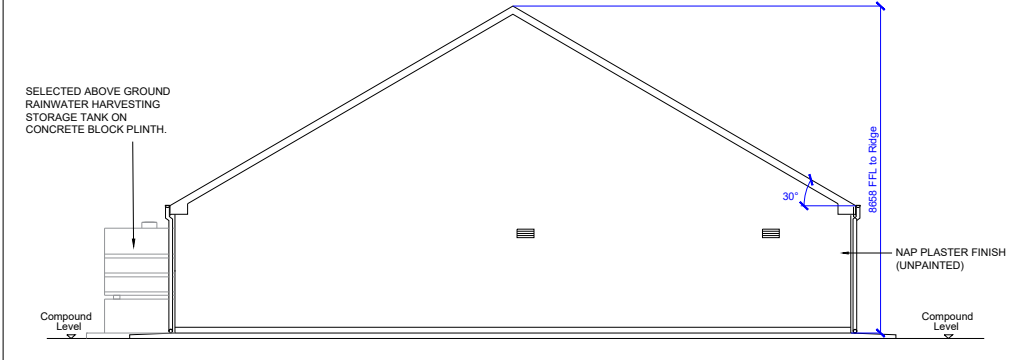
PLAN - CONTROL BUILDING
Scale : 1:100



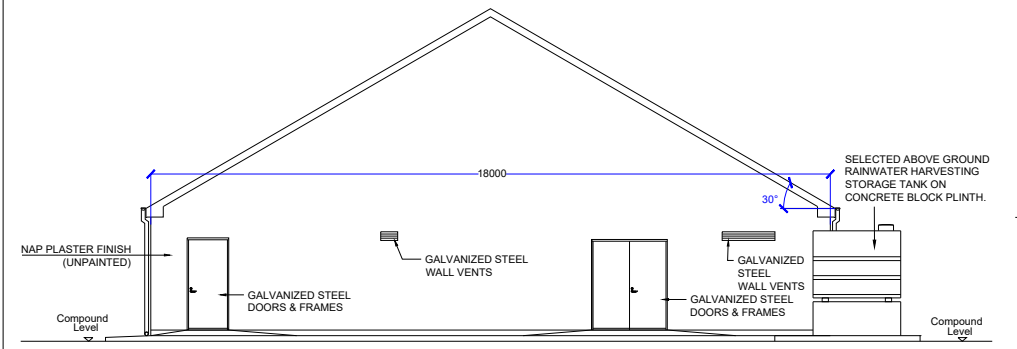
NORTH WEST ELEVATION
Scale : 1:100



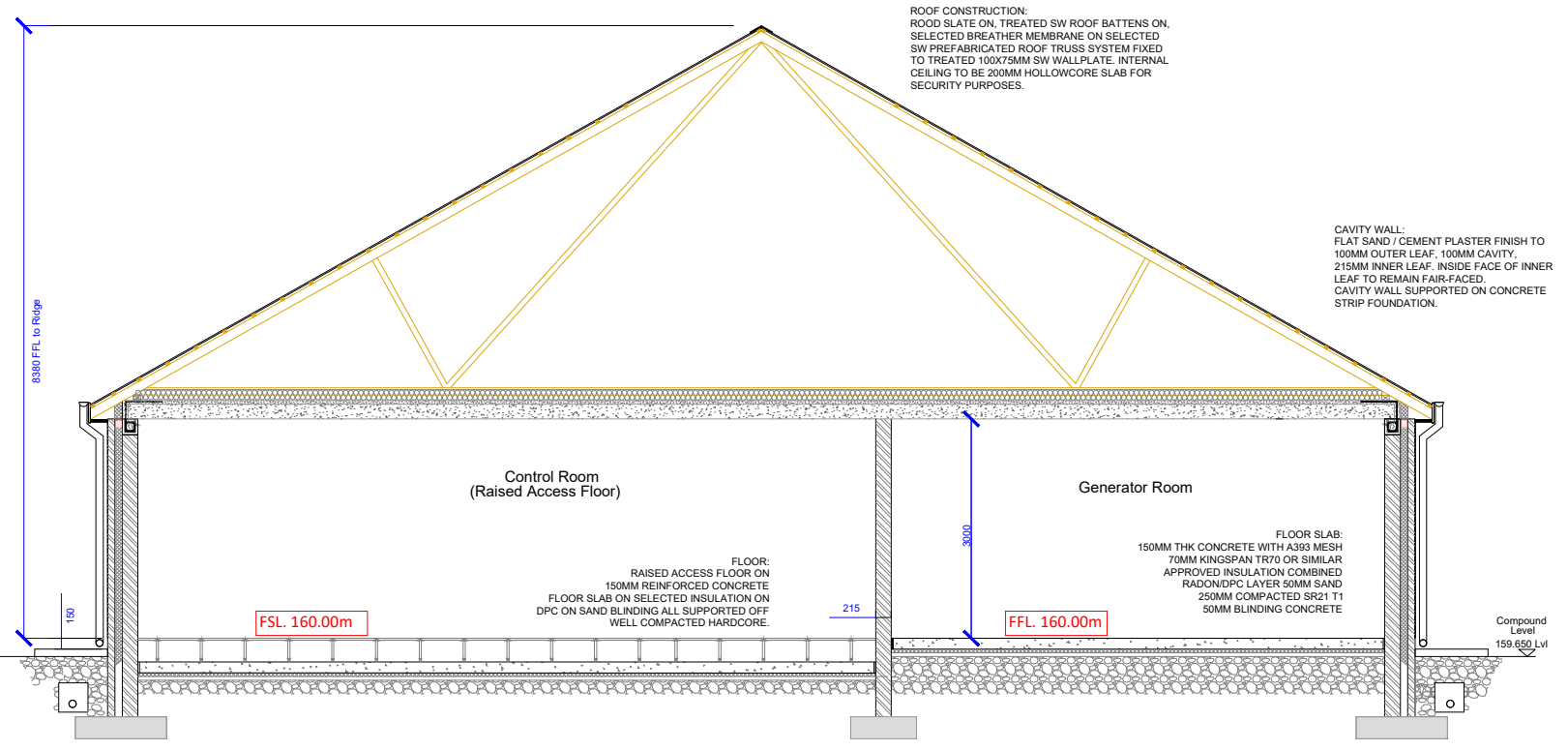
SOUTH EAST ELEVATION
Scale : 1:100



SOUTH WEST ELEVATION
Scale : 1:100



NORTH EAST ELEVATION
Scale : 1:100



SECTION A-A
Scale : 1:50



Head Office
Beenrigh,
Abbeydorney,
Tralee, Co. Kerry
Ireland
Tel: 00353 66 7135710

Regional Office
Basepoint Business Centre
Stroudley Road, Basingstoke,
Hampshire,
RG24 8UP, UK
Tel: 00 44 1256406664

PROJECT
**Lissingroagh
Wind Farm
110kV Grid Connection**

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- NOTES:-
- Layout and Arrangements of Substation Building and Electrical Equipment is shown indicatively and for illustration purposes only.
 - Dimensions shown are as per current EirGrid Specifications at the time of submission. Dimensions may vary at time of construction to reflect any revisions to EirGrid Specifications.
 - Final Specifications of Buildings and Electrical Equipment is to be per Eirgrid and ESB Specifications.
 - The Elevation of the Compound will be depicted by localized Topography such that Cut/Fill Earthworks associated with the construction of the Compound are balanced.

- LEGEND:-
- Levels shown thus 160.81m
 - Concrete Footpath shown thus
 - Foul Sewer shown thus ---
 - Clean Storm Water shown thus ---
 - Dirty Storm Water shown thus ---
 - Water supply from Harvesting Tank shown thus ---

ISSUE/REVISION	DATE	DESCRIPTION
P03	21.04.26	Issued for Planning
P02	20.04.26	Issued for Planning
P01	19.12.25	Issued for Planning
P00	29.04.22	Issued for Planning
I/R	DATE	DESCRIPTION

PROJECT NUMBER
05-773

SHEET TITLE
**Eir Grid Control Building
Plan, Elevations & Section**

SHEET NUMBER
05773-DR-134

ISO A1 594mm x 841mm

PROJECT

**Lissinagroagh
 Wind Farm
 110kV Grid Connection**

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NOTES:-

1. Layout and Arrangements of Substation Building and Electrical Equipment is shown indicatively and for illustration purposes only.
2. Dimensions shown are as per current EirGrid Specifications at the time of submission. Dimensions may vary at time of construction to reflect any revisions to EirGrid Specifications.
3. Final Specifications of Buildings and Electrical Equipment is to be as per EirGrid and ESB Specifications.
4. The Elevation of the Compound will be depicted by localized Topography such that Cut/Fill Earthworks associated with the construction of the Compound are balanced.

LEGEND:-

- Levels shown thus 159.90m
- Concrete Footpath shown thus

ISSUE/REVISION

NO	DATE	DESCRIPTION
P03	21.04.26	Issued for Planning
P02	20.04.26	Issued for Planning
P01	19.12.25	Issued for Planning
P00	29.04.22	Issued for Planning
I/R	DATE	DESCRIPTION

PROJECT NUMBER

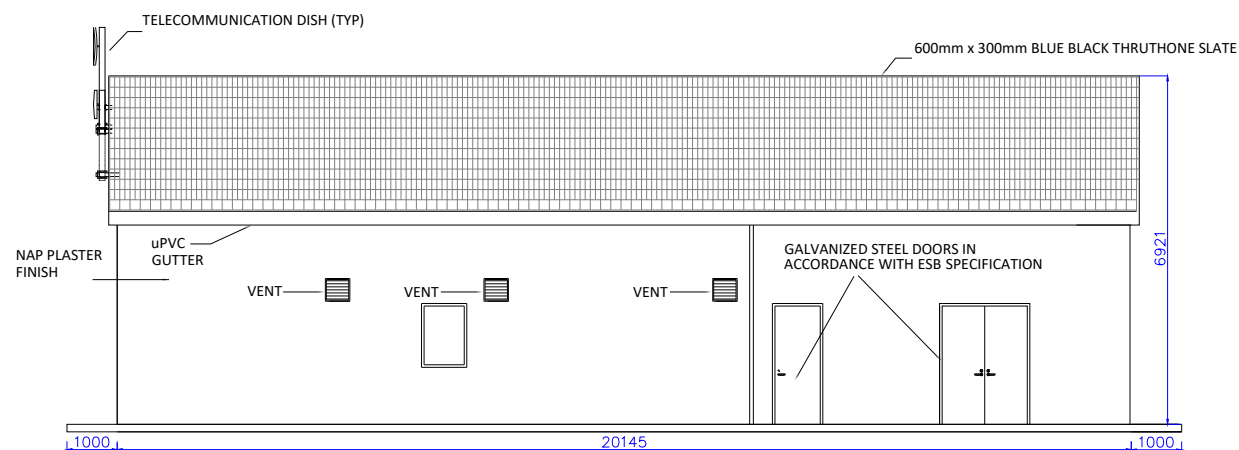
05-773

SHEET TITLE

IPP Building - Plan & Elevations
 & Section

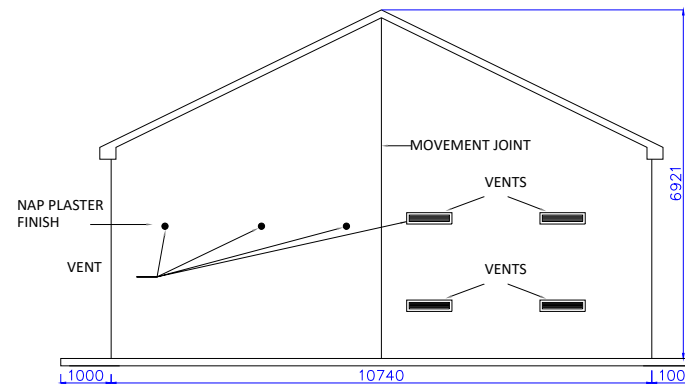
SHEET NUMBER

05773-DR-135



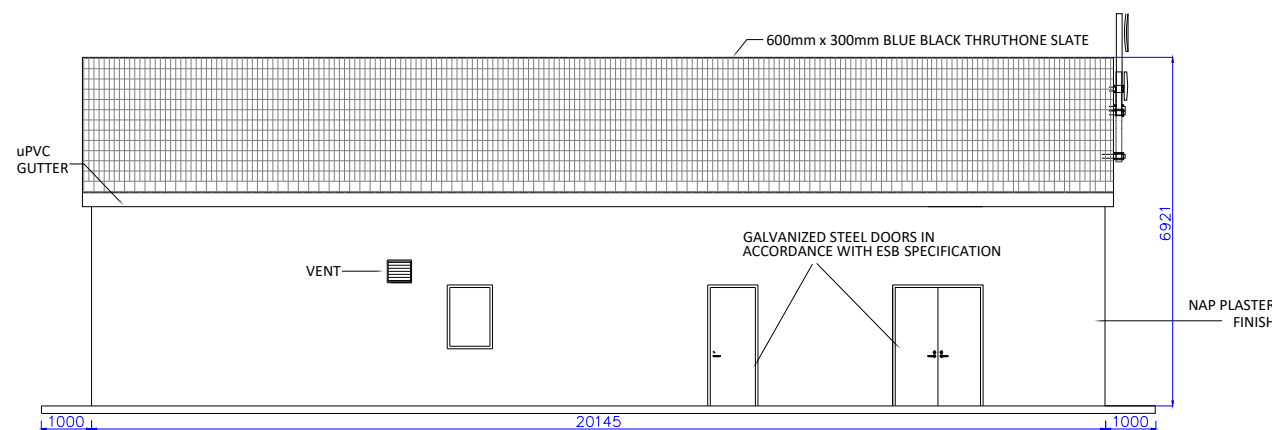
NORTH WEST ELEVATION

Scale : 1:75



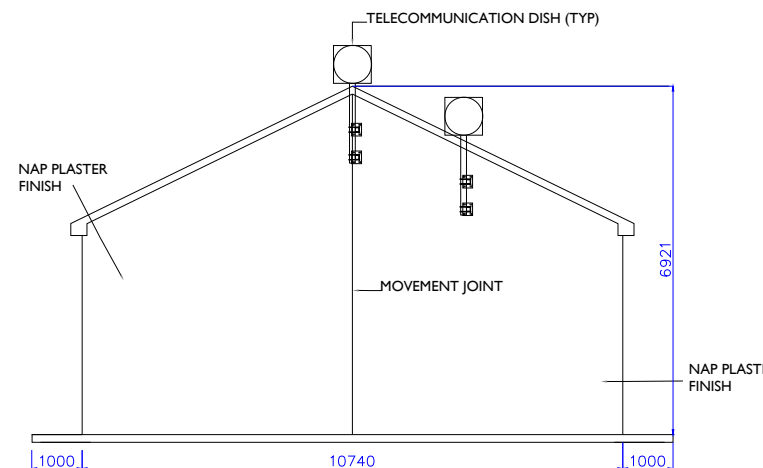
NORTH EAST ELEVATION

Scale : 1:75



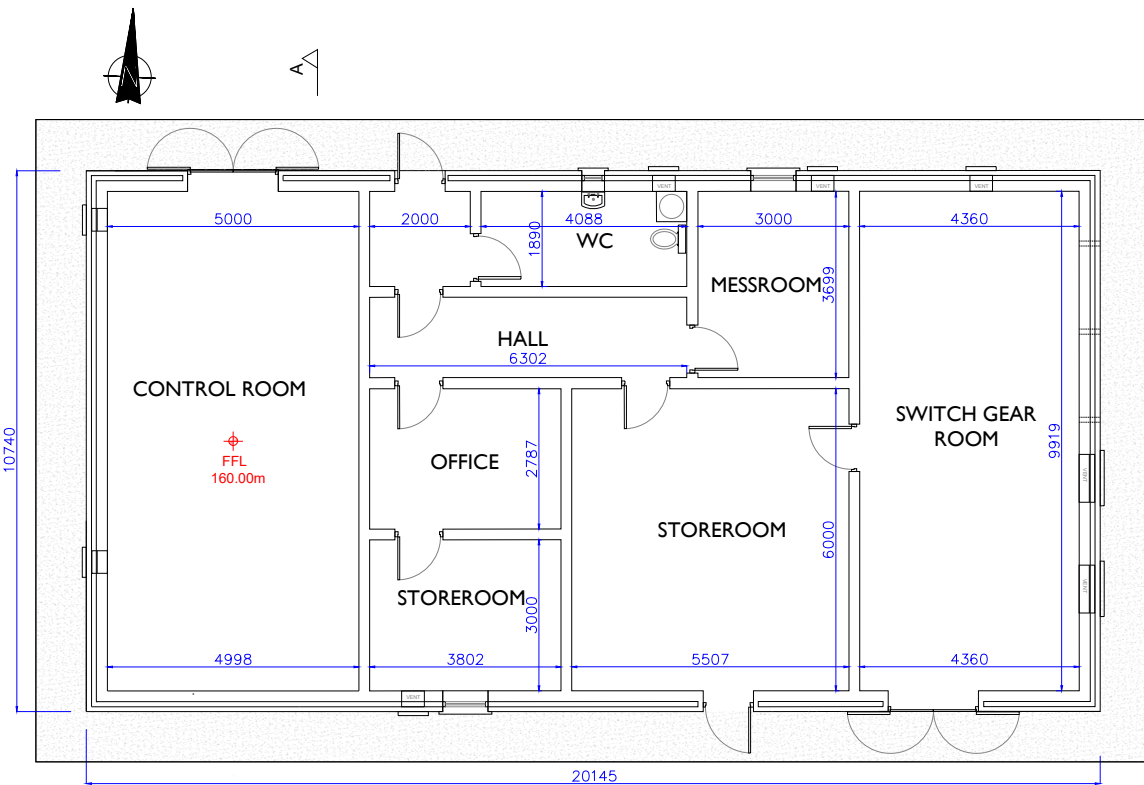
SOUTH EAST ELEVATION

Scale : 1:75



SOUTH WEST ELEVATION

Scale : 1:75

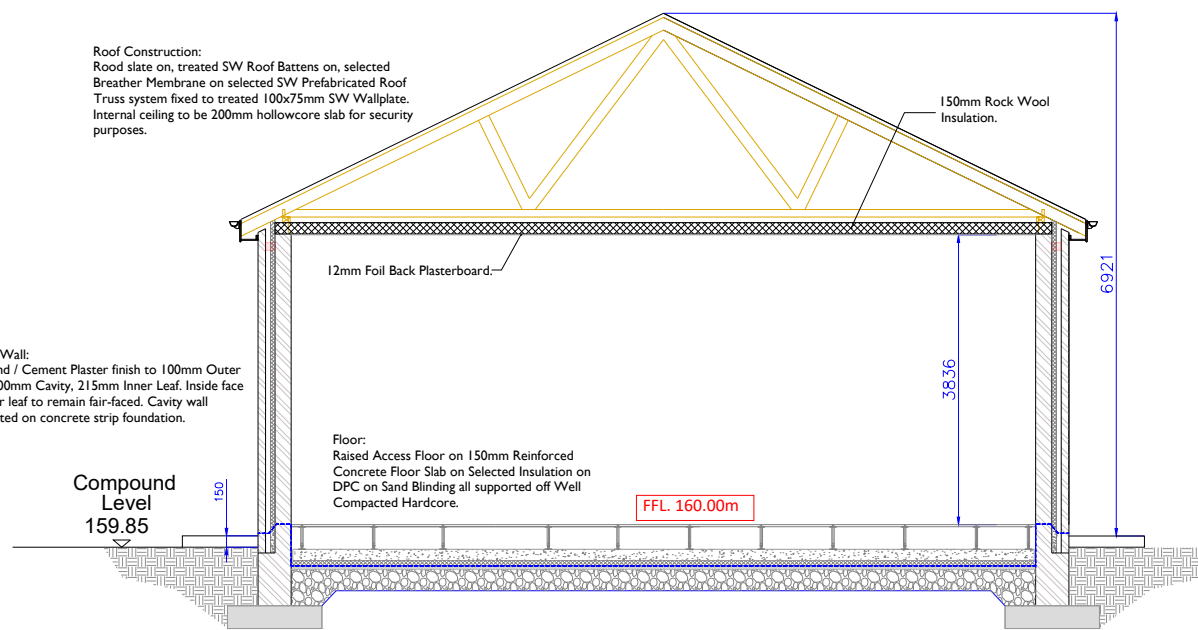


PLAN - IPP BUILDING

Scale : 1:100

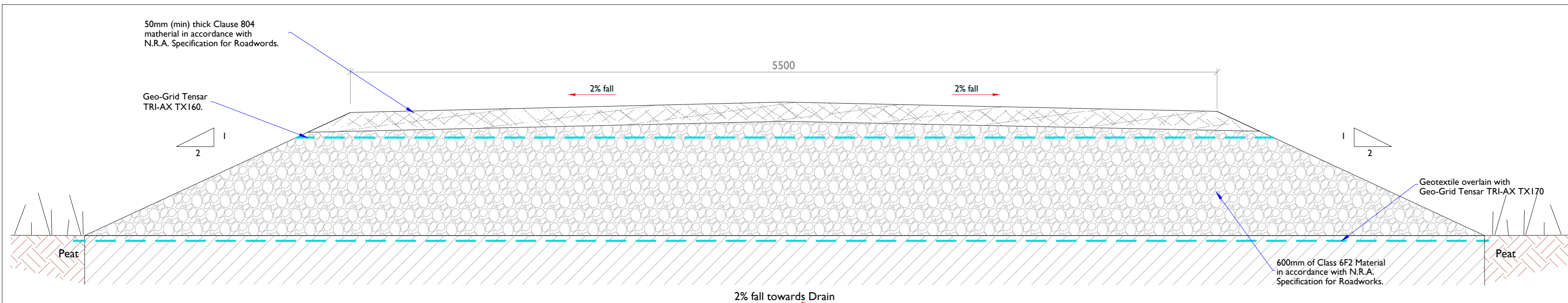
Roof Construction:
 Roof slate on, treated SW Roof Battens on, selected Breather Membrane on selected SW Prefabricated Roof Truss system fixed to treated 100x75mm SW Wallplate. Internal ceiling to be 200mm hollowcore slab for security purposes.

Cavity Wall:
 Flat Sand / Cement Plaster finish to 100mm Outer Leaf, 100mm Cavity, 215mm Inner Leaf. Inside face of inner leaf to remain fair-faced. Cavity wall supported on concrete strip foundation.



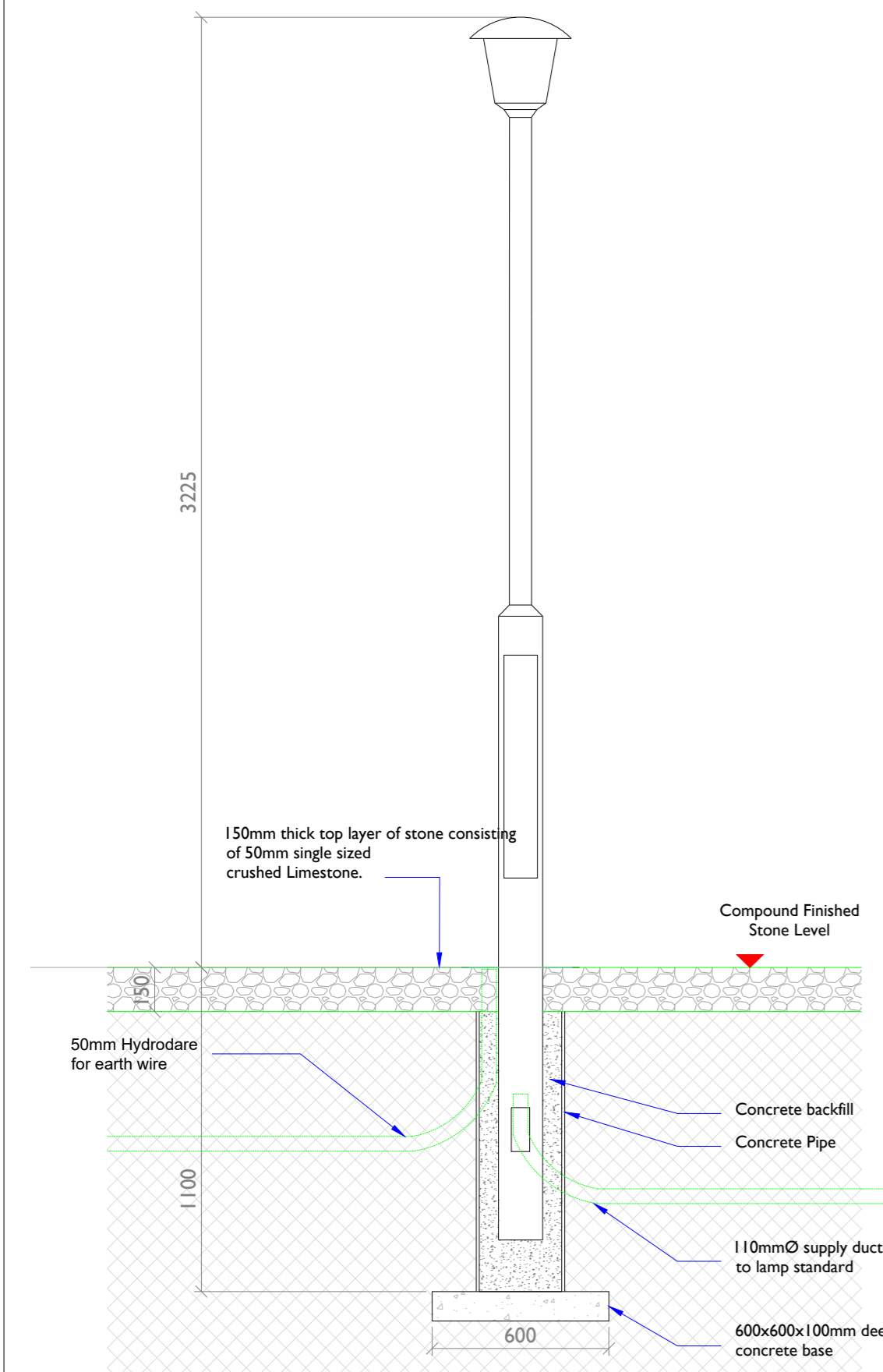
SECTION A-A

Scale : 1:50



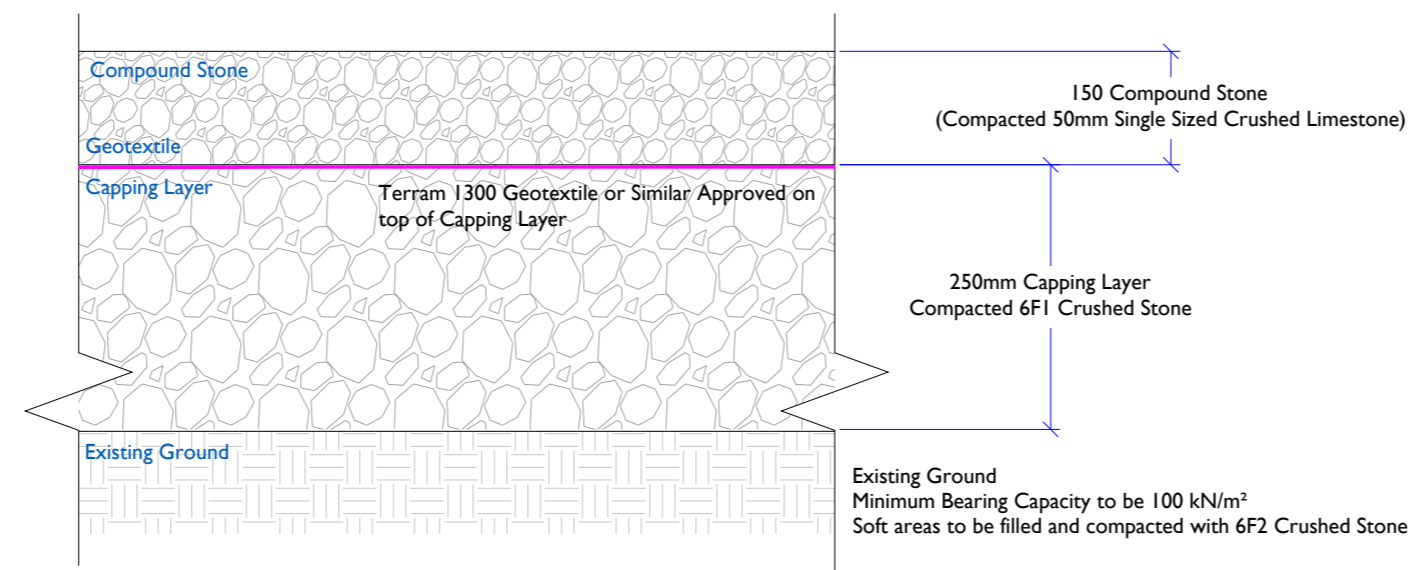
Typical Section Thru Access Road (Floating Road Detail)

SCALE 1:20



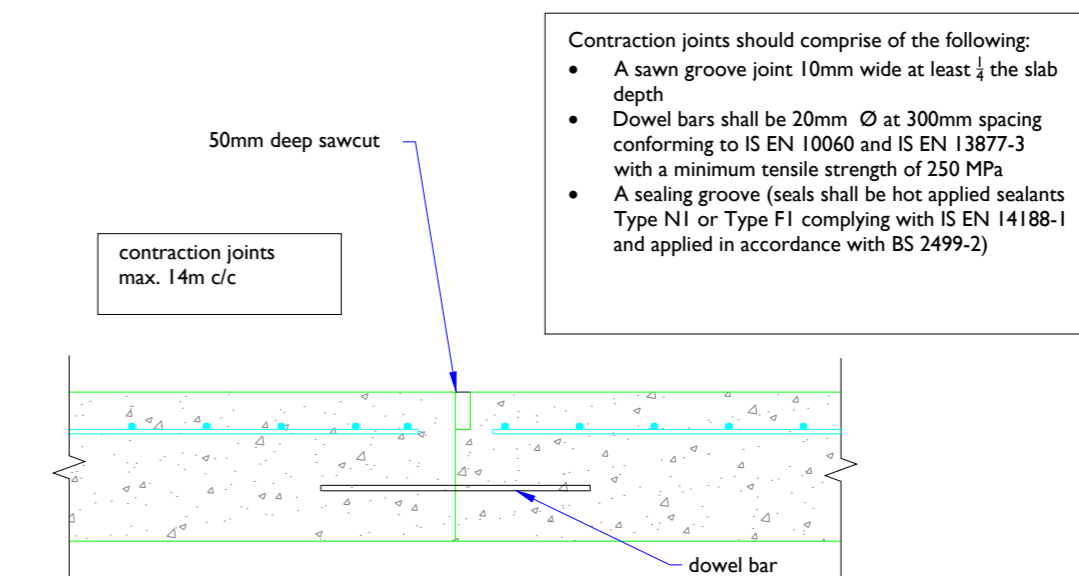
Lighting Column & Surround Detail

SCALE 1:20



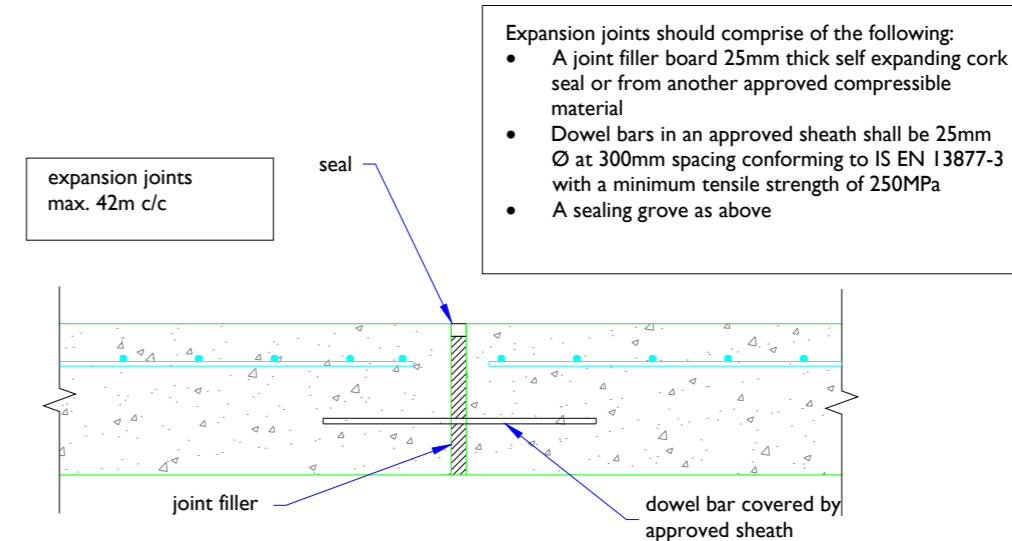
Typical Compound Detail

SCALE 1:10



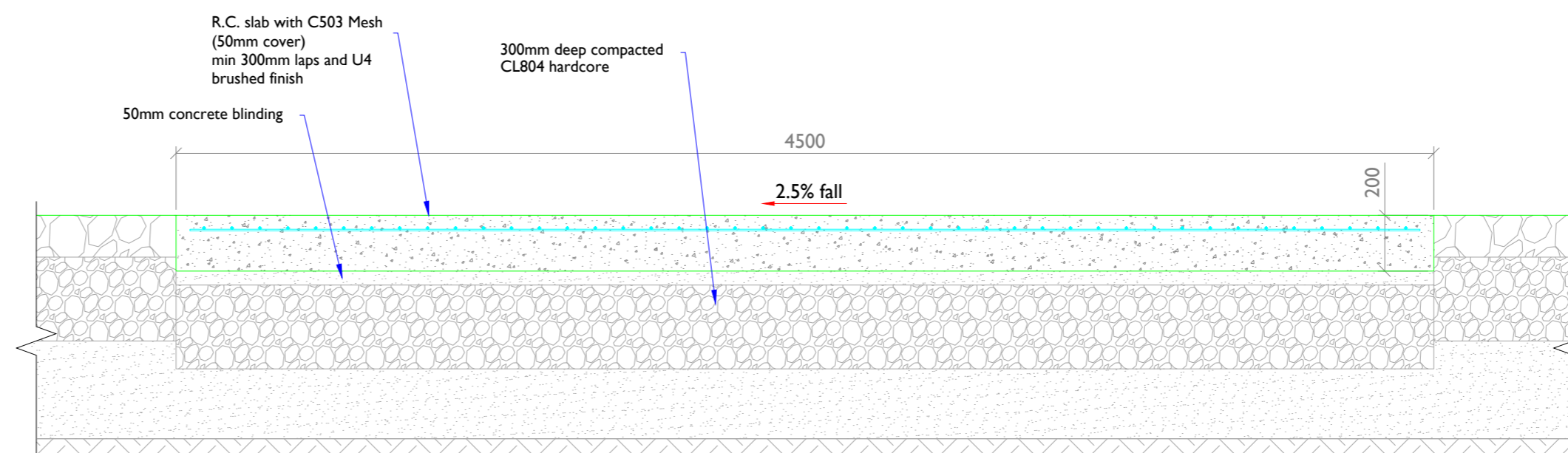
Concrete Access Road Contraction Joint

SCALE 1:10



Concrete Access Road Expansion Joint

SCALE 1:10

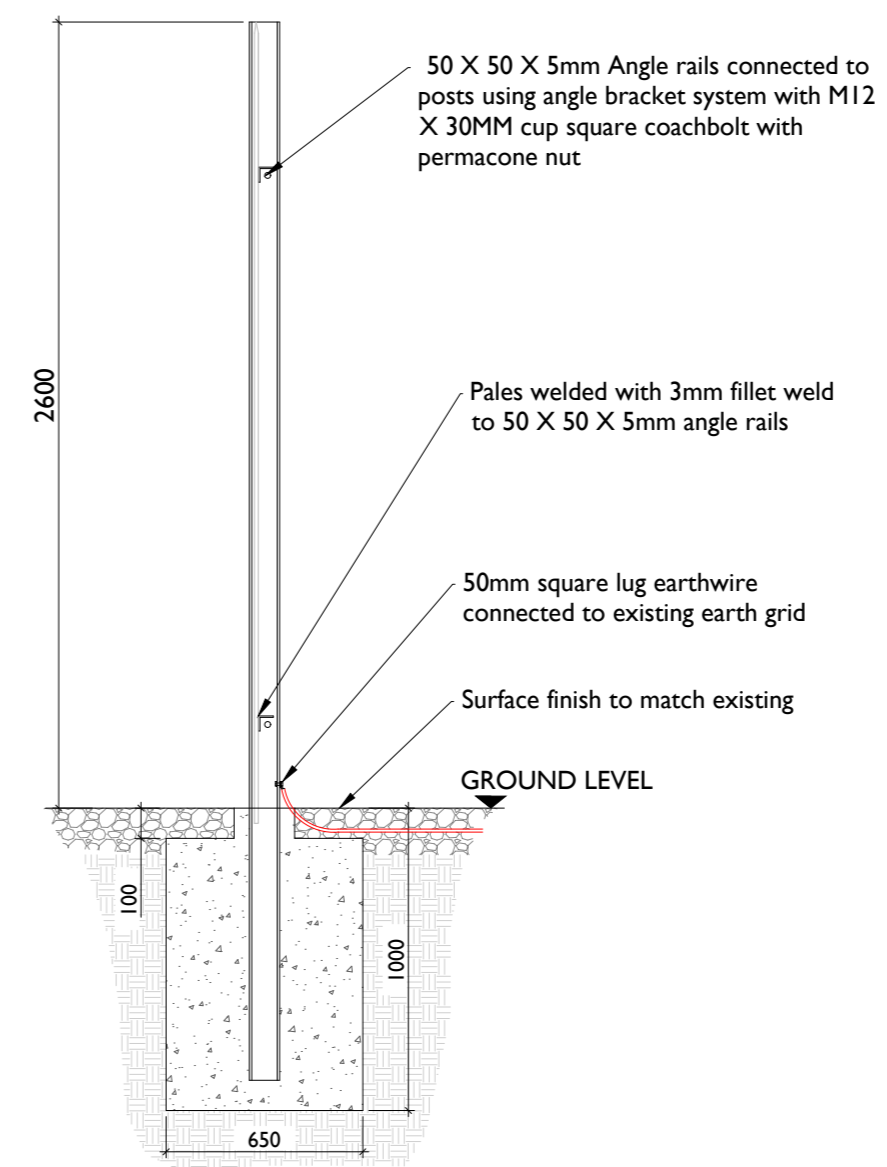
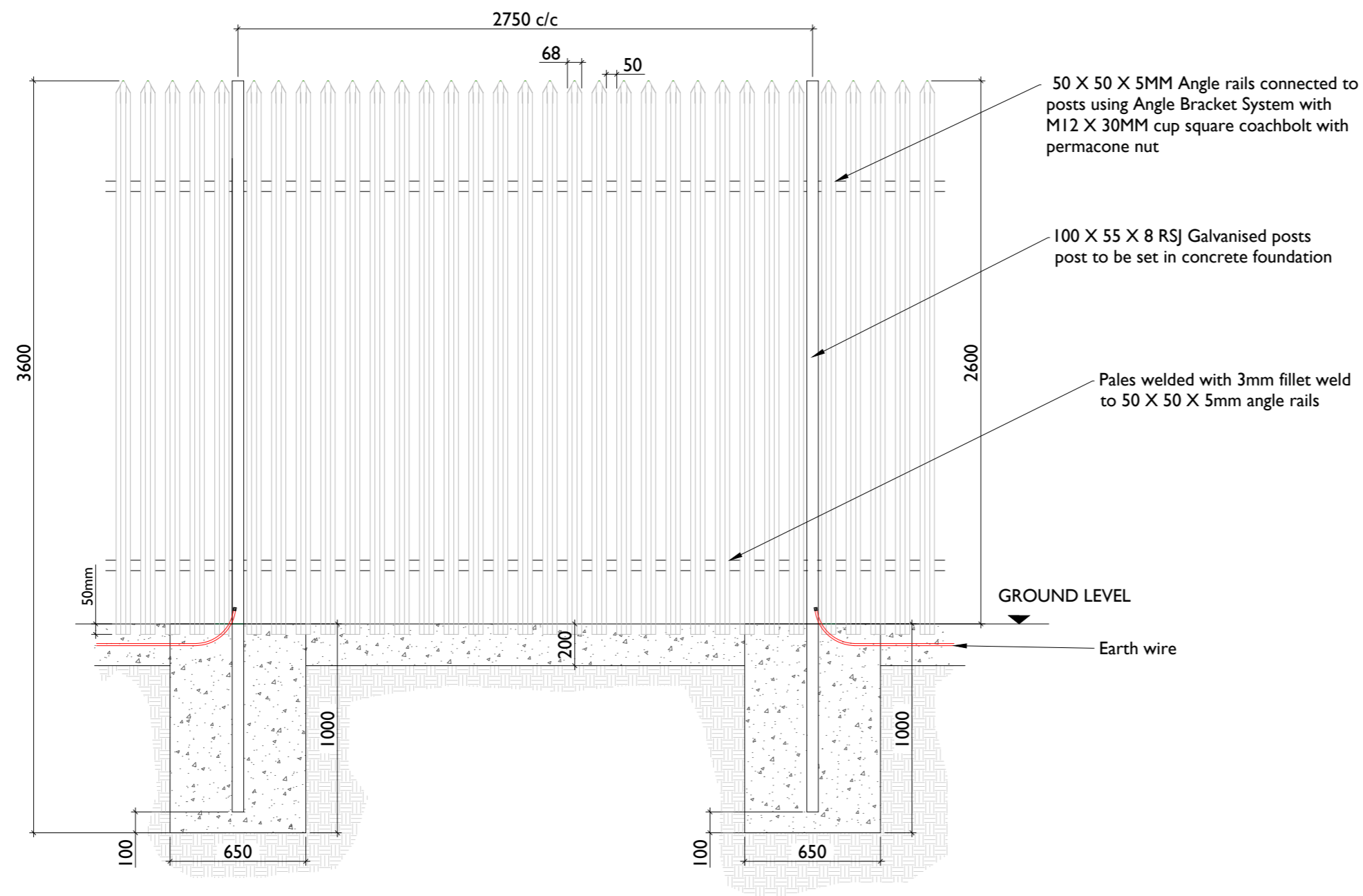


Typical Section - Concrete Access Road

SCALE 1:20

- This drawing is to be read in conjunction with relevant engineering drawings, specifications and reports
- Dimensions are in millimeters, unless noted otherwise
- Drawings are not to be scaled use figured dimensions only

NO	DATE	DESCRIPTION
P01	21.04.26	Issued for Planning
P00	19.12.25	Issued for Planning
I/R	DATE	DESCRIPTION

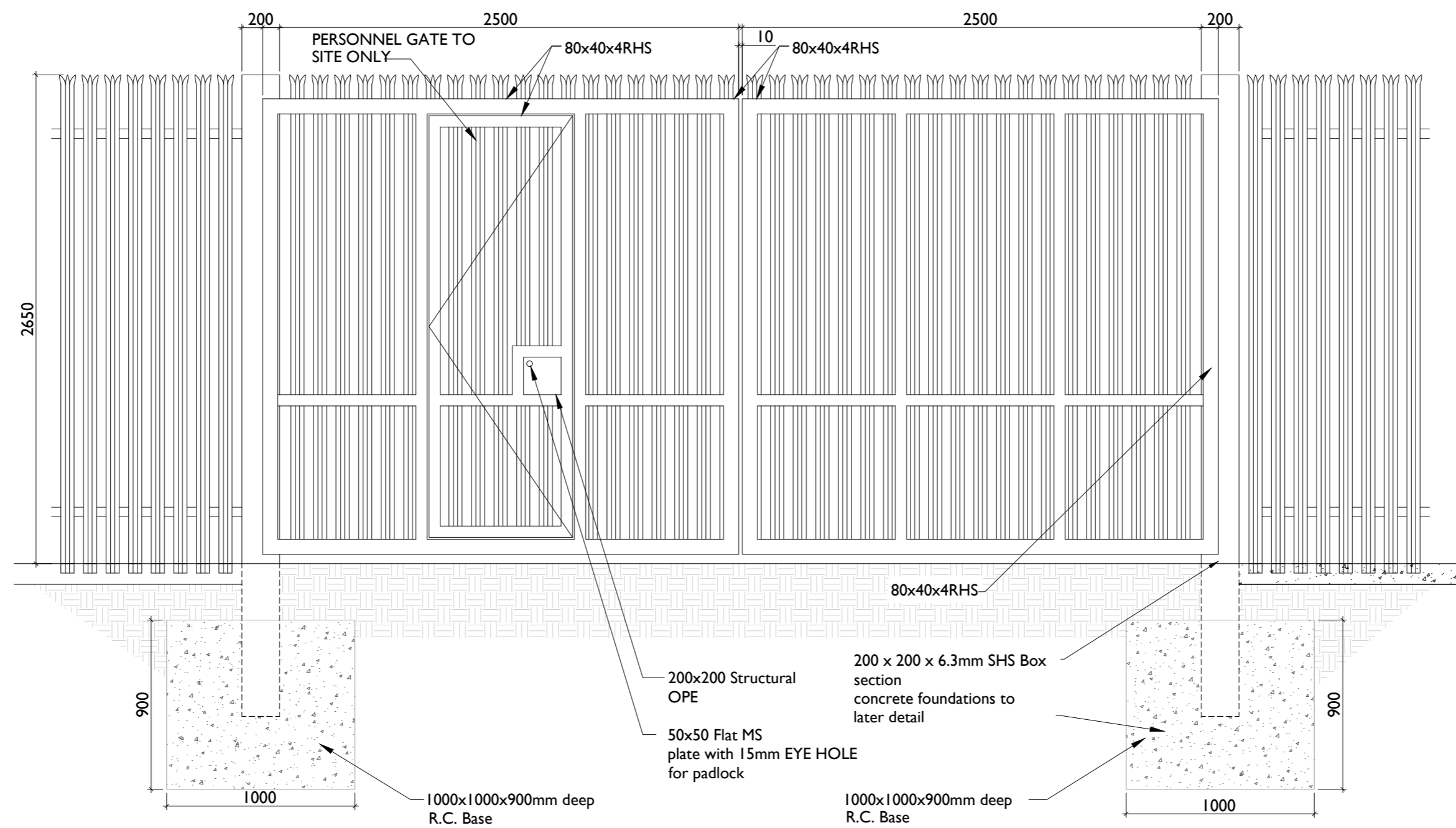


Palisade Fencing Details - Elevation

SCALE 1:25

Palisade Fencing Details - Section

SCALE 1:25



Typical Gate Elevation

SCALE 1:25

PROJECT

Lissinagroagh Wind Farm
110kV Grid Connection

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CONSULTING ENGINEERS

NOTES: -

LEGEND: -

- This drawing is to be read in conjunction with relevant drawings, specifications and reports
- Dimensions are in millimetres, unless noted otherwise
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ISSUE/REVISION

I/R	DATE	DESCRIPTION
P2	21.04.26	Issued for Planning
P1	19.12.25	Issued for Planning

PROJECT NUMBER

05-773

SHEET TITLE

Gate & Fence Details

SHEET NUMBER

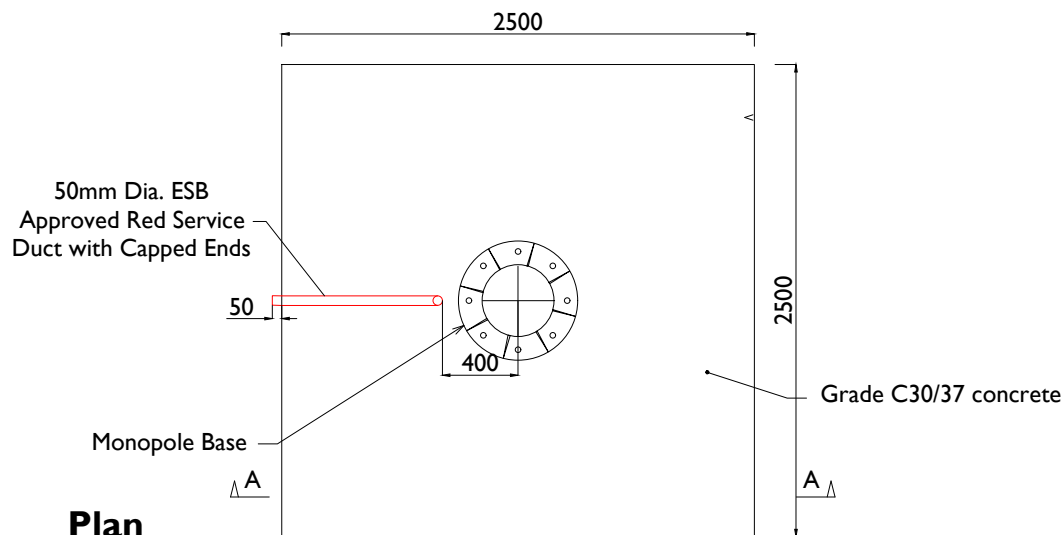
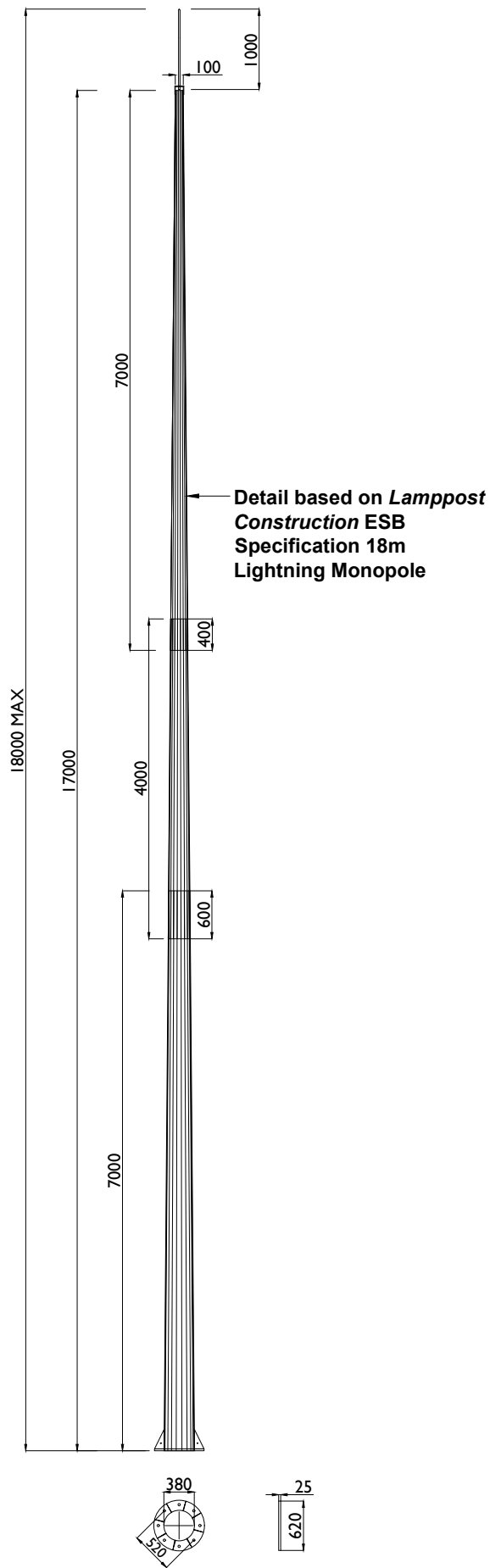
05773-DR-137

GENERAL NOTES:

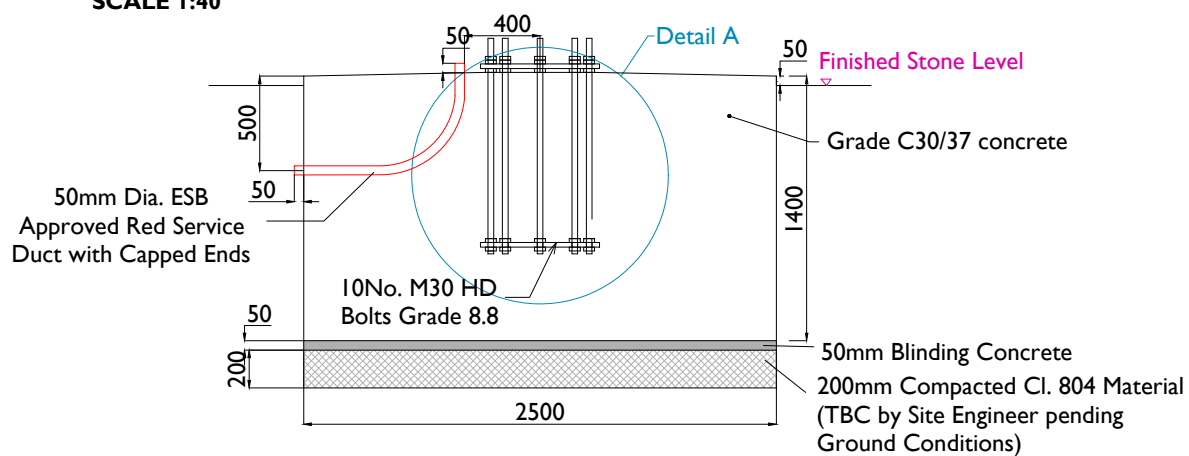
1. ALL DRAWINGS TO BE READ IN CONJUNCTION WITH THE SPECIFICATION AND ALL ENGINEERS AND ARCHITECTS DRAWINGS
2. ALL CONCRETE TO BE IN ACCORDANCE WITH I.S. EN 206-1:2002 WITH THE MIX DESIGNS SHOWN IN TABLE 1
3. CONCRETE FINISHES TO BE IN ACCORDANCE WITH TABLE 6.1 OF THE ESBI SPECIFICATION CS17-SO1-005.
4. ALL REINFORCEMENT SHALL BE IN ACCORDANCE WITH BS4449 AND SCHEDULED IN ACCORDANCE WITH BS.8666. 300MM LAPS FOR A142 MESH 600MM MIN LAPS FOR A393 MESH.
5. REFER ALWAYS TO RELEVANT EARTH GRID DRAWING PRIOR TO EXCAVATIONS & CONCRETE POURS
6. GEOMETRICAL TOLERANCES TO BE IN ACCORDANCE WITH TABLE 6.2 OF ESBI SPECIFICATION CS17-SO1-005

FOUNDATION NOTES:

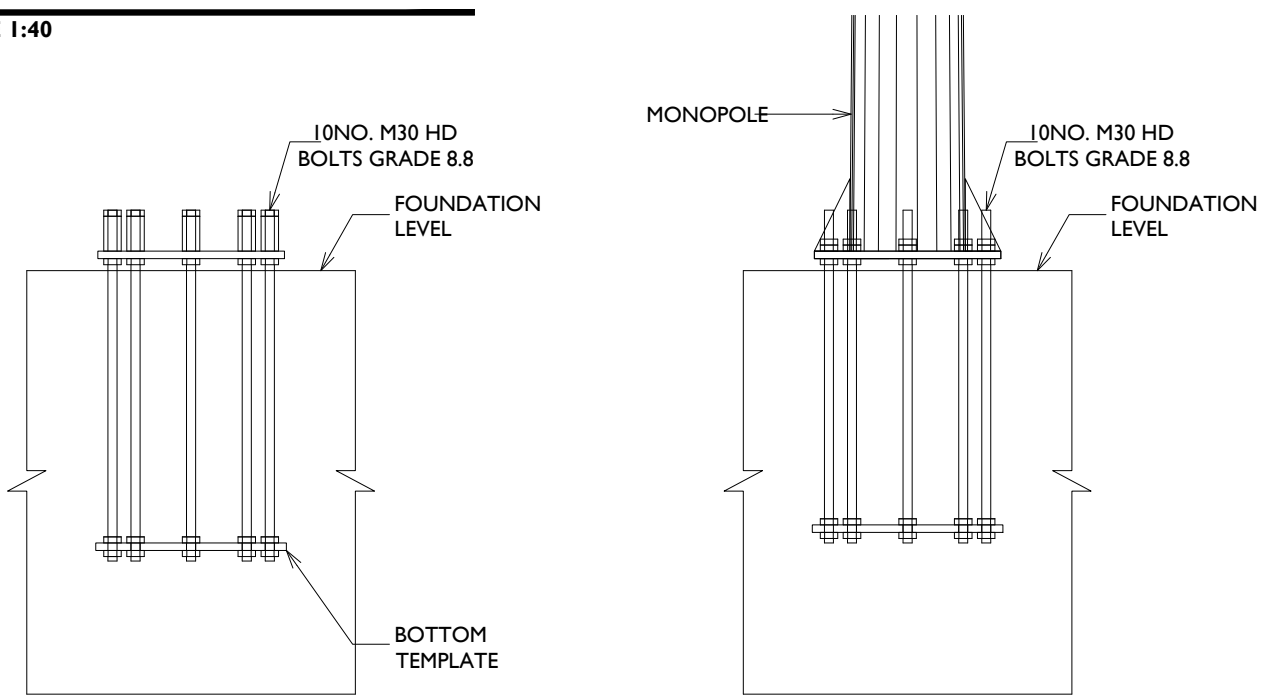
7. GROUND TO HAVE A MINIMUM BEARING CAPACITY OF 100 kN/M².
8. FORMATION LEVEL AND FOUNDATIONS TO BE INSPECTED AND APPROVED BY THE ENGINEER PRIOR TO ANY CONCRETE BEING POURED.
9. ALL FOUNDATIONS ARE TO BE BLINDED IMMEDIATELY AFTER EXCAVATION WITH 50MM OF C16/20 CONCRETE BLINDING.
10. REFER ALWAYS TO THE RELEVANT EARTH WORK DRAWINGS PRIOR TO EXCAVATIONS & CONCRETE POURS.



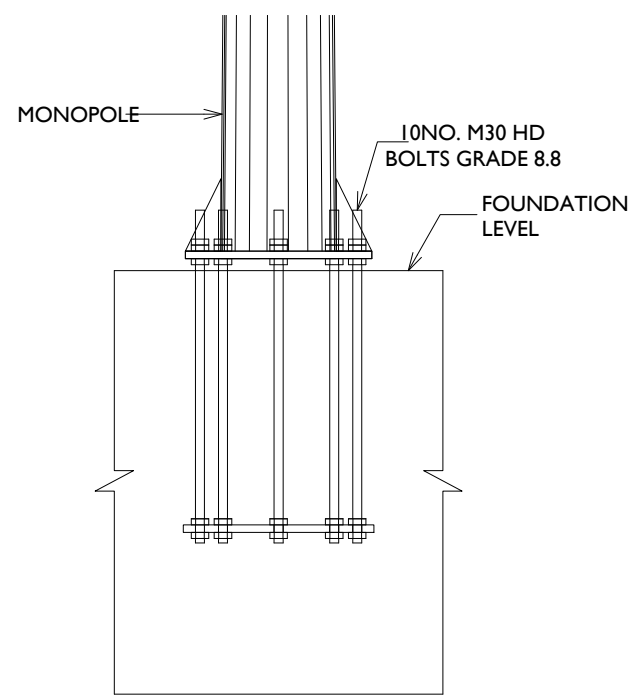
Plan
SCALE 1:40



Section A-A: Foundation detail
SCALE 1:40



Detail A
Scale : 1:25



Monopole Base Plate to HDB Connection
Scale : 1:25

Monopole Details
SCALE 1:75



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

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SHEET TITLE
**Lightning Monopole
Foundation Details 18m Mast**

DRAWING STATUS
For Planning

PROJECT NUMBER
05-773

SHEET NUMBER
05773-DR-138

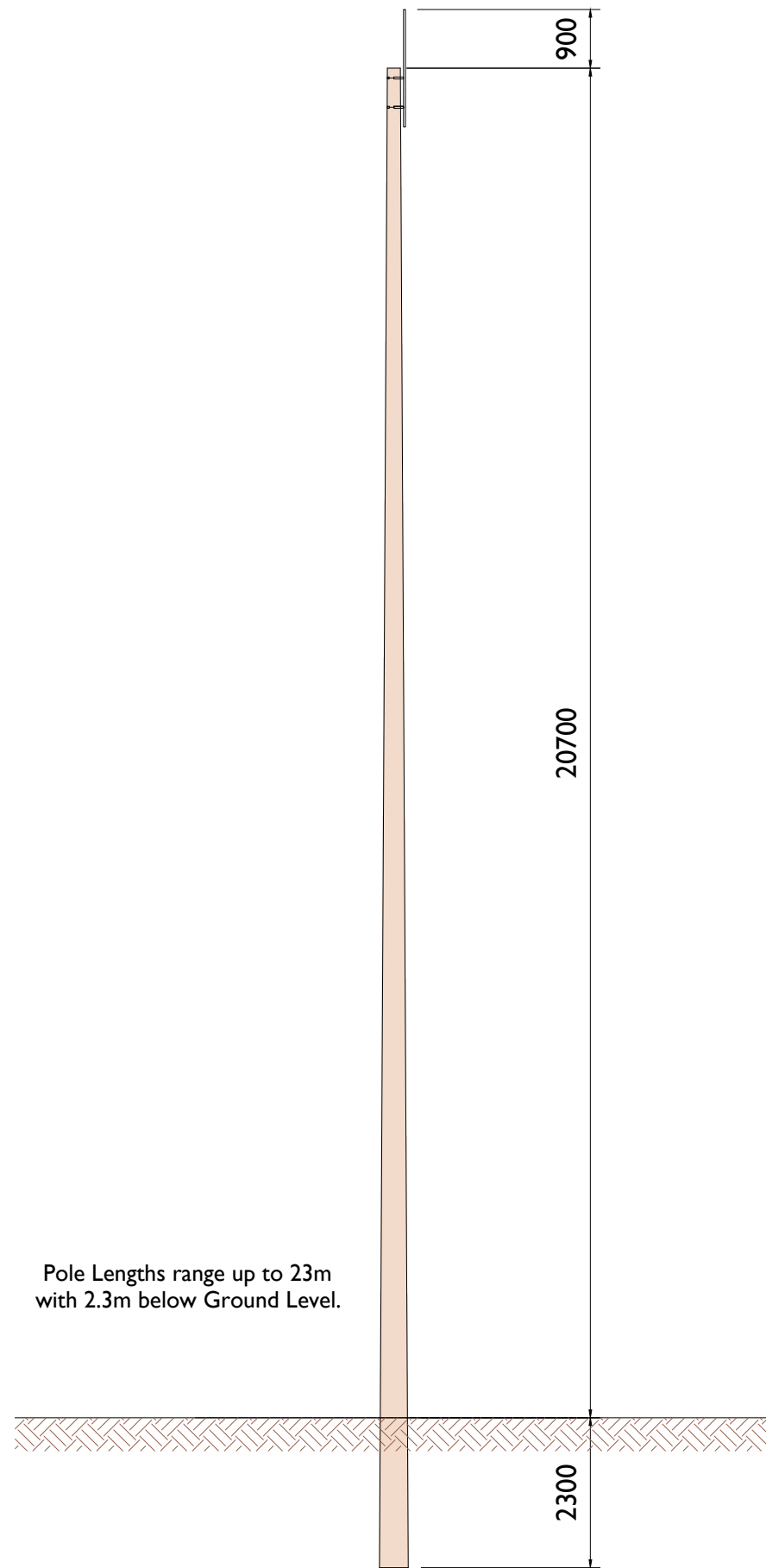
LEGEND/NOTES: -

- This drawing is to be read in conjunction with relevant drawings, specifications and reports
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ISSUE/REVISION

I/R	DATE	DESCRIPTION
P2	21.04.26	Issued for Planning
P1	19.12.25	Issued for Planning

PROJECT
**Lissinagroagh Wind Farm
110kV Grid Connection**



Pole Lengths range up to 23m with 2.3m below Ground Level.

FRONT ELEVATION

Scale 1:100



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 Beenreigh,
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 Tralee, Co. Kerry
 Ireland
 Tel: 00353 66 7135710

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SHEET TITLE

Telecoms Pole Elevation View

DRAWING STATUS

For Planning

PROJECT NUMBER

05-773

SHEET NUMBER

05773-DR-139

LEGEND/NOTES: -

All dimensions in mm unless noted otherwise

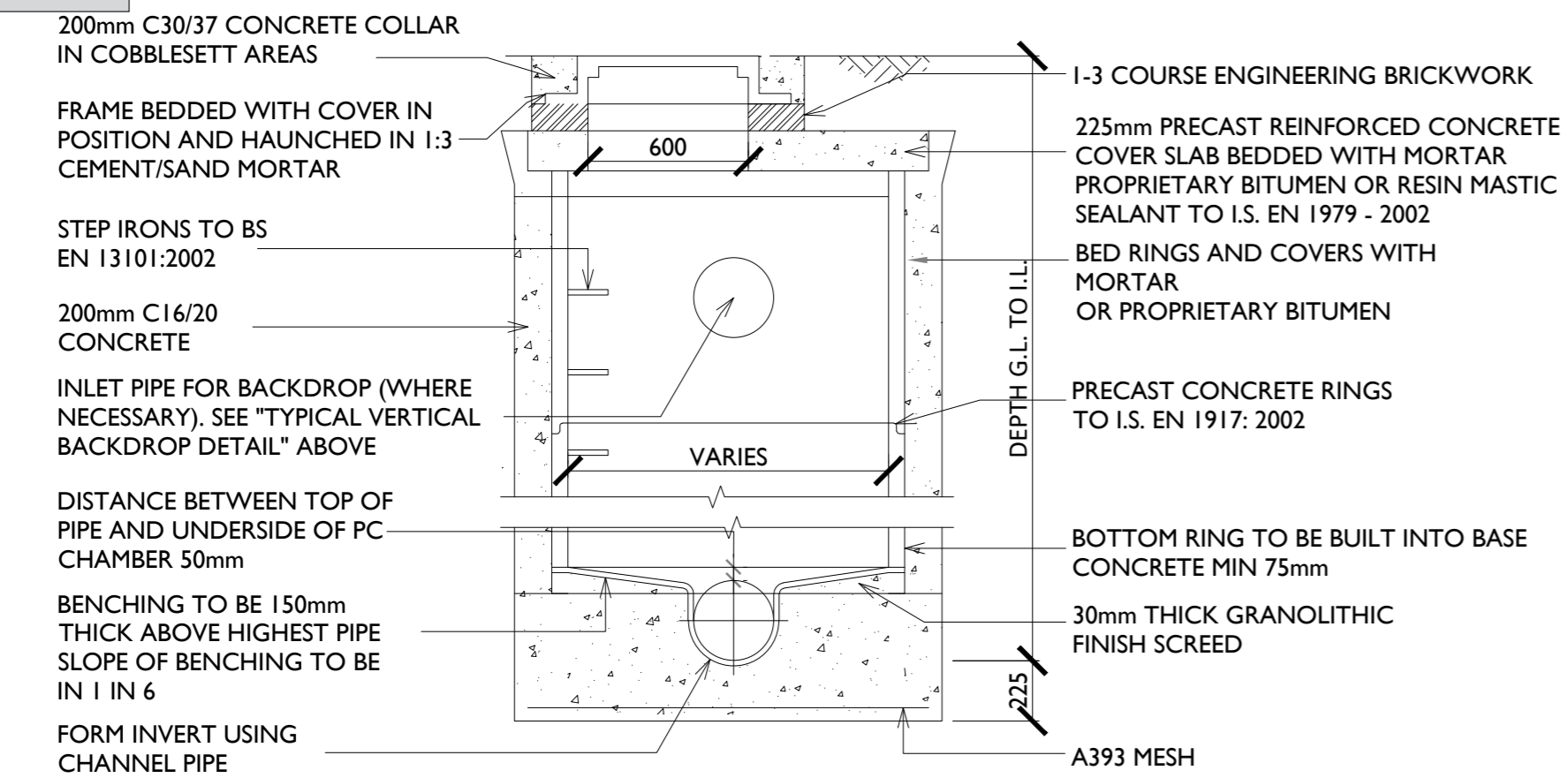
ISSUE/REVISION

I/R	DATE	DESCRIPTION
P2	21.04.26	Issued for Planning
P1	19.12.25	Issued for Planning

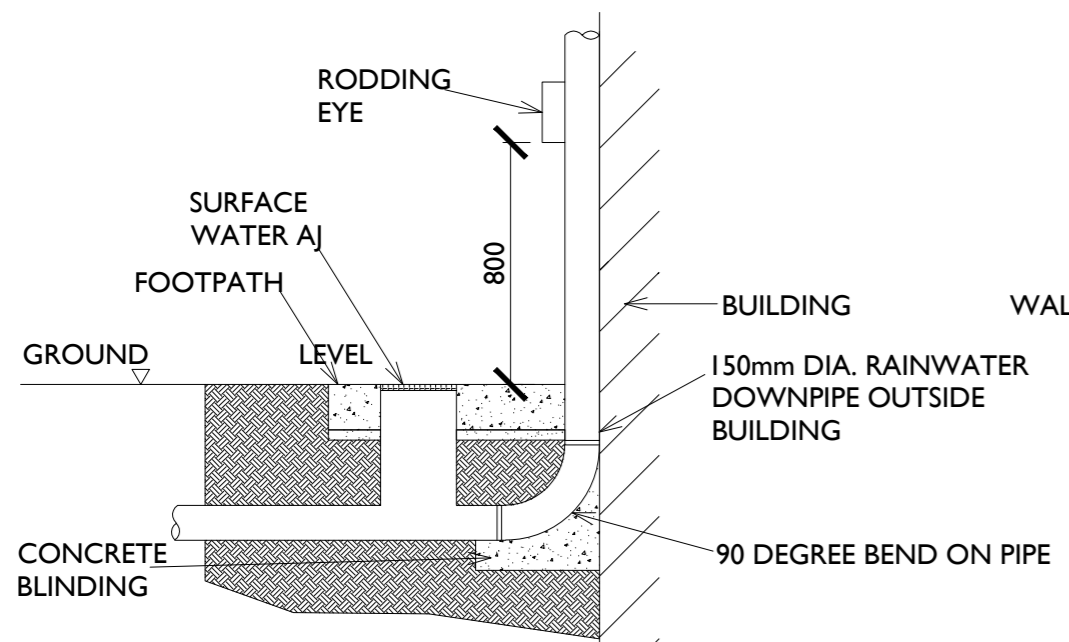
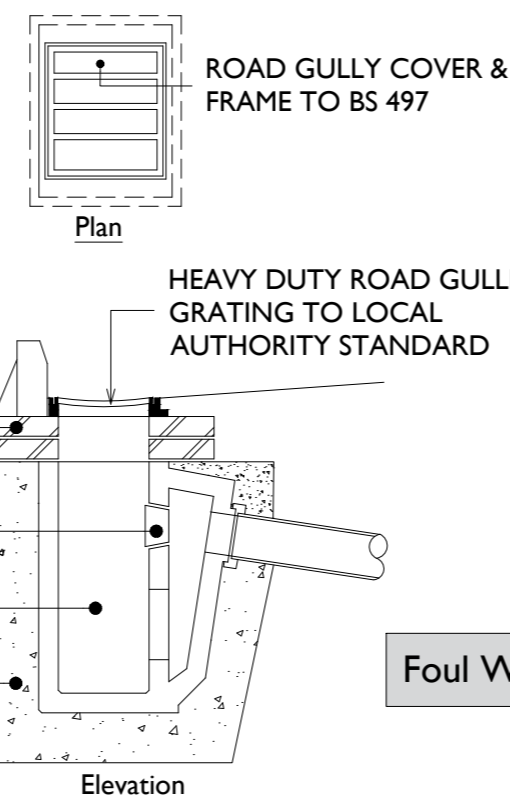
PROJECT

Lissinagroagh Wind Farm
 110kV Grid Connection

Manhole



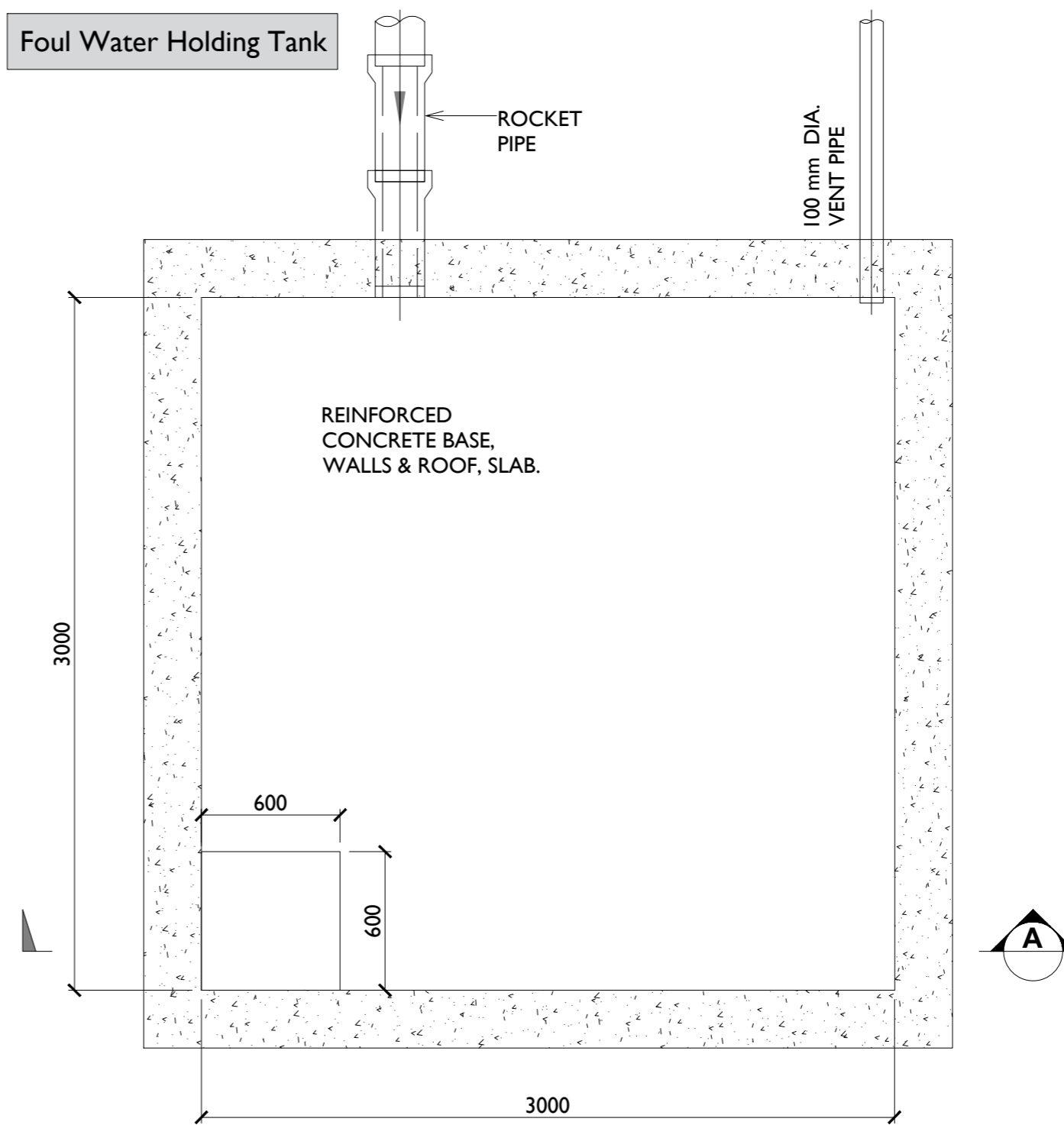
Road Gully



Typical Rainwater Downpipe Detail - Elevation
Scale : 1:25

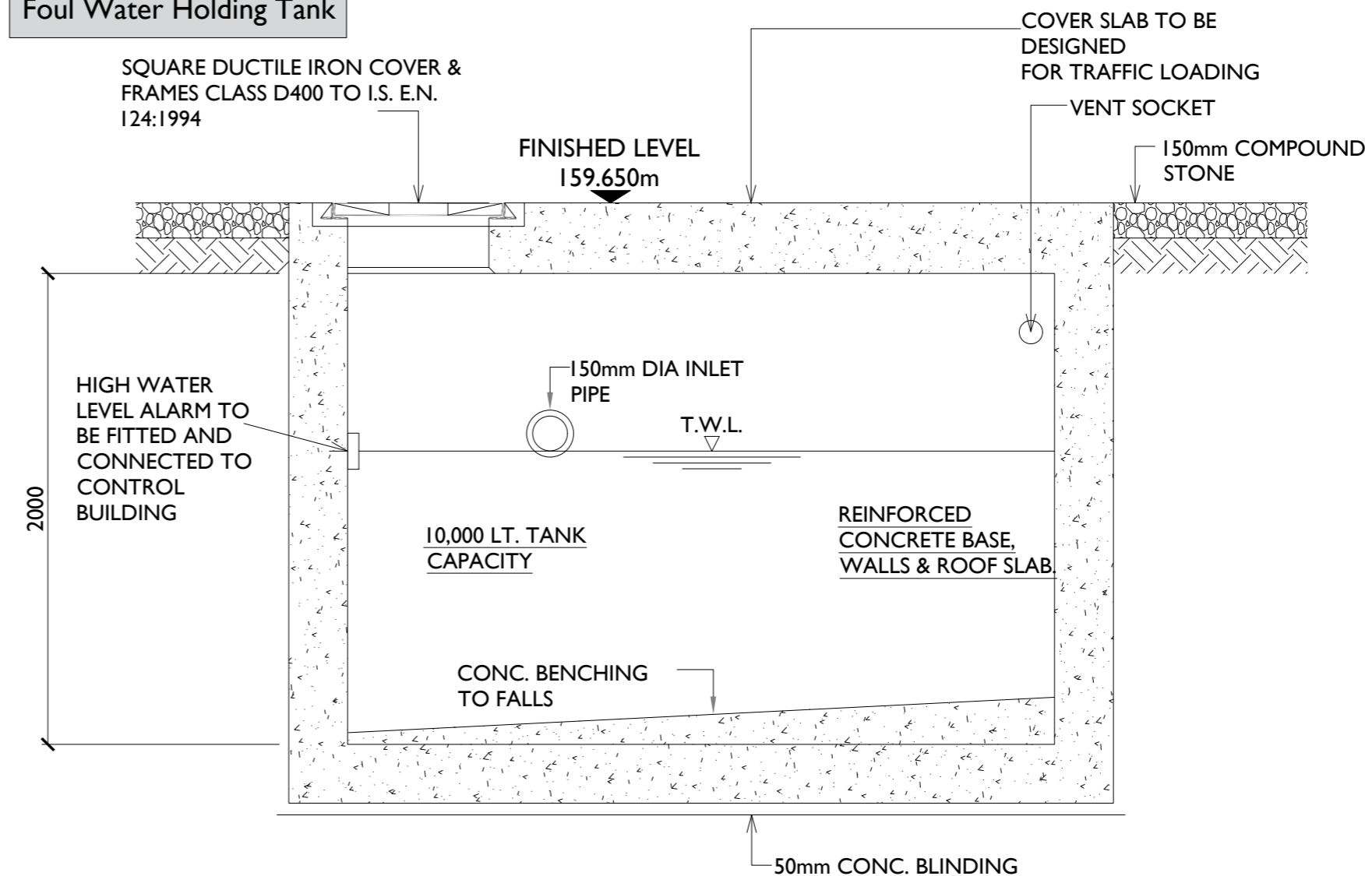
Typical Road Gully Detail
Scale : 1:25

Foul Water Holding Tank



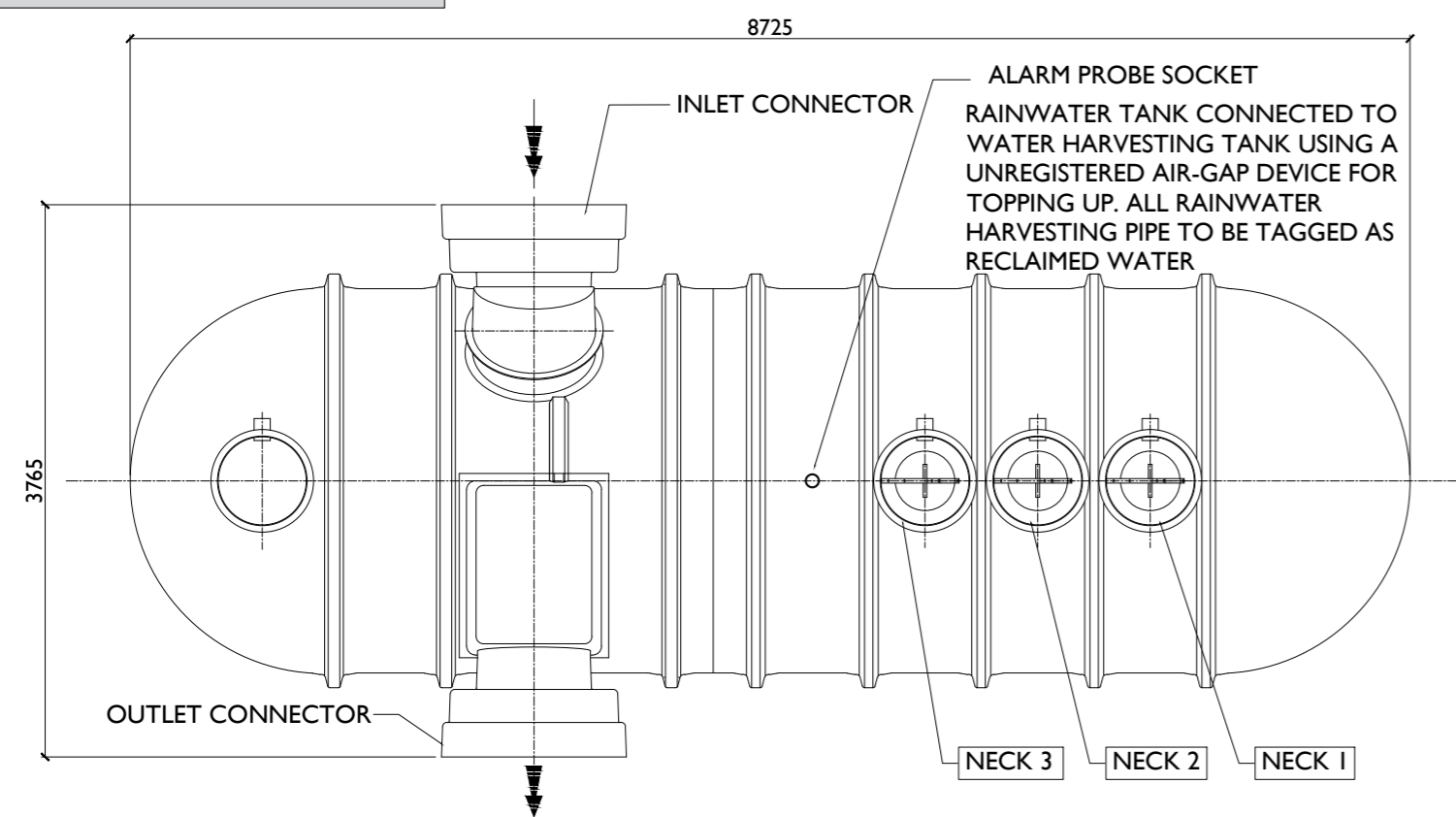
Typical Foul Water Holding Tank - Plan
Scale : 1:25

Foul Water Holding Tank



Typical Foul Water Holding Tank - Section 'A'
Scale : 1:25

Retention Separator Tank



Typical Retention Separator Tank - Plan
Scale : 1:50

PROJECT

Lissinagroagh Wind Farm
110kV Grid Connection

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NOTES: -

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LEGEND: -

ISSUE/REVISION

NO	DATE	DESCRIPTION
P2	21.04.26	Issued for Planning
P1	19.12.25	Issued for Planning
I/R	DATE	DESCRIPTION

PROJECT NUMBER

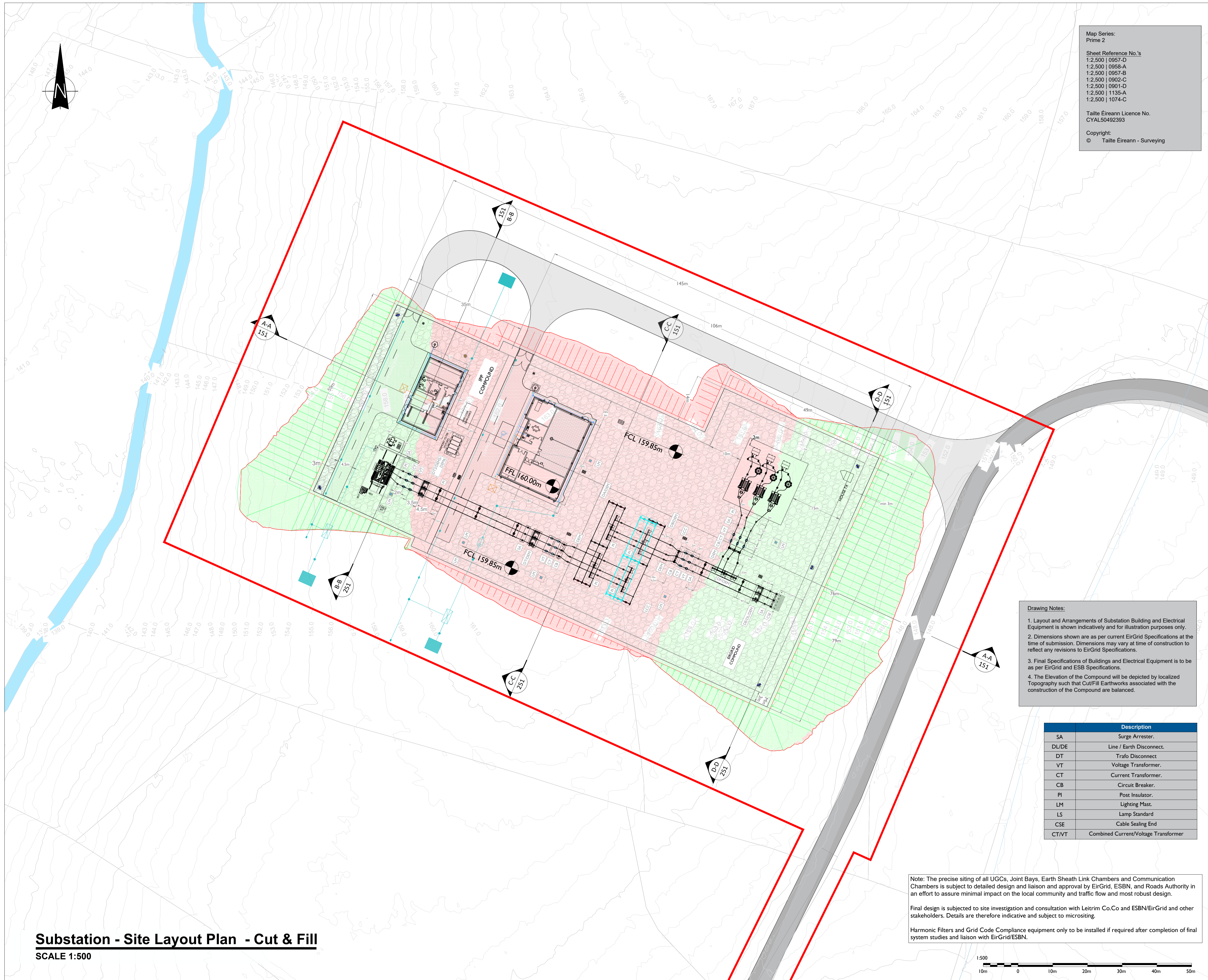
05-773

SHEET TITLE

Substation Compound drainage,
Retention separator tank, Foul
water holding tank details

SHEET NUMBER

05773-DR-141



Map Series:
Prime 2

Sheet Reference No.'s
1:2,500 | 0957-D
1:2,500 | 0958-A
1:2,500 | 0957-B
1:2,500 | 0902-C
1:2,500 | 0901-D
1:2,500 | 1135-A
1:2,500 | 1074-C

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PROJECT

**Lissinagroagh
Wind Farm
110kV Grid Connection**

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NOTES: -

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Drawing Notes:

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- Dimensions shown are as per current EirGrid Specifications at the time of submission. Dimensions may vary at time of construction to reflect any revisions to EirGrid Specifications.
- Final Specifications of Buildings and Electrical Equipment is to be as per EirGrid and ESB Specifications.
- The Elevation of the Compound will be depicted by localized Topography such that Cut/Fill Earthworks associated with the construction of the Compound are balanced.

LEGEND: -

Proposed Cut Volume 14231m³ shown thus

Proposed Fill Volume 13591m³ shown thus

Red Line Planning Boundary shown thus

Contours

Proposed Levels shown thus

Permanent Paved Access Roads shown thus

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

Note: The precise siting of all UGCs, Joint Bays, Earth Sheath Link Chambers and Communication Chambers is subject to detailed design and liaison and approval by EirGrid, ESBN, and Roads Authority in an effort to assure minimal impact on the local community and traffic flow and most robust design.

Final design is subjected to site investigation and consultation with Leitrim Co.Co and ESBN/EirGrid and other stakeholders. Details are therefore indicative and subject to microsetting.

Harmonic Filters and Grid Code Compliance equipment only to be installed if required after completion of final system studies and liaison with EirGrid/ESBN.

Substation - Site Layout Plan - Cut & Fill
SCALE 1:500

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P02	21.04.26	Issued for Planning
P01	20.04.26	Issued for Planning
P00	19.12.25	Issued for Planning
N1	10.12.25	Issued for Information

PROJECT NUMBER
05-773

SHEET TITLE
Substation Layout Plan - Cut & Fill

SHEET NUMBER
05773-DR-150

PROJECT

**Lissinagroagh
 Wind Farm
 110kV Grid Connection**

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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.

LEGEND: -

Proposed Cut Volume 13824m³ shown thus
 Proposed Fill Volume shown thus

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P01	21.04.26	Issued for Planning
P00	19.12.25	Issued for Planning

PROJECT NUMBER

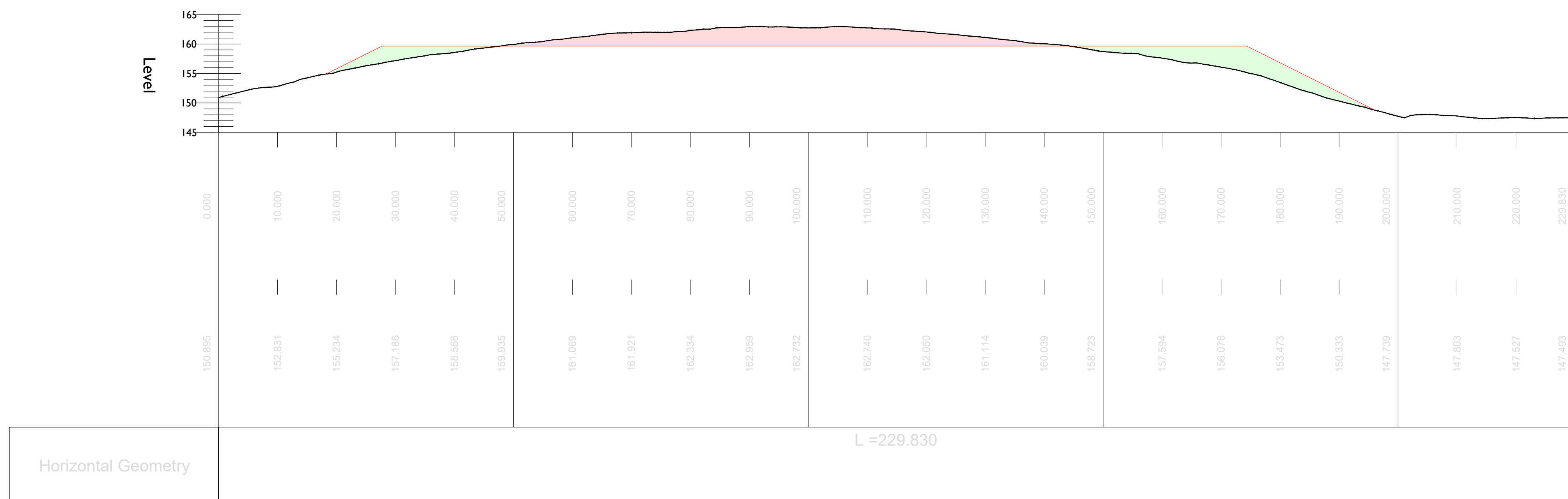
05-773

SHEET TITLE

Cut & Fill Sections

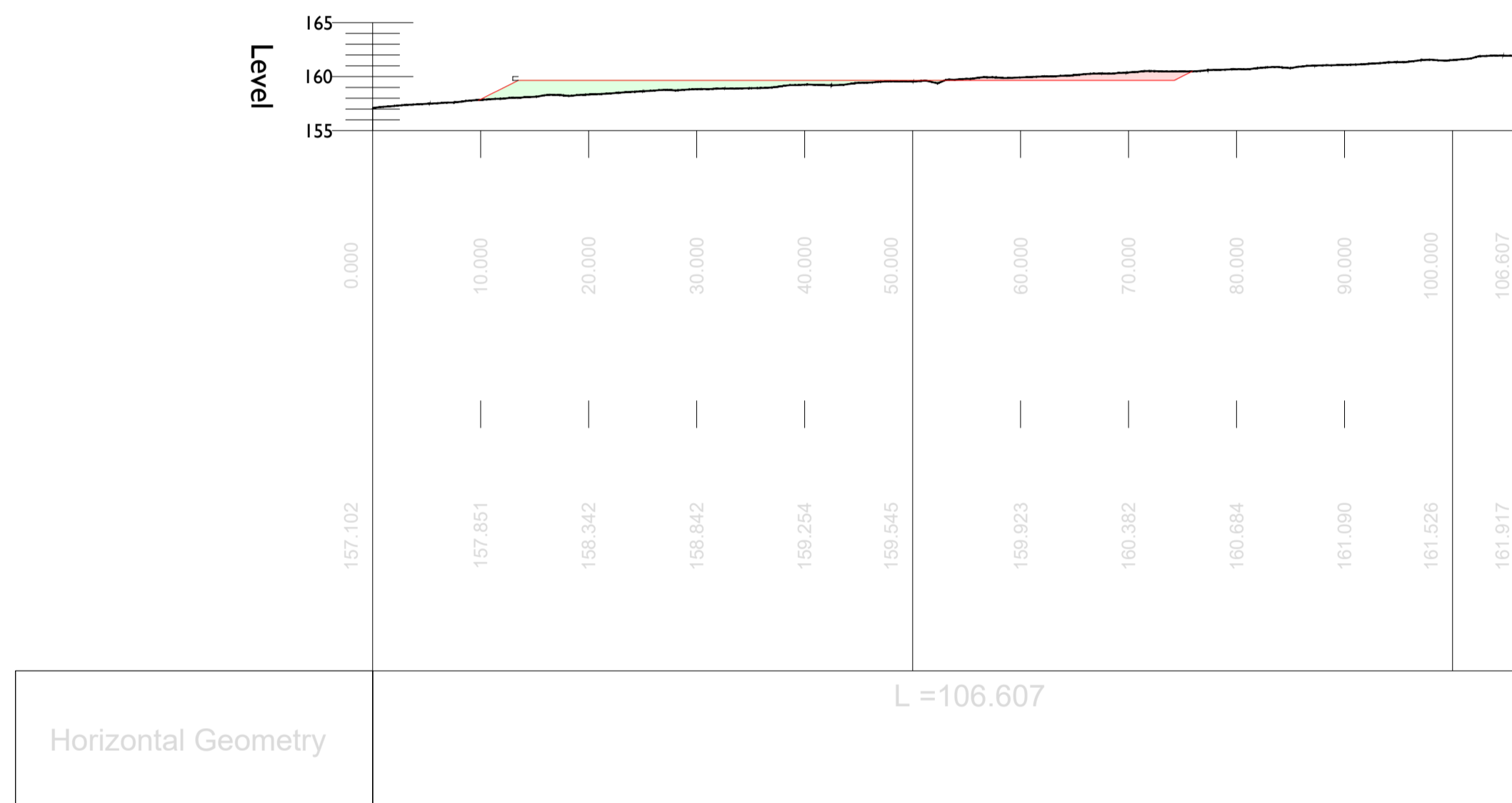
SHEET NUMBER

05773-DR-151



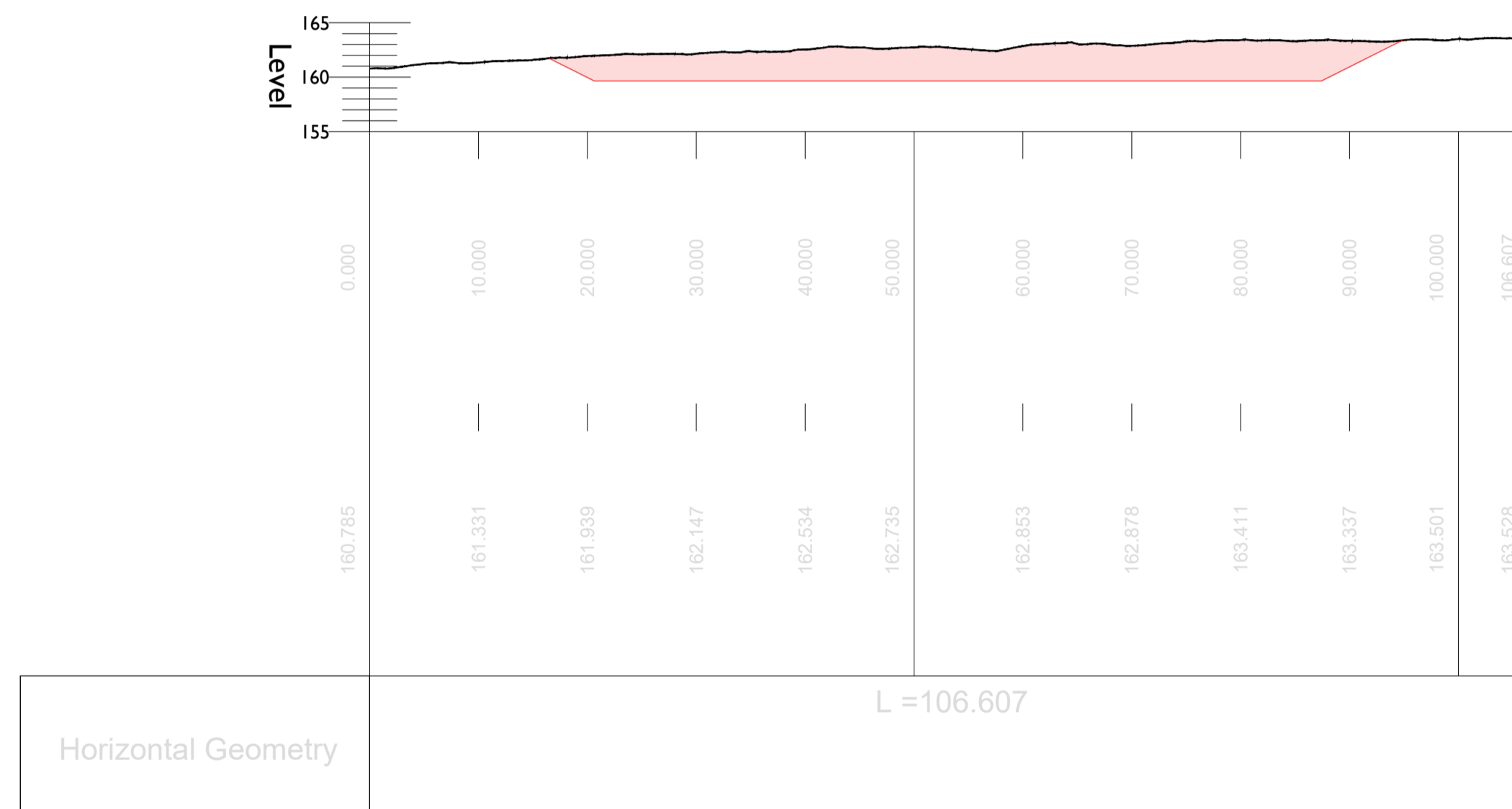
Section A-A

SCALE 1:500



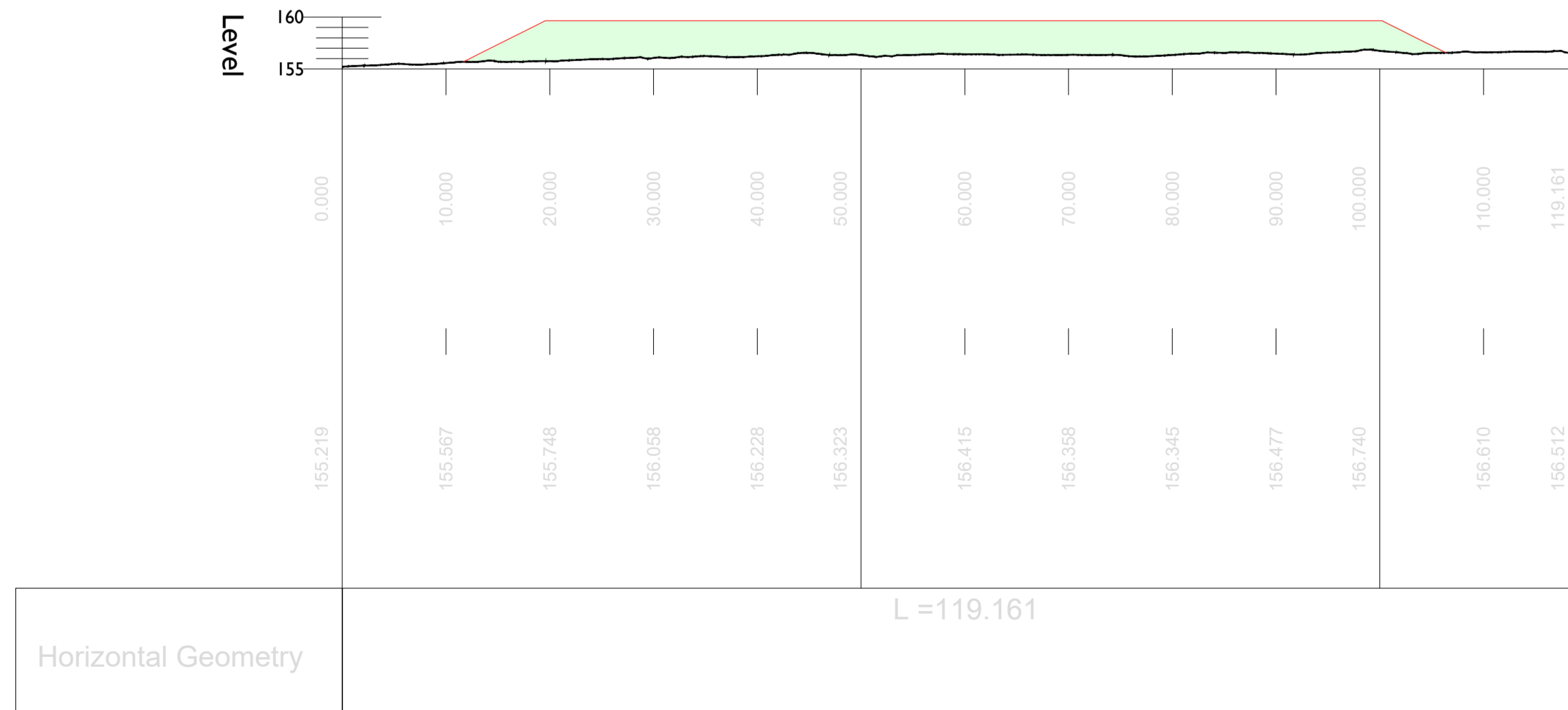
Section B-B

SCALE 1:500



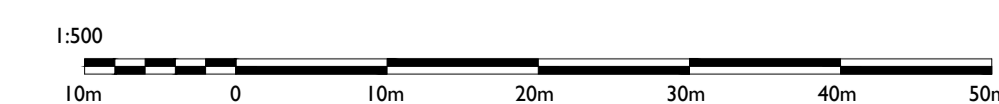
Section C-C

SCALE 1:500



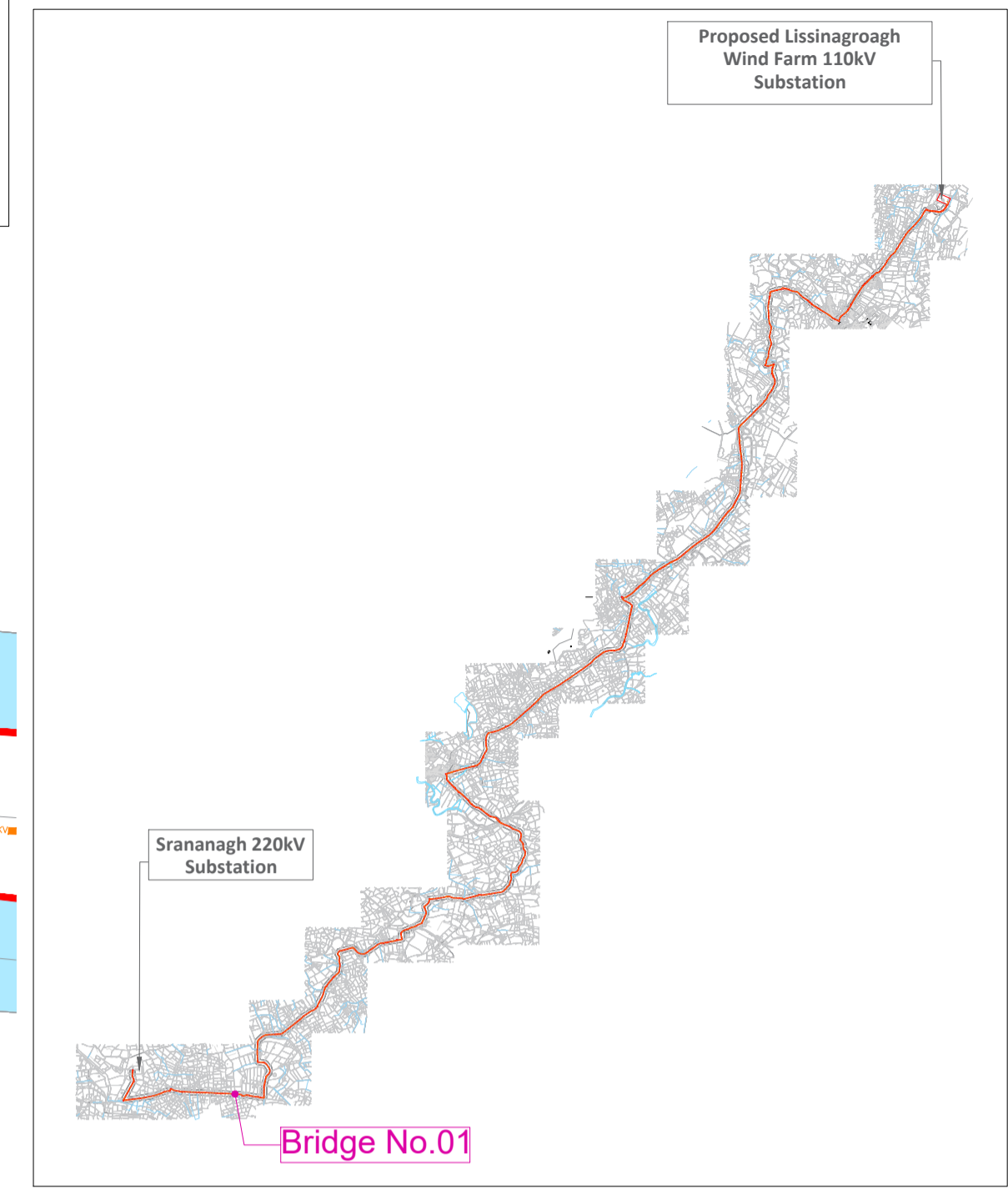
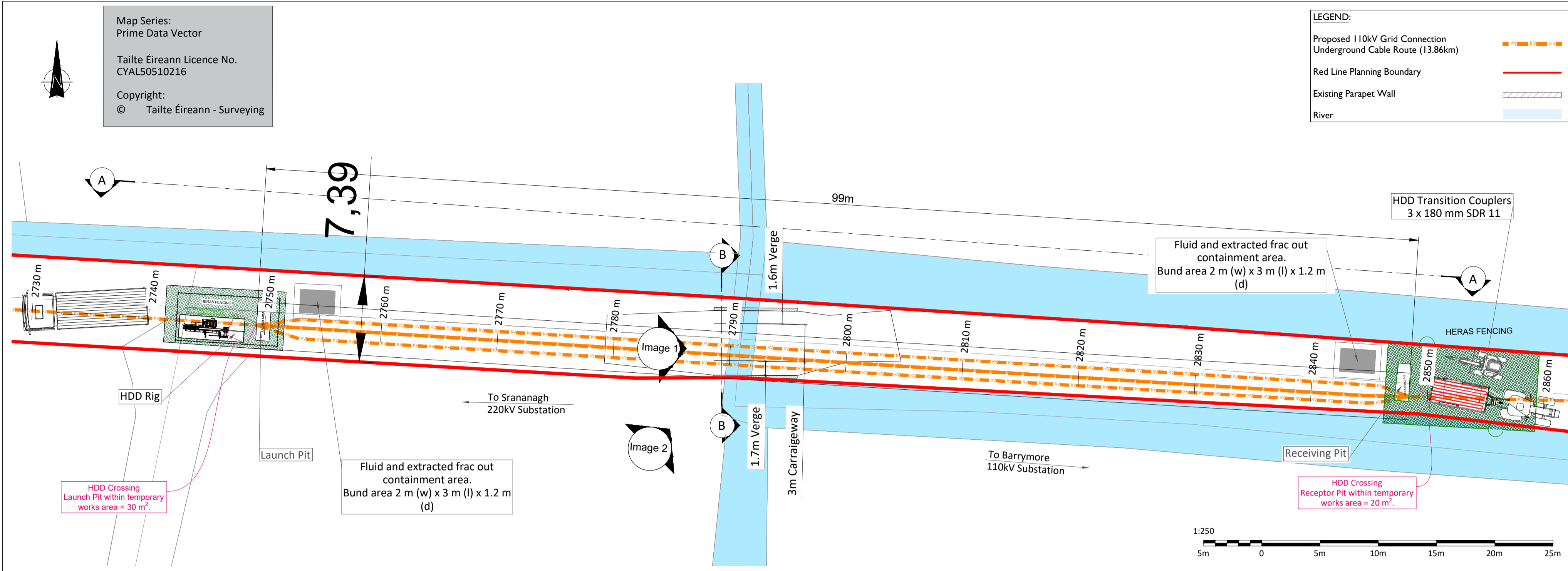
Section D-D

SCALE 1:500



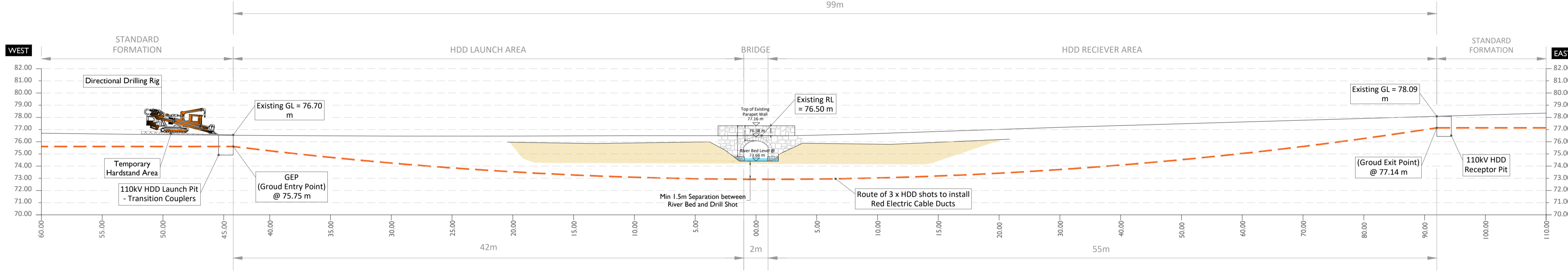
ISO A1 594mm x 841mm

Map Series:
Prime Data Vector
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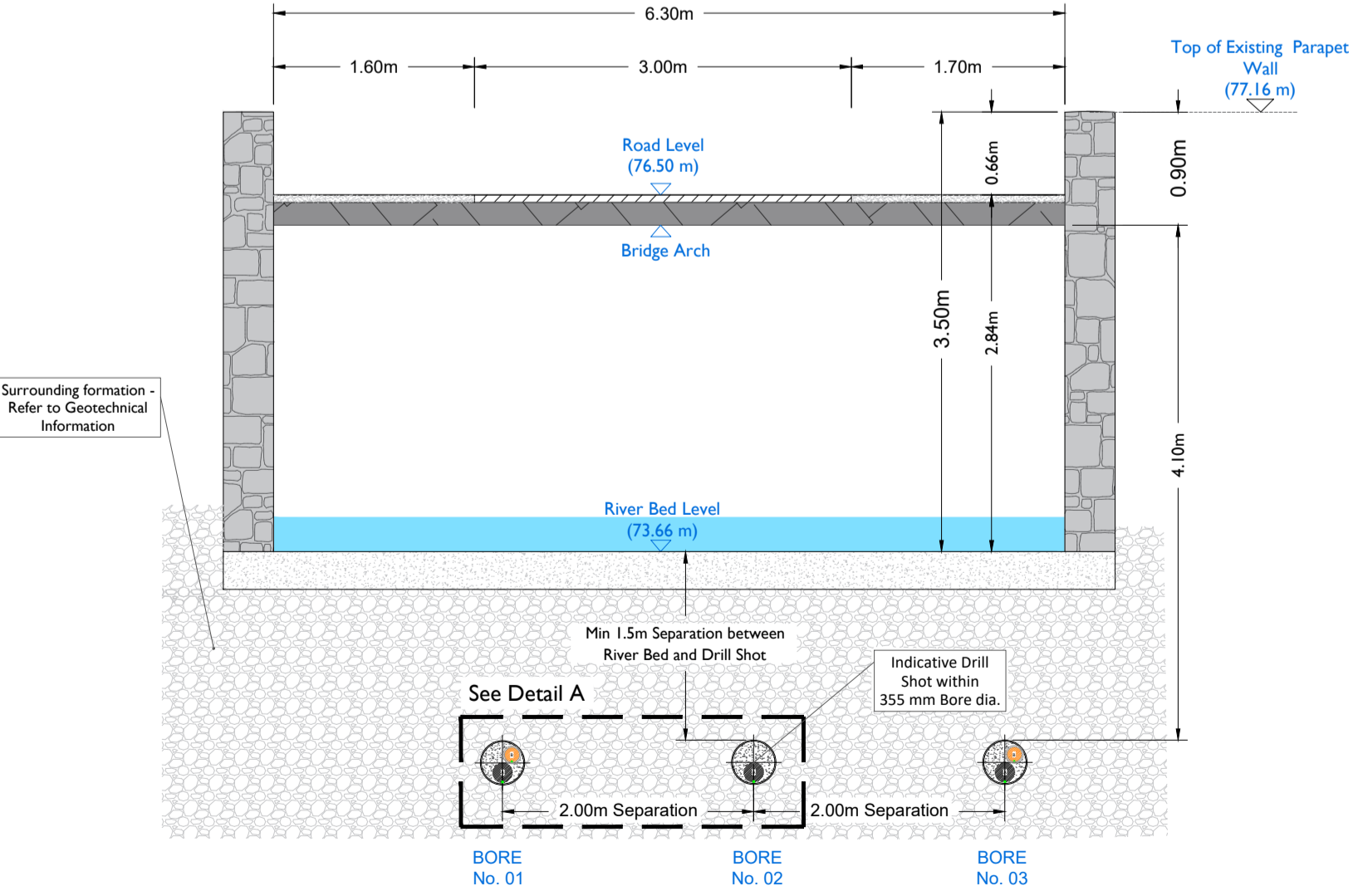


Bridge 01- Layout Plan
Scale : 1:250

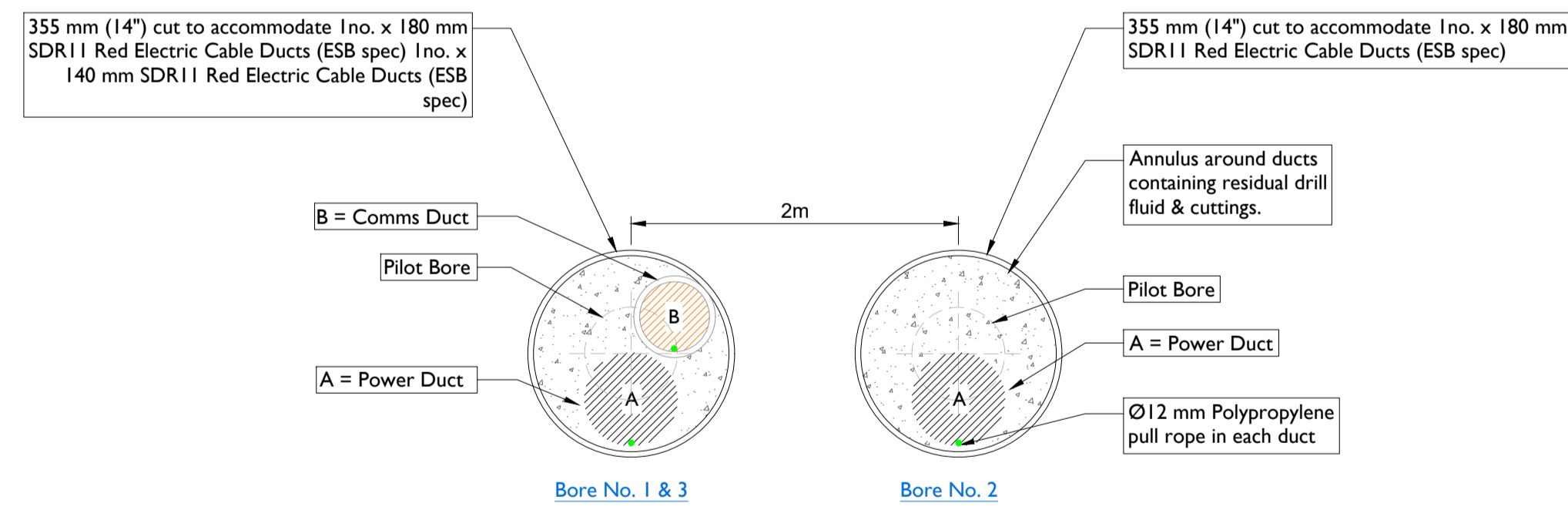
Key Plan



Section A-A (Longitudinal Cross Section)
Scale : 1:500



Section B-B
Scale : 1:200



Detail - A
Scale : 1:10

HDD Schedule	
110kV	Circuit 3 x 180 SDR 11 Red Electric Ducts 2 x 140 mm SDR 11 Red Electric Ducts
Entry (GEP) Co-Ordinates	X = 576746.0466 Y = 825037.4060
Exit (GXP) Co-Ordinates	X = 576842.7349 Y = 825032.6410
HDD Length	• Horizontal Distance - 99.00 m • Curve Distance - 99.30 m
All HDD ducts to comply with ESB Specification	



Image - 1



Image - 2



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

PROJECT

Lissinagroagh Wind Farm
110kV Grid Connection

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NOTES:

- The proposals are subject to detailed design approval.
- Position of HDD launch/reception points will be selected following site investigations and detailed design.
- Dimensions are in metres, & coordinate system is ITM, unless noted otherwise.
- Drawings are not to be scaled use figured dimensions only.

LEGEND:

ISSUE/REVISION		
P01	21.04.2026	Issued for Planning
P00	20.04.2026	Issued for Planning
I/R	DATE	DESCRIPTION

PROJECT NUMBER

05-773

SHEET TITLE

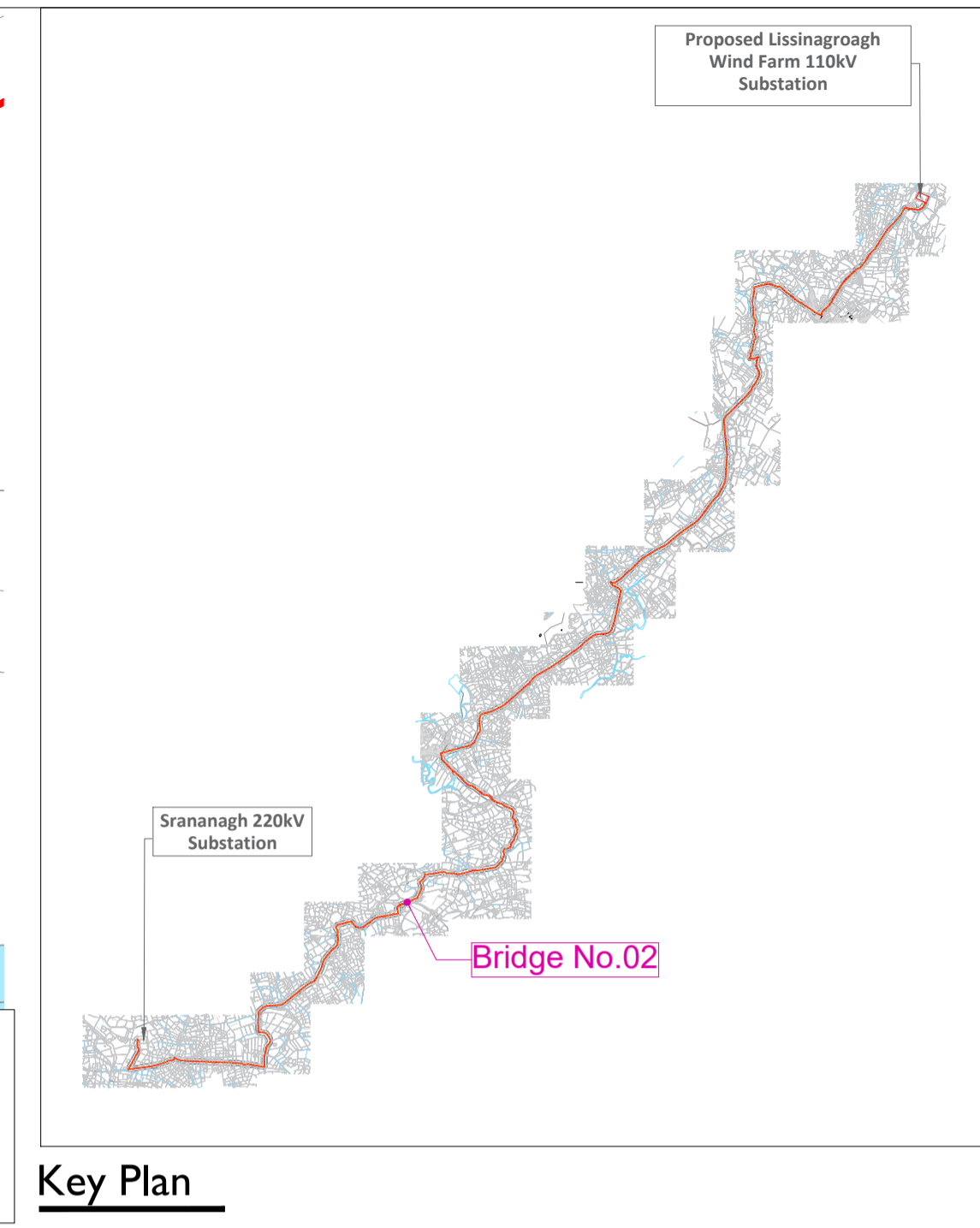
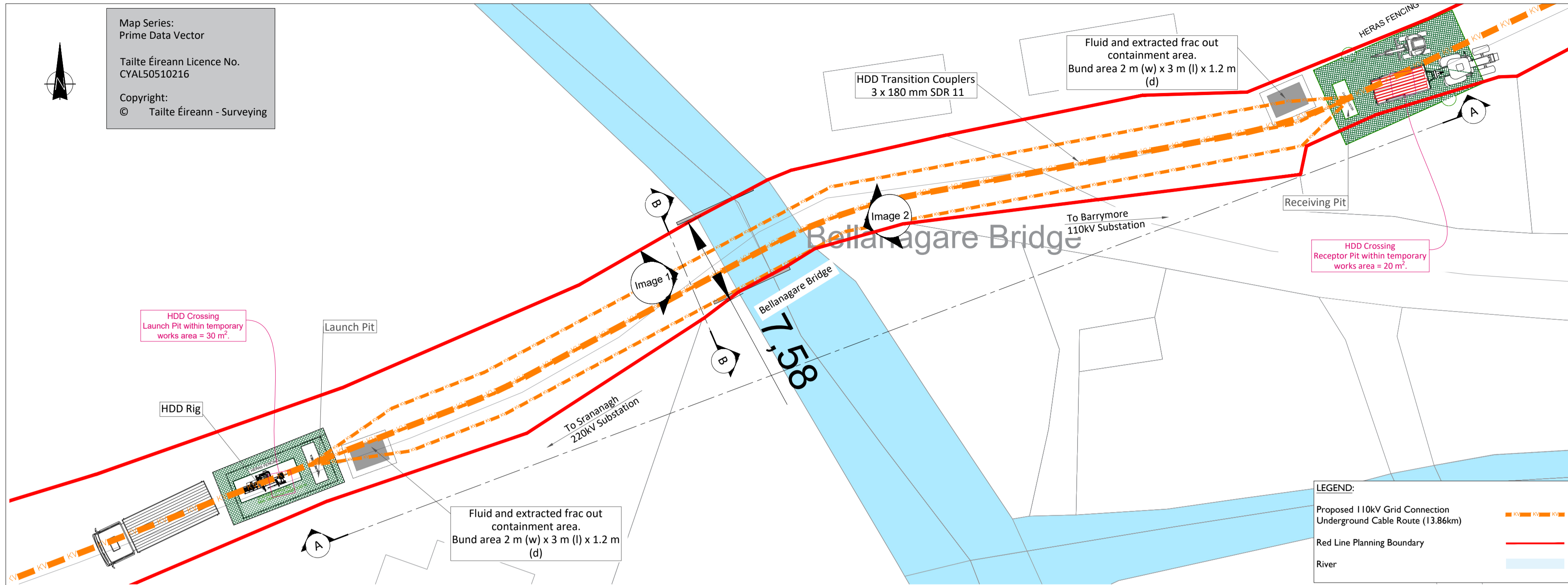
Bridge 01 - HDD Crossing Details
L 5204

SHEET NUMBER

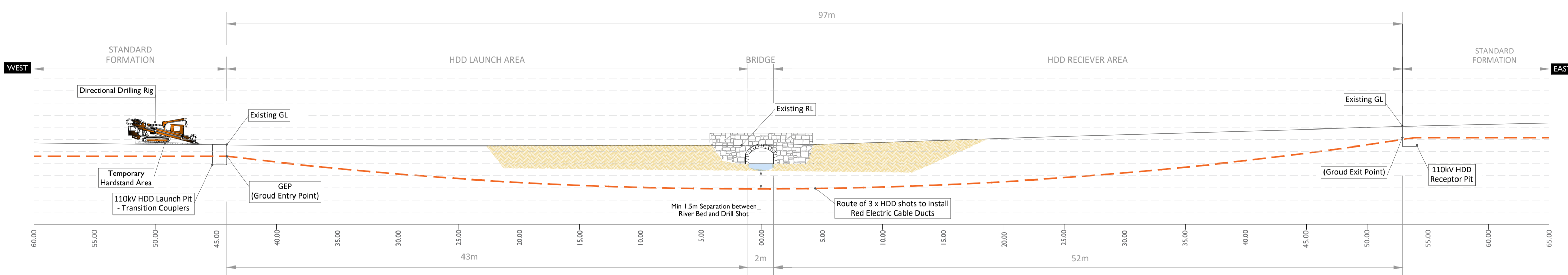
05773-DR-152

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

Map Series:
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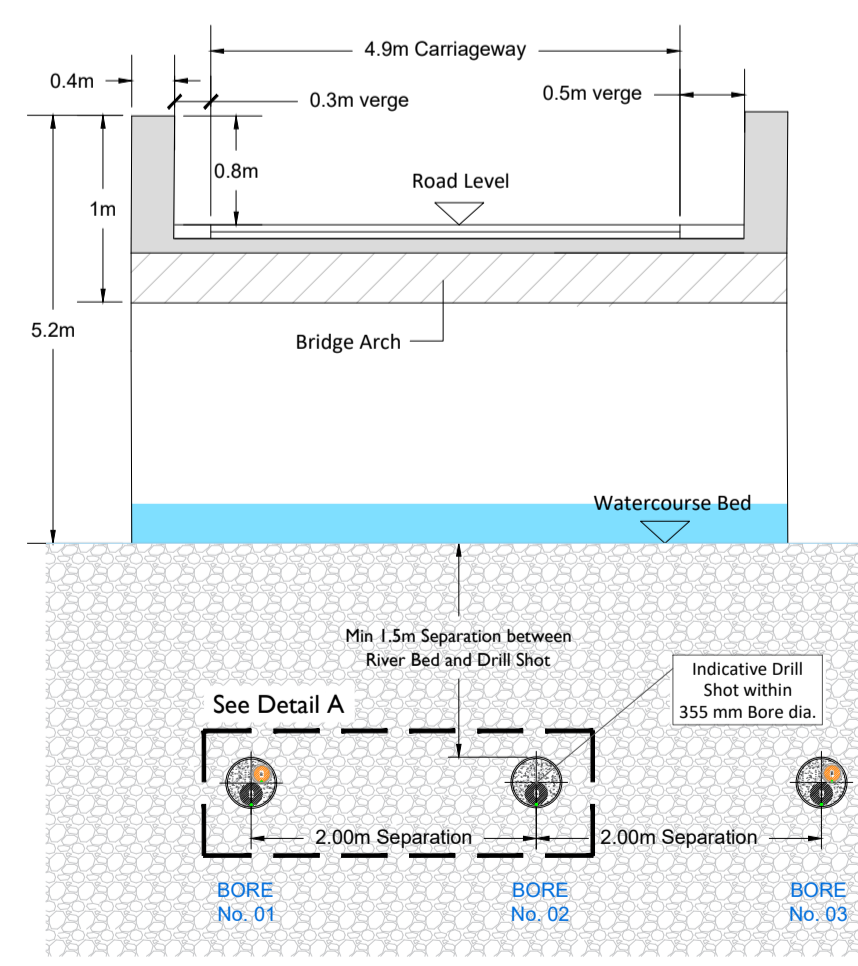


Bridge 02- Layout Plan
Scale : 1:250

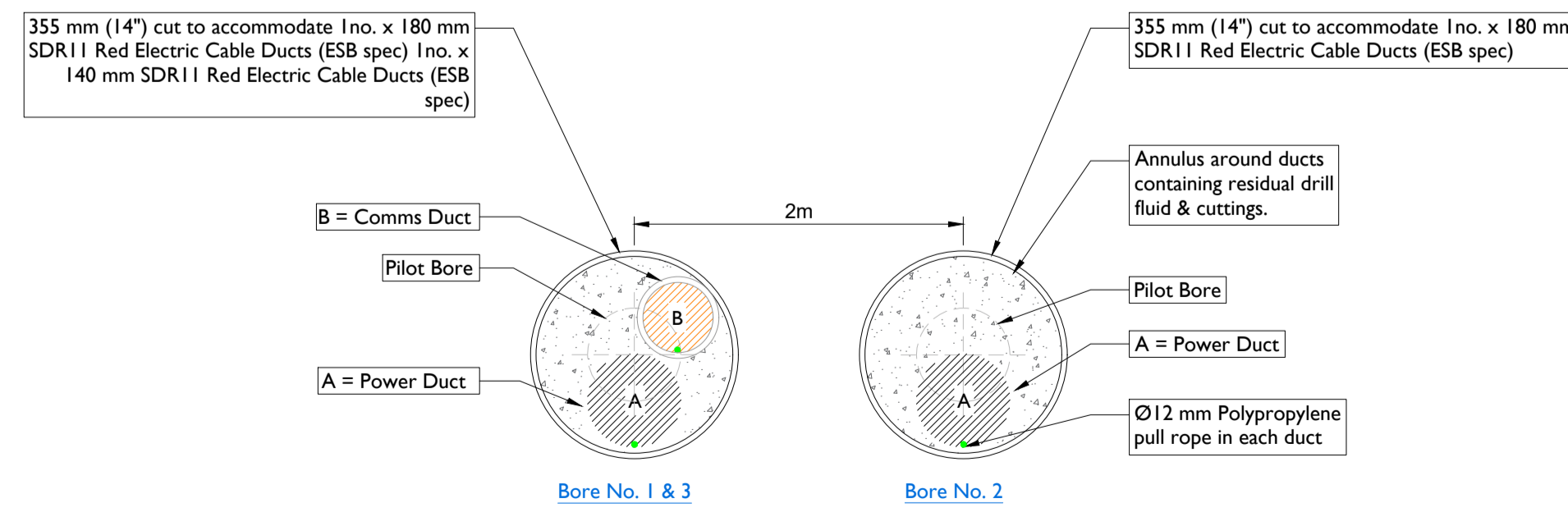


Section A-A (Longitudinal Cross Section)
Scale : 1:500

HDD Schedule	
110kV	Circuit 3 x 180 SDR 11 Red Electric Ducts 2 x 140 mm SDR 11 Red Electric Ducts
Entry (GEP) Co-Ordinates	X = 580104.2836, Y = 828183.6384
Exit (GXP) Co-Ordinates	X = 580191.8689 Y = 828214.417
HDD Length	• Horizontal Distance - 99.00 m • Curve Distance - 99.30 m
All HDD ducts to comply with ESB Specification	



Section B-B
Scale : 1:200



Detail - A
Scale : 1:10



Image - 1



Image - 2



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

PROJECT

Lissinagroagh Wind Farm
110kV Grid Connection

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CONSULTANTS

- NOTES: -
- The proposals are subject to detailed design approval.
 - Position of HDD launch/reception points will be selected following site investigations and detailed design.
 - Dimensions are in metres, & coordinate system is ITM, unless noted otherwise.
 - Drawings are not to be scaled use figured dimensions only.

LEGEND: -

ISSUE/REVISION		
NO	DATE	DESCRIPTION
P01	21.04.2026	Issued for Planning
P00	20.04.2026	Issued for Planning
I/R	DATE	DESCRIPTION

PROJECT NUMBER

05-773

SHEET TITLE

Bridge 02 - HDD Crossing Details
L 4263/ L 82561

SHEET NUMBER

05773-DR-153

ISO A1 594mm x 841mm
Project Management Initials: Designer: AD
Checked: DB
Approved: RG

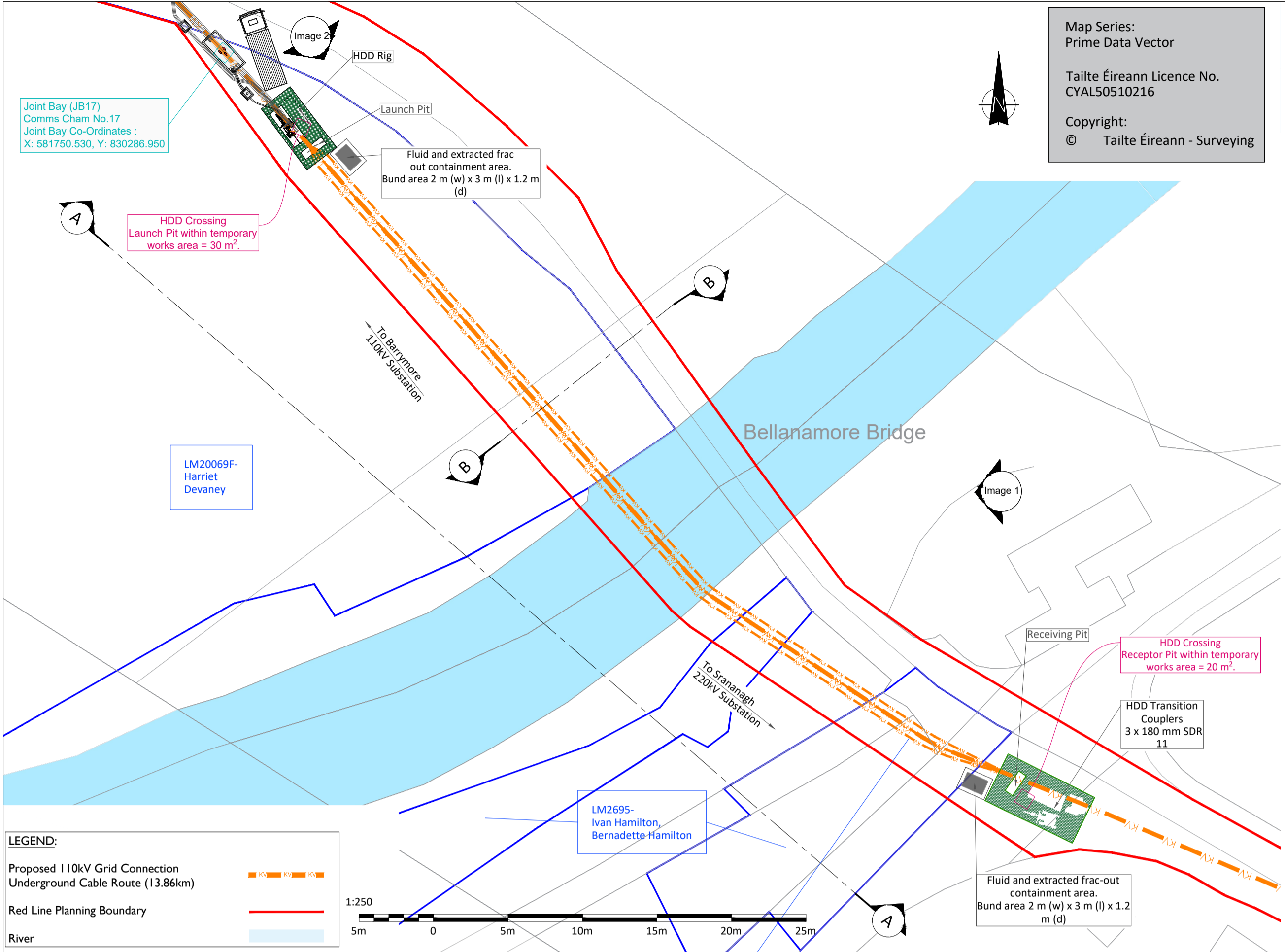
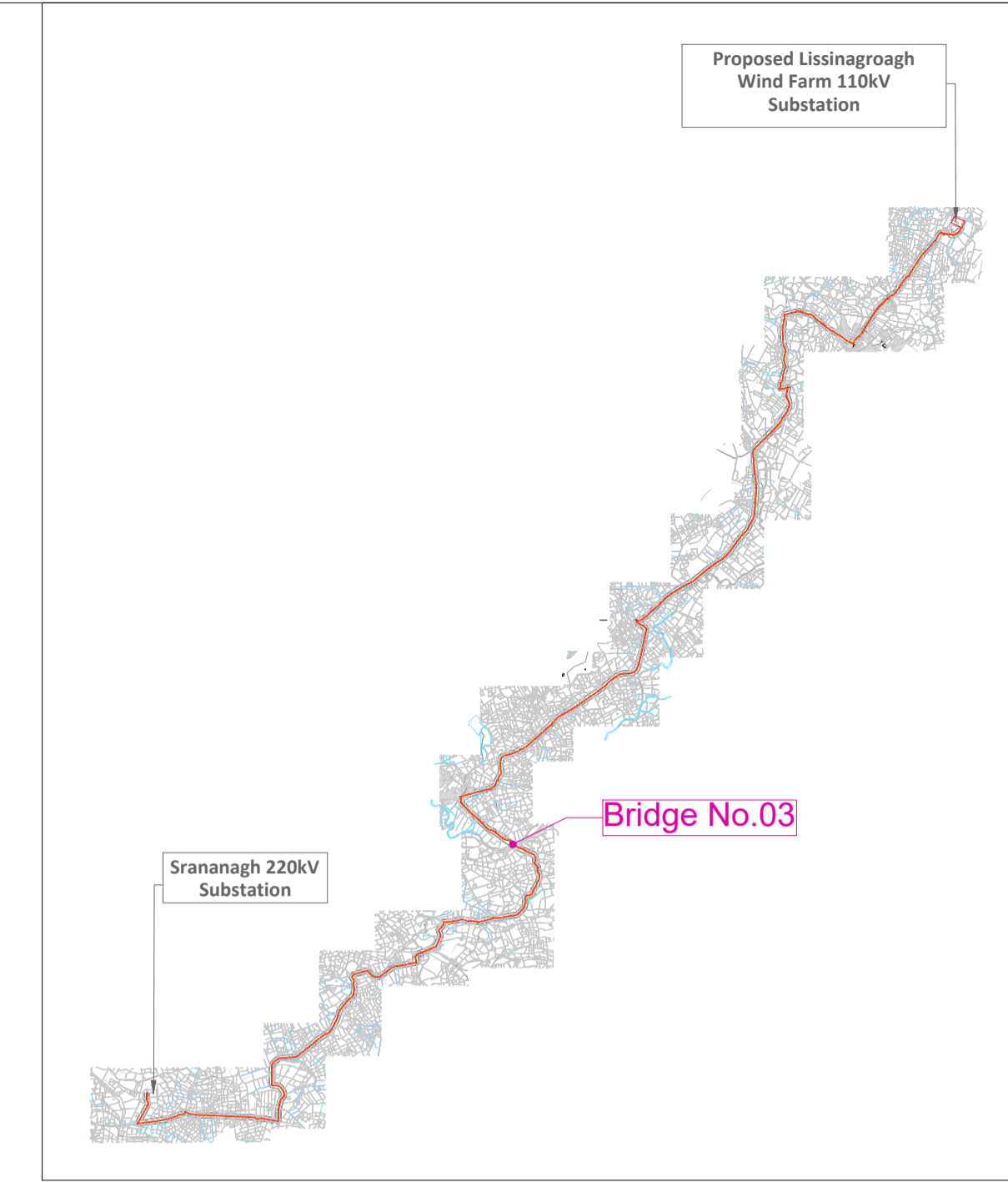


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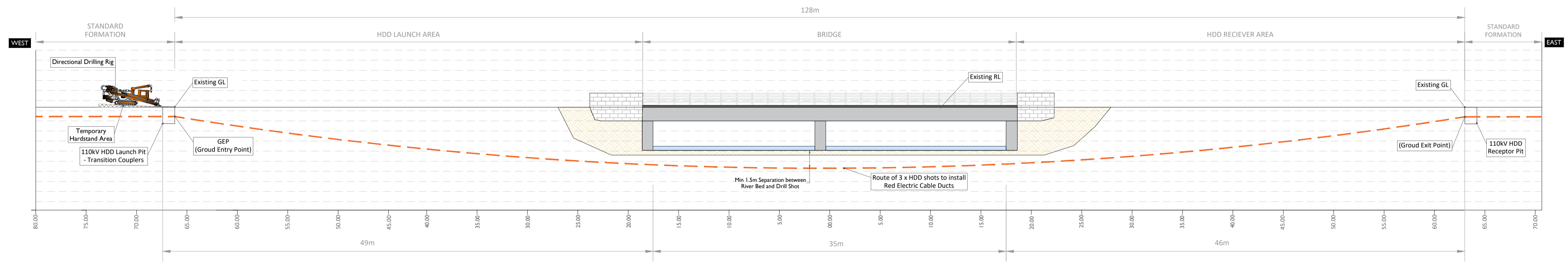


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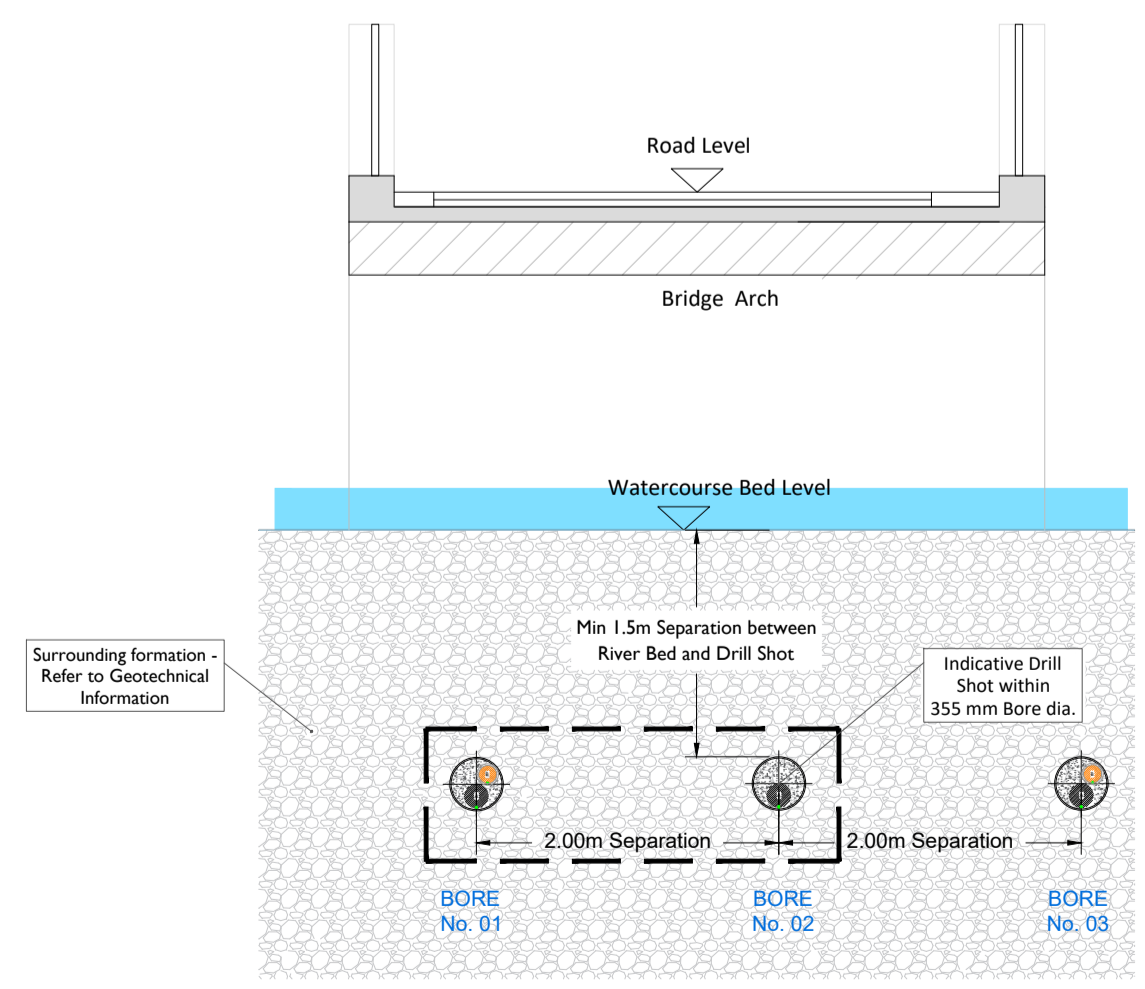


Key Plan

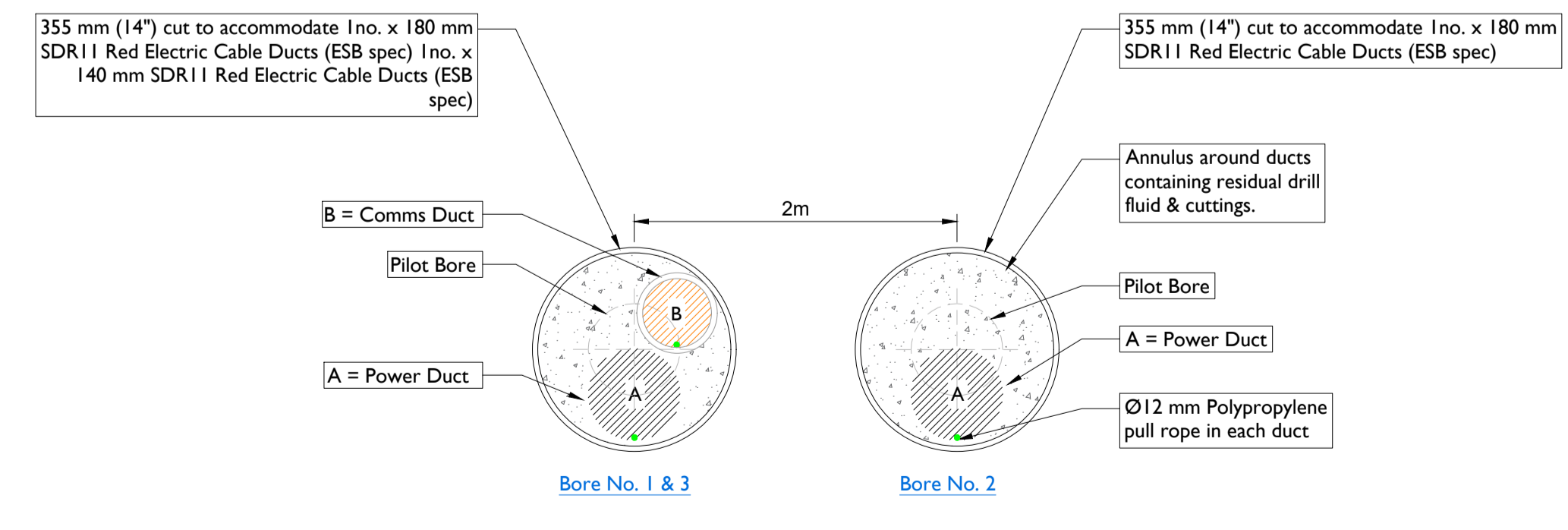
Bridge 03- Layout Plan
Scale : 1:250



Section A-A (Longitudinal Cross Section)
Scale : 1:500



Section B-B
Scale : 1:200



Detail - A
Scale : 1:10

HDD Schedule	
110kV	Circuit 3 x 180 SDR II Red Electric Ducts 2 x 140 mm SDR II Red Electric Ducts
Entry (GEP) Co-Ordinates	X = 581762.8525 Y = 830273.6023
Exit (GXP) Co-Ordinates	X = 581856.2444 Y = 830189.1720
HDD Length	• Horizontal Distance - 128.0 m • Curve Distance - 128.53 m
All HDD ducts to comply with ESB Specification	



Head Office
Beenleigh,
Abbeydorney,
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Ireland
Tel: 00353 66 7135710

PROJECT

Lissinagroagh Wind Farm
110kV Grid Connection

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CONSULTANTS

NOTES: -

- The proposals are subject to detailed design approval.
- Position of HDD launch/reception points will be selected following site investigations and detailed design.
- Dimensions are in metres, & coordinate system is ITM, unless noted otherwise.
- Drawings are not to be scaled use figured dimensions only.

LEGEND: -

ISSUE/REVISION

ISSUE/REVISION	DATE	DESCRIPTION
P01	21.04.2026	Issued for Planning
P00	20.04.2026	Issued for Planning
I/R	DATE	DESCRIPTION

PROJECT NUMBER

05-773

SHEET TITLE

Bridge 03- HDD Crossing Details
R 289/ R287 / LM20069F

SHEET NUMBER

05773-DR-194

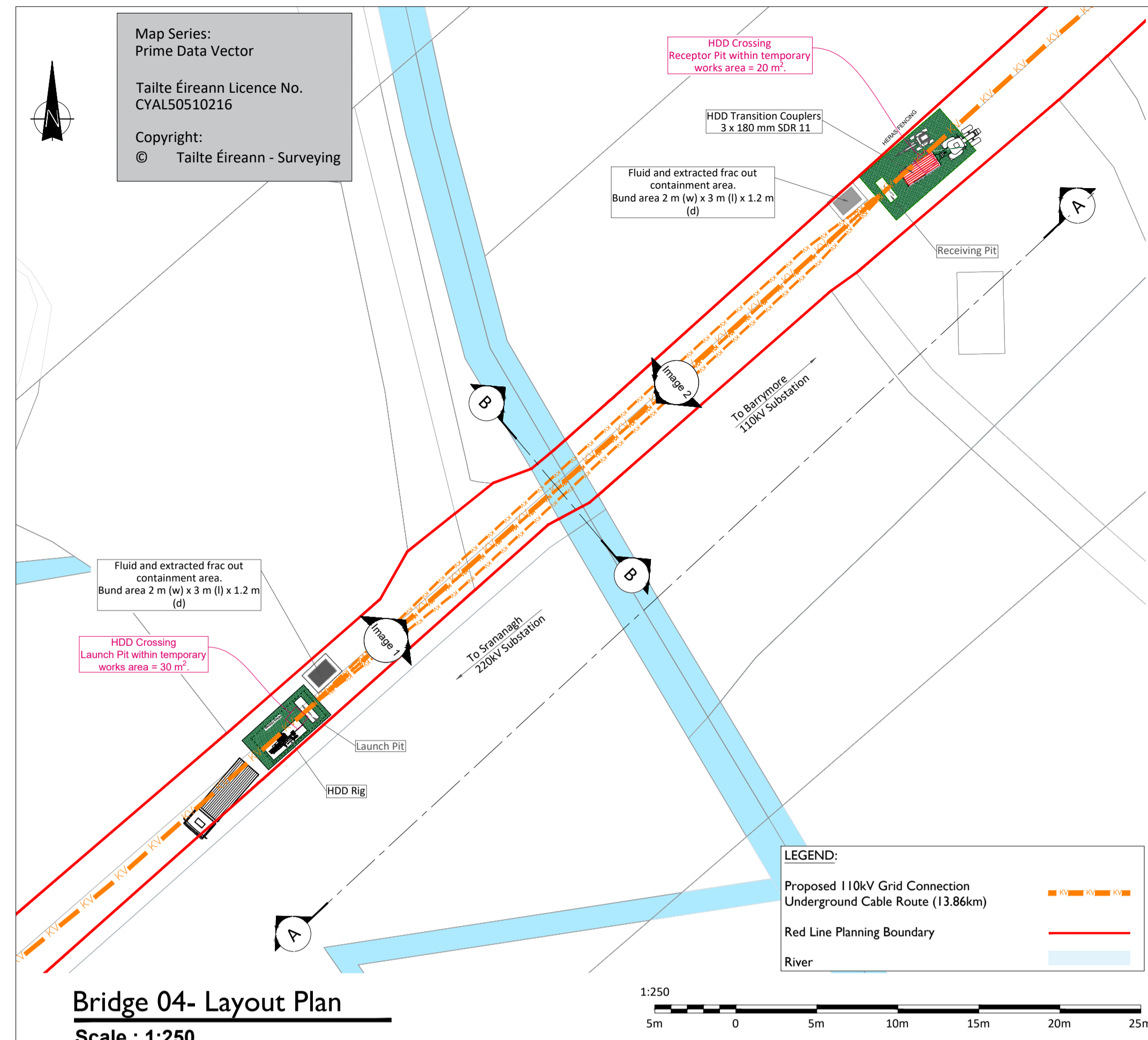
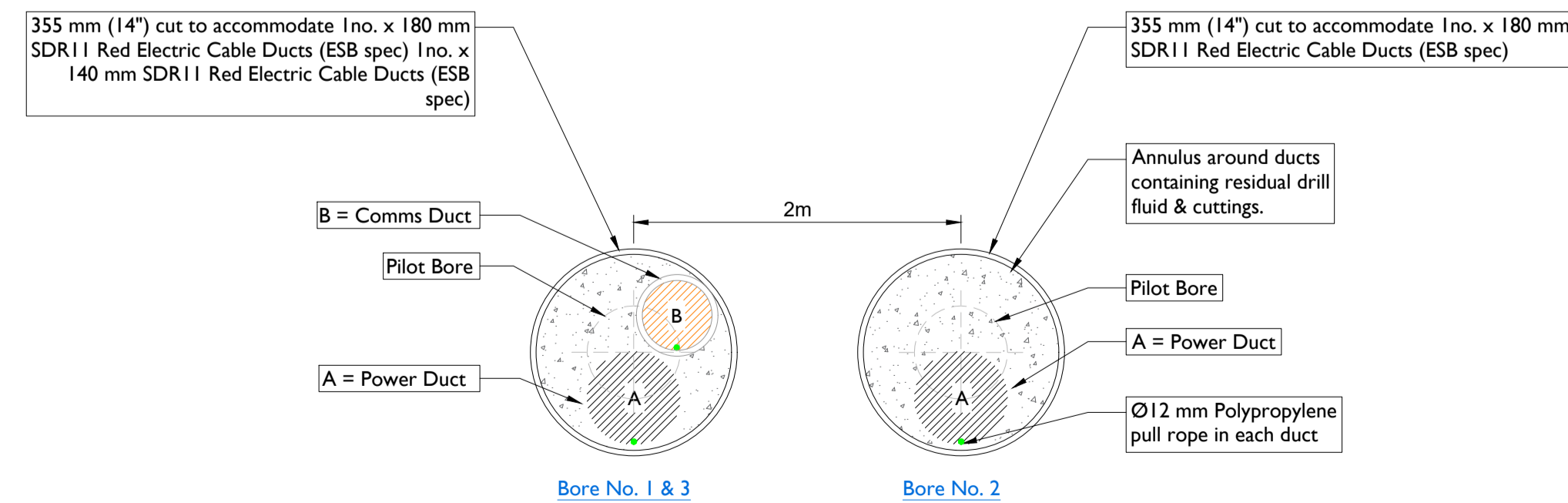
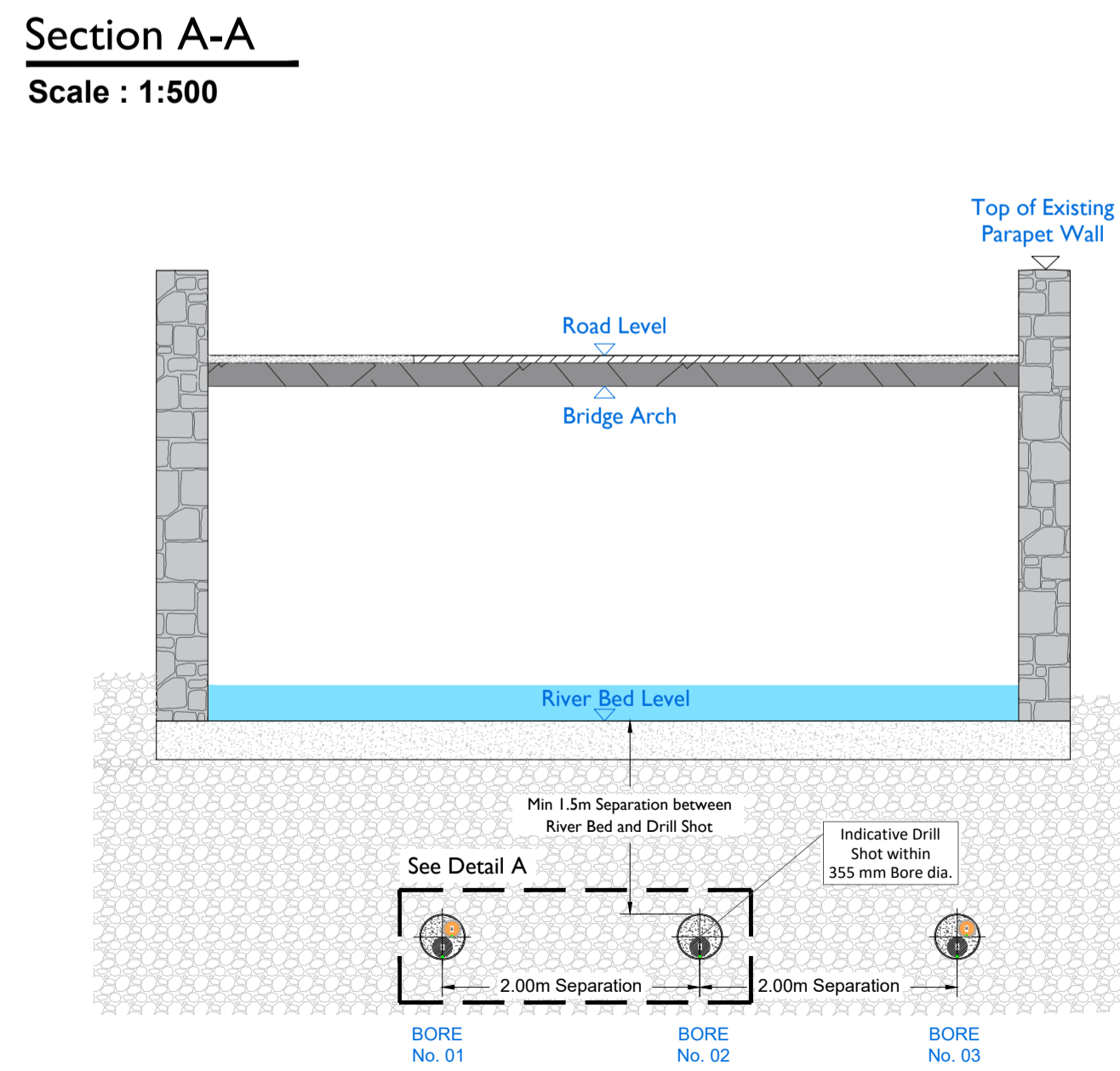
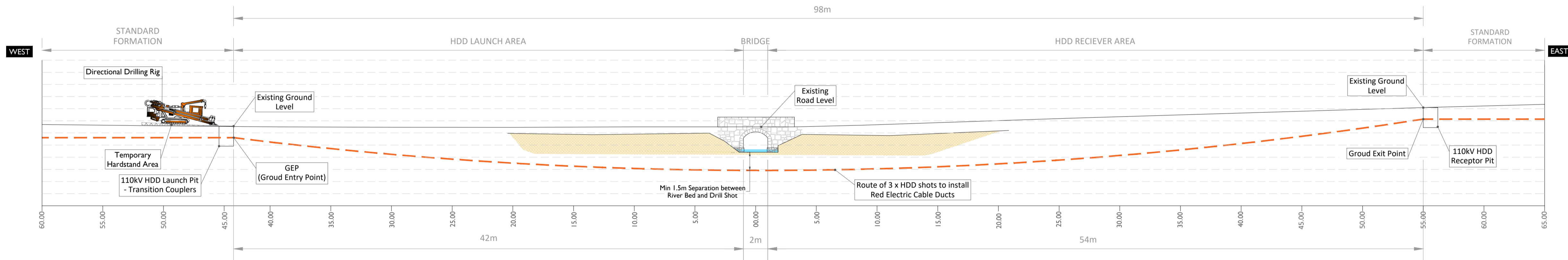
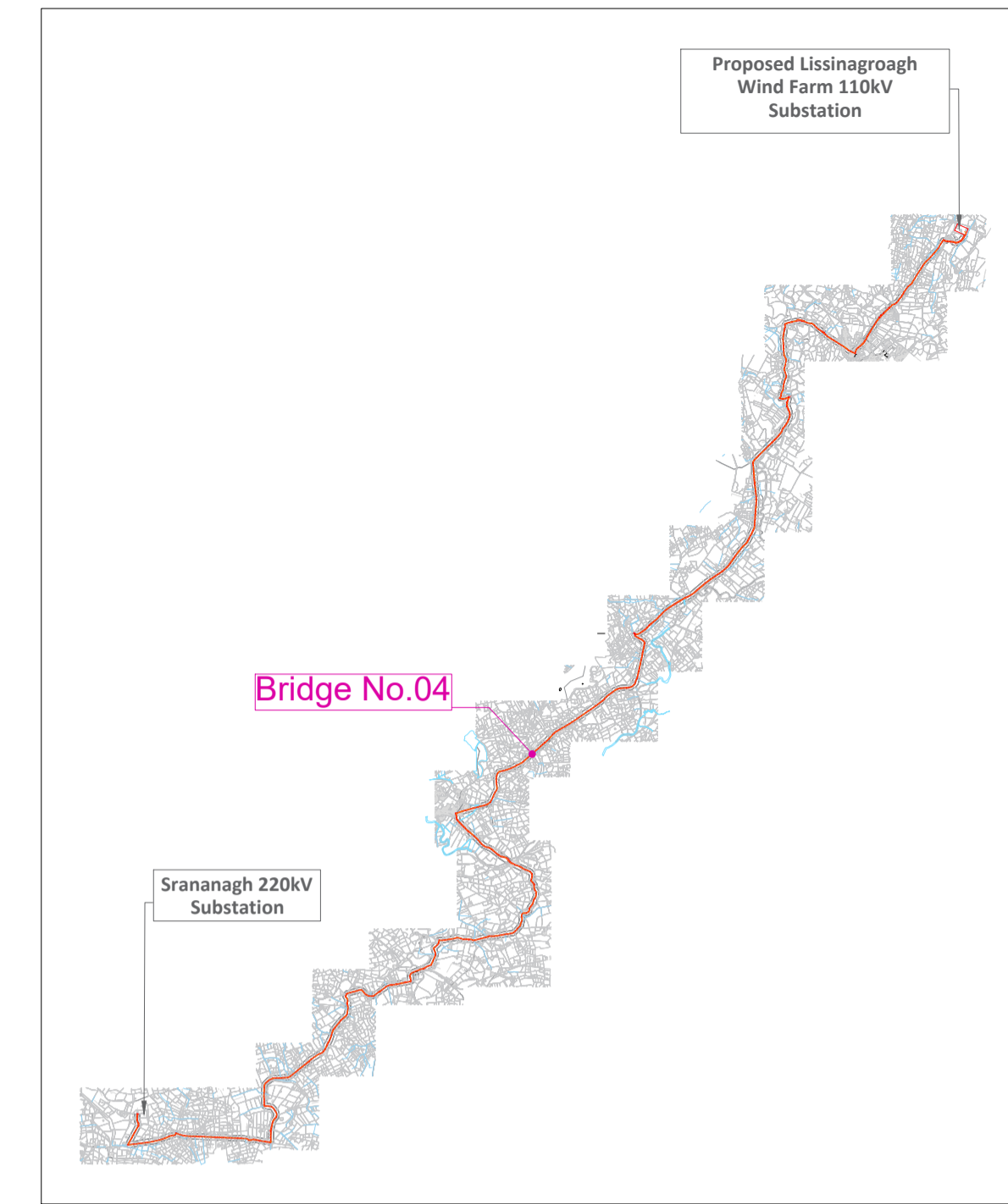


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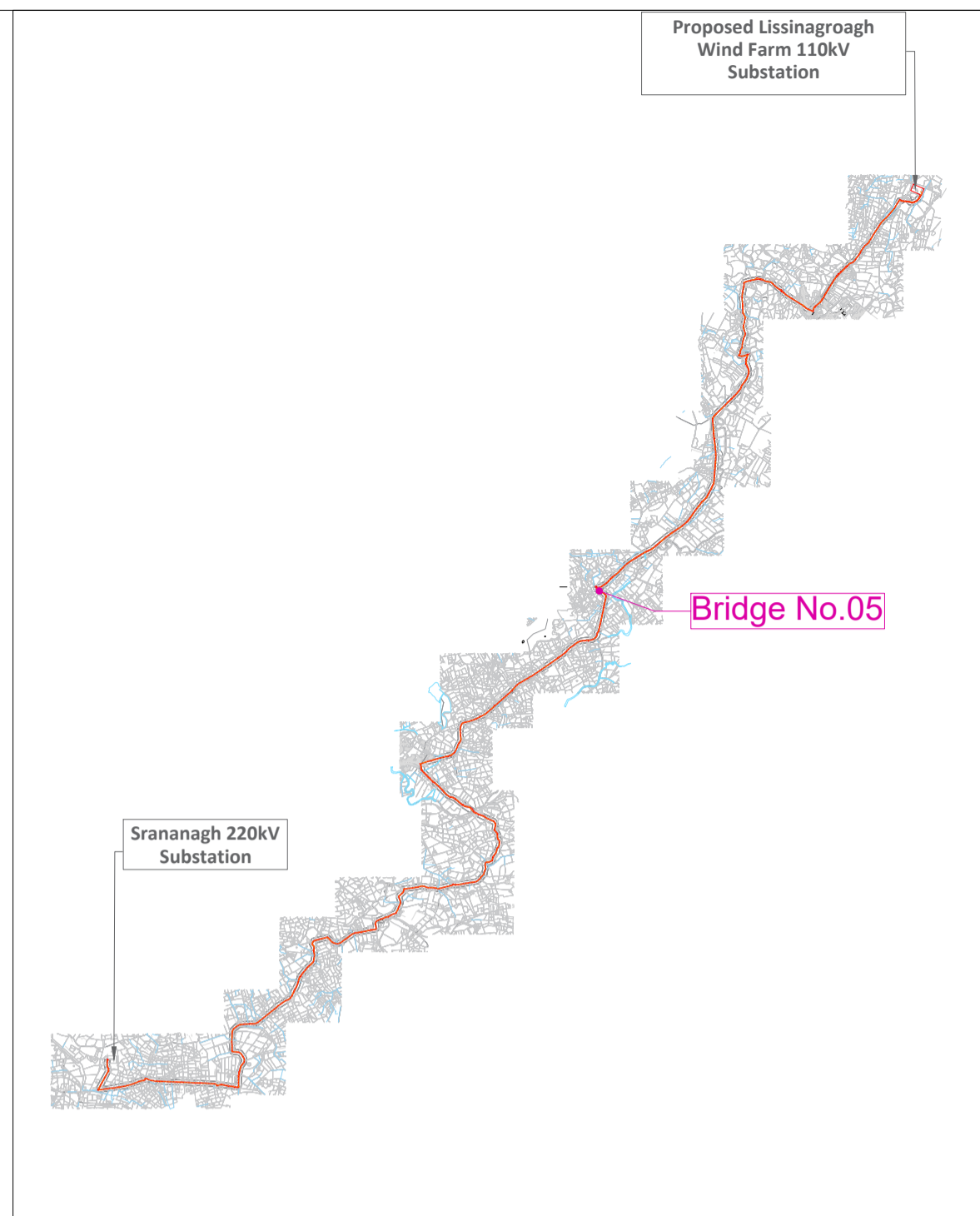
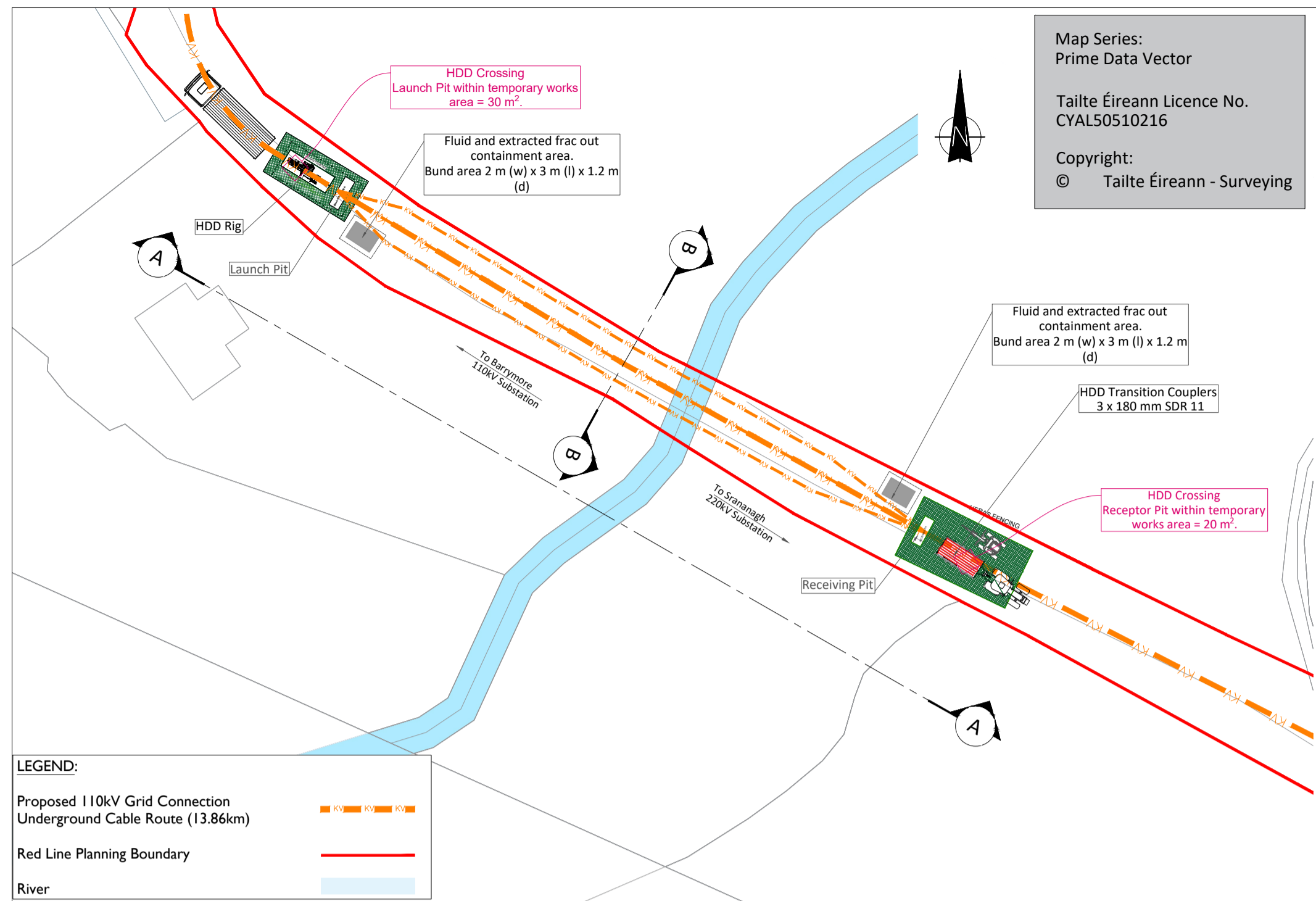
Image - 2



HDD Schedule	
110kV	Circuit 3 x 180 SDR 11 Red Electric Ducts 2 x 140 mm SDR 11 Red Electric Ducts
Entry (GEP) Co-Ordinates	X = 582207.8199 Y = 832214.2730
Exit (GXP) Co-Ordinates	X = 582278.4462 Y = 832277.7238
HDD Length	• Horizontal Distance - 99.00 m • Curve Distance - 99.30 m
All HDD ducts to comply with ESB Specification	

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ISSUE/REVISION		
P01	21.04.2026	Issued for Planning
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I/R	DATE	DESCRIPTION



Bridge 05- Layout Plan
Scale : 1:250

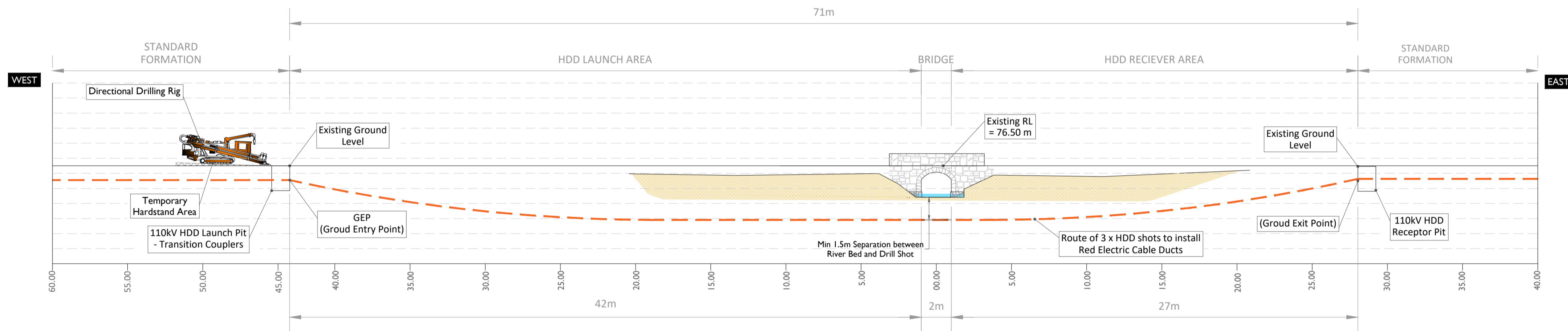
Key Plan



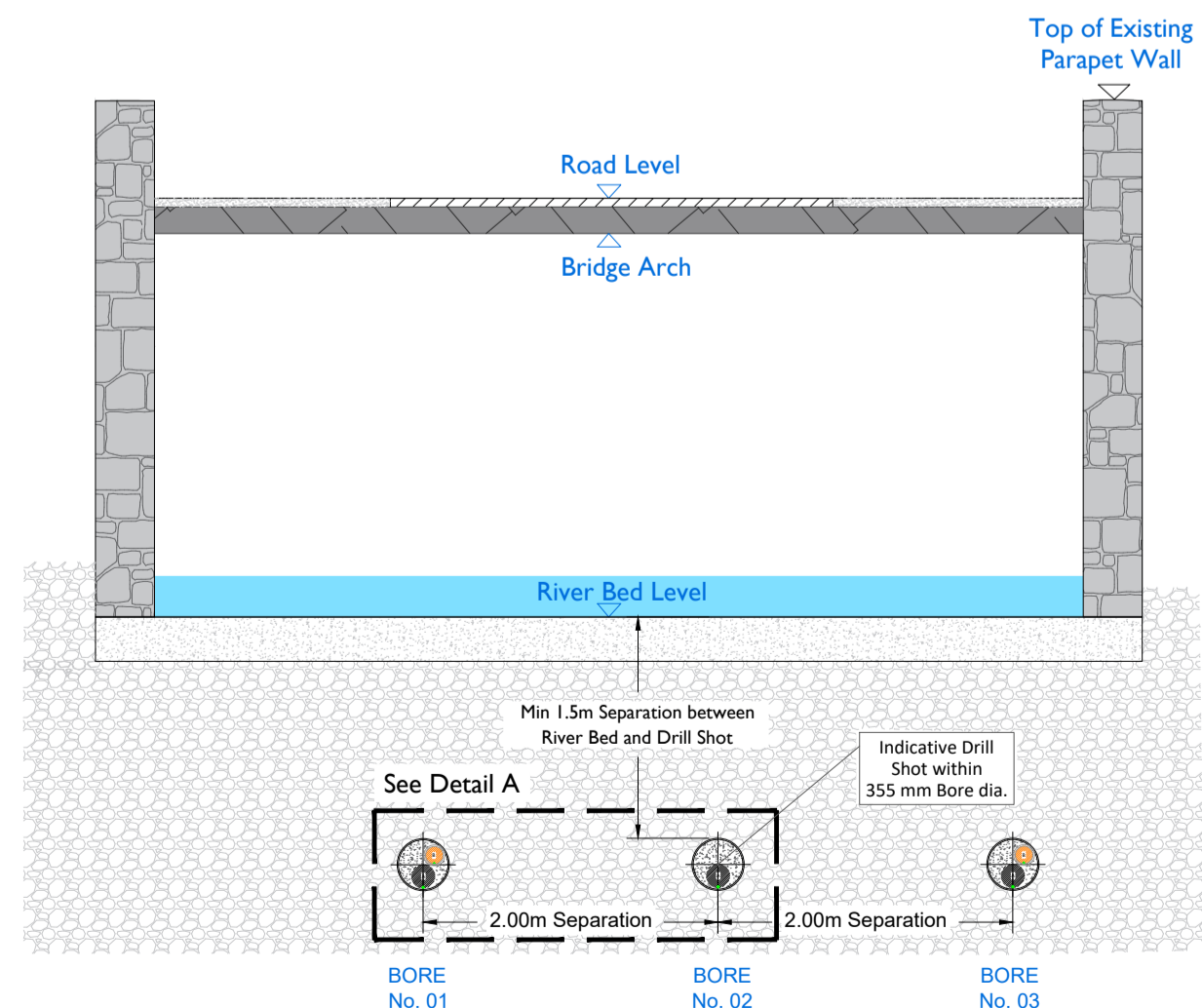
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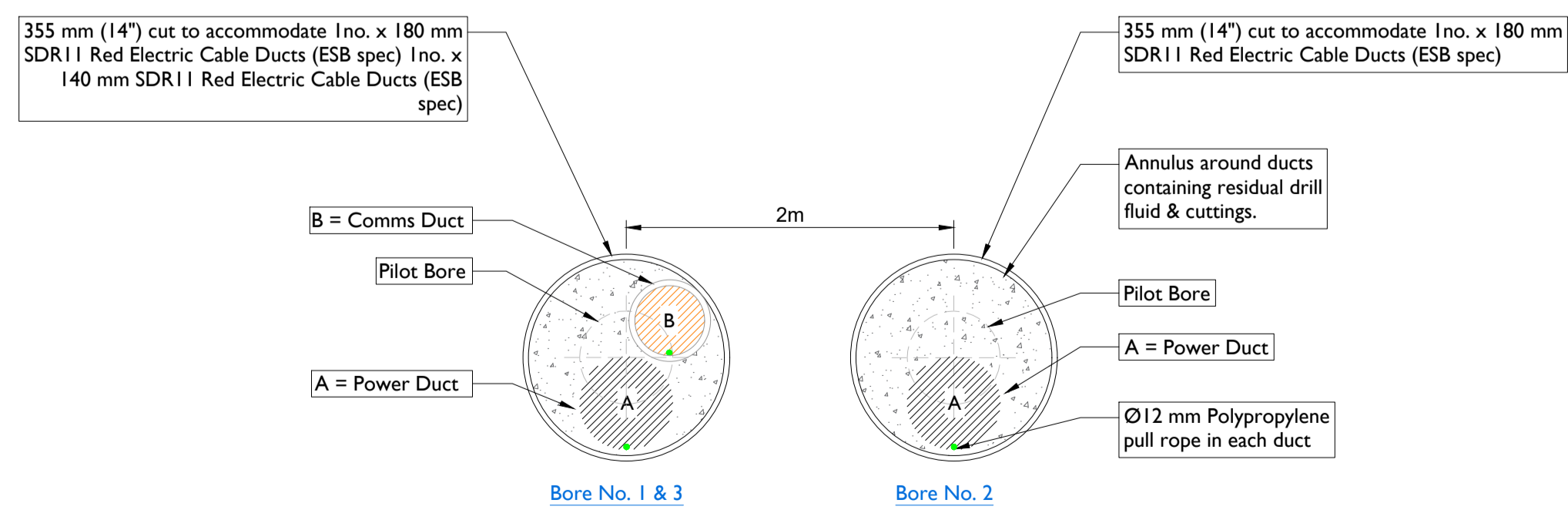
Image - 2



Section A-A
Scale : 1:500



Section B-B
Scale : 1:200



Detail - A
Scale : 1:10

HDD Schedule	
110kV	Circuit 3 x 180 SDR 11 Red Electric Ducts 2 x 140 mm SDR 11 Red Electric Ducts
Entry (GEP) Co-Ordinates	X = 584181.9915 Y = 834440.2383
Exit (GXP) Co-Ordinates	X = 584243.2297 Y = 834404.6224
HDD Length	• Horizontal Distance - 71.00 m • Curve Distance - 71.40 m
All HDD ducts to comply with ESB Specification	

NOTES: -

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LEGEND: -

ISSUE/REVISION		
P01	21.04.2026	Issued for Planning
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PROJECT NUMBER

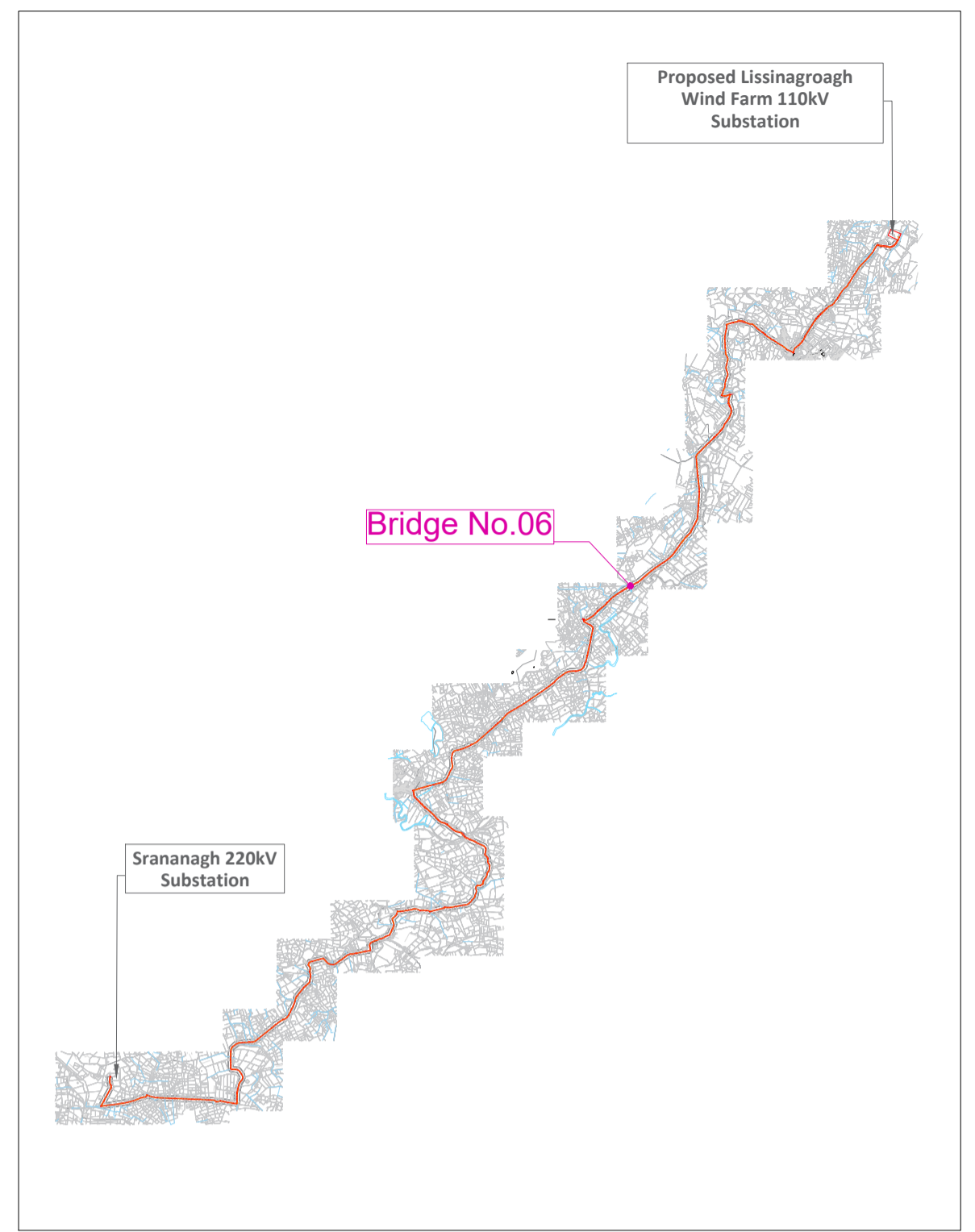
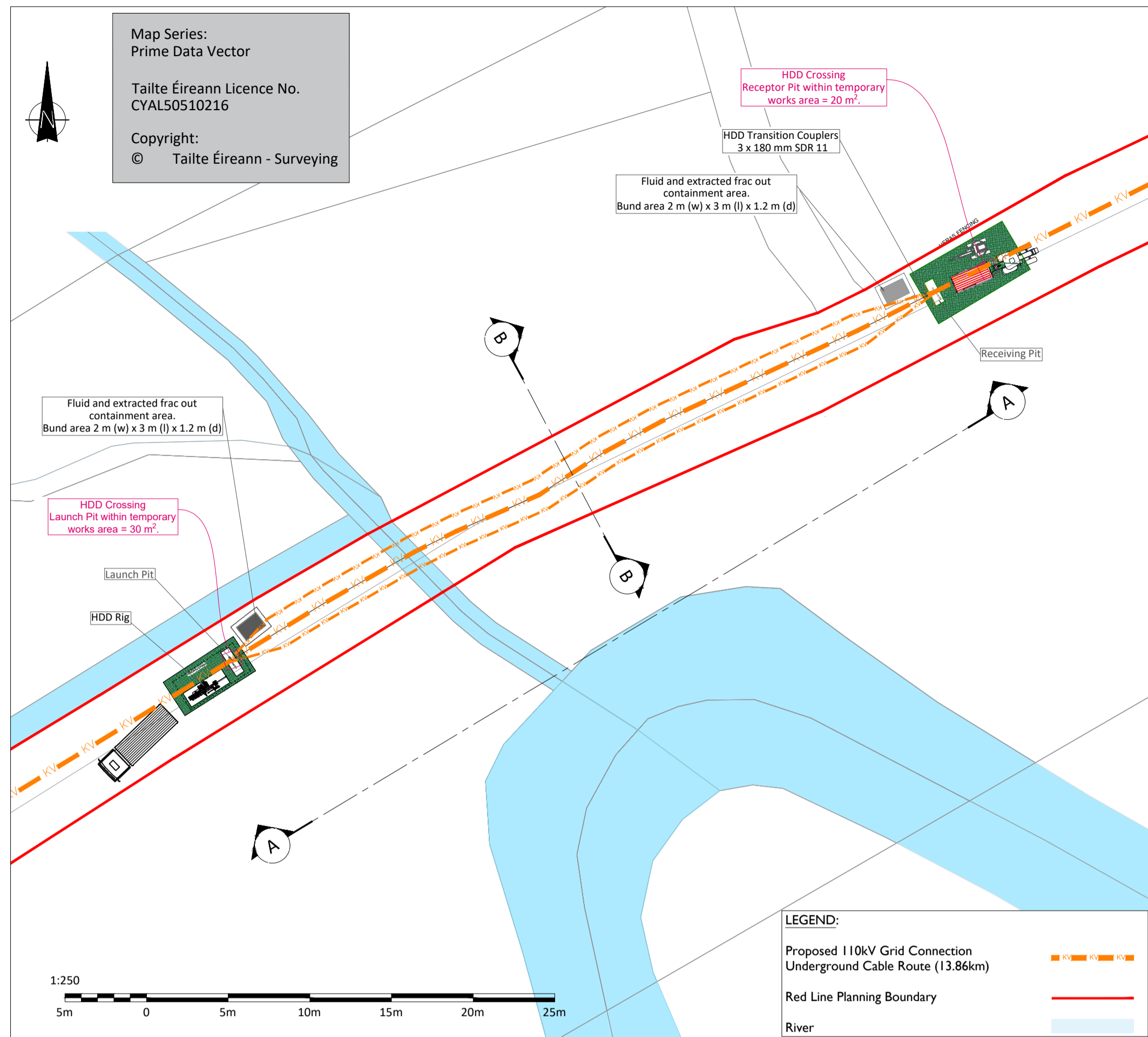
05-773

SHEET TITLE

Bridge 05 - HDD Crossing Details
L 4166

SHEET NUMBER

05773-DR-156



Key Plan

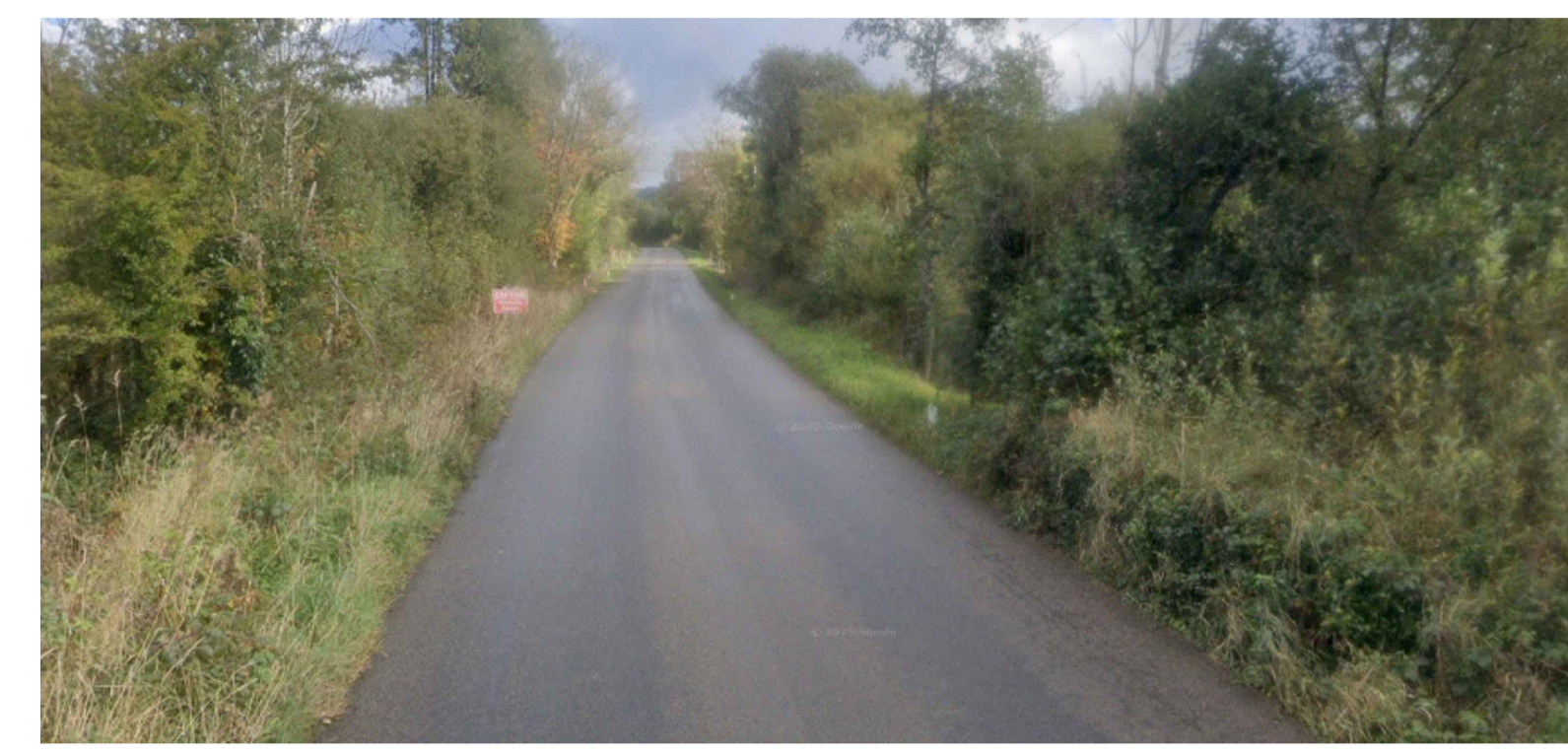
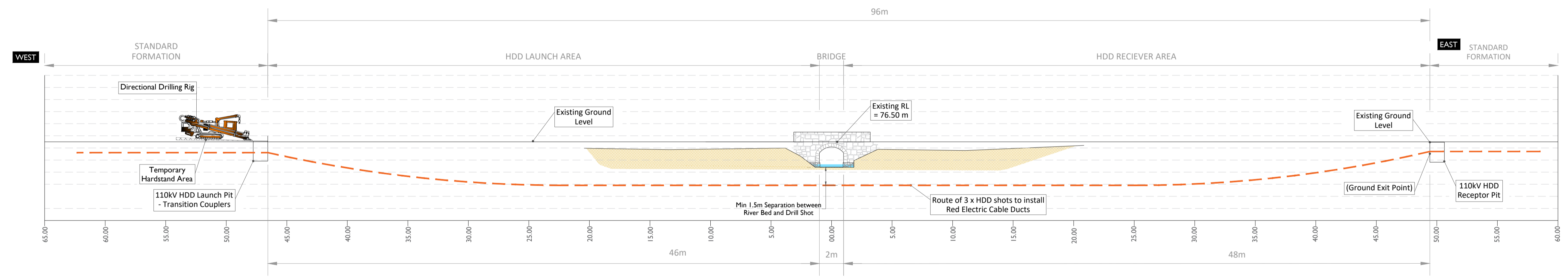


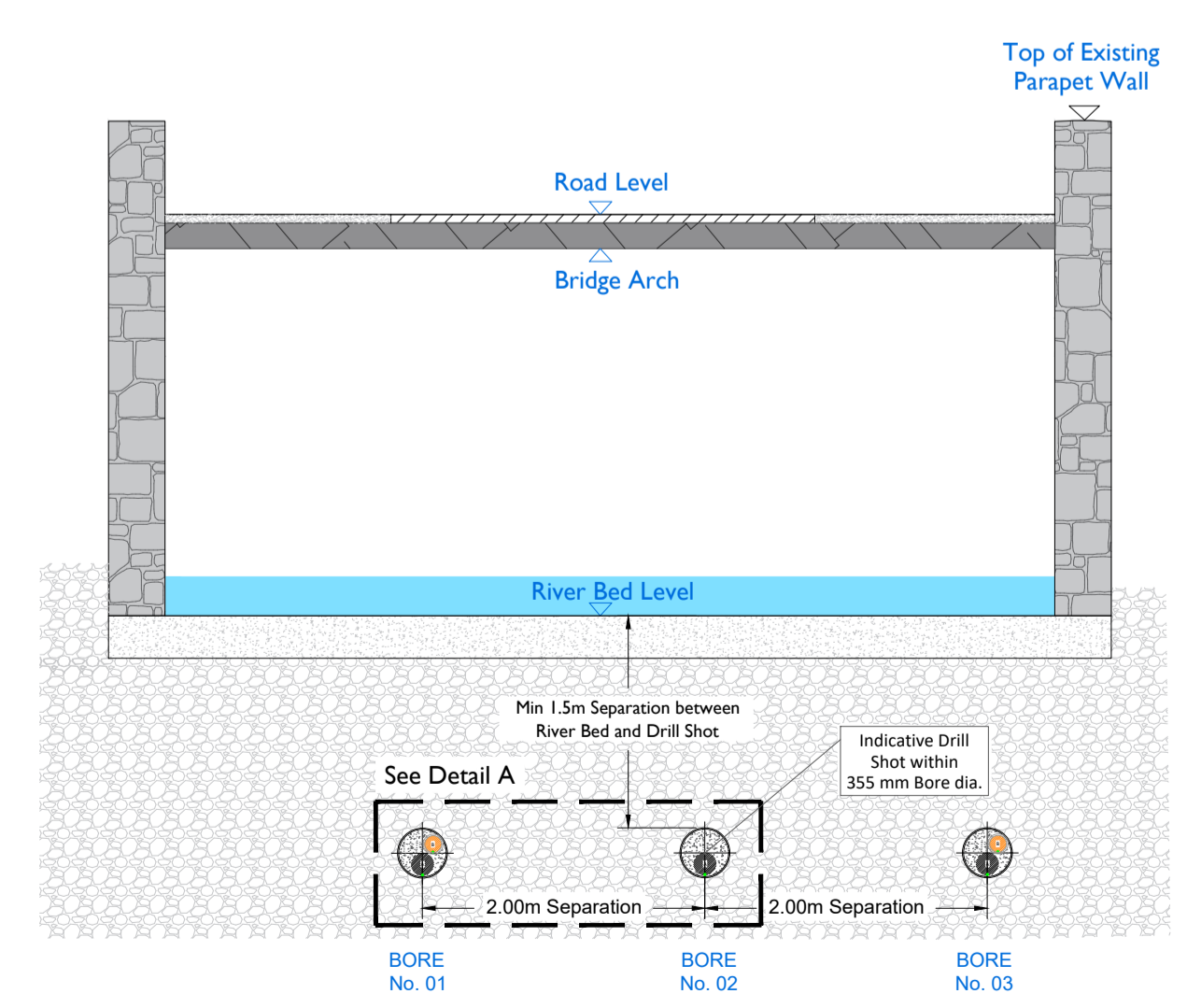
Image - 1

Bridge 06- Layout Plan
Scale : 1:250

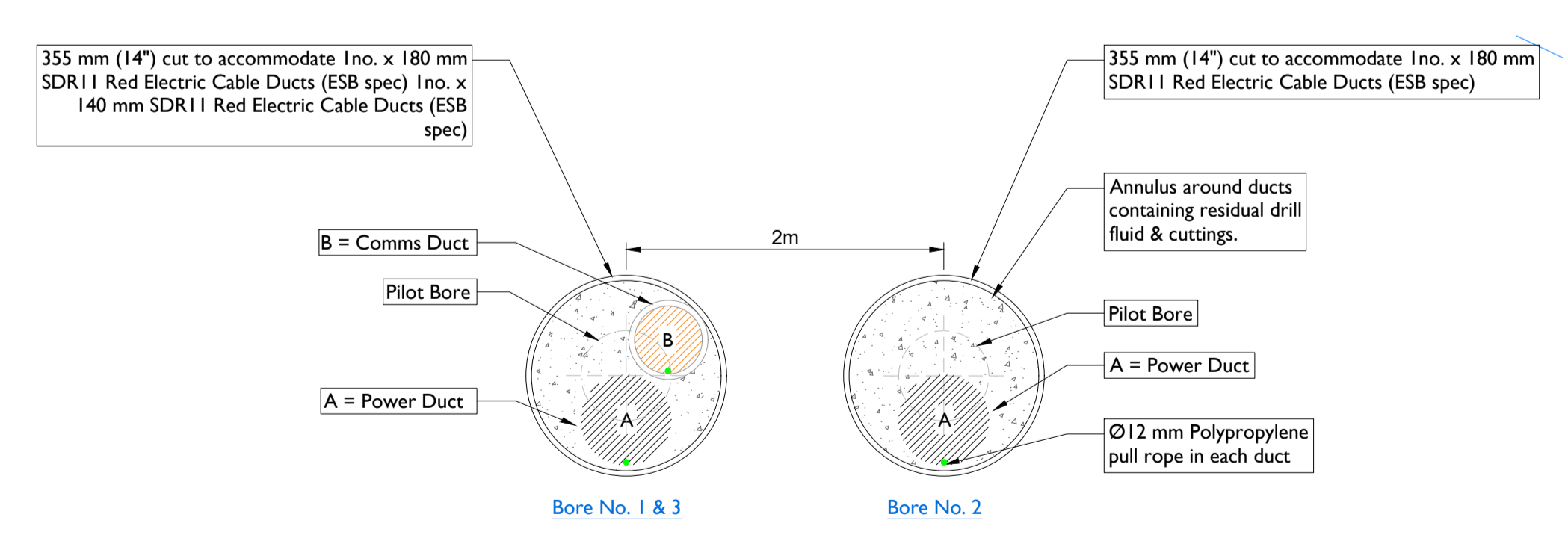


Section A-A (Longitudinal Cross Section)
Scale : 1:500

HDD Schedule	
110kV	Circuit 3 x 180 SDR 11 Red Electric Ducts 2 x 140 mm SDR 11 Red Electric Ducts
Entry (GEP) Co-Ordinates	X = 586386.0773 Y = 837729.9947
Exit (GXP) Co-Ordinates	X = 586445.4520 Y = 837795.5899
HDD Length	• Horizontal Distance - 96 m • Curve Distance - 96.3 m
All HDD ducts to comply with ESB Specification	



Section B-B
Scale : 1:200

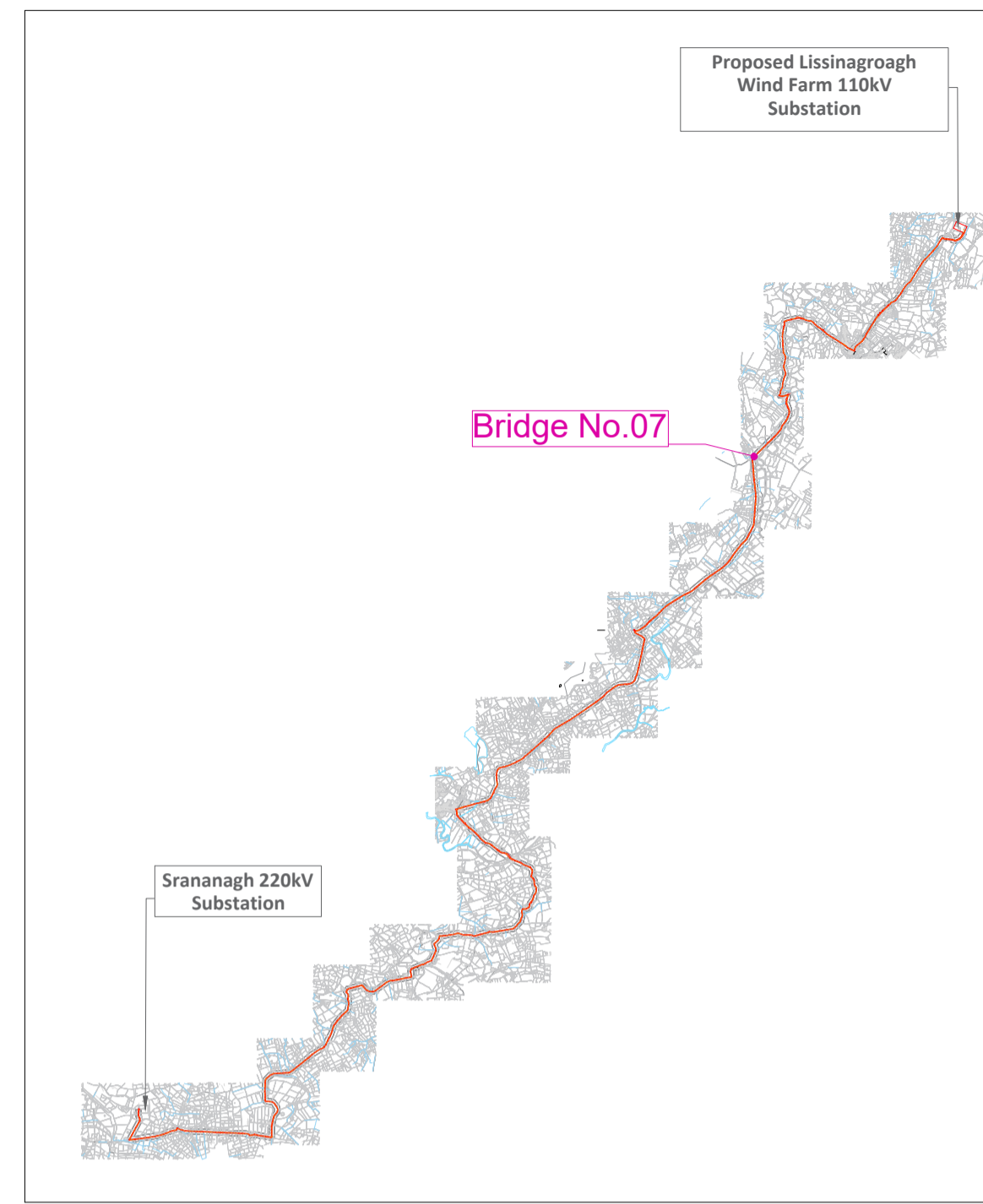
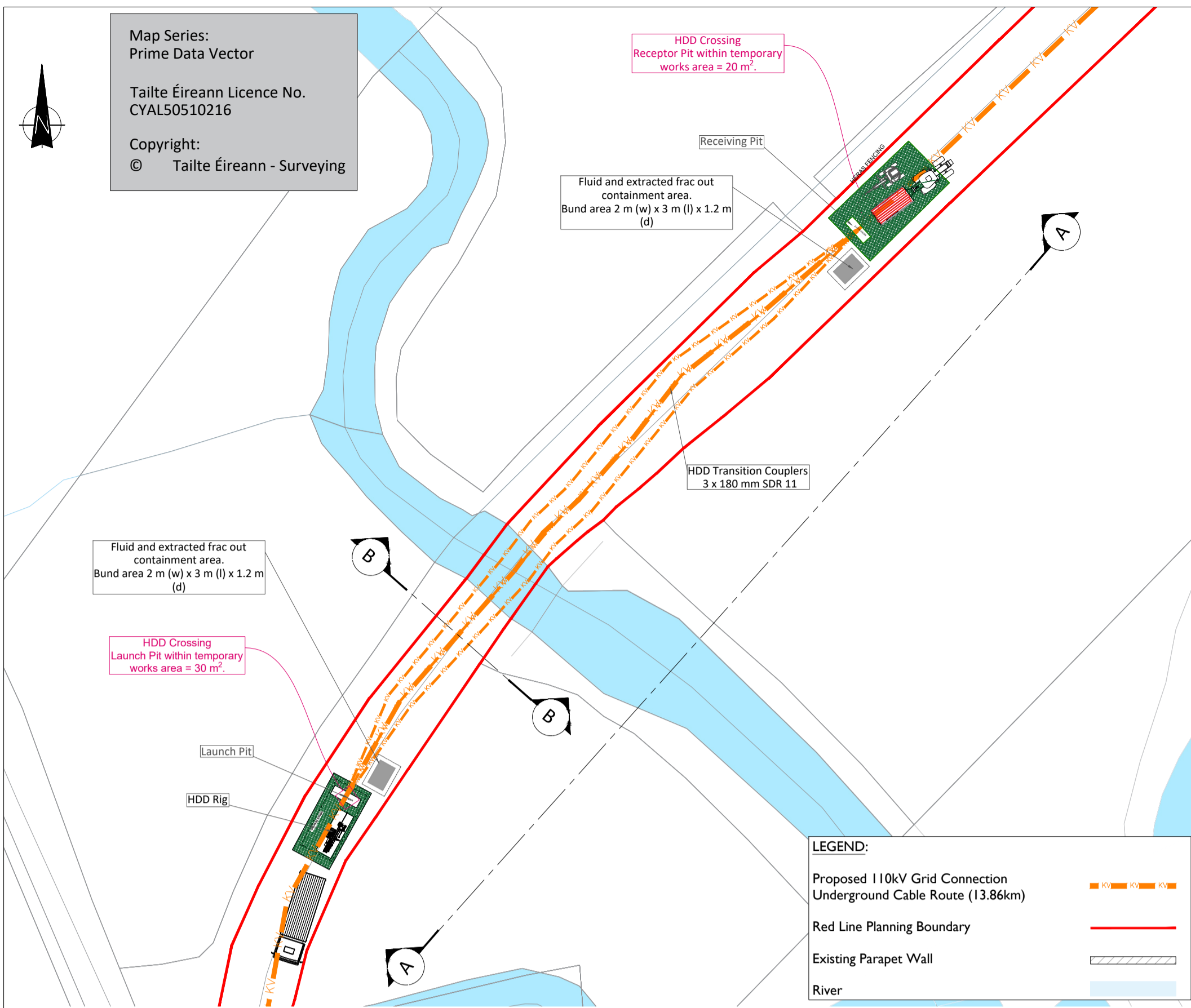


Detail - A
Scale : 1:10

- The proposals are subject to detailed design approval.
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I/R	DATE	DESCRIPTION
P01	21.04.2026	Issued for Planning
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Key Plan



Image - 1

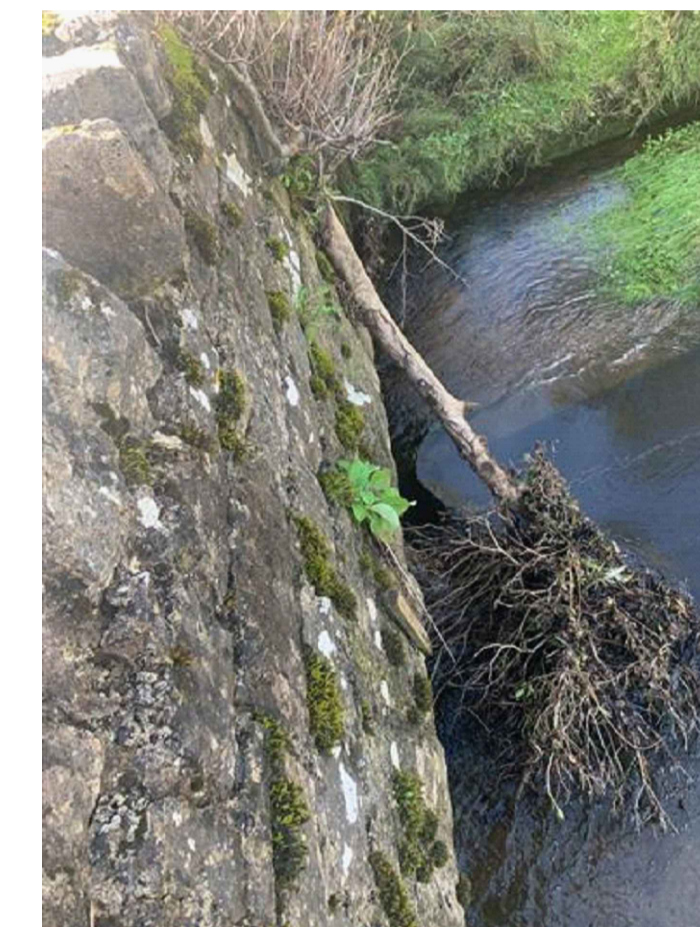
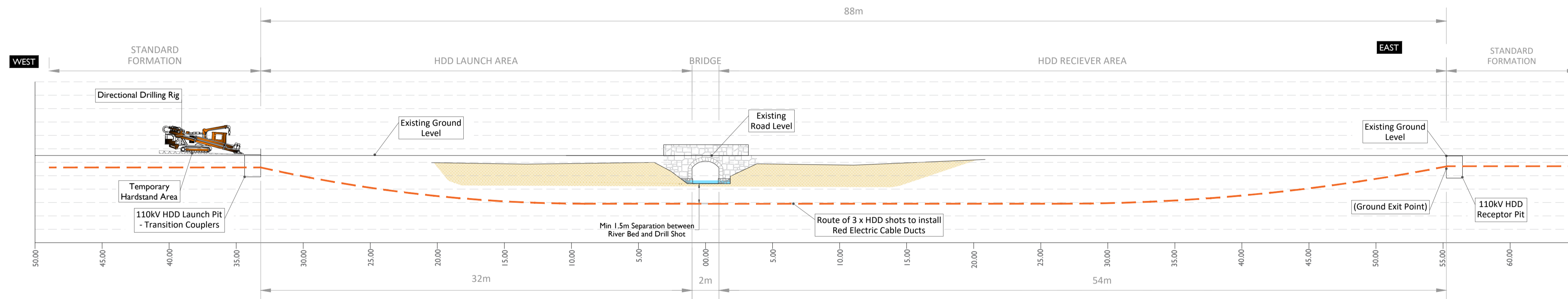
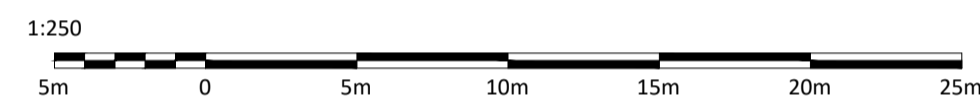


Image - 2

Bridge 07- Layout Plan

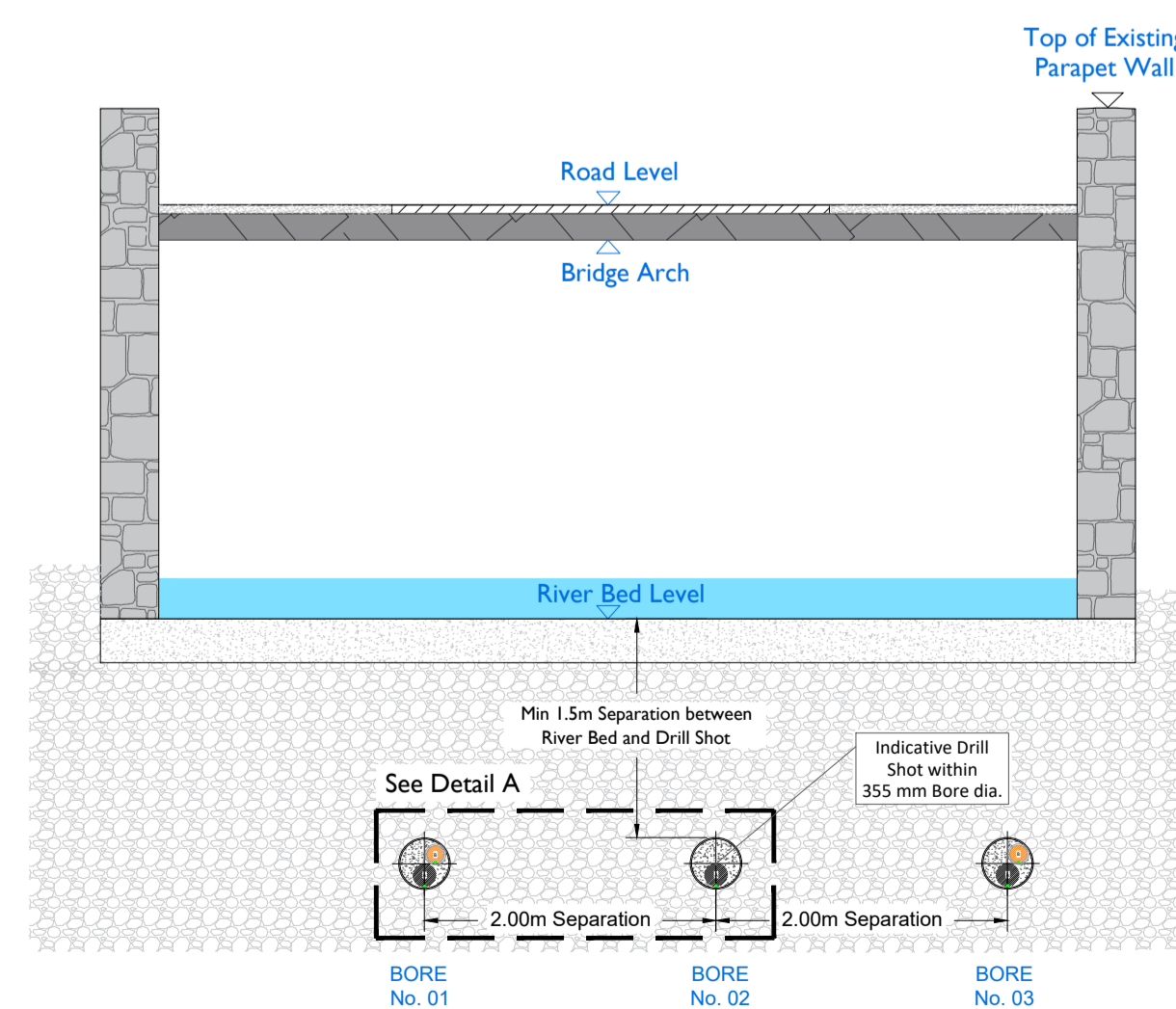
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Section A-A (Longitudinal Cross Section)

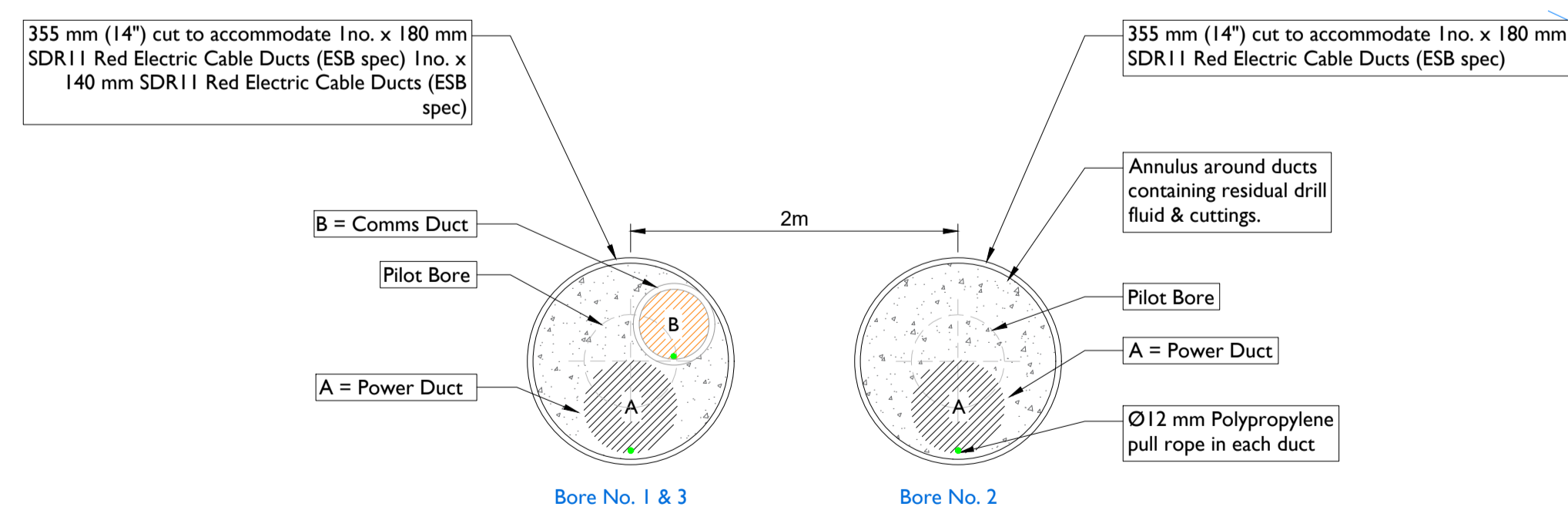
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HDD Schedule	
110kV	Circuit 3 x 180 SDR 11 Red Electric Ducts 2 x 140 mm SDR 11 Red Electric Ducts
Entry (GEP) Co-Ordinates	X = 586386.0773 Y = 837729.9947
Exit (GXP) Co-Ordinates	X = 586445.4520 Y = 837795.5899
HDD Length	• Horizontal Distance - 96 m • Curve Distance - 96.3 m
All HDD ducts to comply with ESB Specification	



Section B-B

Scale : 1:200



Detail - A

Scale : 1:10

NOTES: -

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LEGEND: -

ISSUE/REVISION		
I/R	DATE	DESCRIPTION
P01	21.04.2026	Issued for Planning
P00	20.04.2026	Issued for Planning

PROJECT NUMBER

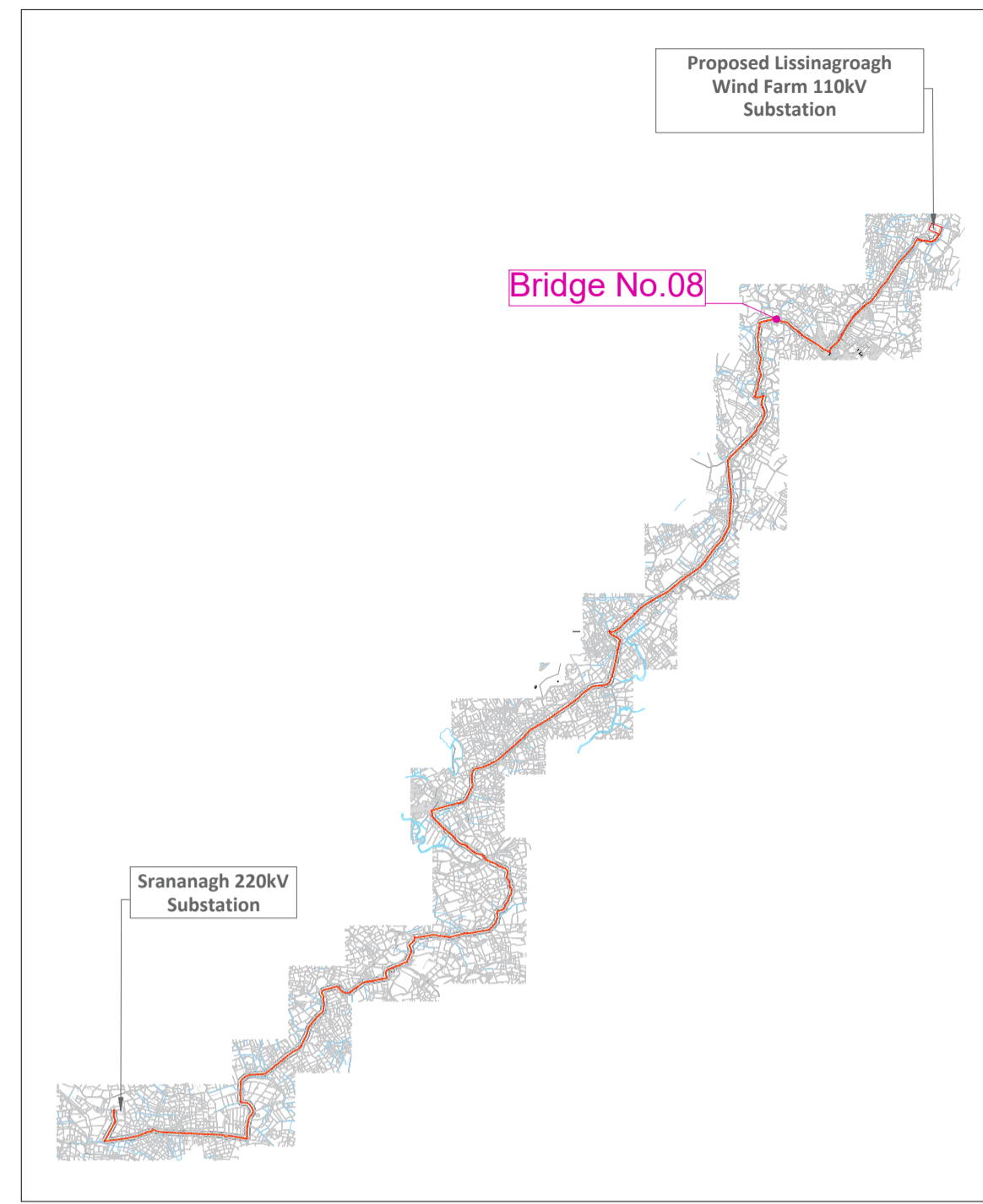
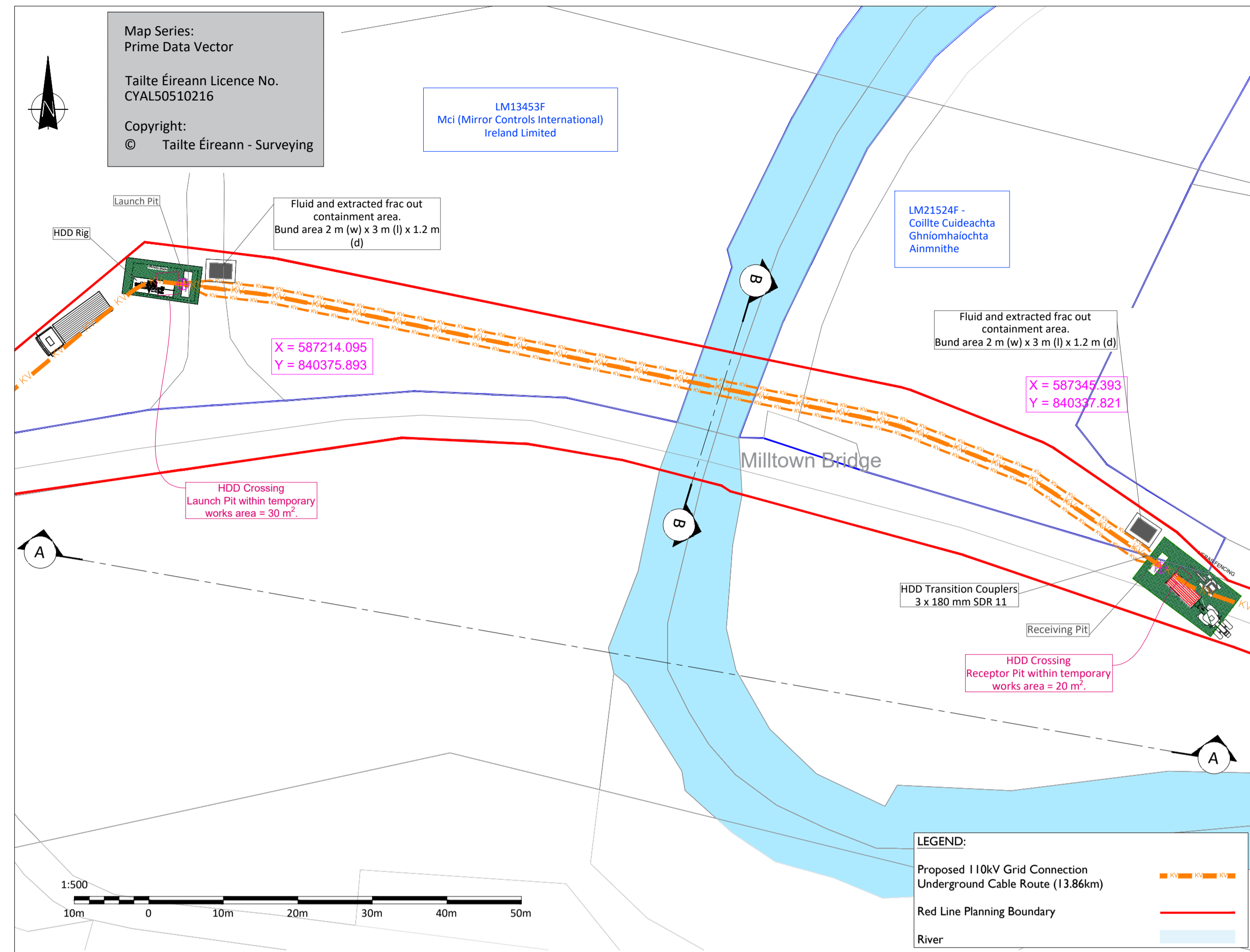
05-773

SHEET TITLE

Bridge 07 - HDD Crossing Details
L 5204

SHEET NUMBER

05773-DR-158



Key Plan

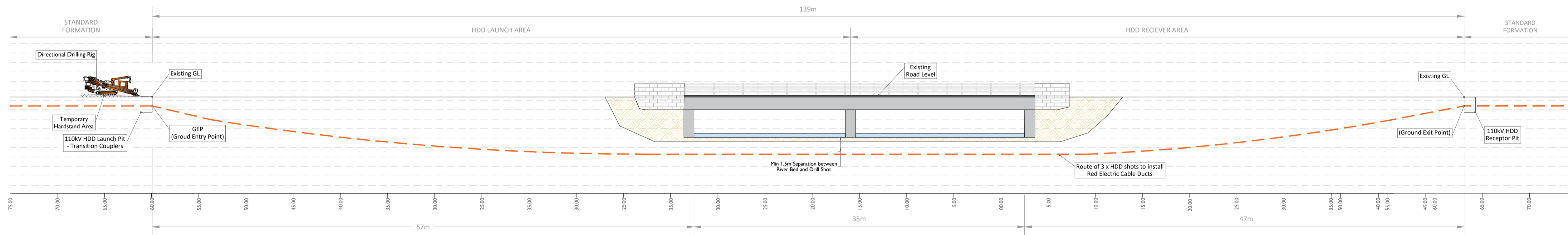


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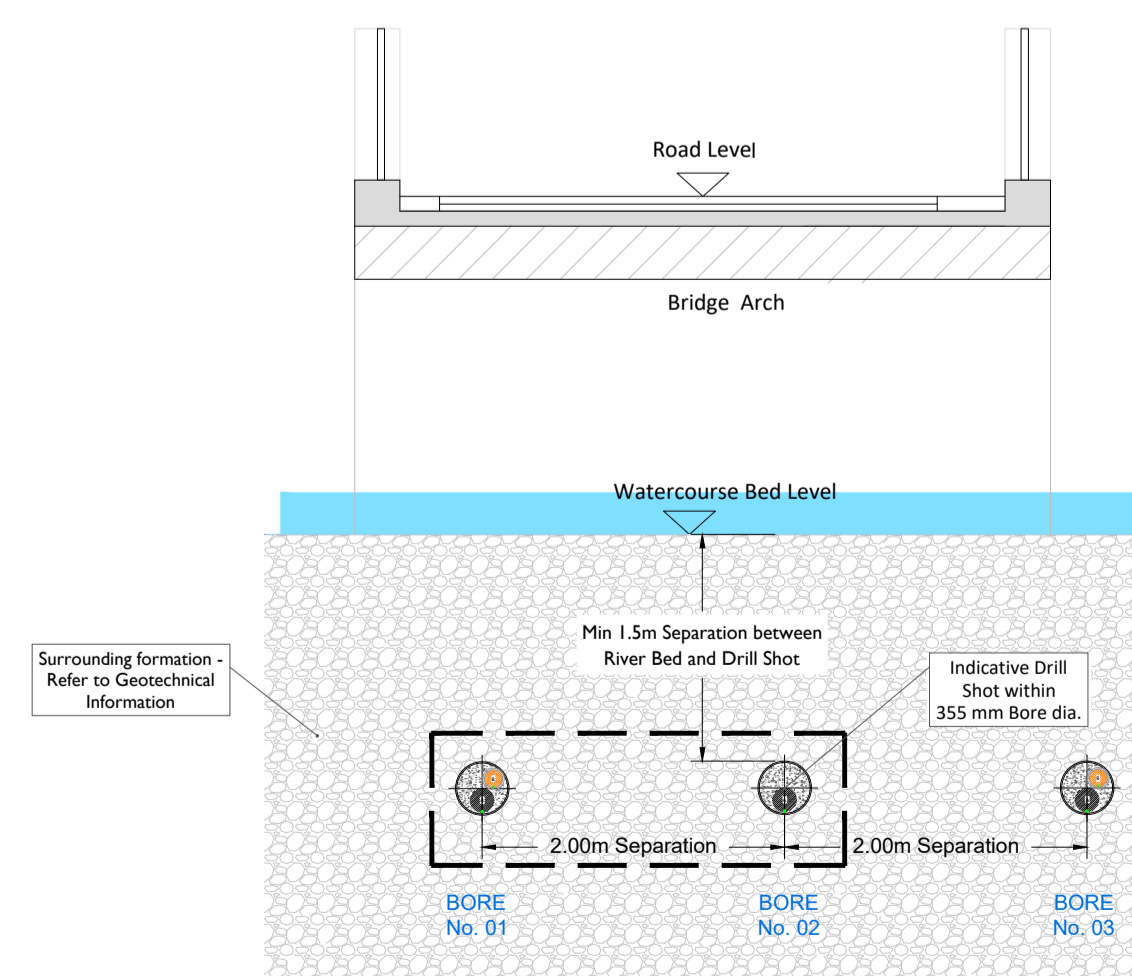


Image - 2

Bridge 08- Layout Plan
Scale : 1:500

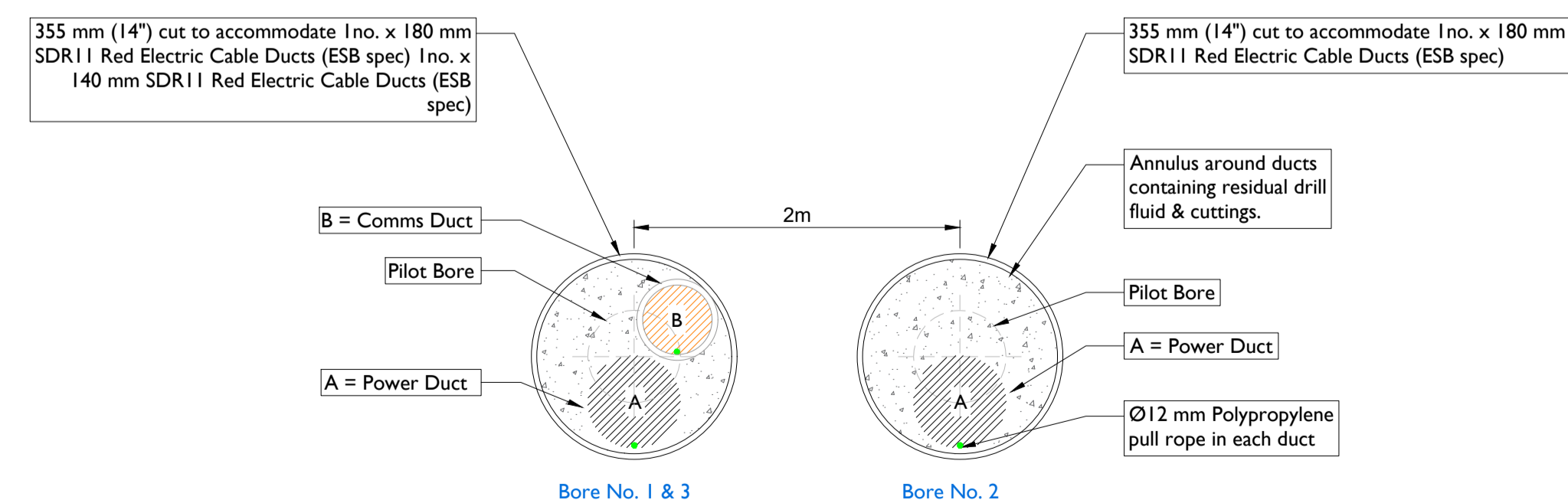


Section A-A
Scale : 1:250



Section B-B
Scale : 1:200

Detail - A
Scale : 1:10



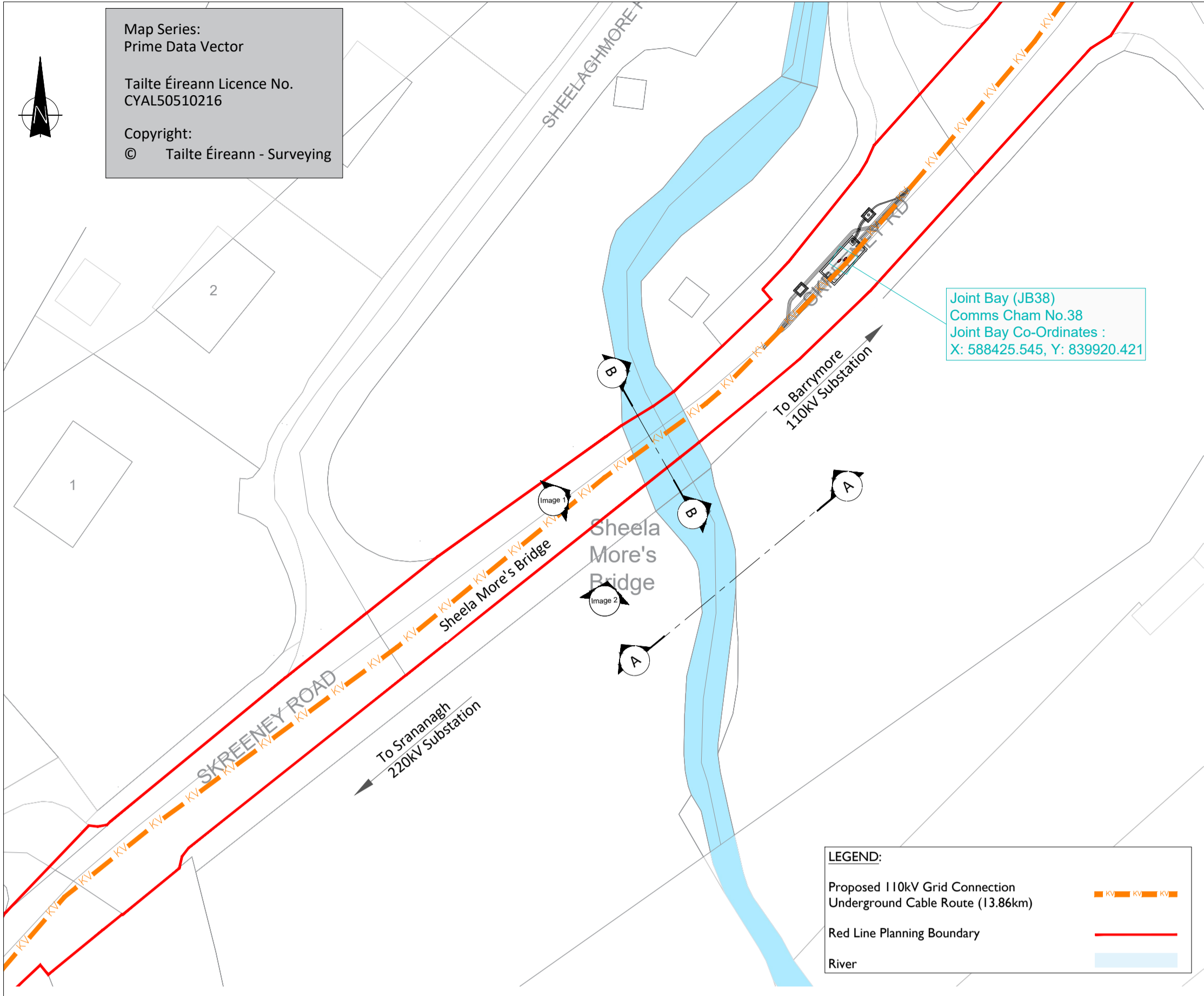
HDD Schedule	
110kV	Circuit 3 x 180 SDR 11 Red Electric Ducts 2 x 140 mm SDR 11 Red Electric Ducts
Entry (GEP) Co-Ordinates	X = 587215.2388 Y = 840375.7501
Exit (GXP) Co-Ordinates	X = 587344.4927 Y = 840338.6559
HDD Length	• Horizontal Distance - 139 m • Curve Distance - 139.72 m
All HDD ducts to comply with ESB Specification	

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- Dimensions are in metres, & coordinate system is ITM, unless noted otherwise.
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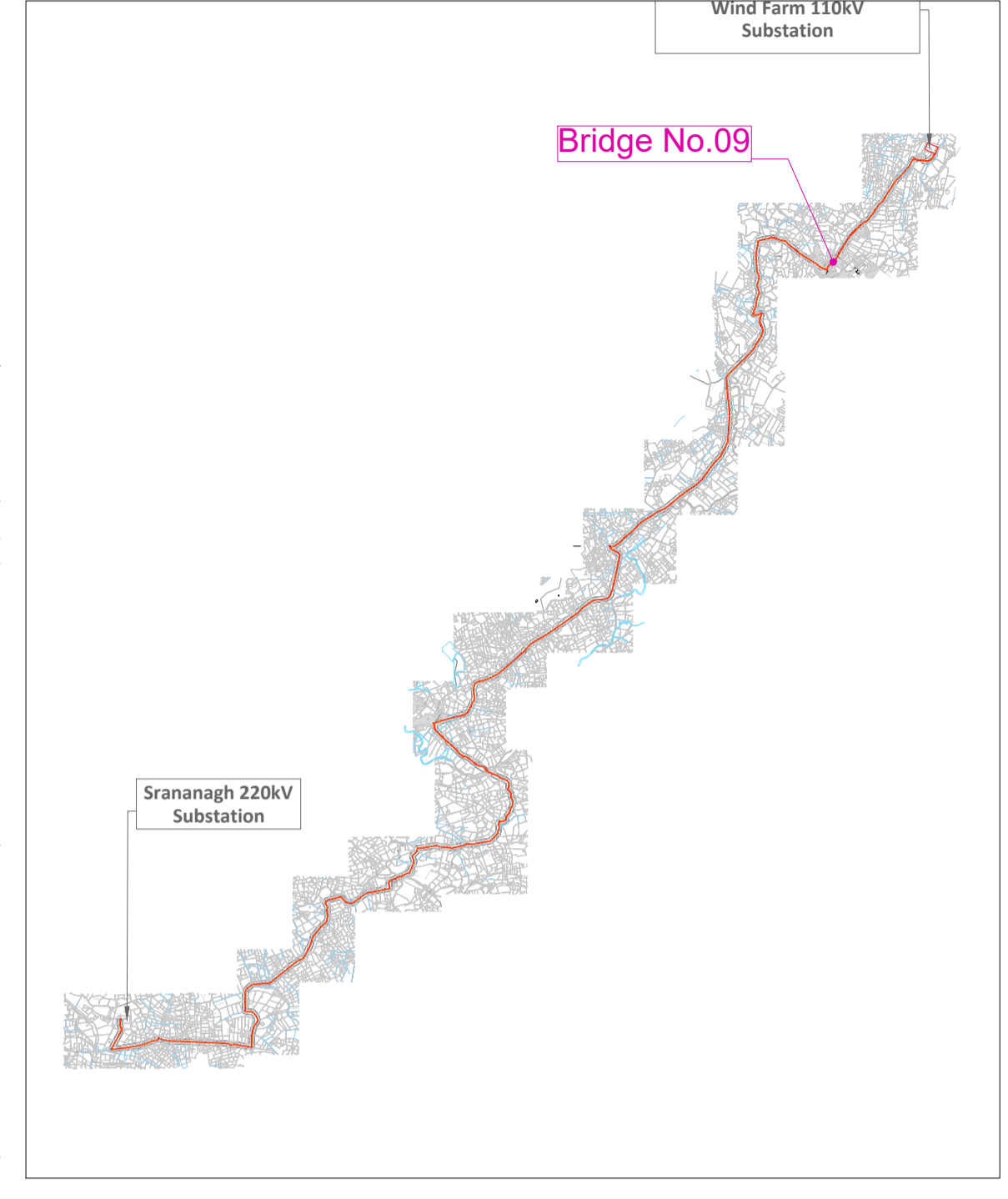
ISSUE/REVISION		
P01	21.04.2026	Issued for Planning
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I/R	DATE	DESCRIPTION

ISO A1 594mm x 841mm

Map Series:
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Bridge 09- Layout Plan
Scale : 1:500



Key Plan



Image - 1



Image - 2



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Tralee, Co. Kerry
Ireland
Tel: 00353 66 7135710

PROJECT

Lissinagroagh Wind Farm
110kV Grid Connection

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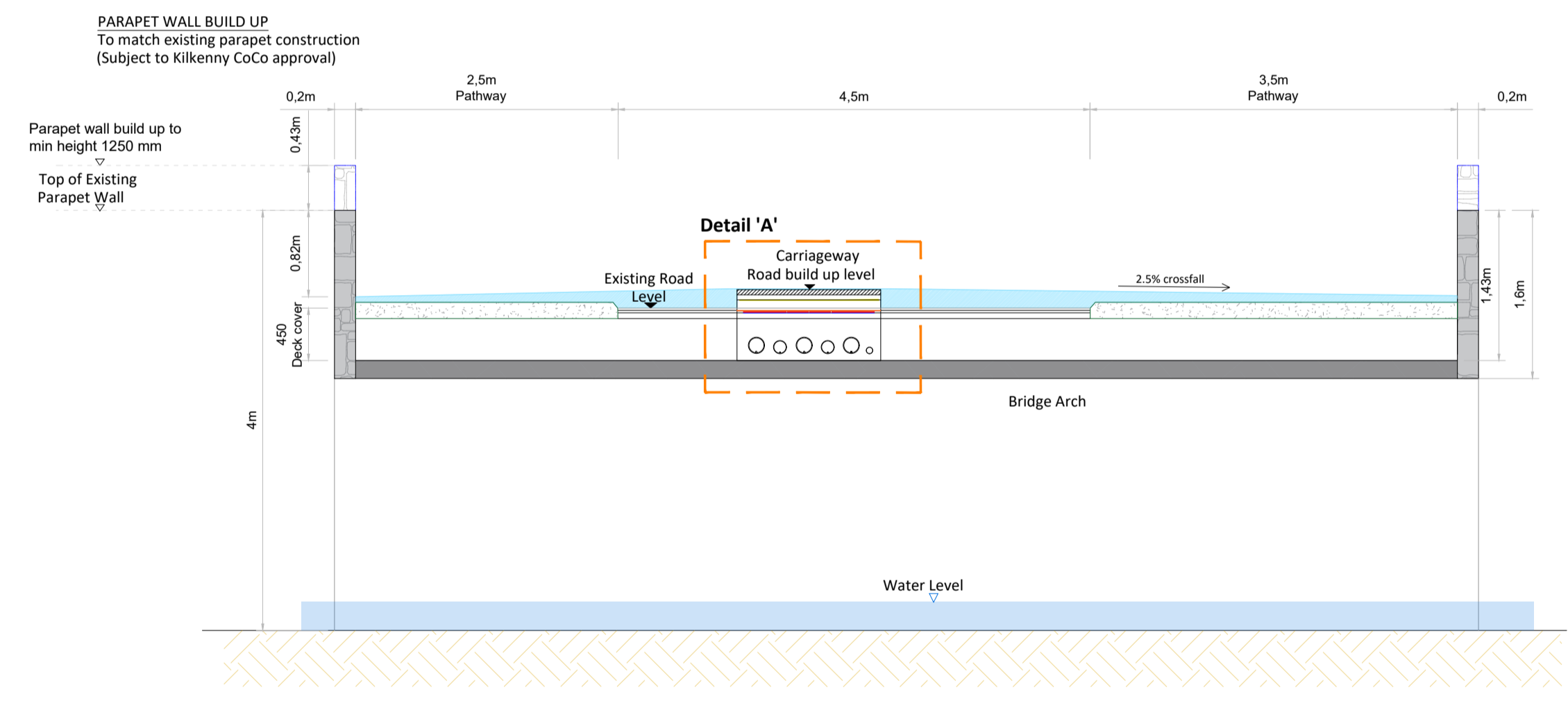


CONSULTANTS

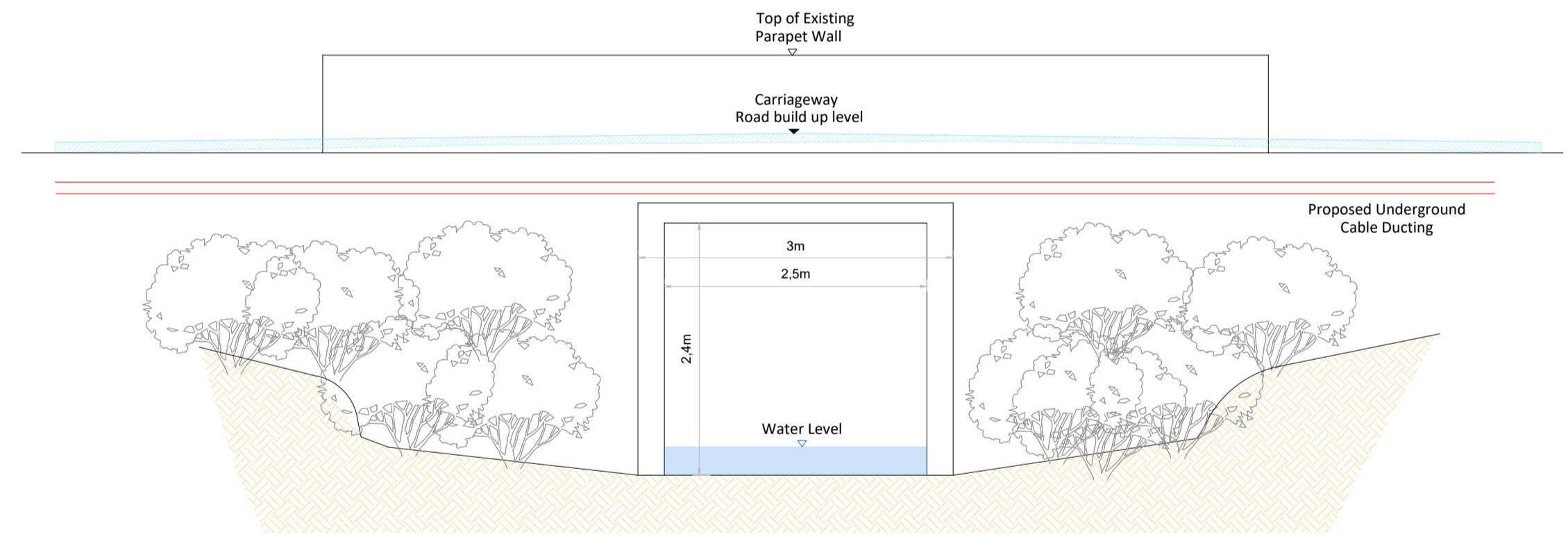
NOTES: -

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- Position of HDD launch/reception points will be selected following site investigations and detailed design.
- Dimensions are in metres, & coordinate system is ITM, unless noted otherwise.
- Drawings are not to be scaled use figured dimensions only.

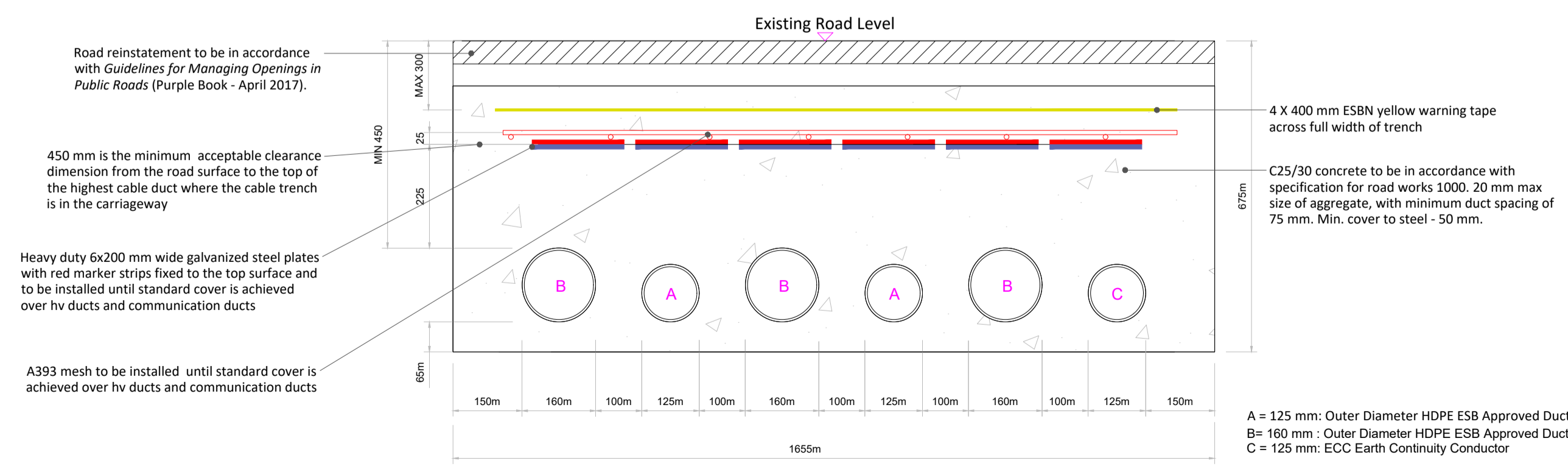
LEGEND: -



Section A-A
Scale : 1:250



Section B-B
Scale : 1:250



Detail - A
Scale : 1:10

ISSUE/REVISION		
I/R	DATE	DESCRIPTION
P01	21.04.2026	Issued for Planning
P00	20.04.2026	Issued for Planning

PROJECT NUMBER
05-773

SHEET TITLE
Bridge 09 - Crossing Details
R 282

SHEET NUMBER
05773-DR-160

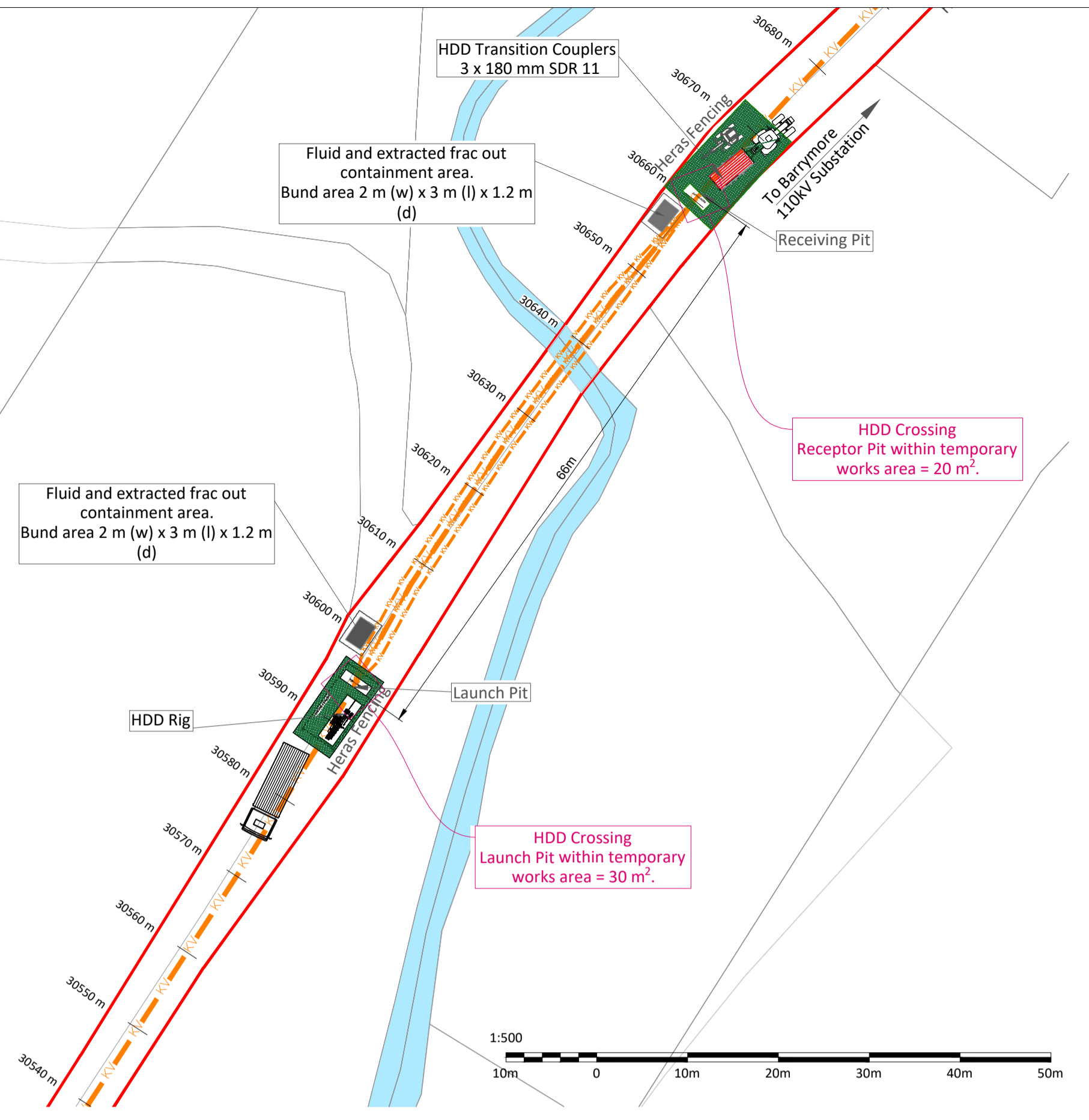
Project Management Initials: Designer: AD Checked: DB Approved: RG

ISO A1 594mm x 841mm

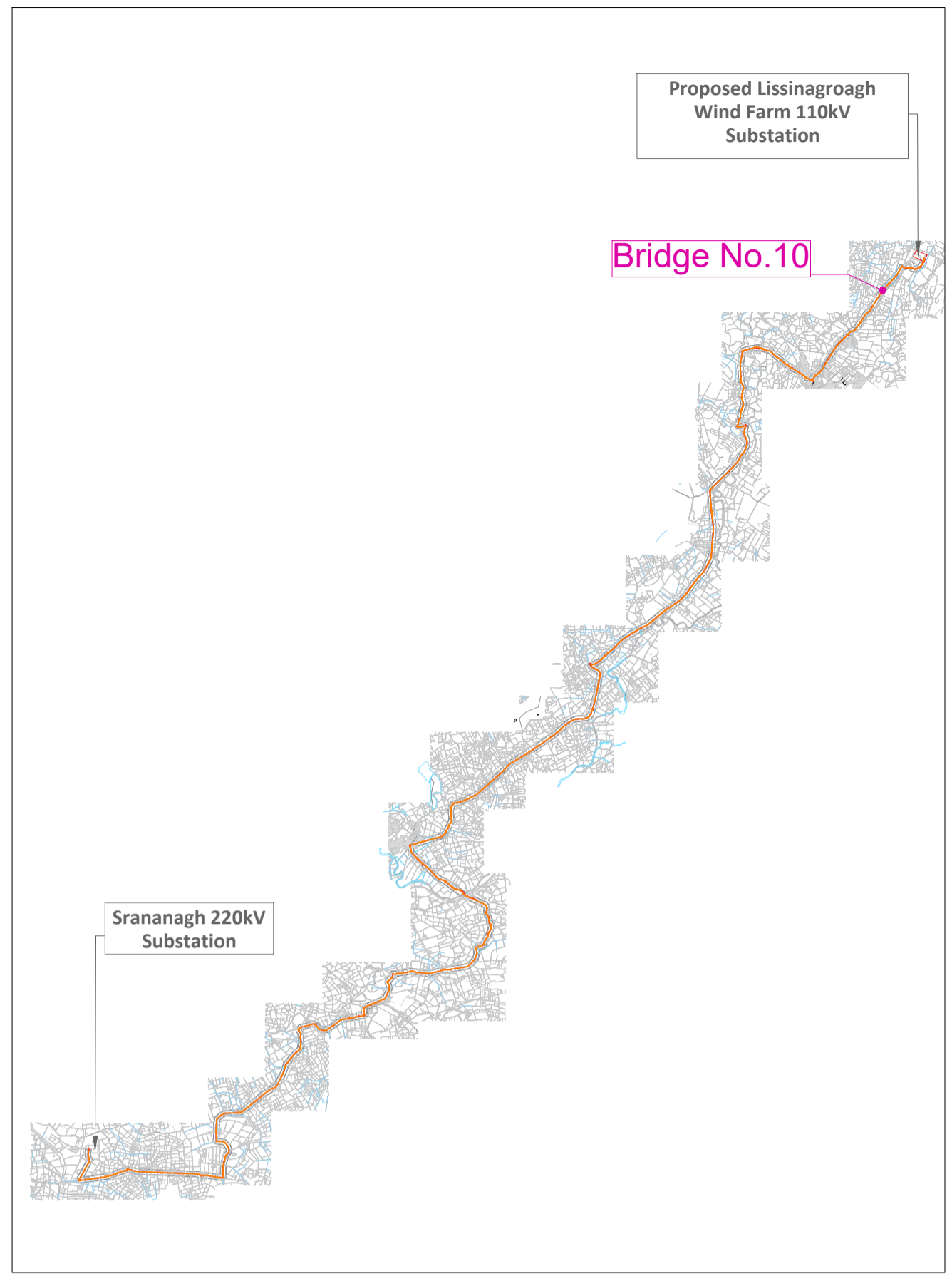
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LEGEND:
Proposed 110kV Grid Connection
Underground Cable Route (13.86km)
UGC Cable route chainage
Red Line Planning Boundary
River



Bridge 10- Layout Plan
Scale : 1:500



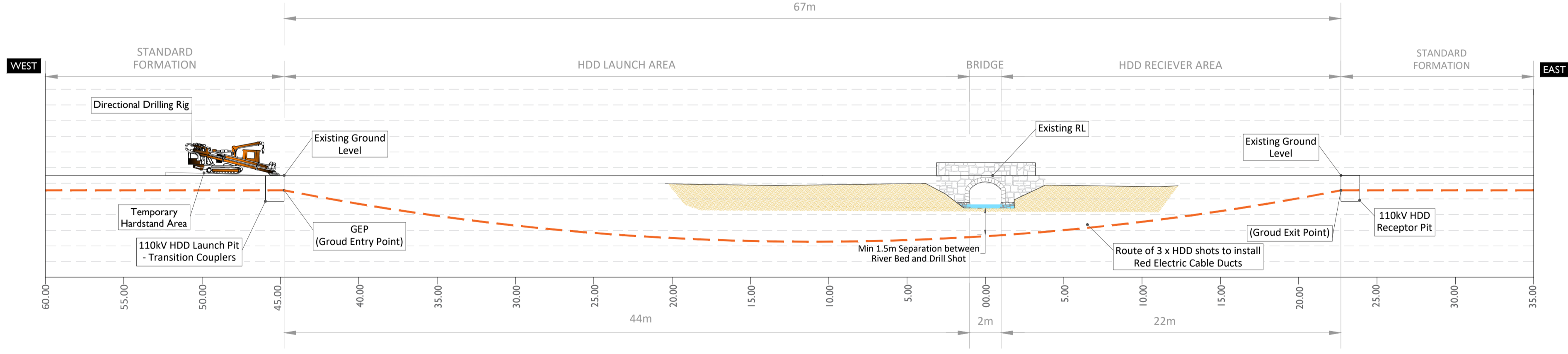
Key Plan



Image - 1

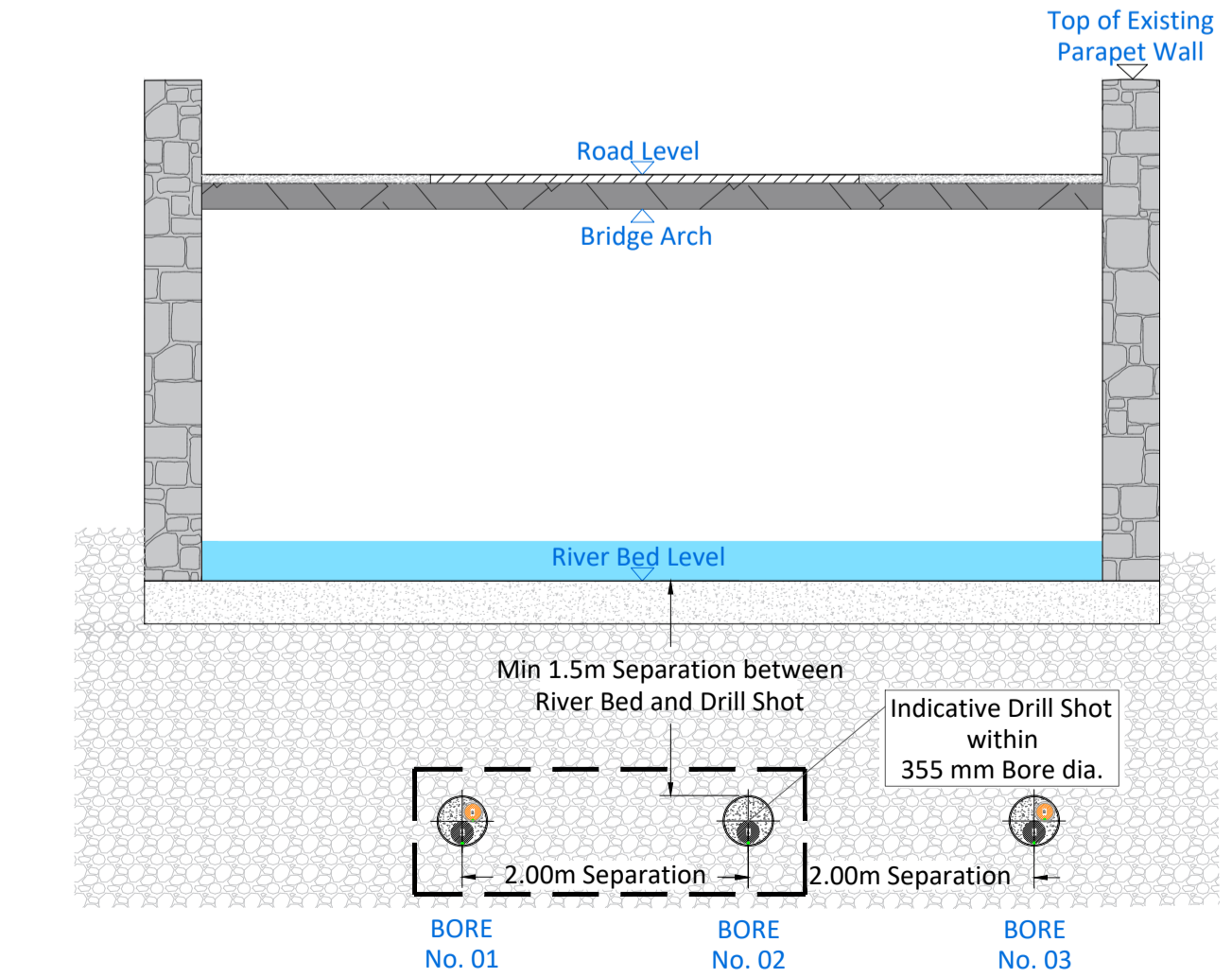


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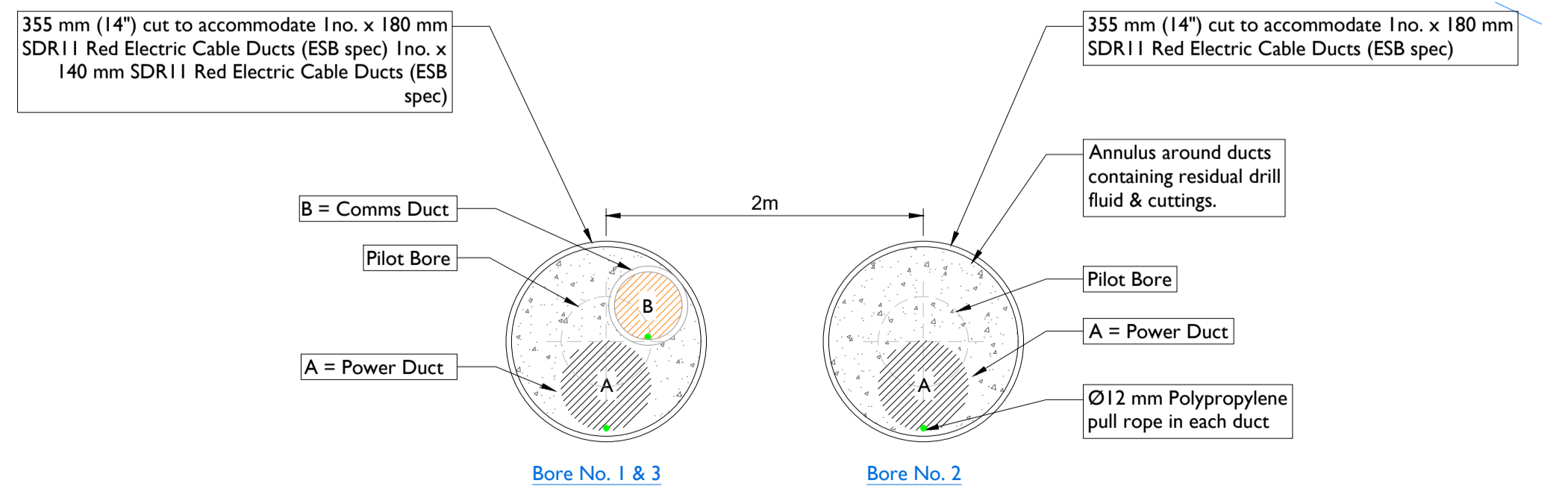


Section A-A (Longitudinal Cross Section)
Scale : 1:500

HDD Schedule	
110kV	Circuit
	3 x 180 SDR 11 Red Electric Ducts 2 x 140 mm SDR 11 Red Electric Ducts
Entry (GEP) Co-Ordinates	X = 589555.3235 Y = 841387.3884
Exit (GXP) Co-Ordinates	X = 589593.5549 Y = 841441.7086
HDD Length	• Horizontal Distance - 67.00 m
	• Curve Distance - 67.88 m
All HDD ducts to comply with ESB Specification	



Section B-B
Scale : 1:200



Detail - A
Scale : 1:10



Head Office
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Ireland
Tel: 00353 66 7135710

PROJECT

Lissinagroagh Wind Farm
110kV Grid Connection

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CONSULTANTS

NOTES: -

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- Drawings are not to be scaled use figured dimensions only.

LEGEND: -

Proposed 110kV Grid Connection
Underground Cable Route (13.86km)
Red Line Planning Boundary
River

ISSUE/REVISION		
P01	21.04.2026	Issued for Planning
P00	20.04.2026	Issued for Planning
I/R	DATE	DESCRIPTION

PROJECT NUMBER

05-773

SHEET TITLE

Bridge 10 - HDD Crossing Details
L 6180

SHEET NUMBER

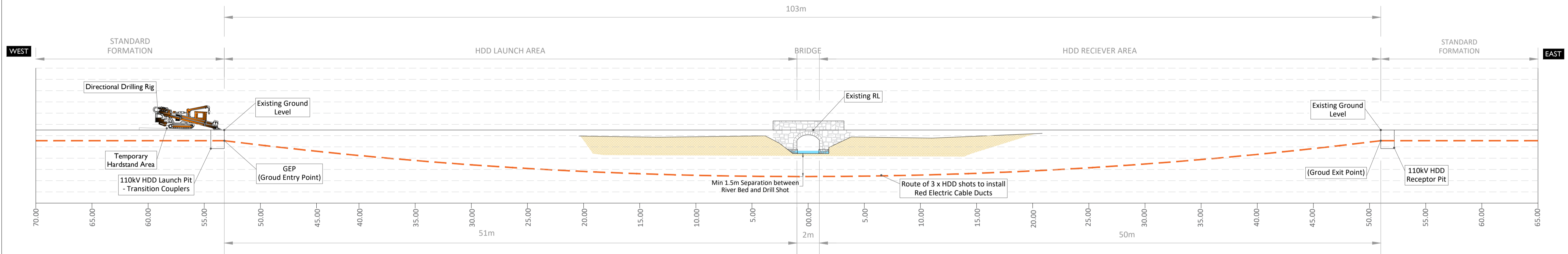
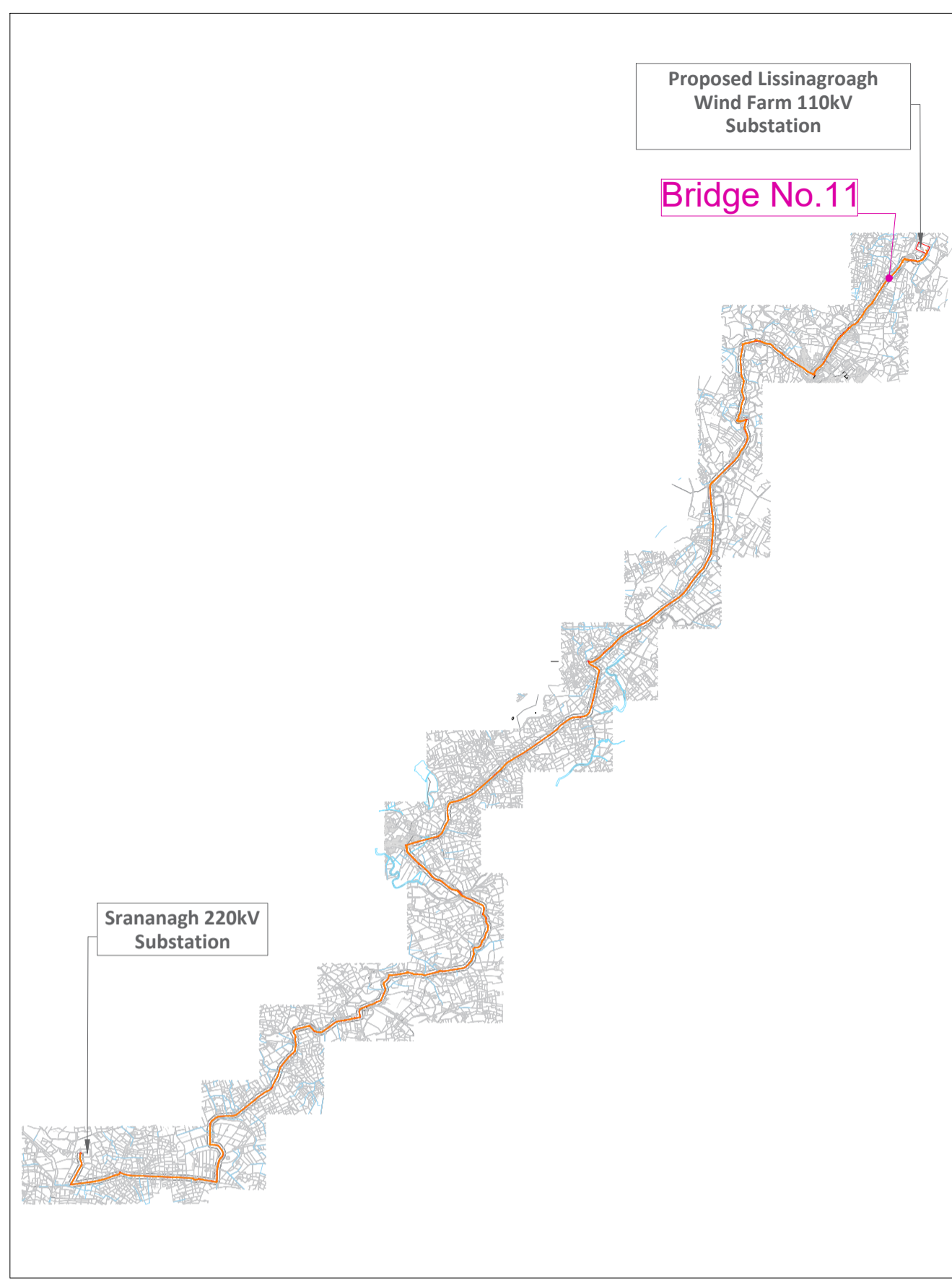
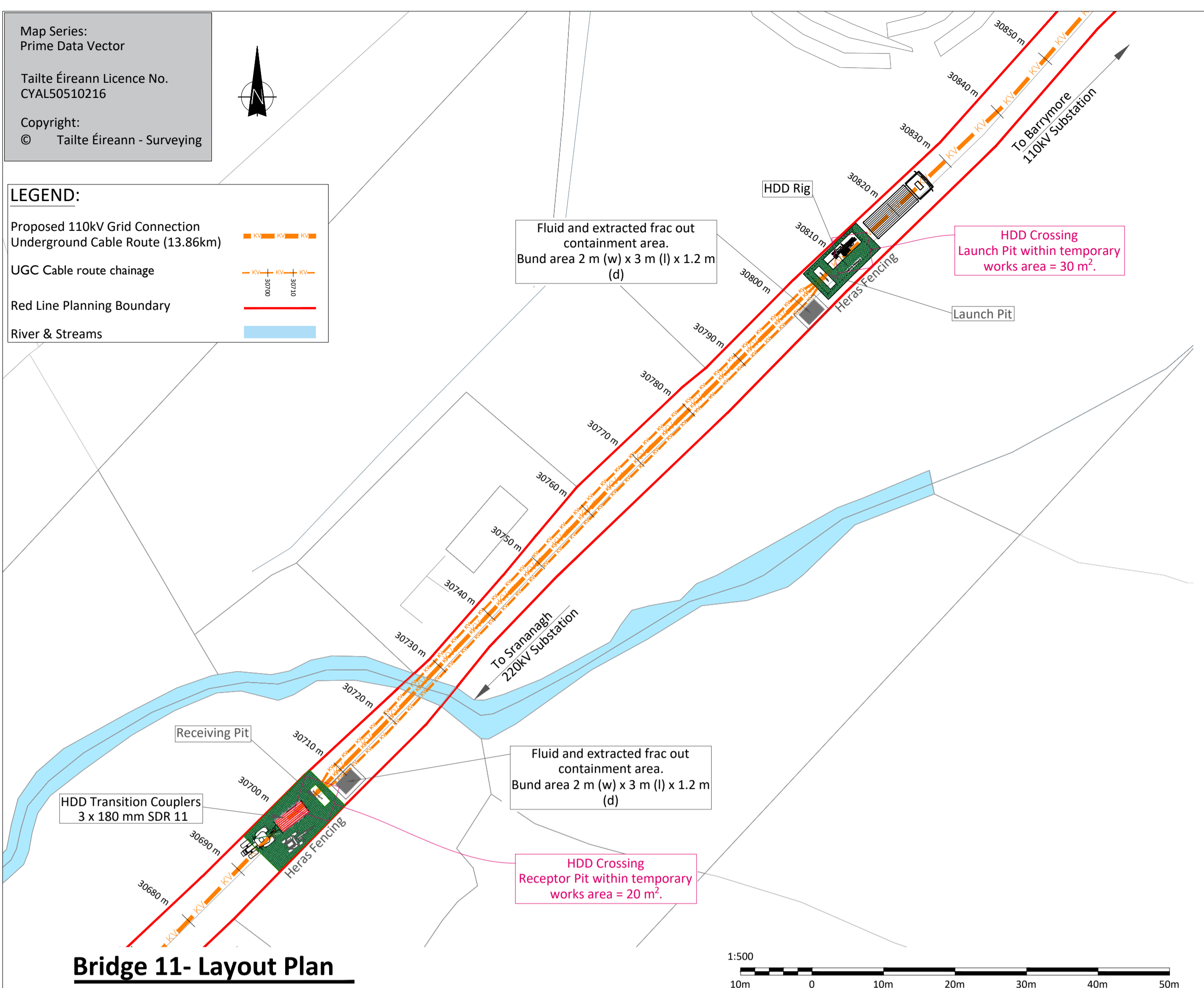
05773-DR-161

Project Management Initials: Designer: NS Checked: GS Approved: DB

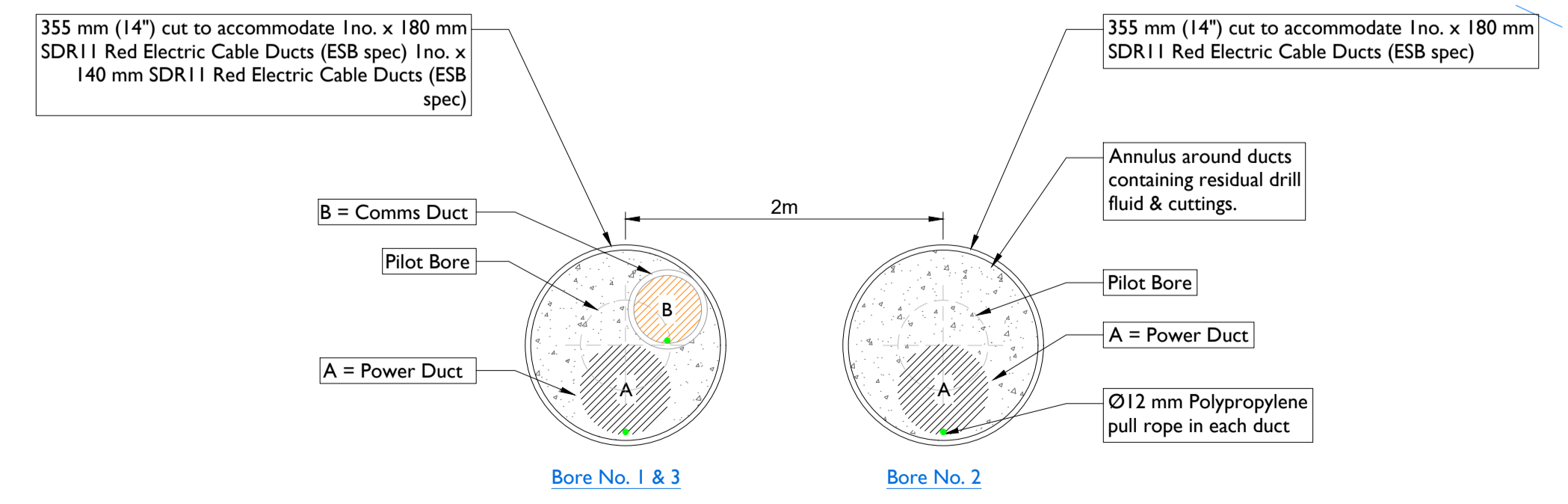
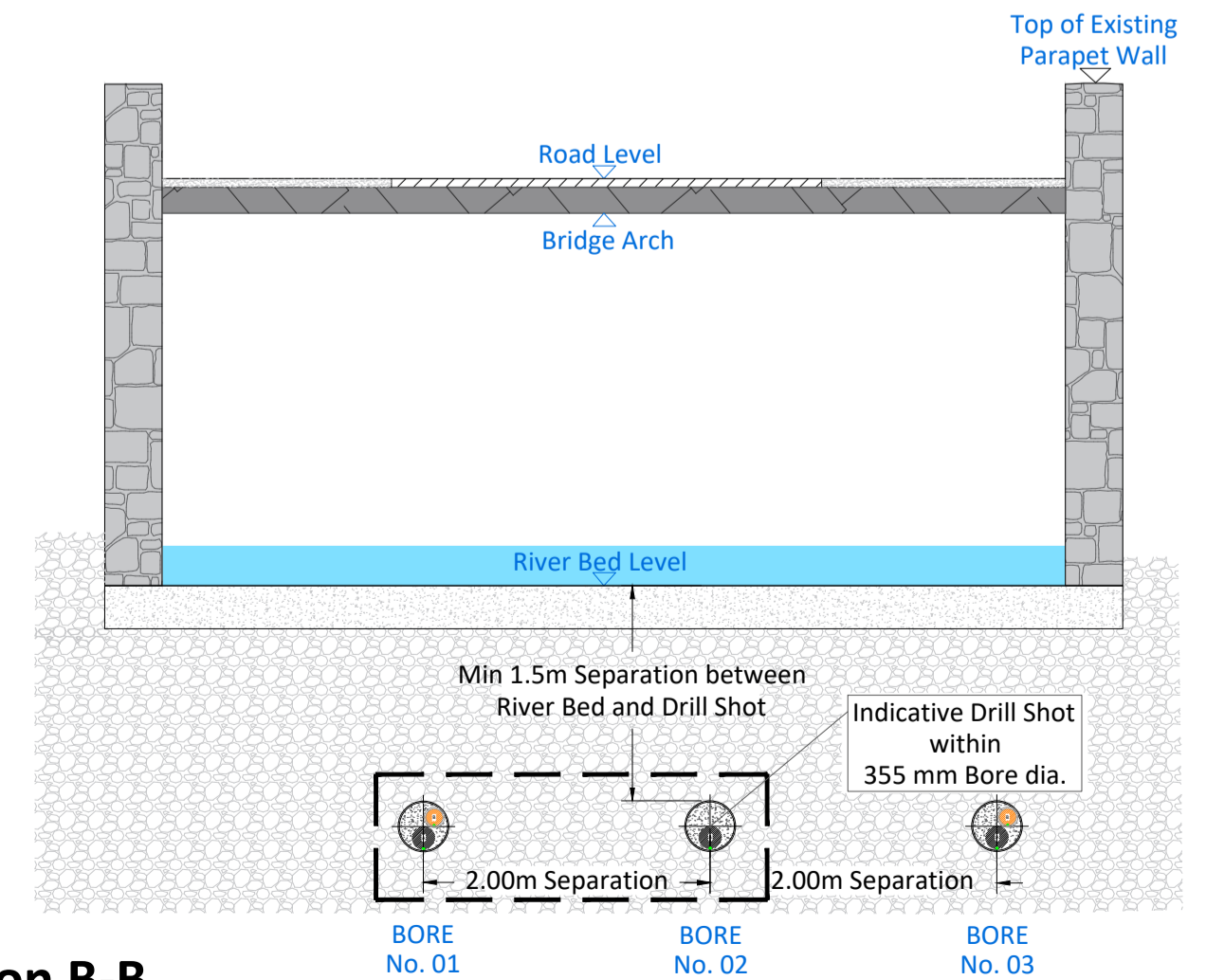


LEGEND:

- Proposed 110kV Grid Connection Undergroud Cable Route (13.86km)
- UGC Cable route chainage
- Red Line Planning Boundary
- River & Streams



HDD Schedule	
110kV	Circuit 3 x 180 SDR 11 Red Electric Ducts 2 x 140 mm SDR 11 Red Electric Ducts
Entry (GEP) Co-Ordinates	X = 589695.7560 Y = 841546.0484
Exit (GXP) Co-Ordinates	X = 589624.4280 Y = 841472.7055
HDD Length	• Horizontal Distance - 103.00 m • Curve Distance - 103.26 m
All HDD ducts to comply with ESB Specification	



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

PROJECT
Lissinagroagh Wind Farm
110kV Grid Connection



CONSULTANTS

- NOTES: -**
- The proposals are subject to detailed design approval.
 - Position of HDD launch/reception points will be selected following site investigations and detailed design.
 - Dimensions are in metres, & coordinate system is ITM, unless noted otherwise.
 - Drawings are not to be scaled use figured dimensions only.

LEGEND: -

- Proposed 110kV Grid Connection Undergroud Cable Route (13.86km)
- Red Line Planning Boundary
- River & Streams

ISSUE/REVISION	DATE	DESCRIPTION
P01	21.04.2026	Issued for Planning
P00	20.04.2026	Issued for Planning
I/R	DATE	DESCRIPTION

PROJECT NUMBER
05-773
SHEET TITLE
Bridge 11 - HDD Crossing Details
L 6180

SHEET NUMBER
05773-DR-162