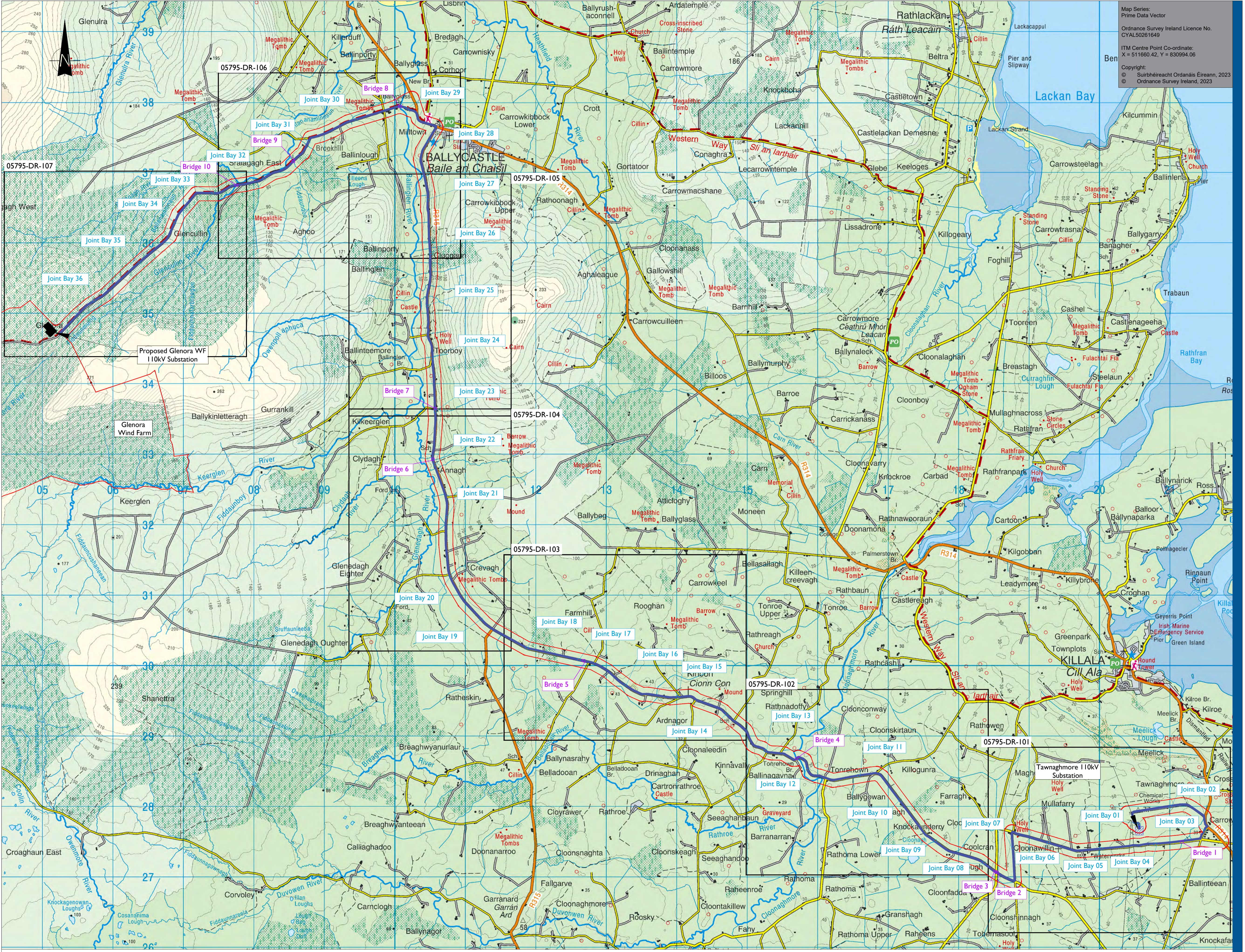


ISO A1 594mm x 841mm
 Project Management Initials: Designer: JC
 Checked: PCS
 Approved: GH



Map Series:
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PROJECT

Glenora Wind Farm 110kV Grid Connection

CLIENT

FuturaEnergy

CONSULTANTS

SSE
 Renewables

MKO

- NOTES:-
- All proposed routes shown are for EIA screening only at this stage and are subject to further assessment.
 - Path of cable route and location of associated Joint Bays, Link Boxes and Comms Chambers may vary depending on site conditions.
 - Other services may be encountered along the route.

LEGEND:-

- UGC Route (Aprox 28.048km)
- EIAR Assessment Area
- Joint Bay Locations shown thus
- Bridges
- Tawnaghmore 110kV Substation

ISSUE/REVISION

ISSUE	DATE	DESCRIPTION
F04	01.11.23	Issued for Information
F03	27.06.23	Issued for Information
F02	01.07.22	Issued for Information
F01	03.06.21	Issued for Information
F00	13.05.21	Issued for Information
I/R	DATE	DESCRIPTION

PROJECT NUMBER
05-795

SHEET TITLE
Overall Site Location Map

SHEET NUMBER
05795-DR-100

Overall Site Location Map
 SCALE : 1 : 25,000



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PROJECT

Glenora Wind Farm 110kV Grid Connection

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- NOTES: -
- All proposed routes shown are for EIA screening only at this stage and are subject to further assessment.
 - Path of cable route and location of associated Joint Bays, Link Boxes and Comms Chambers may vary depending on site conditions.
 - Other services may be encountered along the route.

LEGEND: -

UGC Route (Approx 28.048km)	
EIAR Assessment Area	
River & Lake Network	
Joint Bay Locations shown thus	
Bridge Locations shown thus	
Culvert Locations shown thus	
LV OH ESB Network shown thus	
MV OH ESB Network shown thus	
HV OH ESB Network shown thus	
HV UG ESB Network shown thus	
MV UG ESB Network shown thus	
Monuments & Zones of Notification shown thus	

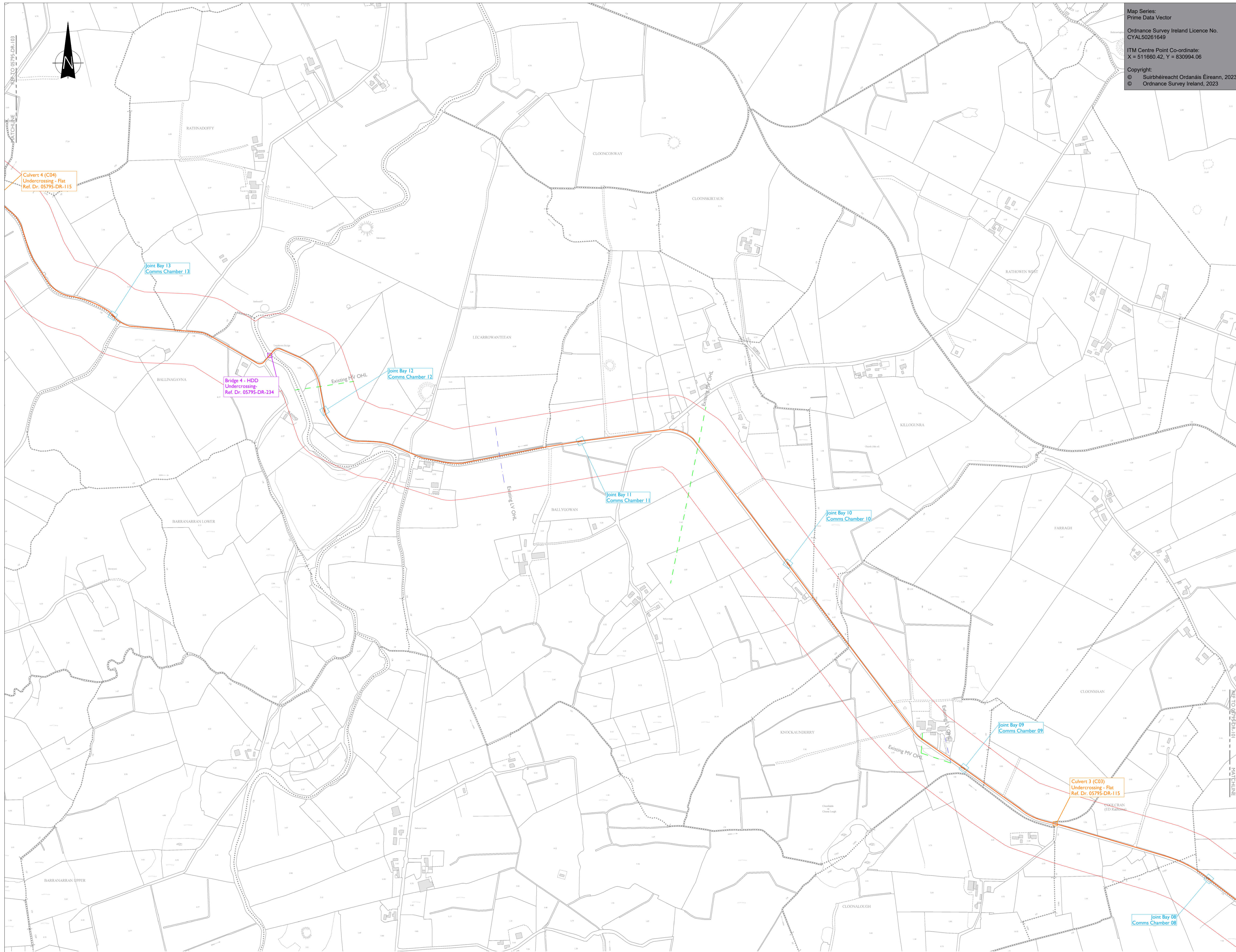
ISSUE/REVISION

NO	DATE	DESCRIPTION
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F03	27.06.23	Issued for Information
F02	01.07.22	Issued for Information
F01	03.06.21	Issued for Information
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PROJECT NUMBER
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SHEET TITLE
Site Layout Plan
Sheet 1 of 7

SHEET NUMBER
05795-DR-101



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PROJECT

Glenora Wind Farm 110kV Grid Connection

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- NOTES: -
- All proposed routes shown are for EIA screening only at this stage and are subject to further assessment.
 - Path of cable route and location of associated Joint Bays, Link Boxes and Comms Chambers may vary depending on site conditions.
 - Other services may be encountered along the route.

LEGEND: -

UGC Route (Aprox 28.048km)	
EIAR Assessment Area	
River & Lake Network	
Joint Bay Locations shown thus	
Bridge Locations shown thus	
Culvert Locations shown thus	
LV OH ESB Network shown thus	
MV OH ESB Network shown thus	
MV UG ESB Network shown thus	
Momuments & Zones of Notification shown thus	

ISSUE/REVISION

NO	DATE	DESCRIPTION
F03	01.11.23	Issued for Information
F02	01.07.22	Issued for Information
F01	03.06.21	Issued for Information
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PROJECT NUMBER
05-795

SHEET TITLE
Site Layout Plan
Sheet 2 of 7

SHEET NUMBER
05795-DR-102



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PROJECT

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NOTES: -

- All proposed routes shown are for EIA screening only at this stage and are subject to further assessment.
- Path of cable route and location of associated Joint Bays, Link Boxes and Comms Chambers may vary depending on site conditions.
- Other services may be encountered along the route.

LEGEND: -

- UGC Route (Aprox 28.048km)
- EIAR Assessment Area
- River & Lake Network
- Joint Bay Locations shown thus
- Bridge Locations shown thus
- Culvert Locations shown thus
- LV OH ESB Network shown thus
- MV OH ESB Network shown thus
- MV UG ESB Network shown thus
- Monuments & Zones of Notification shown thus

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I/R	DATE	DESCRIPTION
F03	27.06.23	Issued for Information
F02	01.07.22	Issued for Information
F01	03.06.21	Issued for Information
F00	13.05.21	Issued for Information

PROJECT NUMBER

05-795

SHEET TITLE

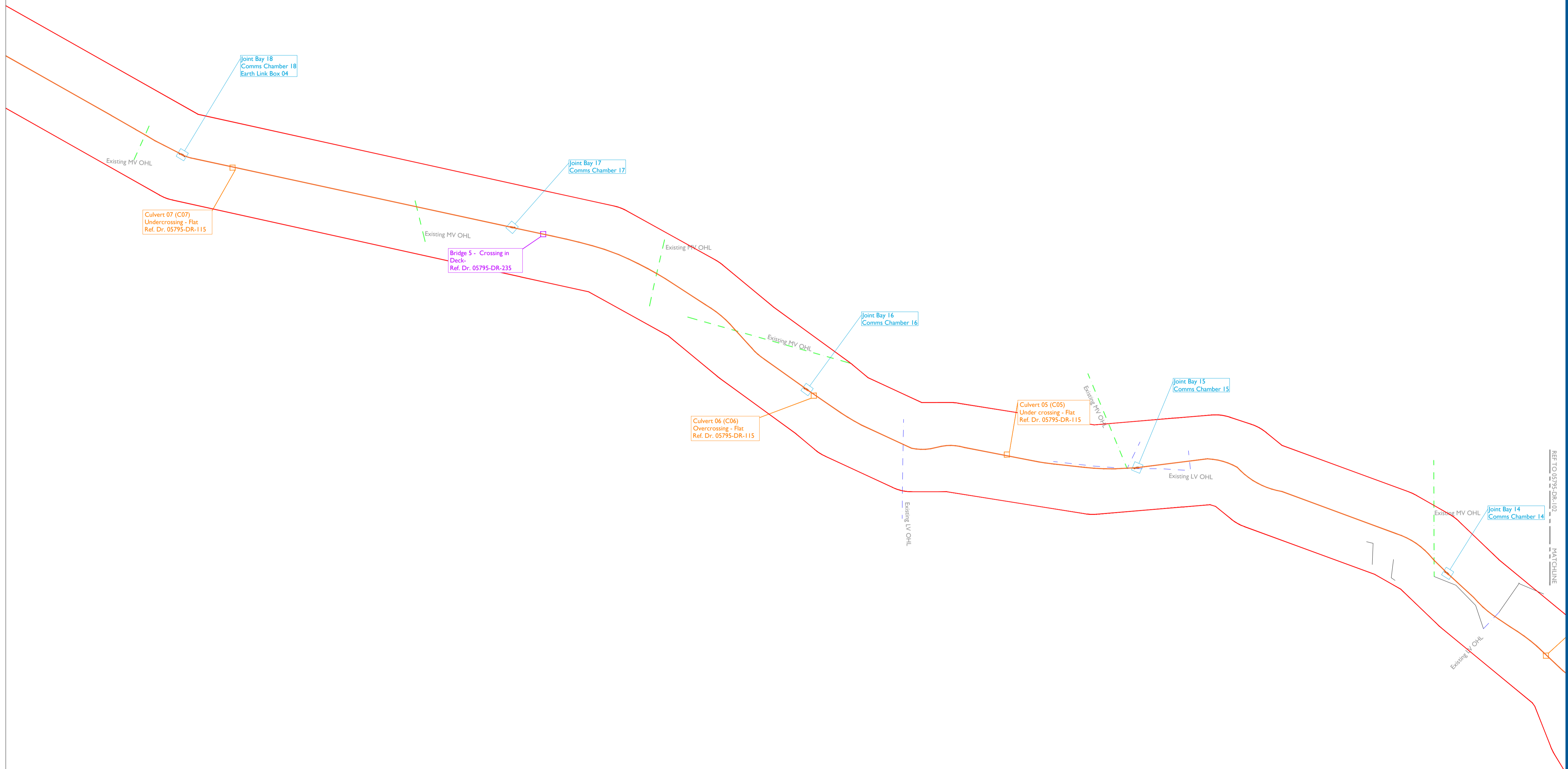
Site Layout Plan
Sheet 3 of 7

SHEET NUMBER

05795-DR-103

Site Layout Plan (Sh. 3 of 7)

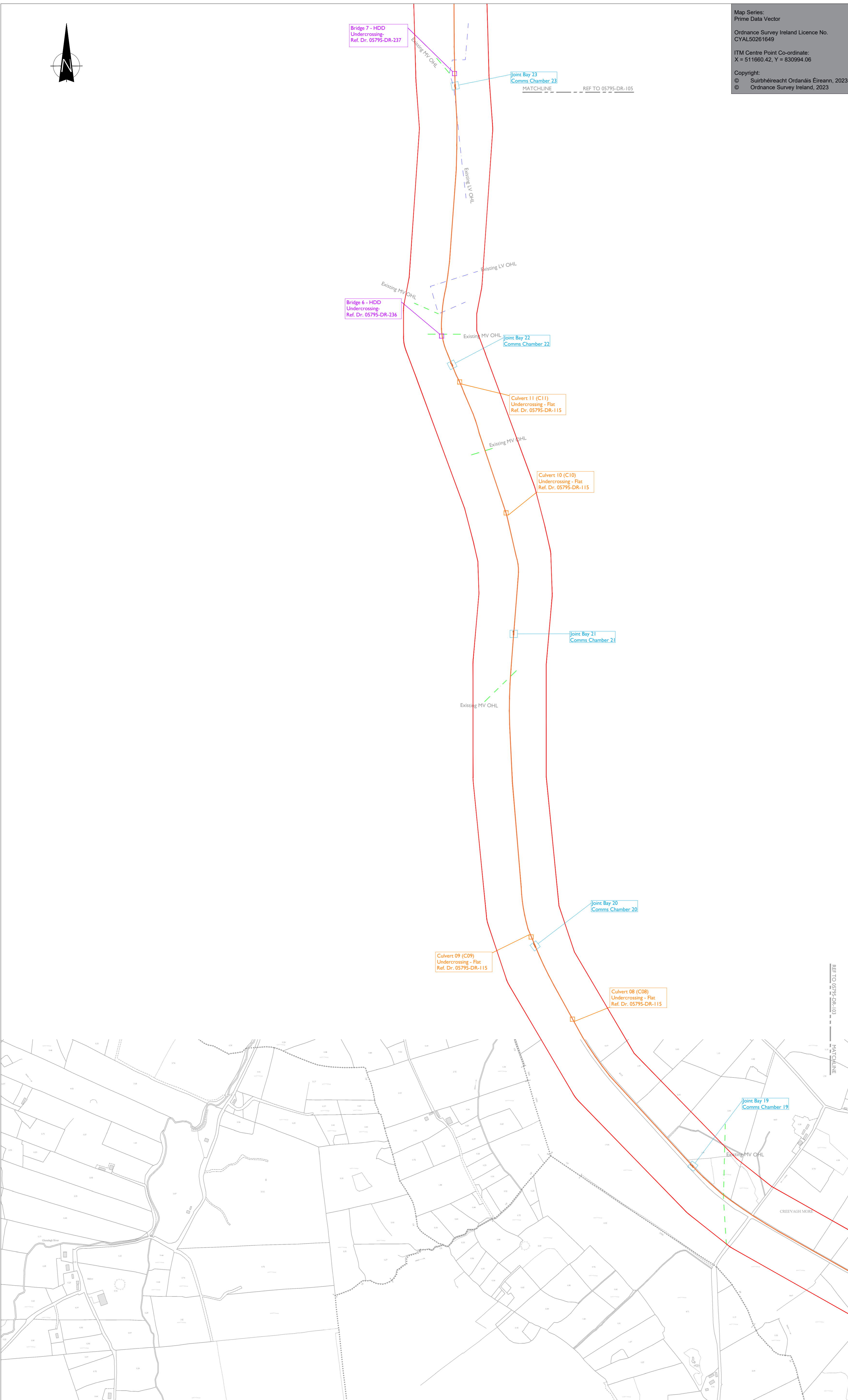
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LEGEND: -

UGC Route (Approx 28.048km)	
EIAR Assessment Area	
River & Lake Network	
Joint Bay Locations shown thus	
Bridge Locations shown thus	
Culvert Locations shown thus	
LV OH ESB Network shown thus	
MV OH ESB Network shown thus	
Momuments & Zones of Notification shown thus	



NOTES: -

- All proposed routes shown are for EIAR screening only at this stage and are subject to further assessment.
- Path of cable route and location of associated Joint Bays, Link Boxes and Comms Chambers may vary depending on site conditions.
- Other services may be encountered along the route.

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PROJECT

Glenora Wind Farm 110kV Grid Connection

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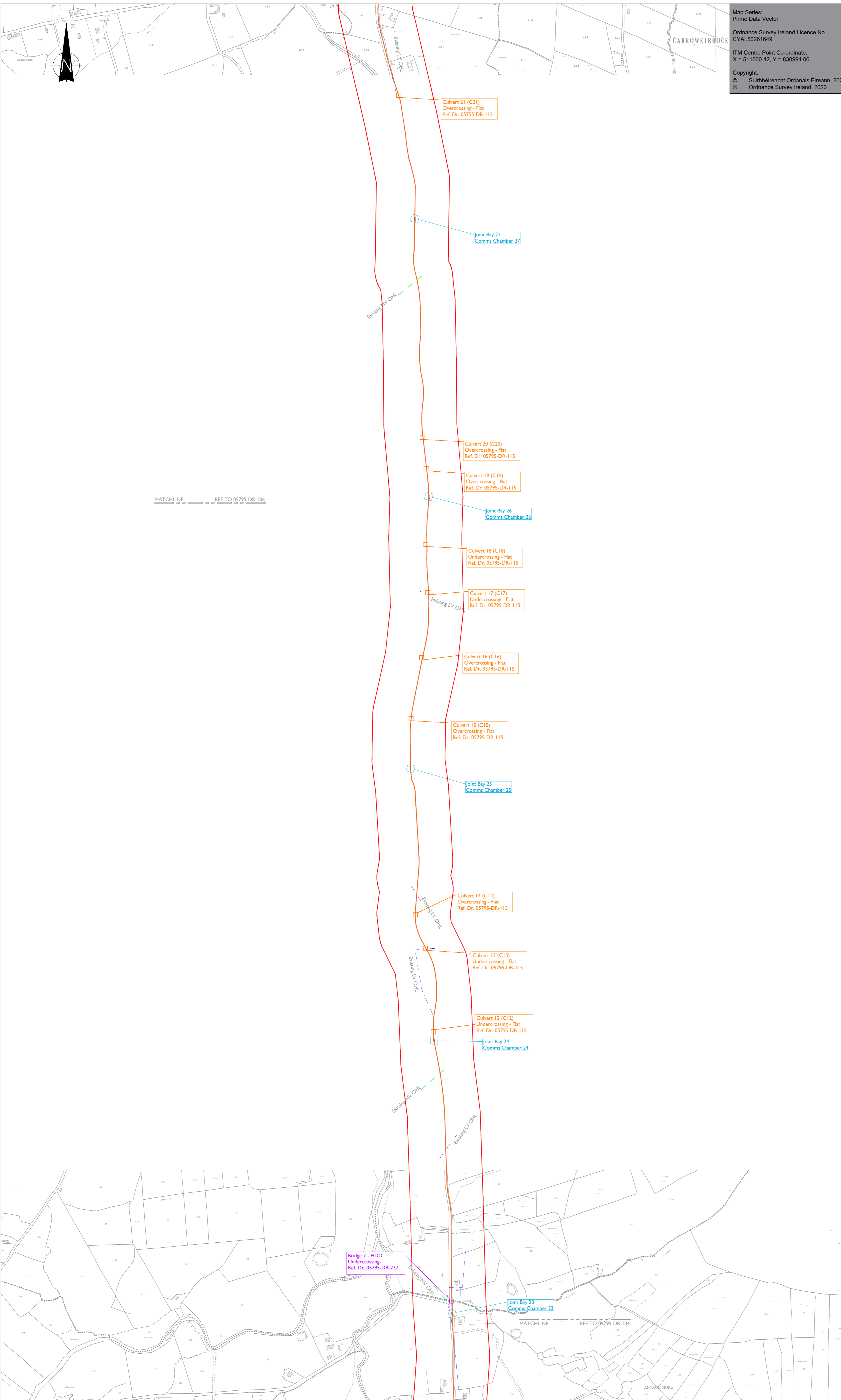
PROJECT NUMBER
05-795

SHEET TITLE
Site Layout Plan
Sheet 4 of 7

SHEET NUMBER
05795-DR-104

Site Layout Plan (Sh. 4 of 7)

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LEGEND: -

UGC Route (Approx 28.048km)	
EIAR Assessment Area	
River & Lake Network	
Joint Bay Locations shown thus	
Bridge Locations shown thus	
Culvert Locations shown thus	
LV OH ESB Network shown thus	
MV OH ESB Network shown thus	
Momuments & Zones of Notification shown thus	

- NOTES: -**
- All proposed routes shown are for EIAR screening only at this stage and are subject to further assessment.
 - Path of cable route and location of associated Joint Bays, Link Boxes and Comms Chambers may vary depending on site conditions.
 - Other services may be encountered along the route.

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F01	03.06.21	Issued for Information
F00	13.05.21	Issued for Information
I/R	DATE	DESCRIPTION

PROJECT NUMBER

05-795

SHEET TITLE

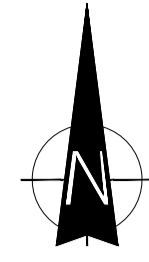
Site Layout Plan
Sheet 5 of 7

SHEET NUMBER

05795-DR-105

Site Layout Plan (Sh. 5 of 7)

SCALE :1:5000



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PROJECT

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- NOTES: -
- All proposed routes shown are for EIA screening only at this stage and are subject to further assessment.
 - Path of cable route and location of associated Joint Bays, Link Boxes and Comms Chambers may vary depending on site conditions.
 - Other services may be encountered along the route.

LEGEND: -

UGC Route (Aprox 28.048km)	
EIAR Assessment Area	
River & Lake Network	
Joint Bay Locations shown thus	
Bridge Locations shown thus	
Culvert Locations shown thus	
LV OH ESB Network shown thus	
MV OH ESB Network shown thus	
Momuments & Zones of Notification shown thus	

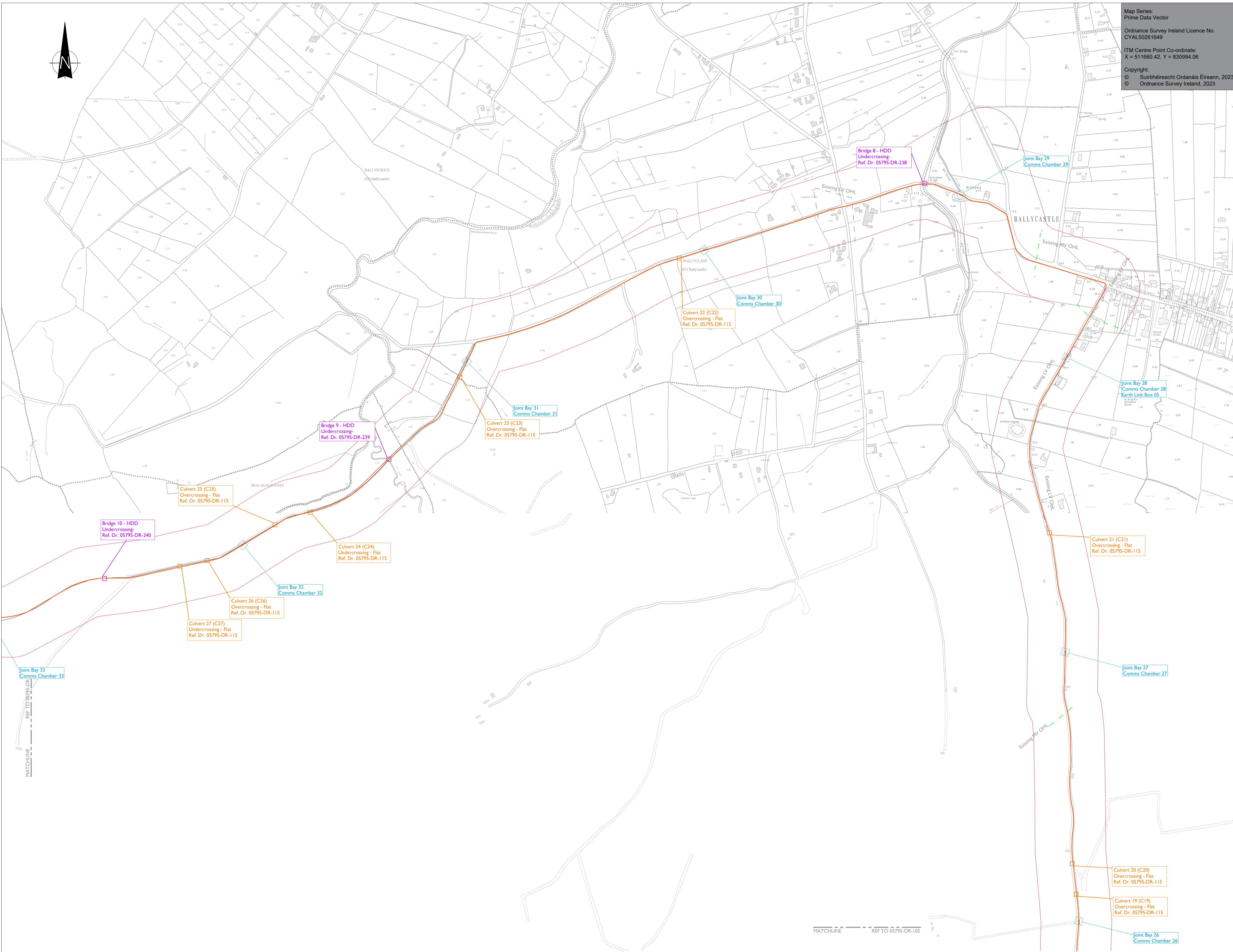
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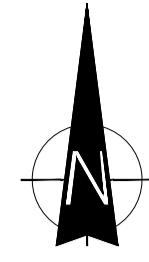
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F02	01.07.22	Issued for Information
F01	03.06.21	Issued for Information
F00	13.05.21	Issued for Information

PROJECT NUMBER
05-795

SHEET TITLE
**Site Layout Plan
Sheet 6 of 7**

SHEET NUMBER
05795-DR-106





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PROJECT

**Glenora Wind Farm
110kV Grid Connection**

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CONSULTANTS



- NOTES: -**
- All proposed routes shown are for EIA screening only at this stage and are subject to further assessment.
 - Path of cable route and location of associated Joint Bays, Link Boxes and Comms Chambers may vary depending on site conditions.
 - Other services may be encountered along the route.

- LEGEND: -**
- UGC Route (Aprox 28.048km)
 - EIAR Assessment Area
 - Glenora Wind Farm
 - River & Lake Network
 - Joint Bay Locations shown thus
 - Culvert Locations shown thus
 - Turbine Falling Distance

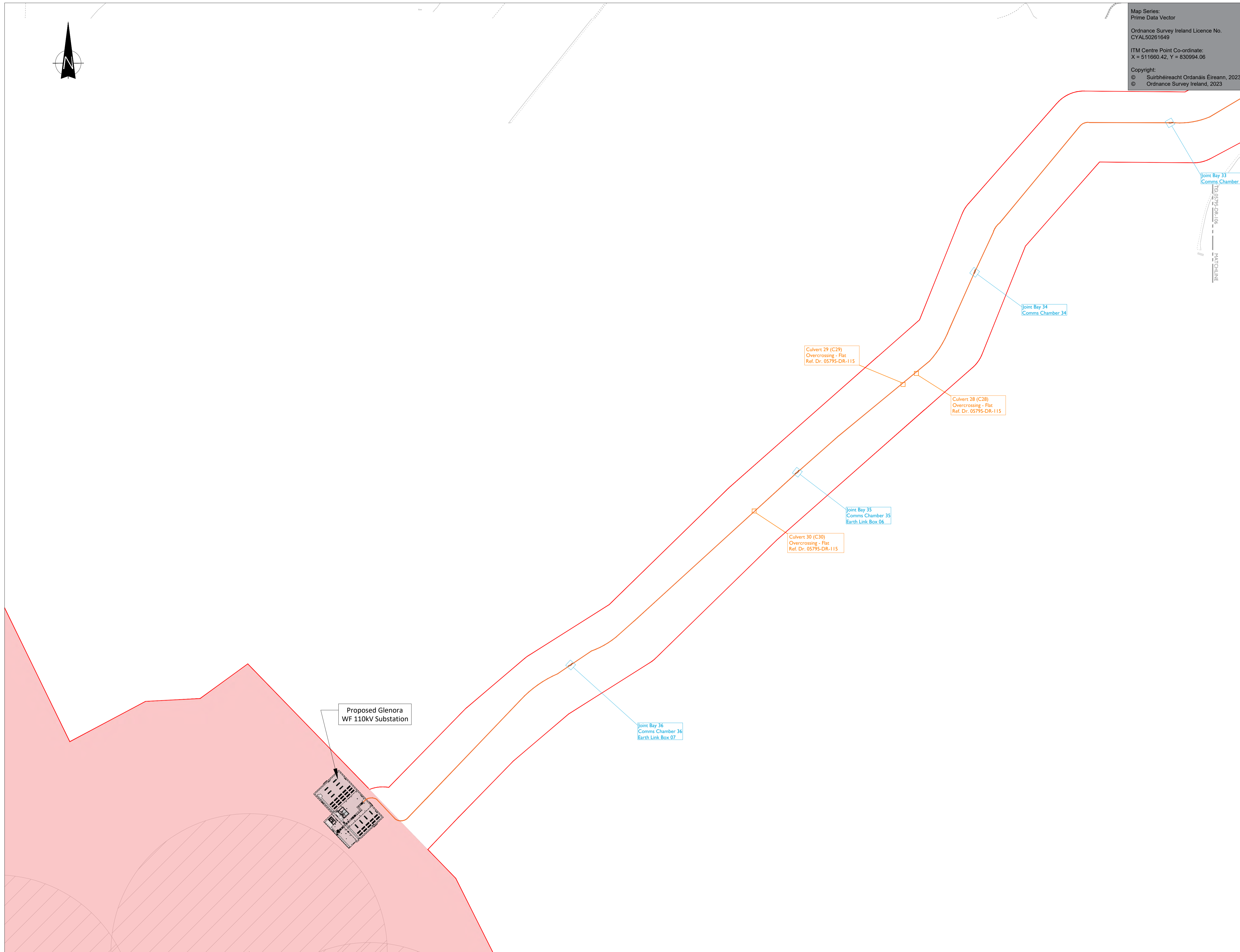
ISSUE/REVISION

I/R	DATE	DESCRIPTION
F03	27.06.23	Issued for Information
F02	01.07.22	Issued for Information
F01	03.06.21	Issued for Information
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PROJECT NUMBER
05-795

SHEET TITLE
Site Layout Plan
Sheet 7 of 7

SHEET NUMBER
05795-DR-107



Proposed Glenora
WF 110kV Substation

Joint Bay 36
Comms Chamber 36
Earth Link Box 07

Culvert 30 (C30)
Overcrossing - Flat
Ref. Dr. 05795-DR-115

Joint Bay 35
Comms Chamber 35
Earth Link Box 06

Culvert 28 (C28)
Overcrossing - Flat
Ref. Dr. 05795-DR-115

Culvert 29 (C29)
Overcrossing - Flat
Ref. Dr. 05795-DR-115

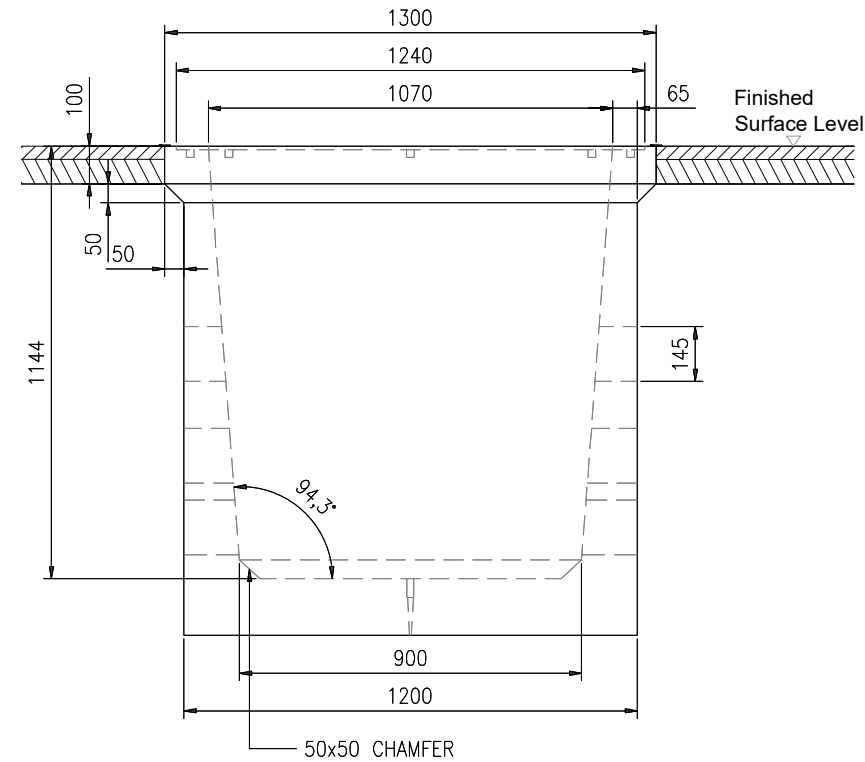
Joint Bay 34
Comms Chamber 34

Joint Bay 33
Comms Chamber 33

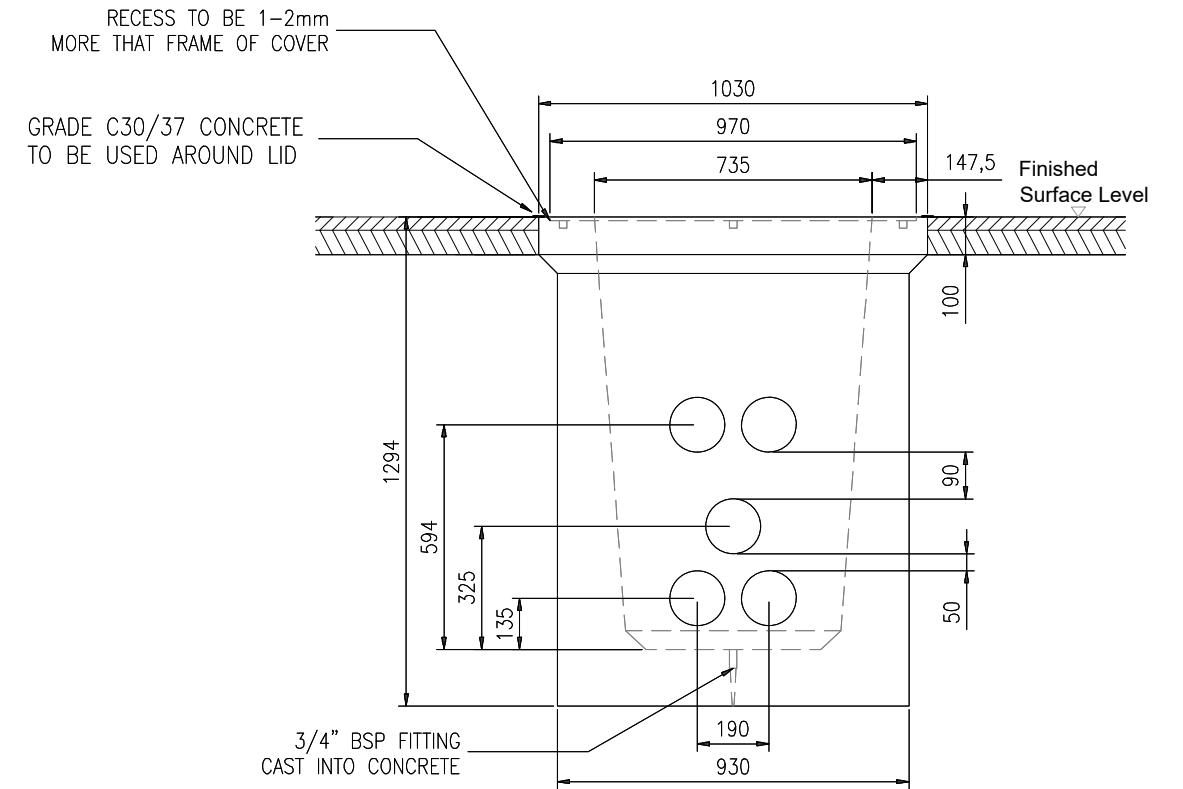
Site Layout Plan (Sh. 7 of 7)
SCALE :1:5000

NOTES:

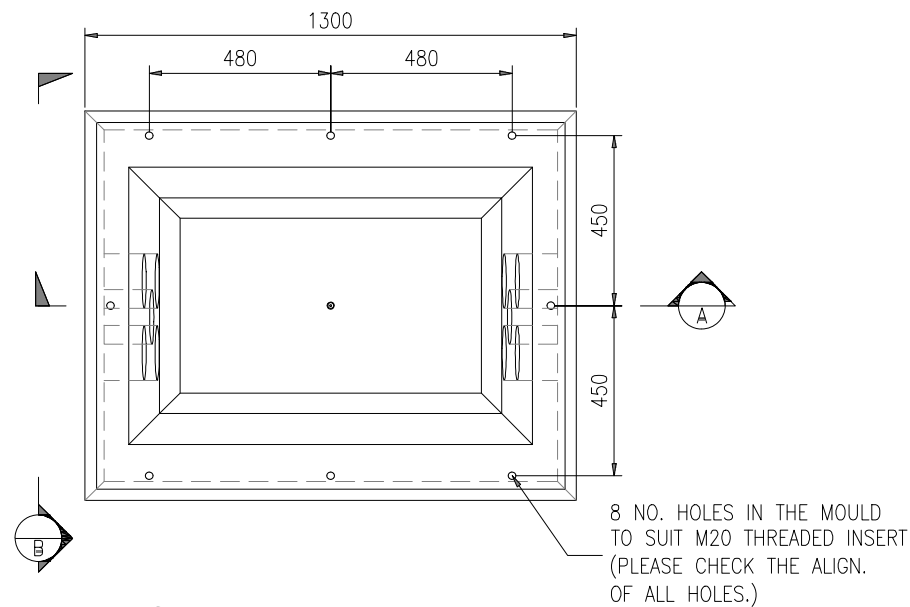
1. This drawing is to be read in conjunction with relevant drawings, specifications and reports.
2. Dimensions are in millimetres, unless noted otherwise.
3. Drawings are not to be scaled use figured dimensions only.
4. Reinstatement to comply with requirements of the relevant local Authority/Asset owner
5. Entrance & Exit ducts to be in line
6. All material and workmanship to be in accordance with the NRA./TII specification for Roadworks, May 2005 and subsequent revisions
7. 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.
8. Carraigeway covers and frames to be to B.S. 124.
9. All covers to have ESB logo incorporated in them to the approval of Eirgrid
10. Step irons to be hot dipped galvanized to B.S. 729 and positioned as shown on any chamber deeper than 700mm on the end remote from any side entry duct.
11. Concrete precast chamber and cover should be tested through a 5 point 40 tonnes vertical static loading test by an independent test company, if required, further details will be provided by Eirgrid.
12. Final position of C2 chambers shall be agreed with Eirgrid.
13. In a forest environment backfill with lean mix outside the cover frame.
14. This drawing is subject to Eirgrid design approval.



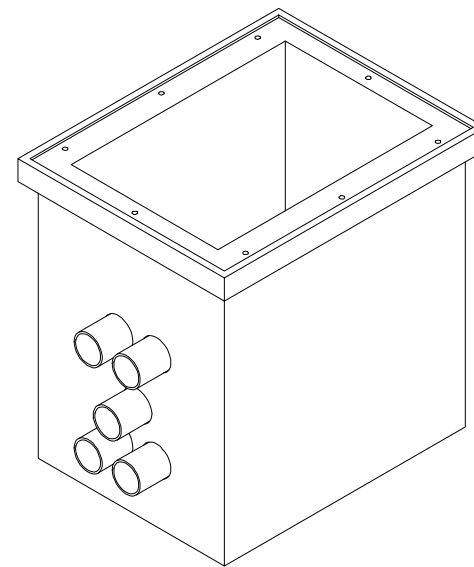
C2 Chamber Detail - Section A
SCALE 1:20



C2 Chamber Detail - Section B
SCALE 1:20



Plan of Joint Bay
SCALE 1:20



Isometric : C2 Chamber Arrangement
SCALE 1:20



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PROJECT

Glenora Wind Farm
110kV Grid Connection

PROJECT NUMBER
05-795

SHEET NUMBER
05795-DR-109

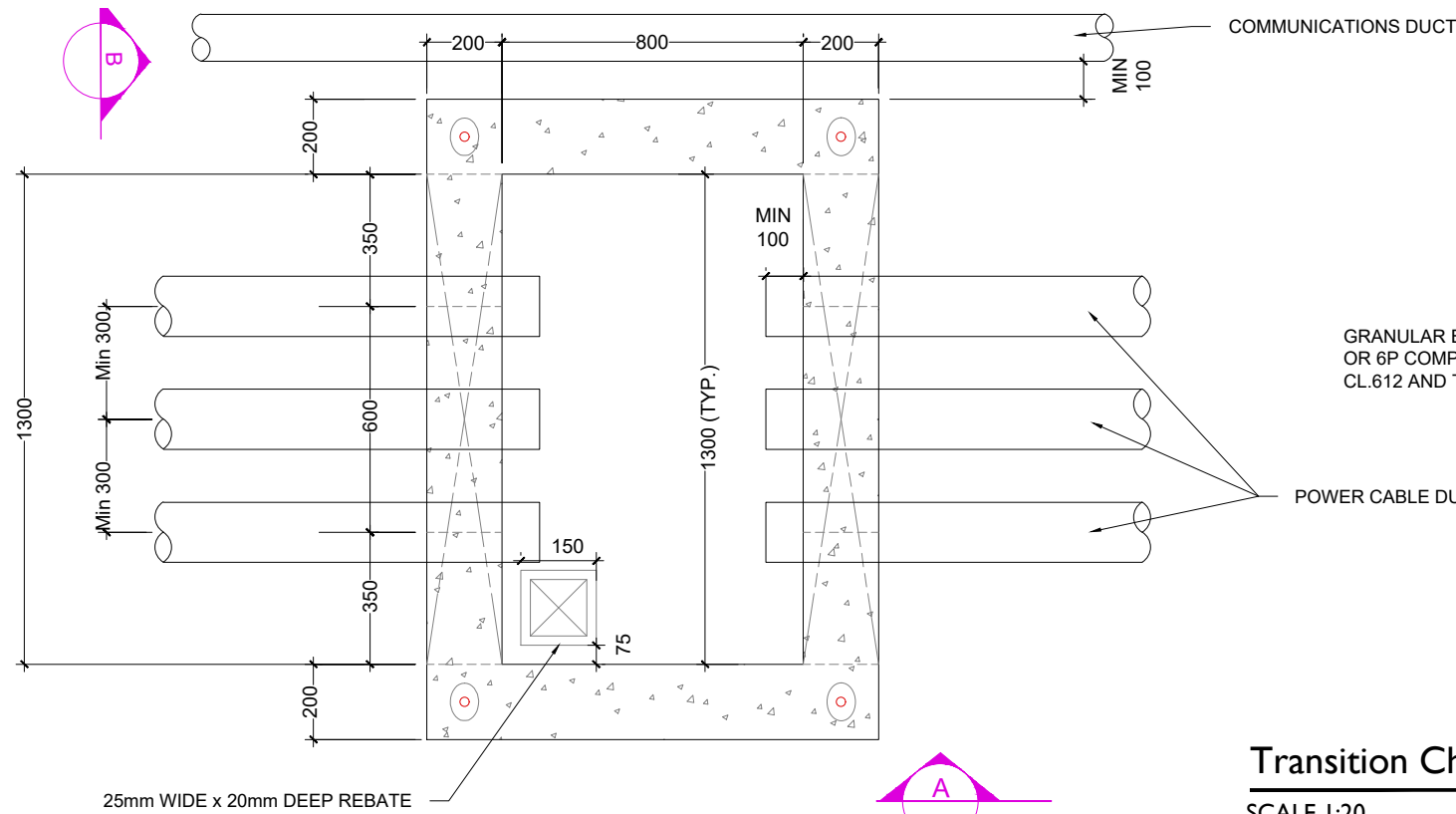
SHEET TITLE

Communications Chamber Details

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Typical Plan of Transition Chamber

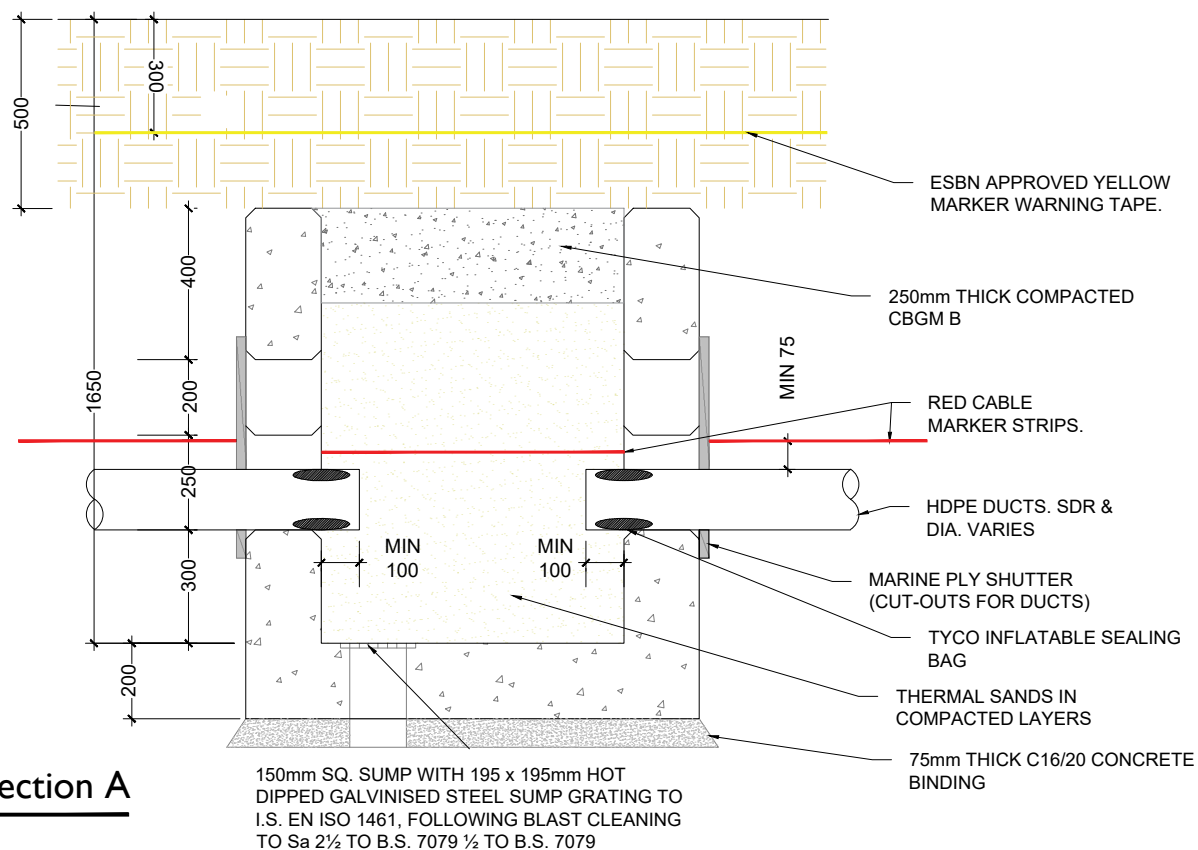
SCALE 1:20

NOTES:

1. ALL DIMENSION IN MILLIMETERS UNLESS OTHERWISE STATED,
2. TELCOM DUCTS NOT TO BE ROUTED THROUGH TRANSITION CHAMBER
3. IF TRANSITION CHAMBER IS USED TO INTERFACE WITH HDD SECTION, THEN THE TELECOMS DUCT SDR 17.6 SHOULD BE CHAMFERED WHEN COUPLED WITH SDR 11 DUCTS
4. REINSTATEMENTS TO COMPLY WITH REQUIREMENTS OF THE RELEVANT LOCAL AUTHORITY/ASSET OWNER
5. TEMPORARY SUPPORTS TO THE SIDES OF THE EXCAVATION MAY BE REQUIRED DEPENDENT ON THE SUBSOIL,
6. THE CONSTRUCTION SHOWN, IS APPLICABLE ONLY WHERE THE THE SUBSOIL AT FORMATION LEVEL EXCEEDS 100kN/m BEARING CAPACITY
7. ALL MATERIALS AND WORKMANSHIP TO BE IN ACCORDANCE WITH NRA/T.I.I. SPECIFICATION FOR ROADWORKS, MAY 2005 & SUBSEQUENT REVISIONS
8. THE CENTRE LINE OF THE DUCTS ENTERING THE CHAMBER SHALL BE ALIGNED WITH THE DUCTS ON THE OPPOSITE SIDE, SO THAT THE CABLE IS PULLED IN A STRAIGHT LINE
9. DUCTS SHALL APPROACH THE CHAMBER IN A STRAIGHT ALIGNMENT (HORIZONTAL OR VERTICAL) FOR A MINIMUM OF 3 METERS BEFORE THE WALL OPENING
10. CARRAIGEWAY COVERS AND FRAMES TO BE TO B.S EN 124.
11. THE DEPTH FROM GROUND LEVEL TO THE TOP OF WALL CONSTRUCTION SHALL BE 500mm IN CULVATED FIELDS AND GRASSED LANDS.
12. FINAL POSITION OF TRANSITION CHAMBERS SHALL BE AGREED WITH ESB/EIRGRID

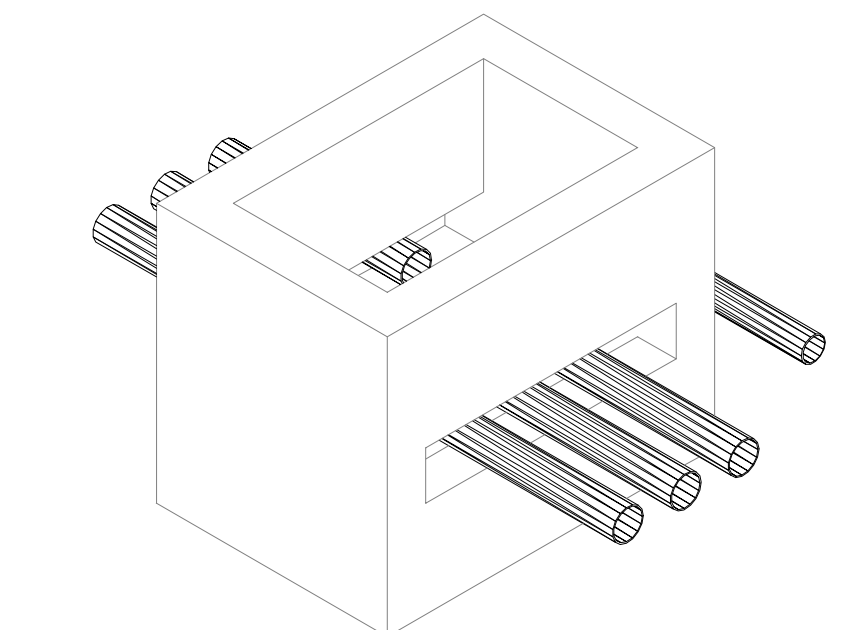
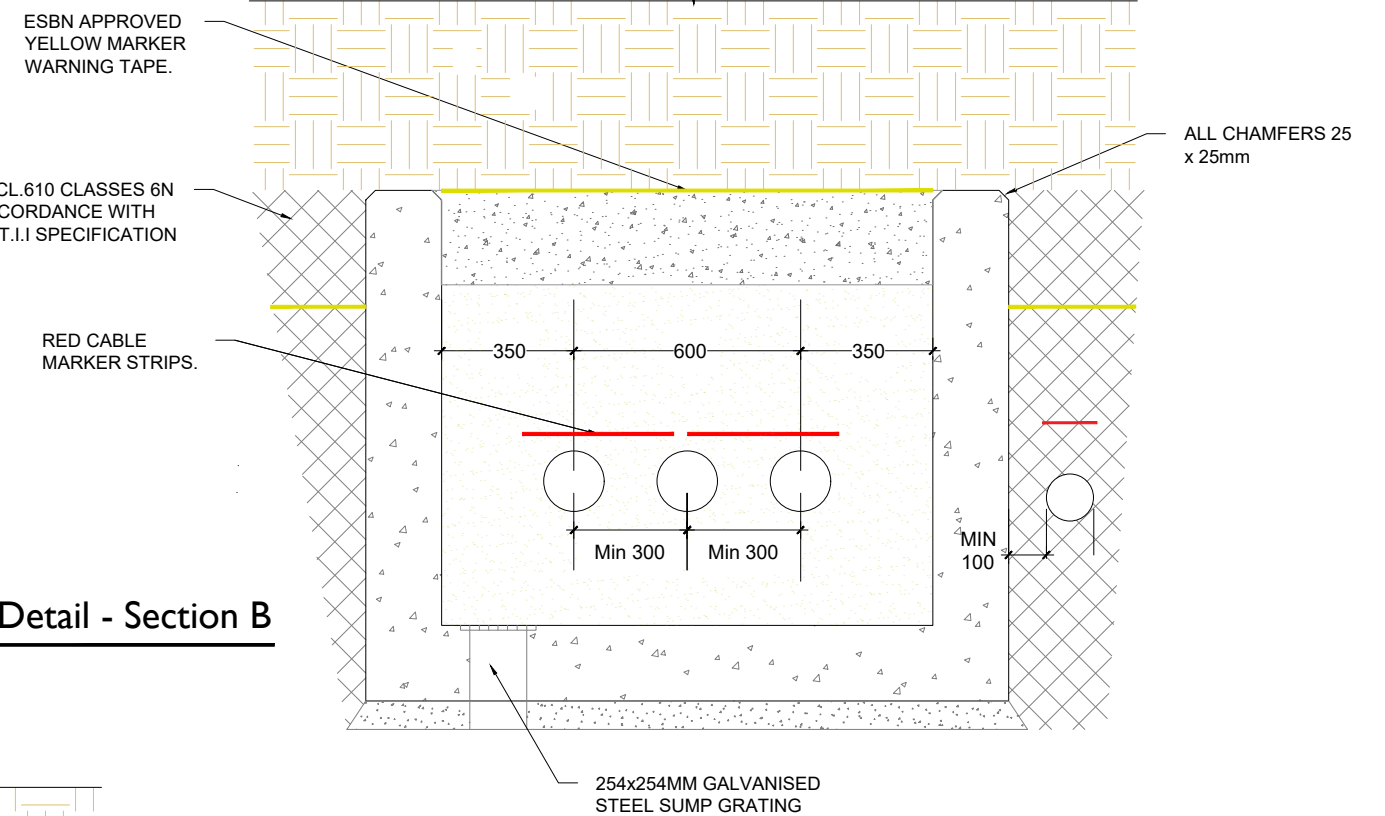
Transition Chamber Detail - Section A

SCALE 1:20



Transition Chamber Detail - Section B

SCALE 1:20



Isometric : Chamber Arrangement

SCALE 1:20



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PROJECT

Glenora Wind Farm
110kV Grid Connection

PROJECT NUMBER
05-795

SHEET NUMBER
05795-DR-110

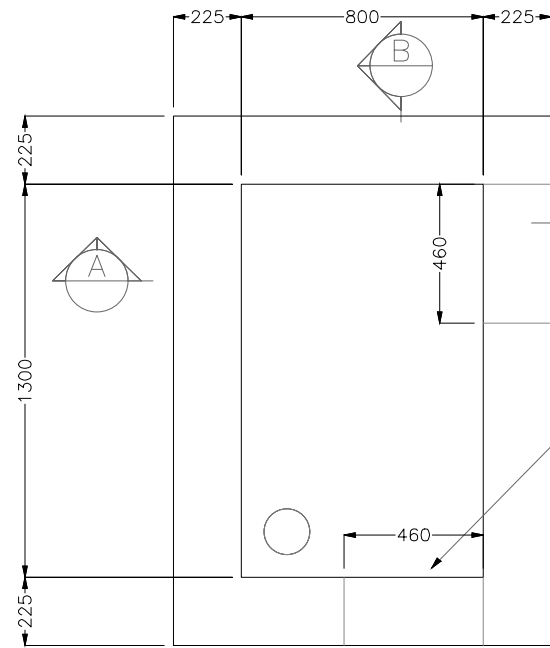
SHEET TITLE

Typical Transition
Chamber Details

DRAWING STATUS
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ISSUE/REVISION	DATE	DESCRIPTION
F00	01.07.22	Issued for Information
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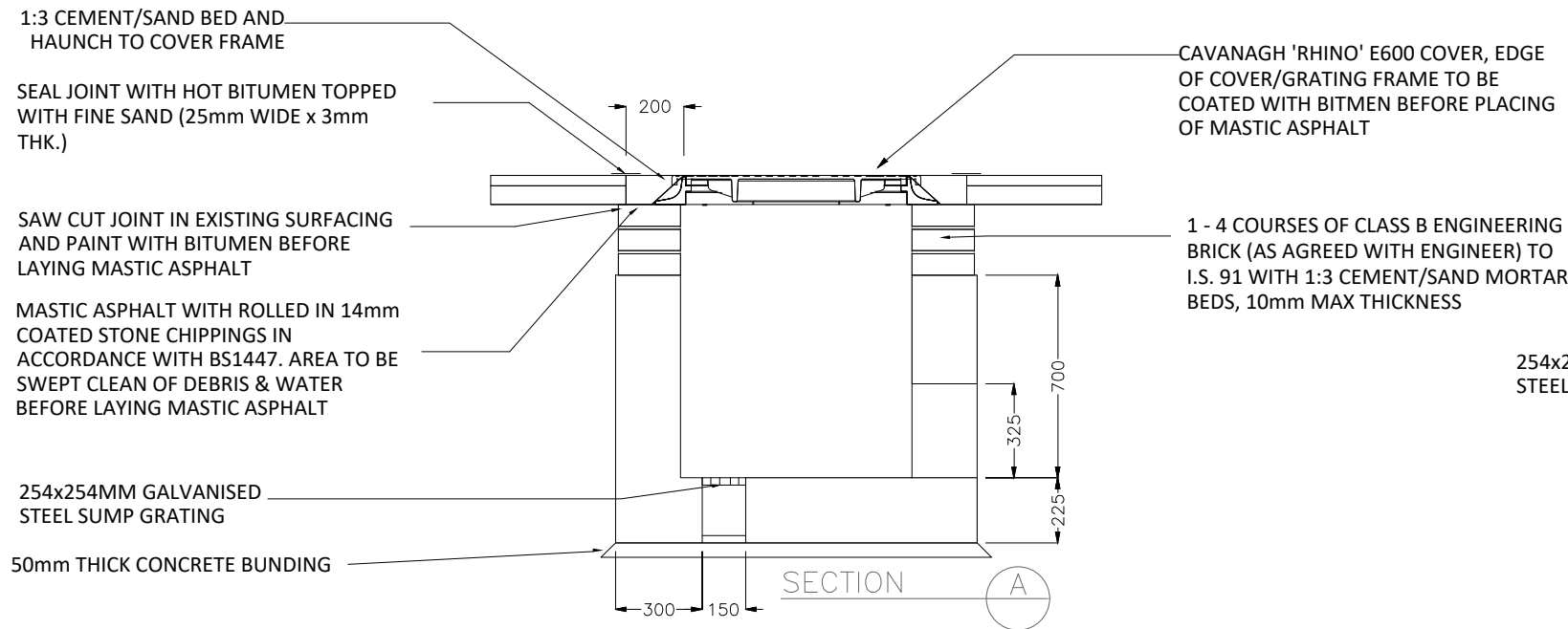


WALL OPENING 460x325 MAX. ACTUAL SIZE TO BE FORMED TO SUIT DUCT ENTRIES. VOIDS TO BE SEALED AND SURFACES MADE GOOD WITH CLASS 1 MORTAR.

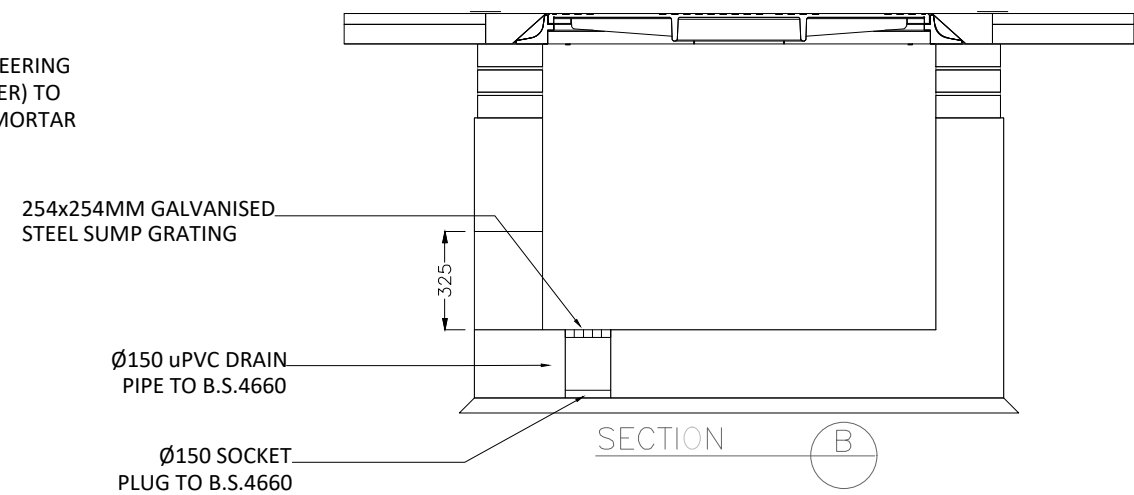
NOTES:

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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PROJECT

Glenora Wind Farm
110kV Grid Connection

PROJECT NUMBER
05-795

SHEET NUMBER
05795-DR-111

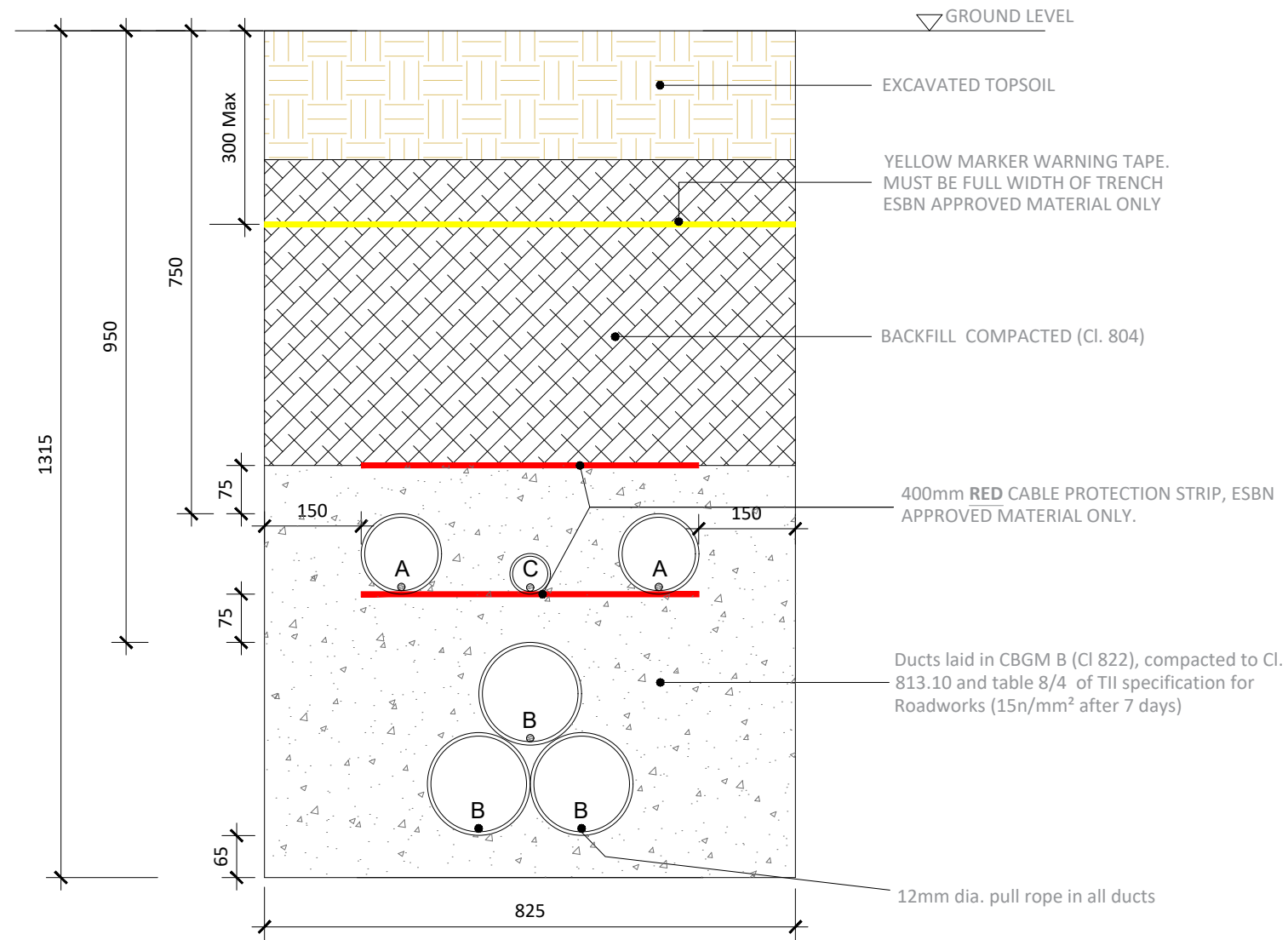
SHEET TITLE

Link Box Chamber Details

DRAWING STATUS
For Information

ISSUE/REVISION

ISSUE/REVISION	DATE	DESCRIPTION
F00	01.07.22	Issued for Information
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A = 125mm: Outer Diameter HDPE ESB Approved Duct, SDR=17.6
 B = 160mm : Outer Diameter HDPE ESB Approved Duct, SDR= 21
 C = 63mm: ECC Earth Continuity Conductor

Section Through Off Road Sections

SCALE 1:10

Note:

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- 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 LANDOWNER REQUIREMENTS

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



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PROJECT

Glenora Wind Farm
 110kV Grid Connection

PROJECT NUMBER
 05-795

SHEET NUMBER
 05795-DR-112

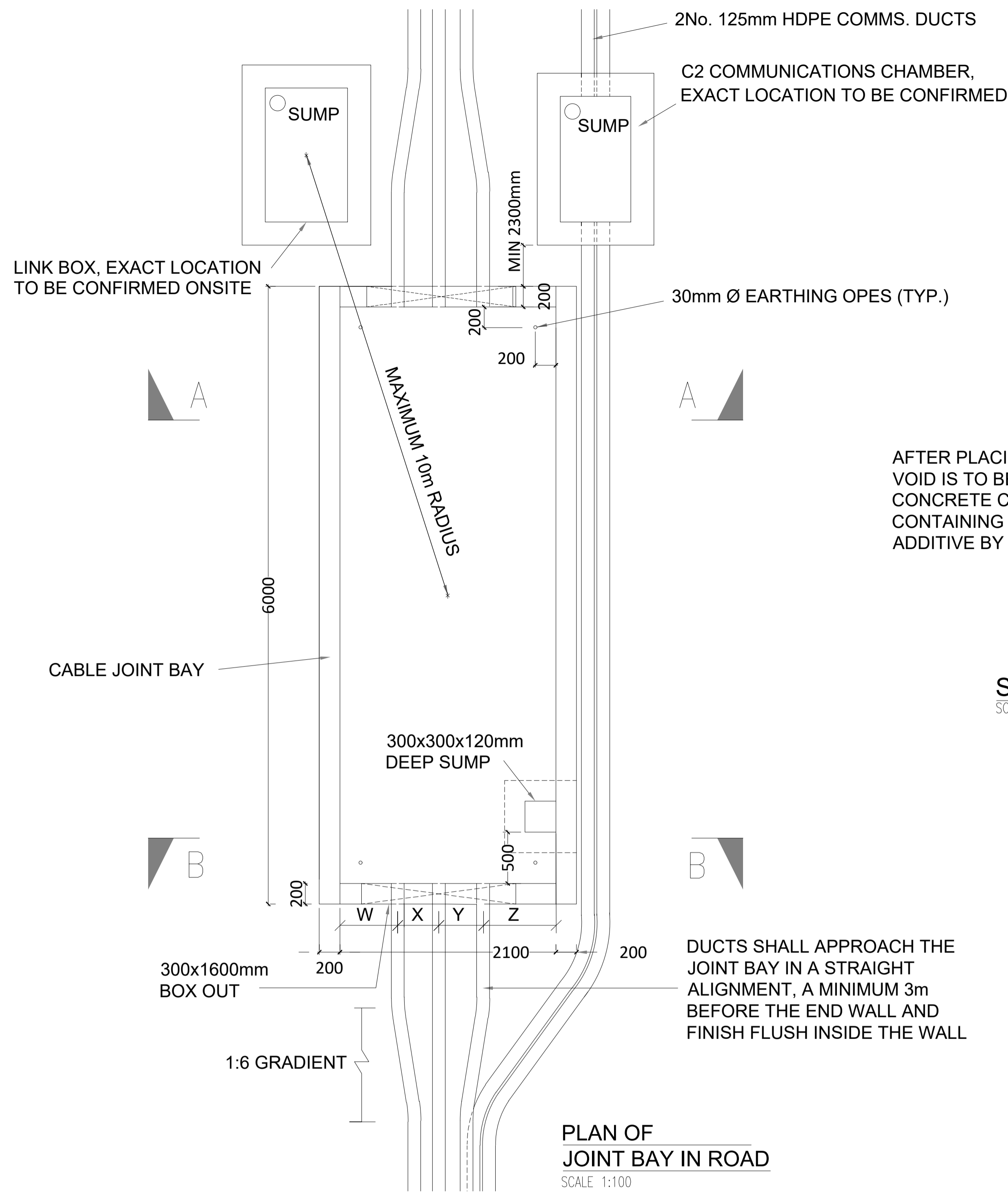
SHEET TITLE

Ducting through Off Road Sections

DRAWING STATUS
 For Information

ISSUE/REVISION

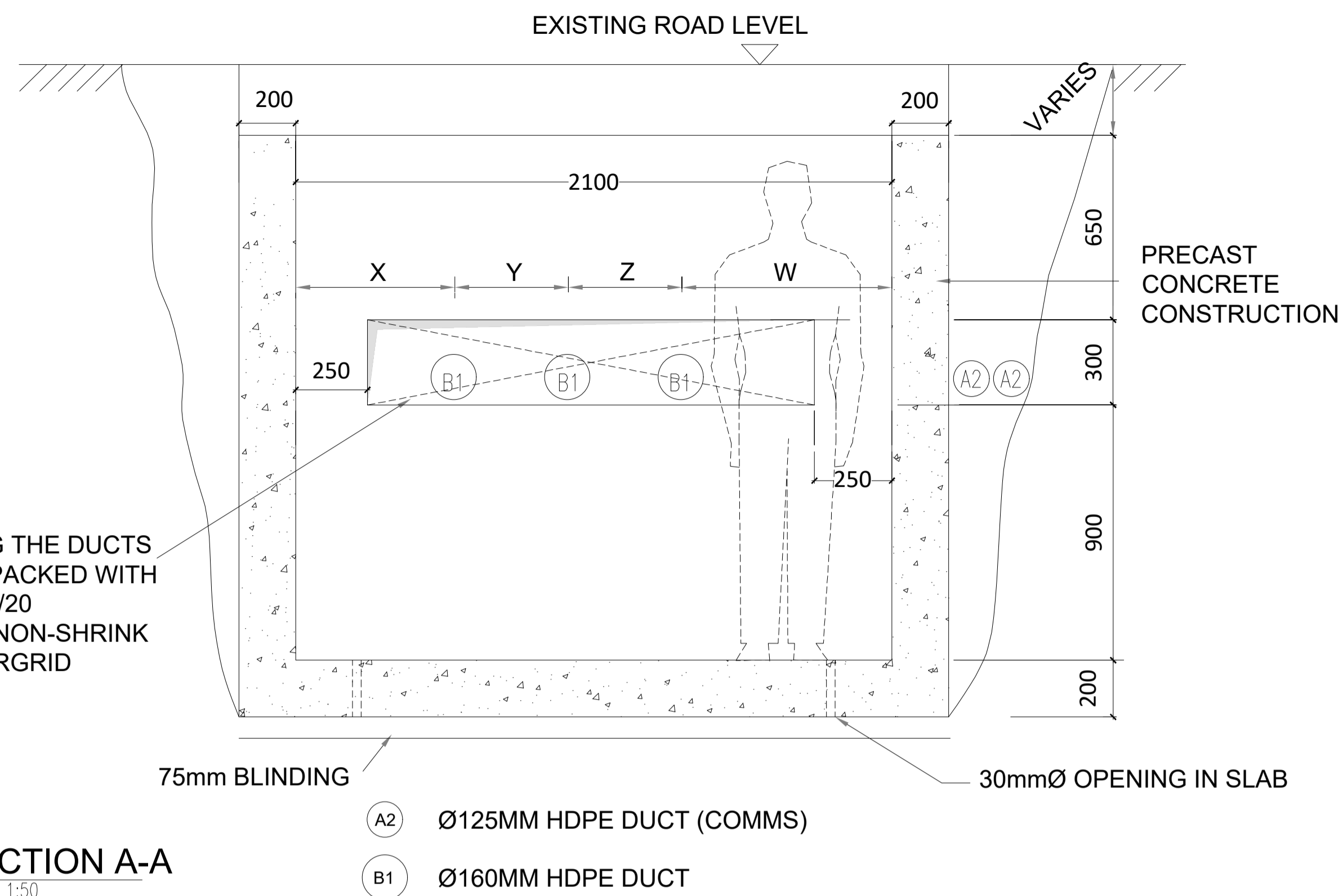
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PLAN OF JOINT BAY IN ROAD
SCALE 1:100

GENERAL NOTES:

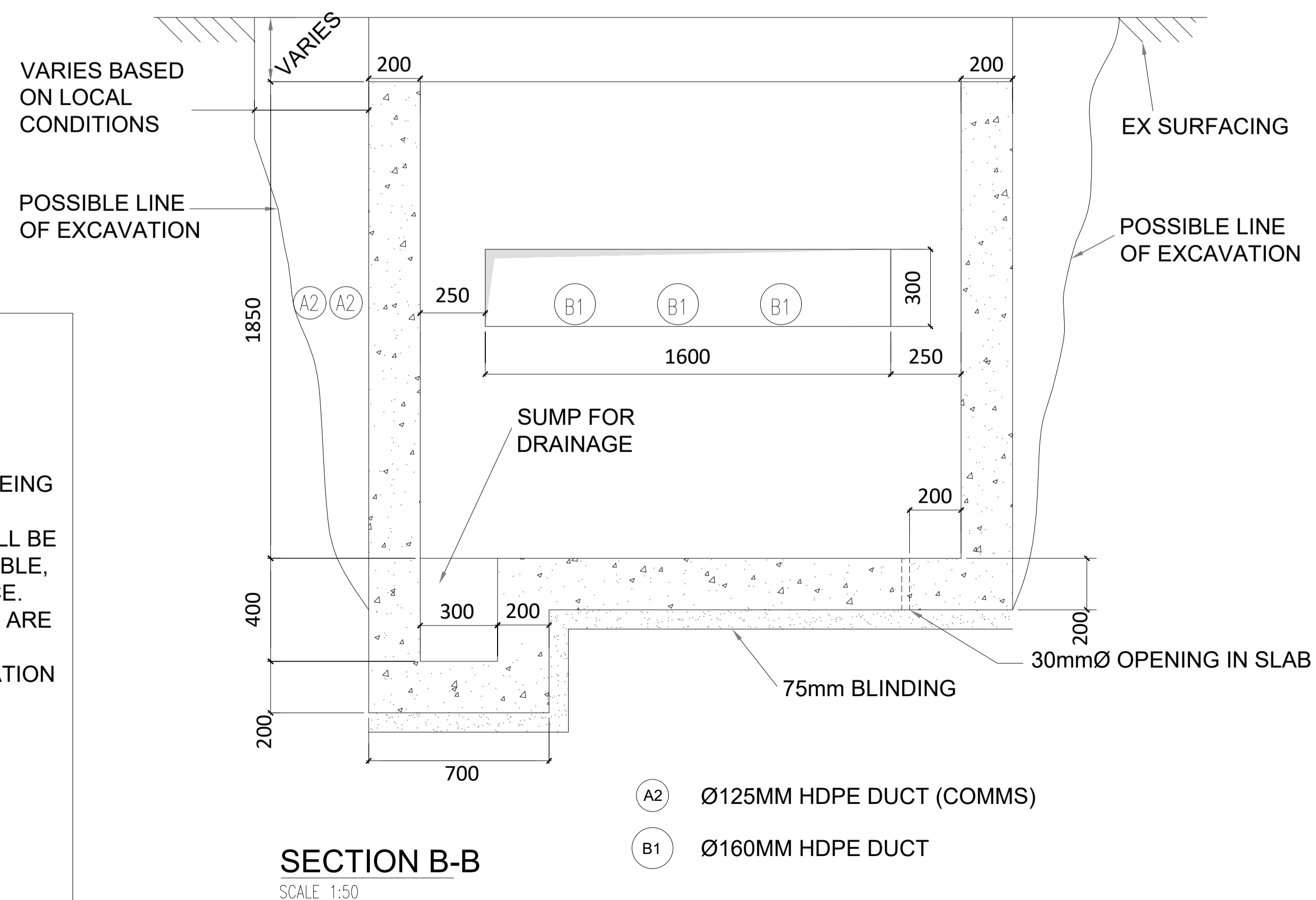
1. THIS DRAWING IS TO BE USED ONLY FOR THE PURPOSE OF ISSUE AND IS SUBJECT TO AMENDMENT.
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT INFORMATION
3. DO NOT SCALE FROM THIS DRAWING, USE ONLY PRINTED DIMENSIONS.
4. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS DEFINED OTHERWISE.
5. STANDARD 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 1:50

TABLE 1 - DUCT SEPERATION

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



SECTION B-B
SCALE 1:50

PROJECT

**Glenora Wind
Farm 110kV Grid
Connection**

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NOTES: -

See General Notes

LEGEND: -

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PROJECT NUMBER

05-795

SHEET TITLE

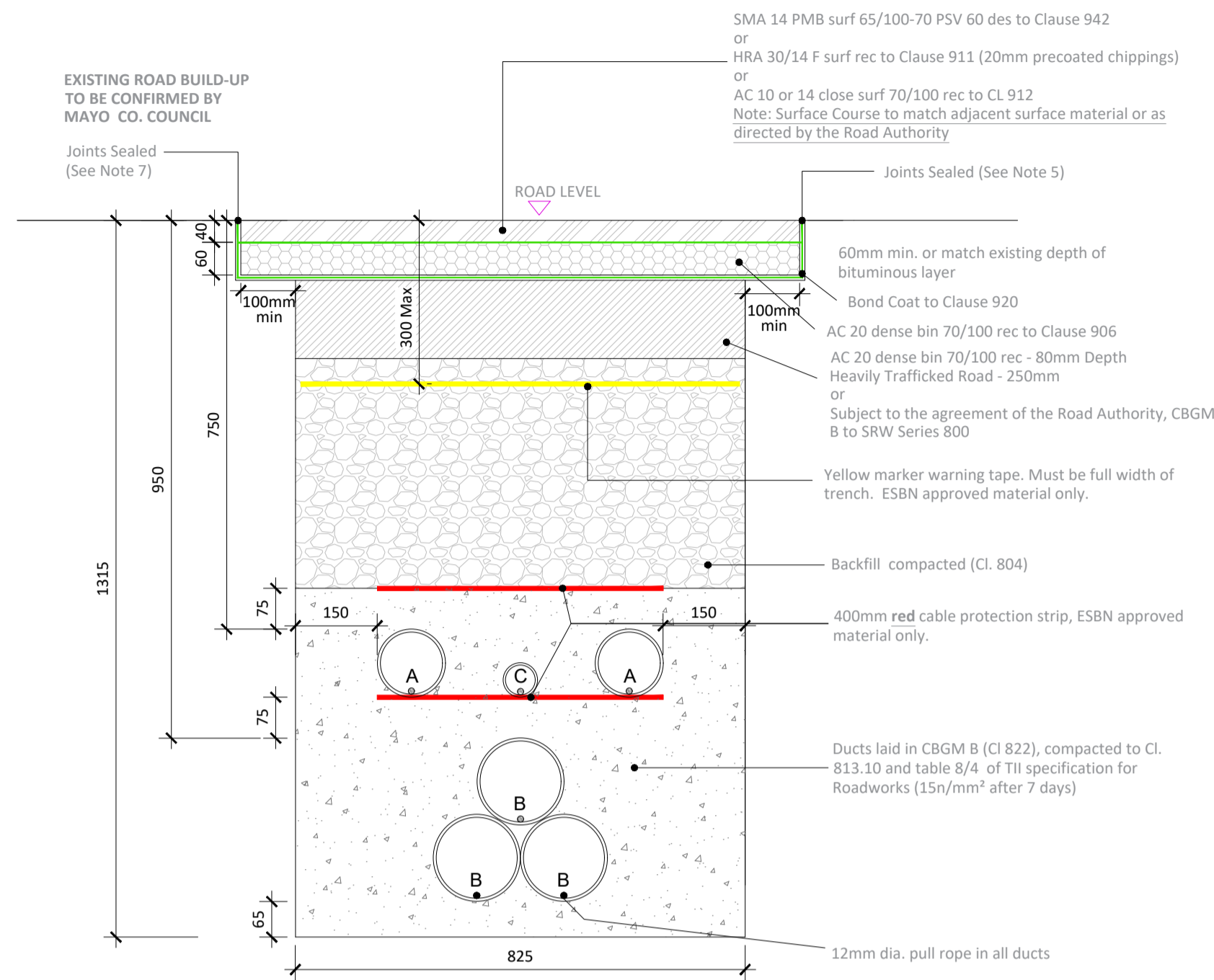
110kV Joint Bay Section Details

SHEET NUMBER

05795-DR-114

Permanent Reinstatement

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

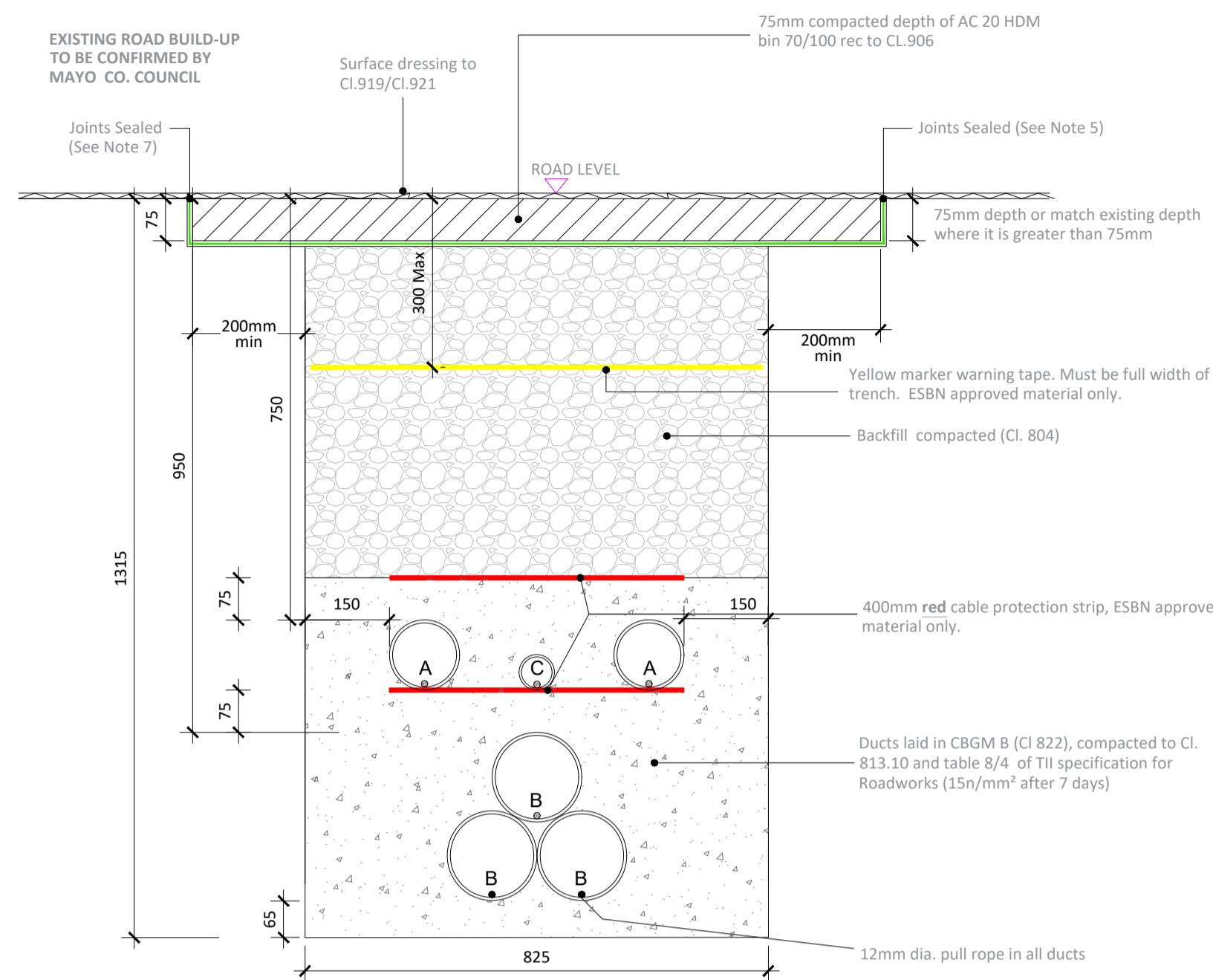


A = 125mm : Outer Diameter HDPE ESB Approved Duct, SDR=17.6
 B = 160mm : Outer Diameter HDPE ESB Approved Duct, SDR= 21
 C = 63mm: ECC Earth Continuity Conductor

Section Through Permanent Reinstatement of Longitudinal Opening in Roadway

SCALE 1:10

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



A = 125mm: Outer Diameter HDPE ESB Approved Duct, SDR=17.6
 B = 160mm : Outer Diameter HDPE ESB Approved Duct, SDR= 21
 C = 63mm: ECC Earth Continuity Conductor

Section Through Permanent Reinstatement of Longitudinal Opening in Dressed Rural Unbound Roadway

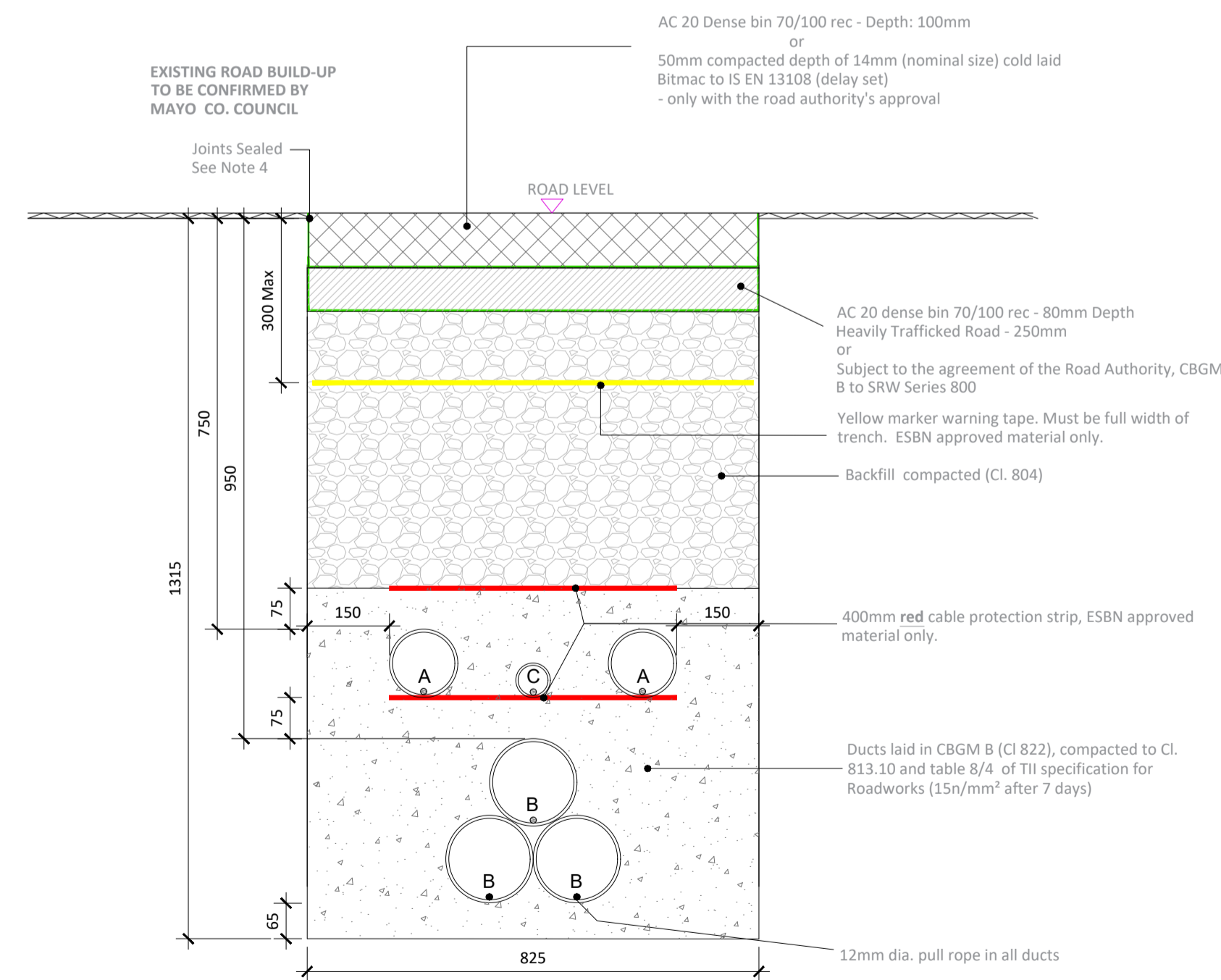
SCALE 1:10

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

- Note:
- Refer to Guidelines for managing Openings in Public Roads (Purple Book - April 2017), Chapter 6 'Specifications' for guidance on Duct type / colour and Marker Tape type / colour.
 - 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.
 - Where a temporary surface has been used, material shall be planed out to the depth specified in this drawing. The new permanent surface shall be machined laid and mechanically compacted with a vibrating roller.
 - Where the trimmed edge of excavation is within 400mm* of a joint / edge, ironwork or other reinstatement, this trimmed edge shall be extended to include same and the area of reinstatement shall be extended accordingly (* increase to 800mm where this is pre-existing practice).
 - Any damaged area adjacent to the opening and resulting from the excavation operation shall be included within the area to be reinstated.
 - Clause 808 or Cement Bound Granular Material surface to be sprayed per clause 920 prior to application of Asphalt Concrete Layer.
 - Joint sealer shall be a hot 50 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.
 - 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.
 - On highly trafficked roads services must have a minimum cover of 750mm.
 - Where required by the Road authority the trench may be reinstated with a Cement Bound Granular Material.

Temporary Reinstatement

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

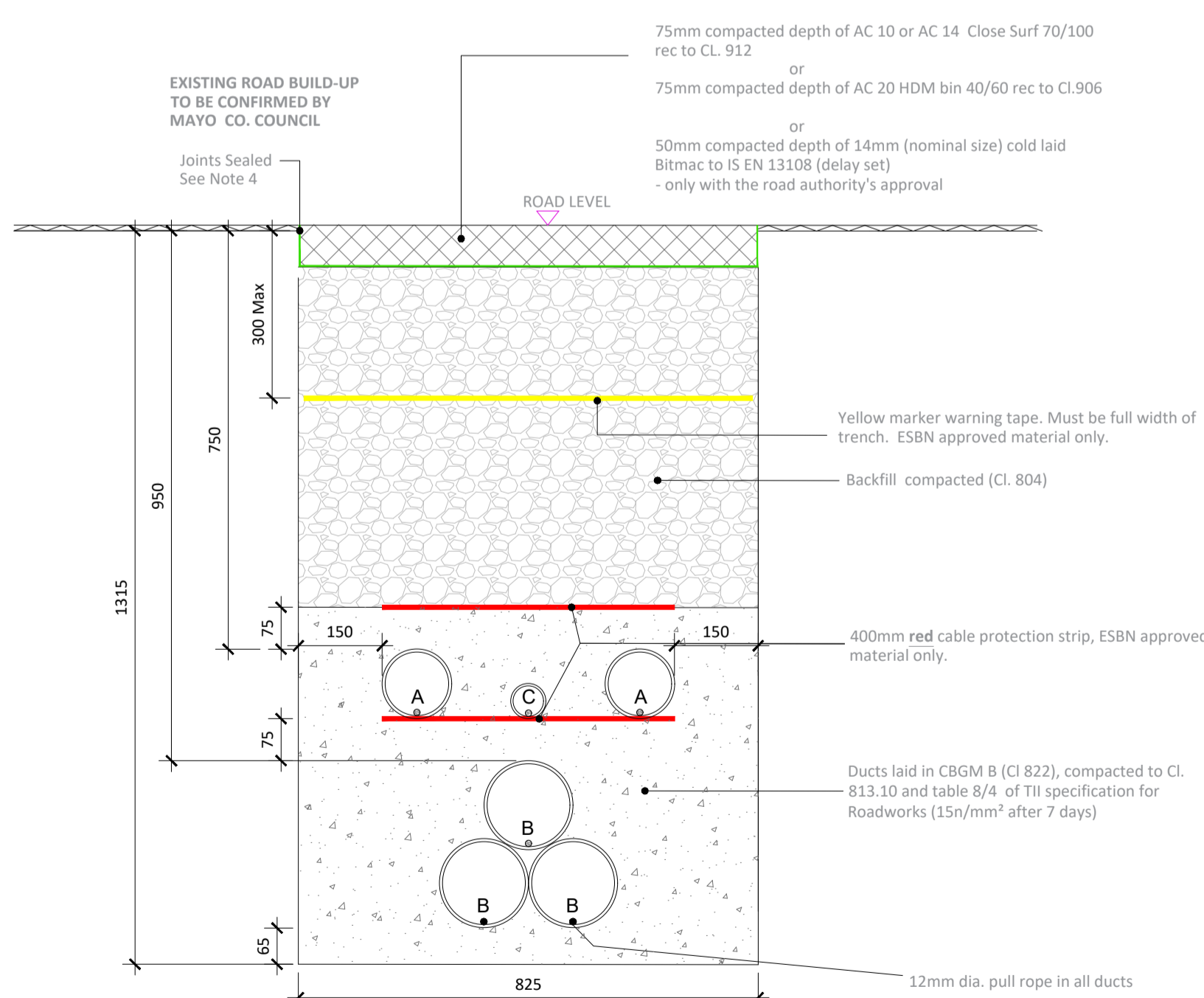


A = 125mm: Outer Diameter HDPE ESB Approved Duct, SDR=17.6
 B = 160mm : Outer Diameter HDPE ESB Approved Duct, SDR= 21
 C = 63mm: ECC Earth Continuity Conductor

Section Through Temporary Reinstatement of Longitudinal Opening in Roadway

SCALE 1:10

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



A = 125mm: Outer Diameter HDPE ESB Approved Duct, SDR=17.6
 B = 160mm : Outer Diameter HDPE ESB Approved Duct, SDR= 21
 C = 63mm: ECC Earth Continuity Conductor

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

SCALE 1:10

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

- Note:
- Refer to 'Guidelines for managing Openings in Public Roads (Purple Book - April 2017)', Chapter 6 'Specifications' for guidance on Duct type / colour and Marker Tape type / colour.
 - 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.
 - Clause 808 surface to be sprayed per clause 920 prior to application of Asphalt Concrete Layer.
 - Joint sealer shall be a hot 50 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.
 - Licence holder must maintain temporary reinstatement to a safe and acceptable standard.
 - Any damaged area adjacent to the opening and resulting from the excavation operation shall be included within the area to be reinstated.
 - Temporary Road Surface warning signs must be used in accordance with the Traffic Signs Manual (Chaper 8 - Temporary Traffic Measures and Signs for Roadworks).
 - 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.

PROJECT

Glenora 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
- Geogrid may be implemented along the cable trench route where deemed necessary by the contractor or as required by Mayo County Council

LEGEND: -

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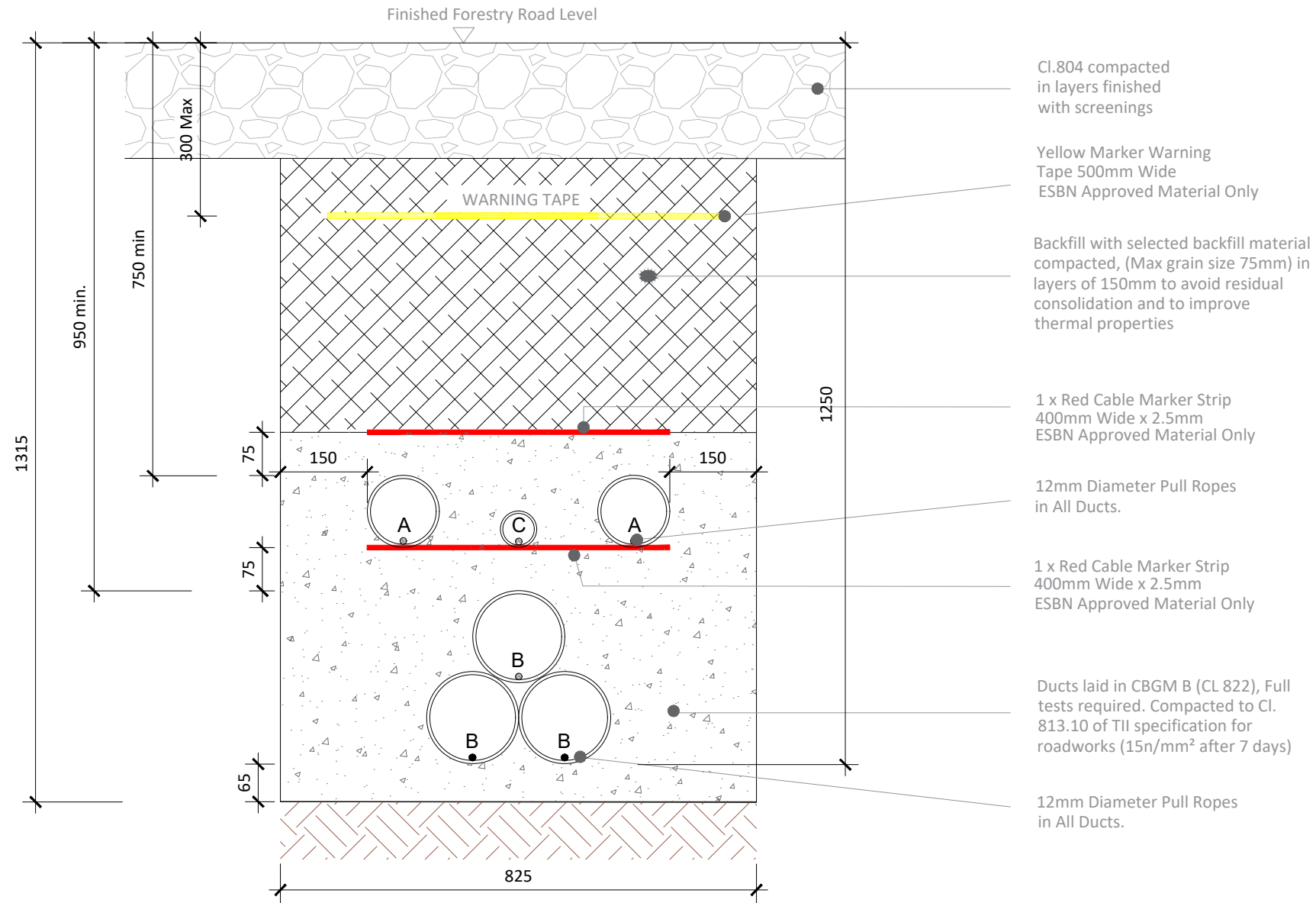
05-795

SHEET TITLE

Ducting Through Roadways

SHEET NUMBER

05795-DR-117



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 B= 160mm : Outer Diameter HDPE ESB Approved Duct, SDR= 21
 C = 63mm: ECC Earth Continuity Conductor

Section Through Forestry Road

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 LANDOWNERS REQUIREMENTS



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PROJECT

Glenora Wind Farm
 110 kV Grid Connection

PROJECT NUMBER
 05-795

SHEET NUMBER
 05795-DR-118

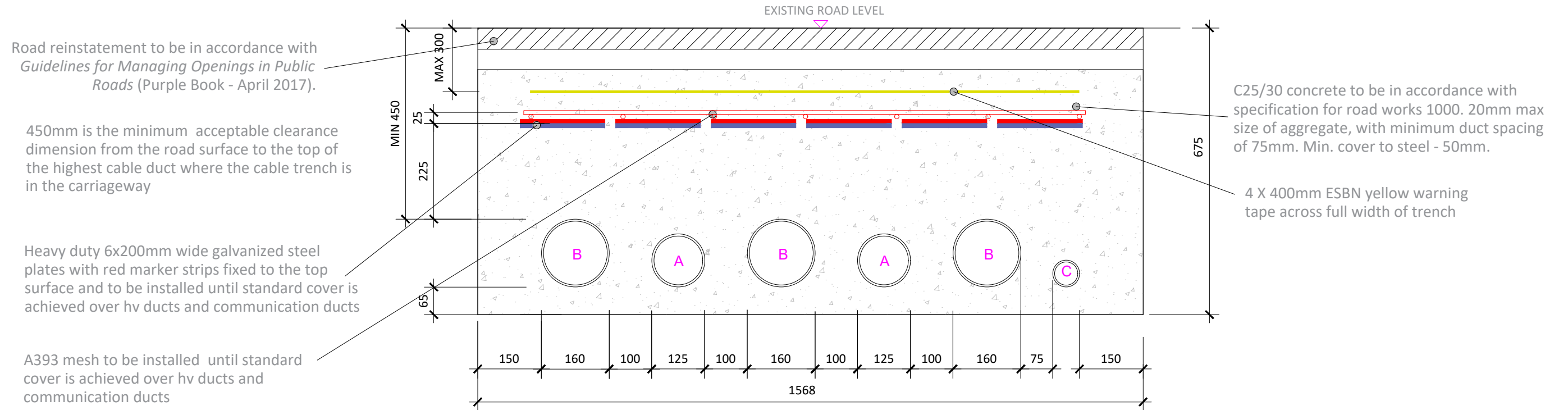
SHEET TITLE

Ducting through Forestry Road

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 C = 63mm: 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



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PROJECT NUMBER
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SHEET NUMBER
 05795-DR-119

SHEET TITLE

Section Through Ducting
 in Flat Formation

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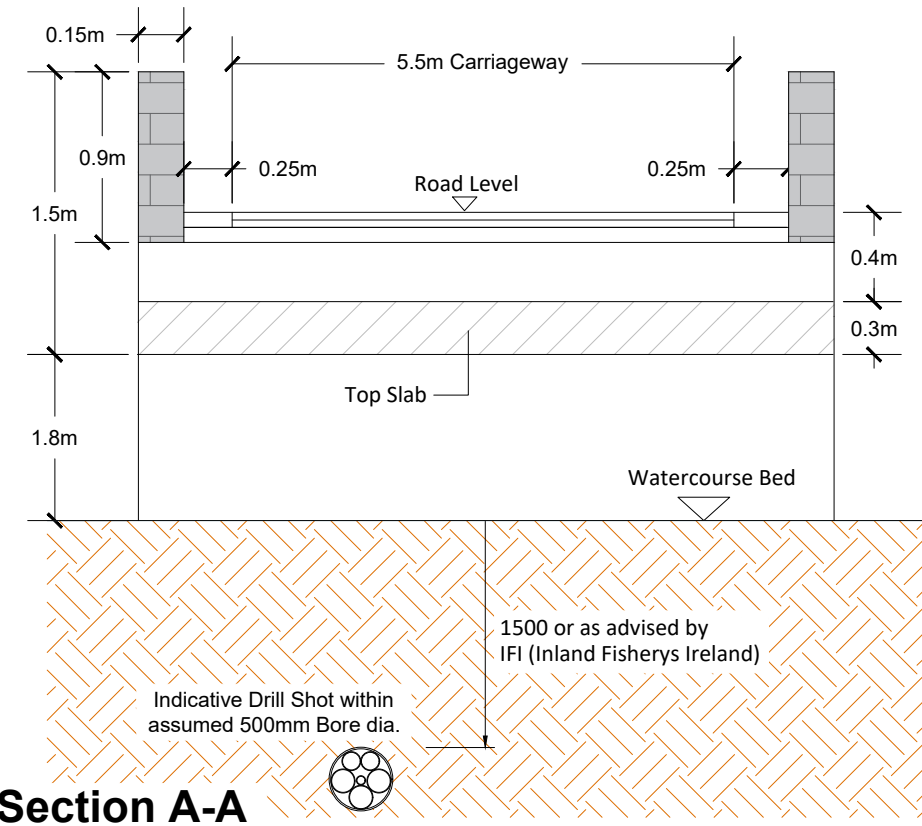
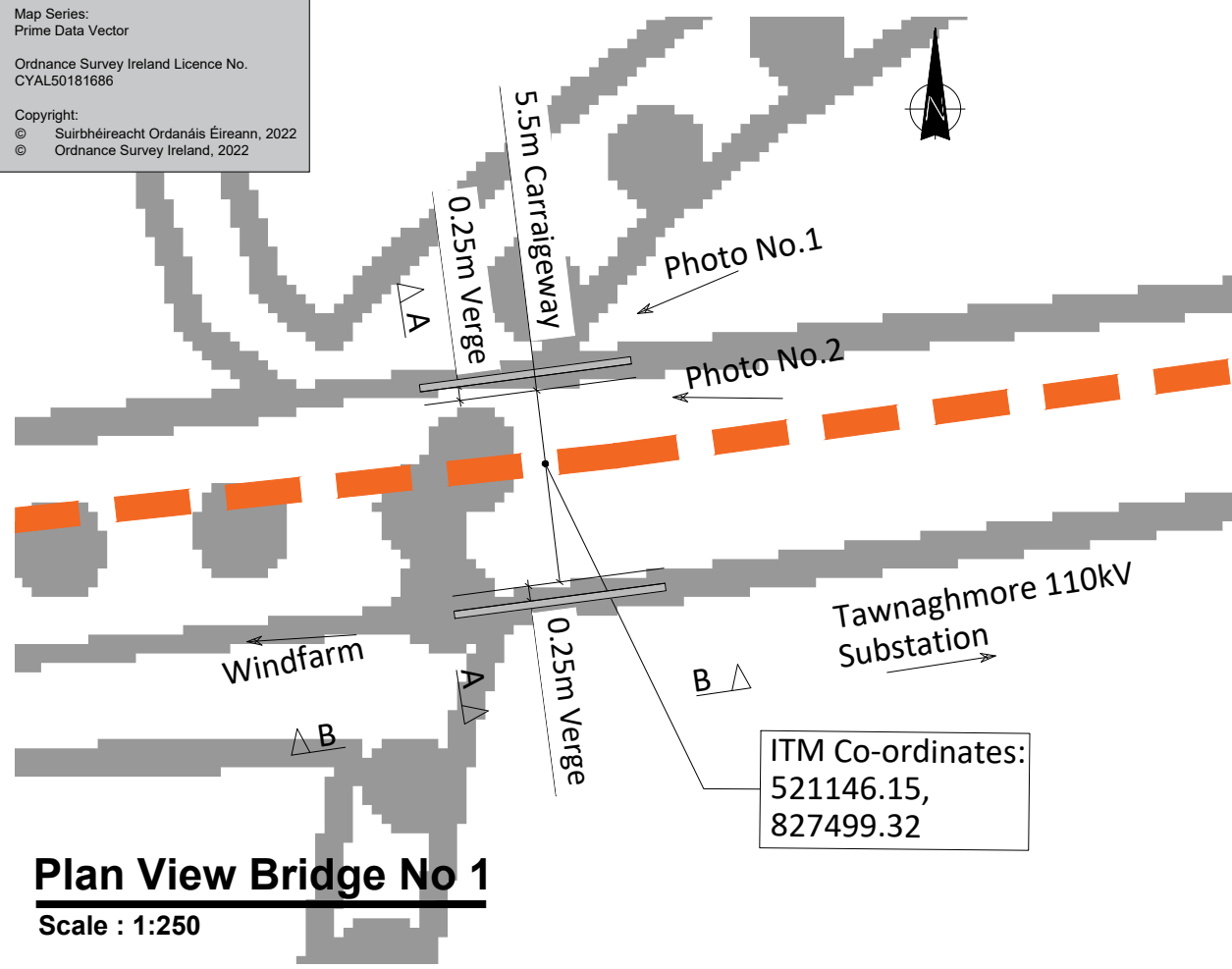
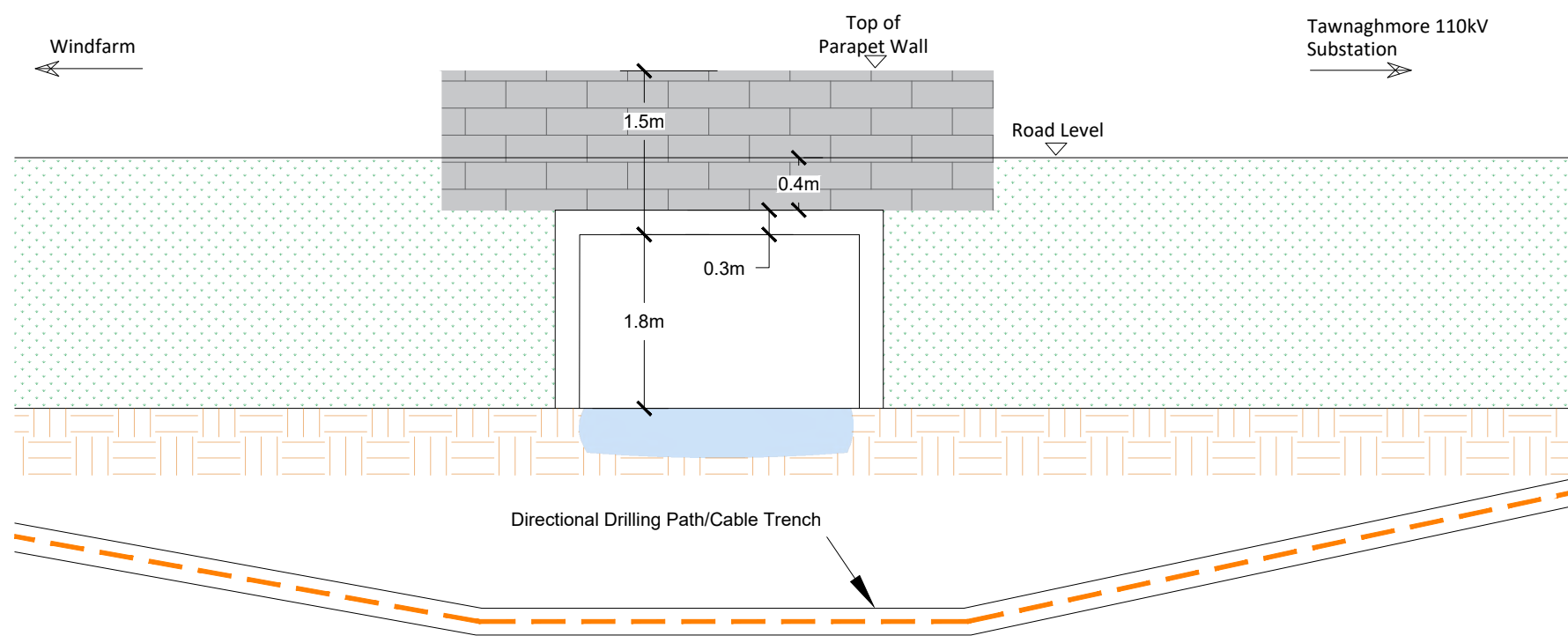


Photo No. 1



Photo No. 2



NOTES:

- All dimensions are shown in meters unless otherwise stated.
- No structural bridge surveys have been carried out and the proposals are subject to detail design.
- Drawings are in compliance with ESNB specification requirements for shallow formation, bridge crossings, etc.
- HDD launch and reception pit locations to be determined following site investigation.



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PROJECT
**Glenora Wind Farm
110kV Grid Connection**
PROJECT NUMBER
05-795

SHEET NUMBER
05795-DR-231

SHEET TITLE
Bridge 1 - Proposed HDD Crossing
DRAWING STATUS
For Information

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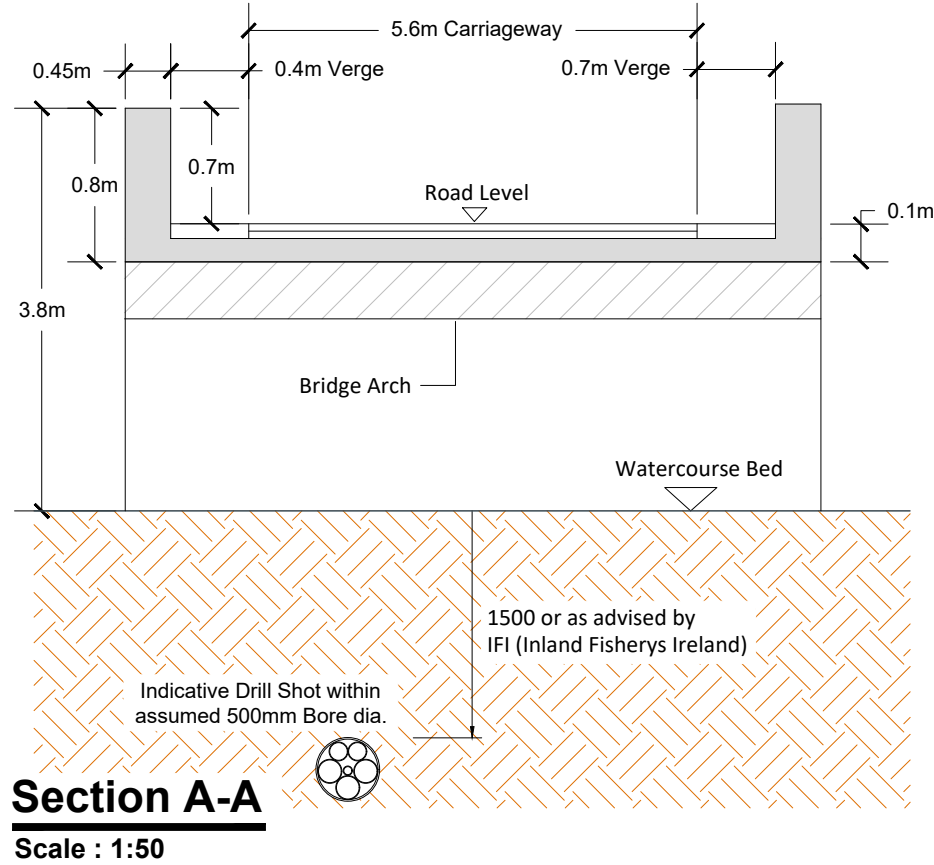
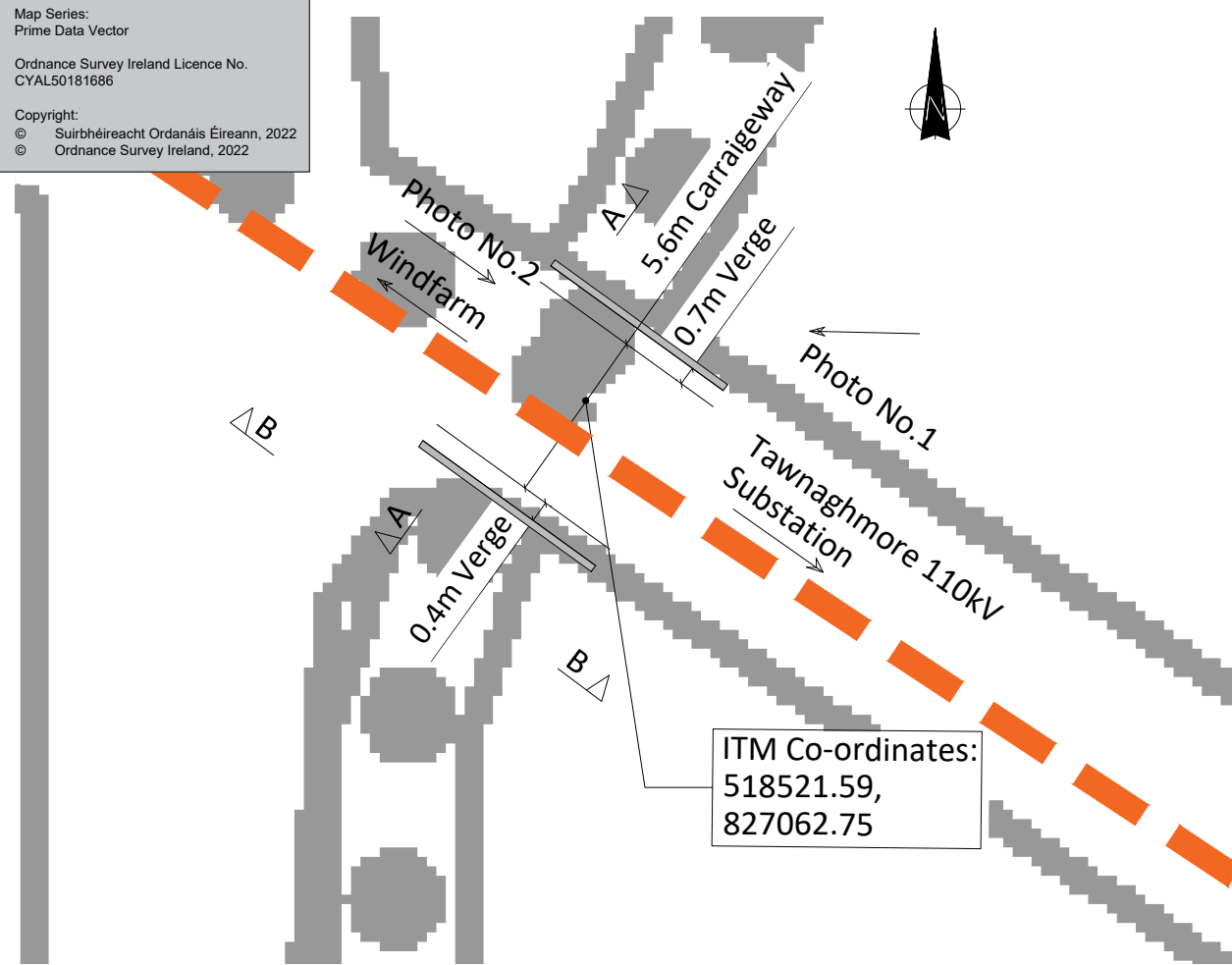
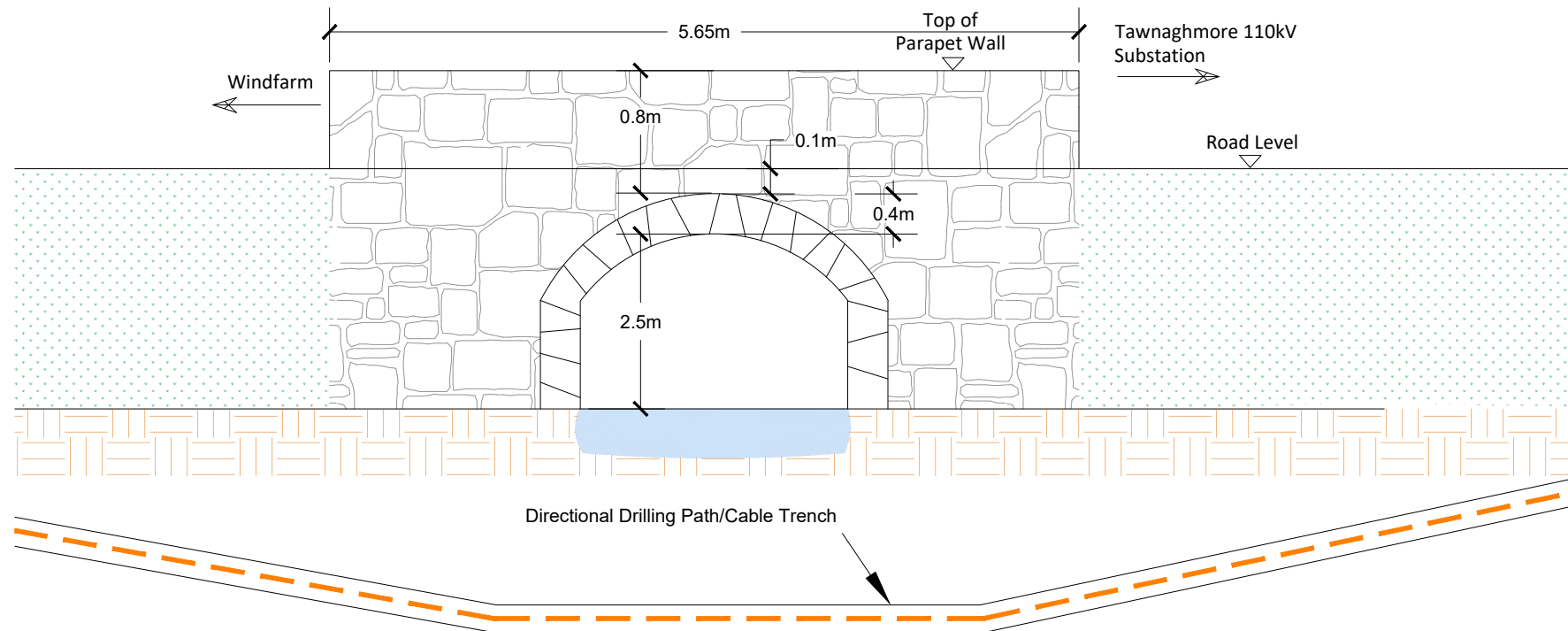


Photo No. 1



Photo No. 2



- NOTES:**
- All dimensions are shown in meters unless otherwise stated.
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 - Drawings are in compliance with ESNB specification requirements for shallow formation, bridge crossings, etc.



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

PROJECT NUMBER
05-795

SHEET NUMBER
05795-DR-232

SHEET TITLE
Bridge 2 - Proposed HDD Crossing

DRAWING STATUS
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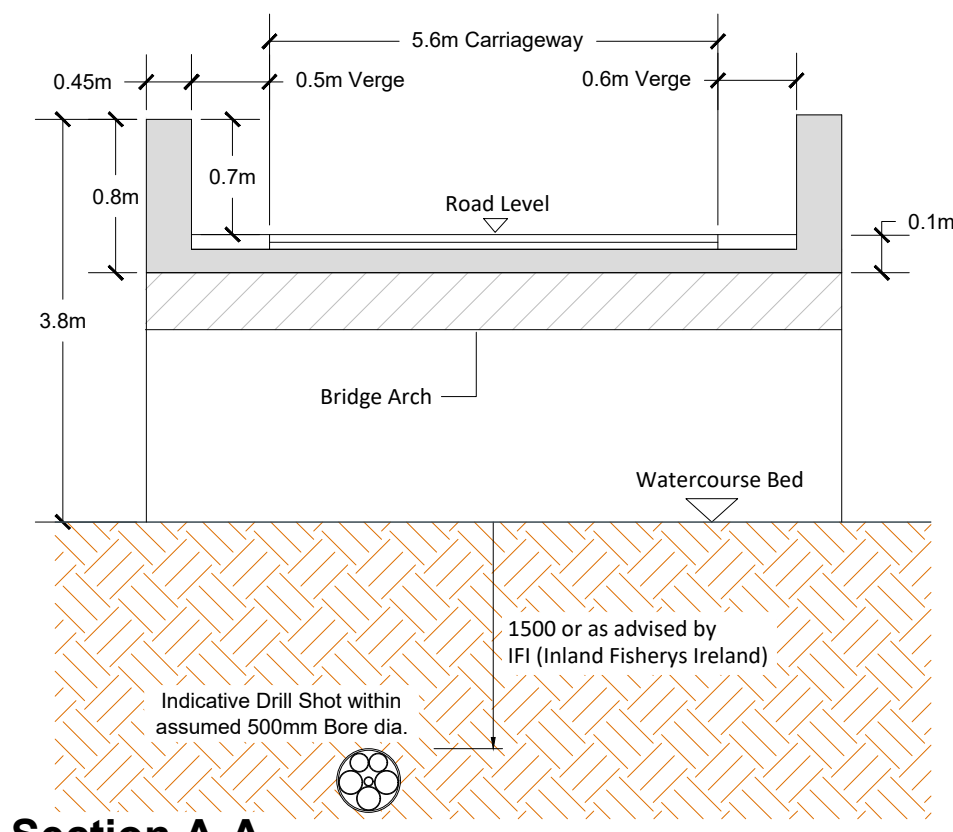
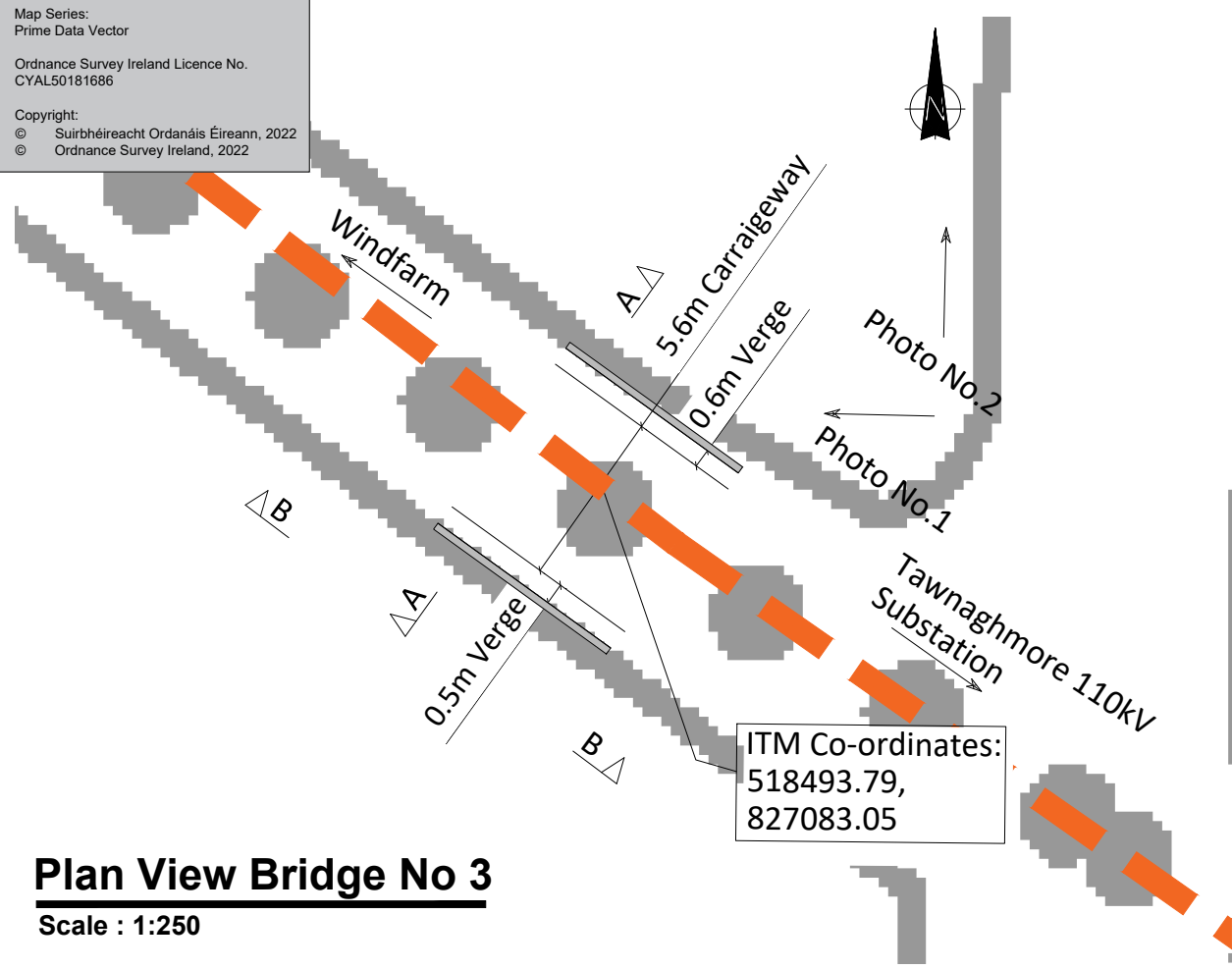
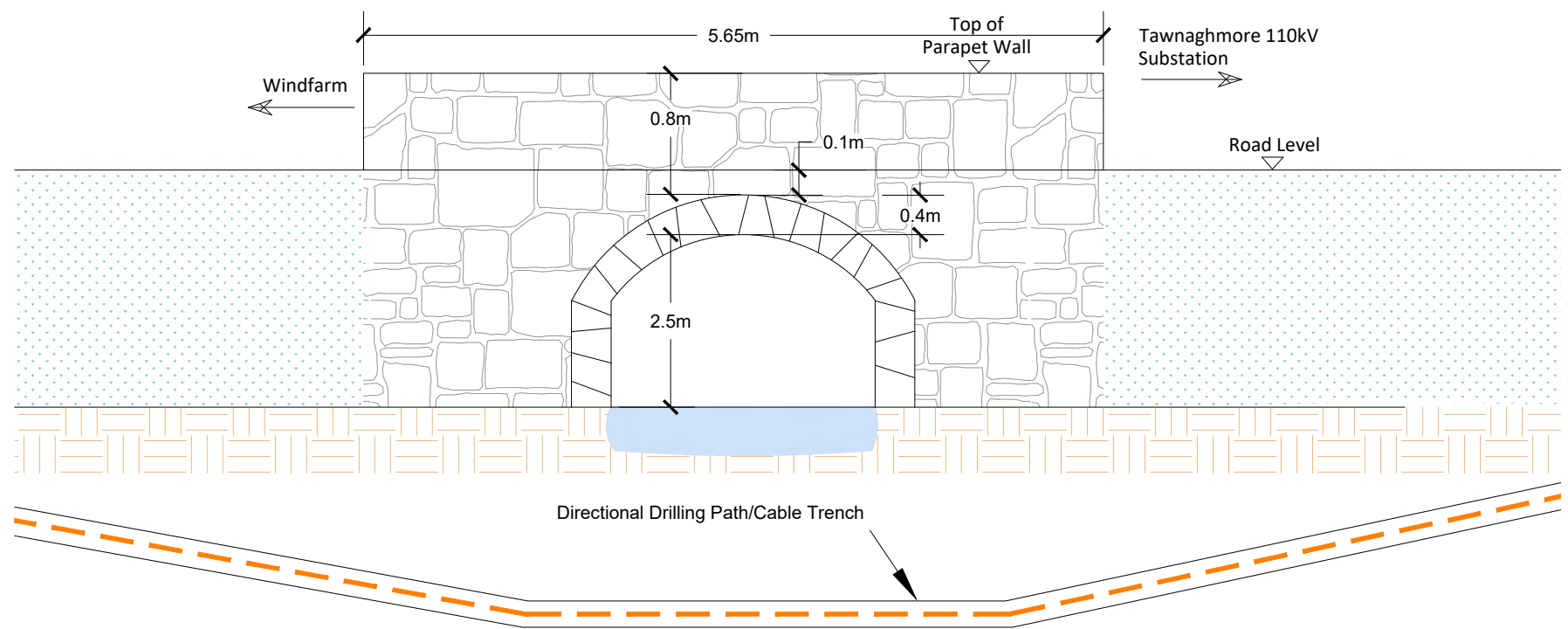


Photo No. 1



Photo No. 2



- NOTES:**
- All dimensions are shown in meters unless otherwise stated.
 - No structural bridge surveys have been carried out and the proposals are subject to detail design.
 - Drawings are in compliance with ESBN specification requirements for shallow formation, bridge crossings, etc.
 - HDD launch and reception pit locations to be determined following site investigation.



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PROJECT
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110kV Grid Connection**

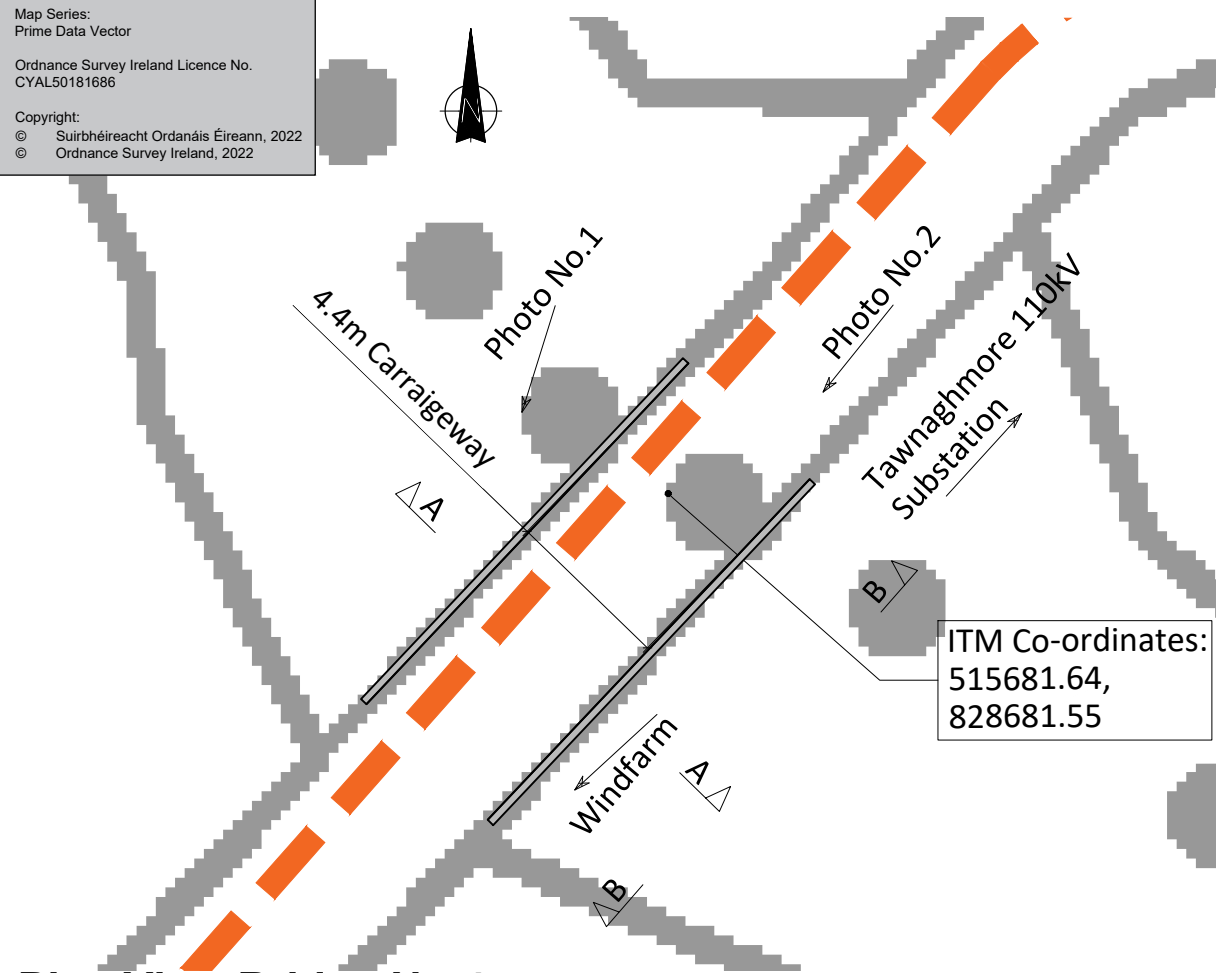
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SHEET NUMBER: 05795-DR-233

SHEET TITLE
Bridge 3 - Proposed HDD Crossing

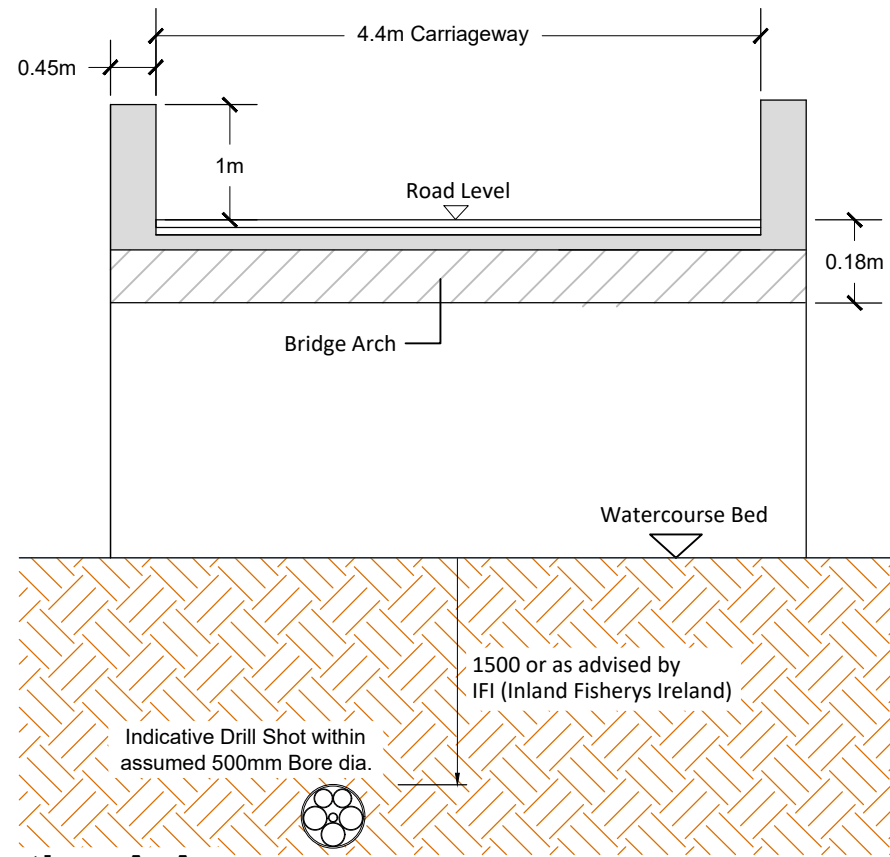
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Plan View Bridge No 4
Scale : 1:250



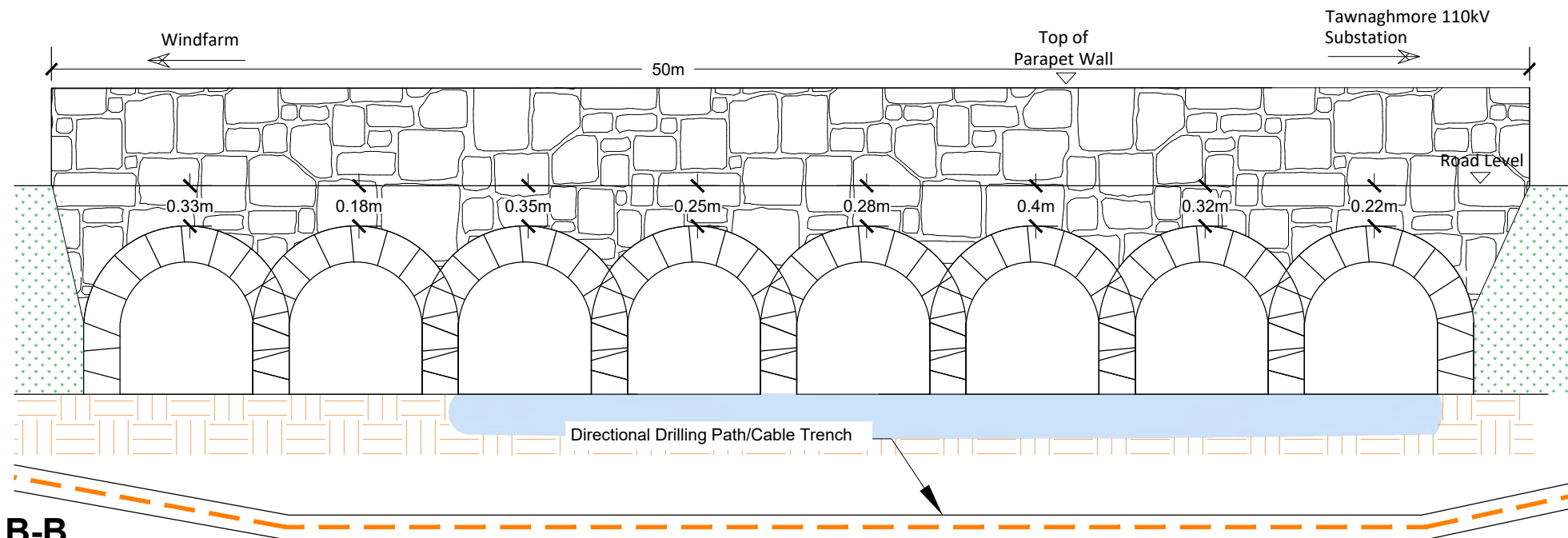
Section A-A
Scale : 1:50



Photo No. 1



Photo No. 2



Section B-B
Scale 1:50

NOTES:

- All dimensions are shown in meters unless otherwise stated.
- No structural bridge surveys have been carried out and the proposals are subject to detail design.
- Drawings are in compliance with ESNB specification requirements for shallow formation, bridge crossings, etc.
- HDD launch and reception pit locations to be determined following site investigation.



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PROJECT
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05795-DR-234

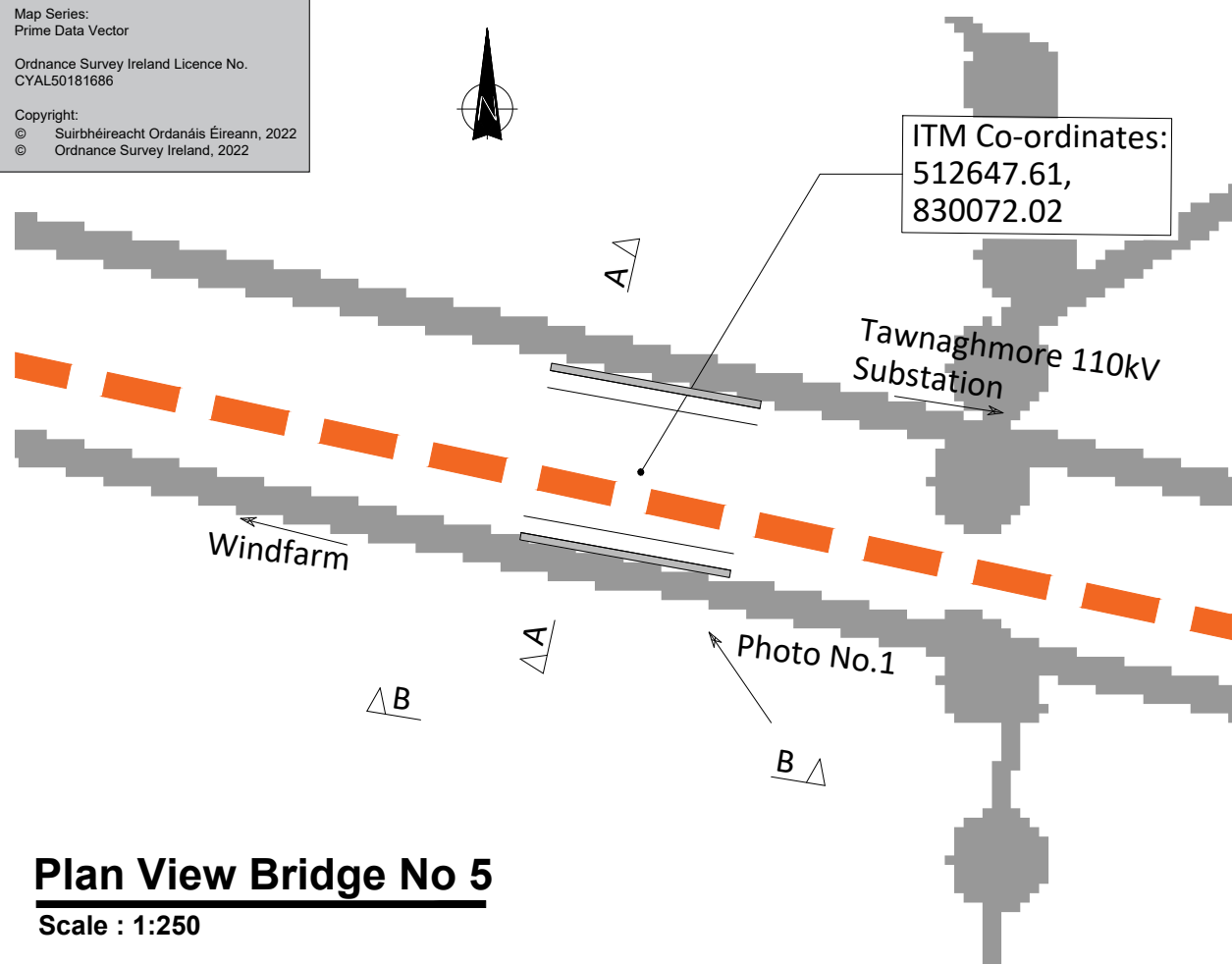
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DRAWING STATUS
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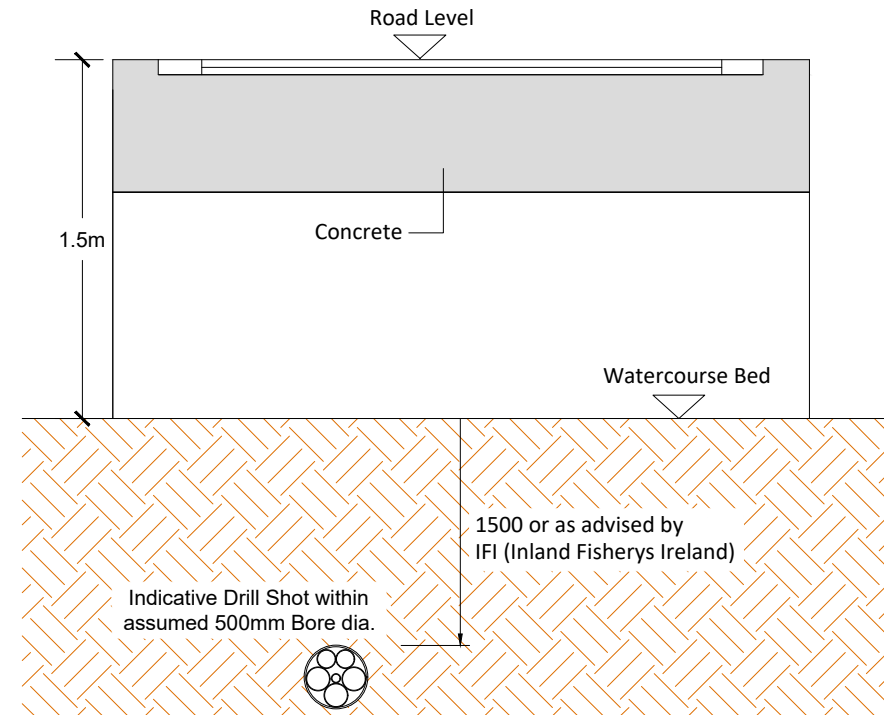
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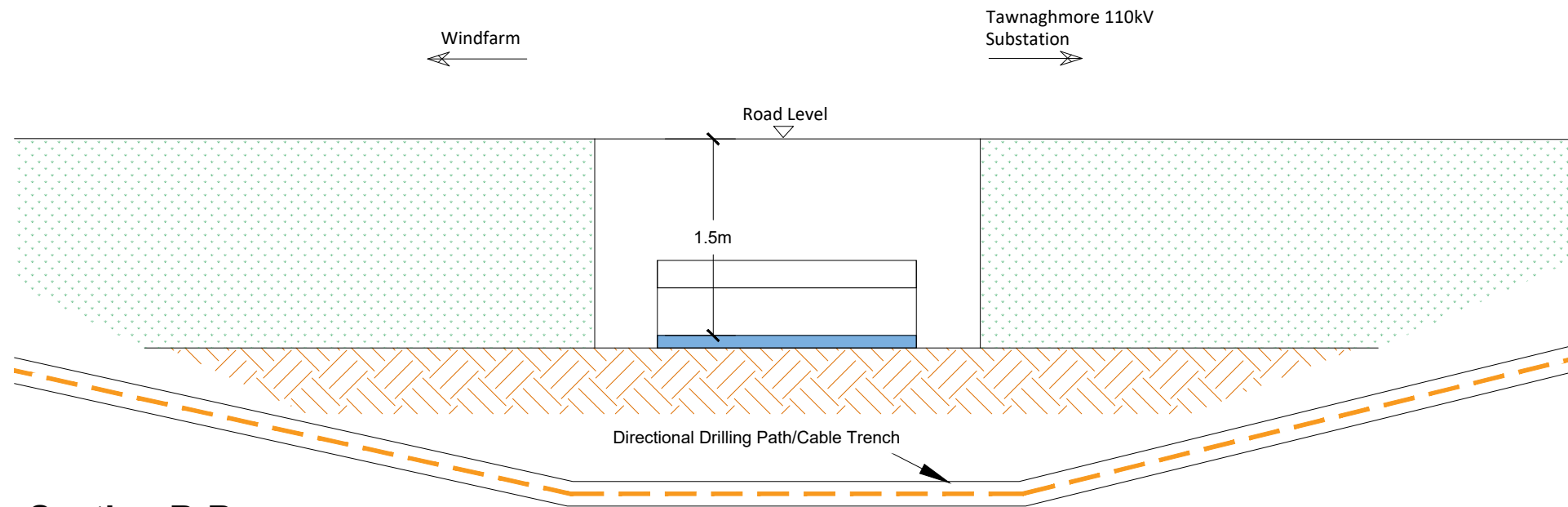
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Scale : 1:250



Section A-A
Scale : 1:50



Photo No. 1



Section B-B
Scale 1:50

- NOTES:**
- All dimensions are shown in meters unless otherwise stated.
 - No structural bridge surveys have been carried out and the proposals are subject to detail design.
 - Drawings are in compliance with ESNB specification requirements for shallow formation, bridge crossings, etc.



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PROJECT
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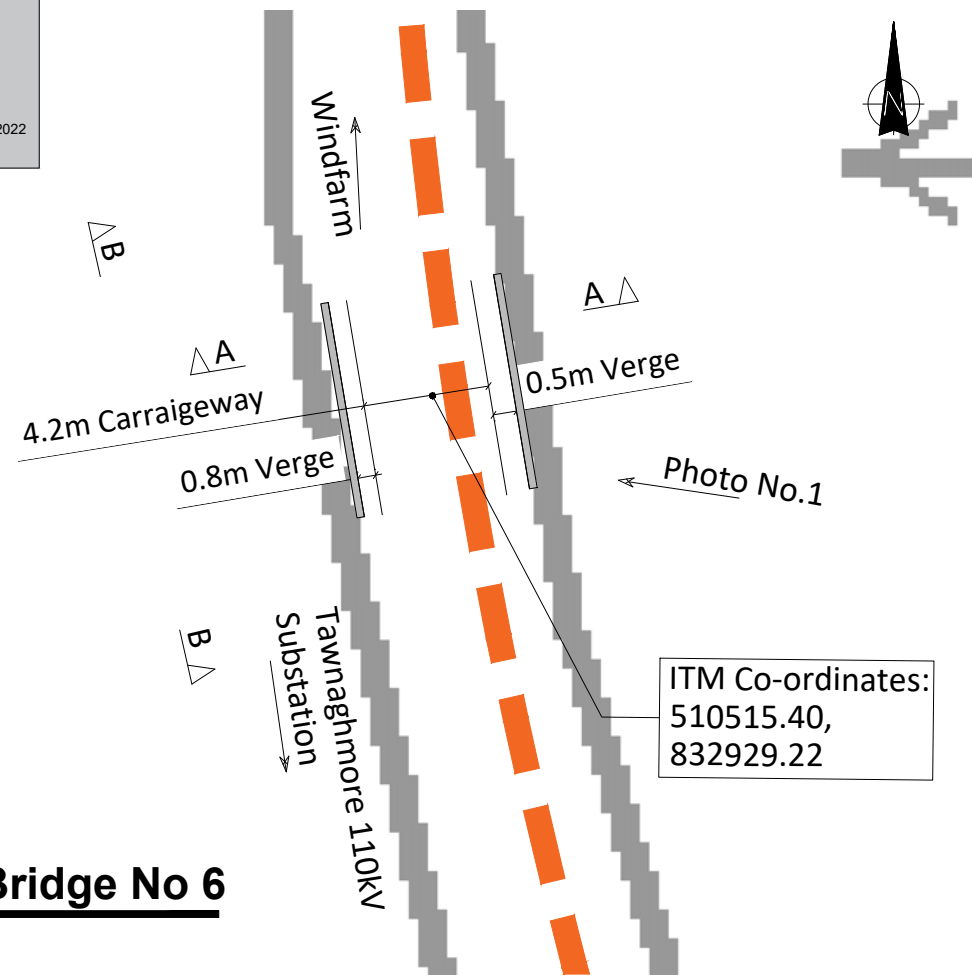
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05795-DR-235

SHEET TITLE
Bridge 5 - Proposed Crossing

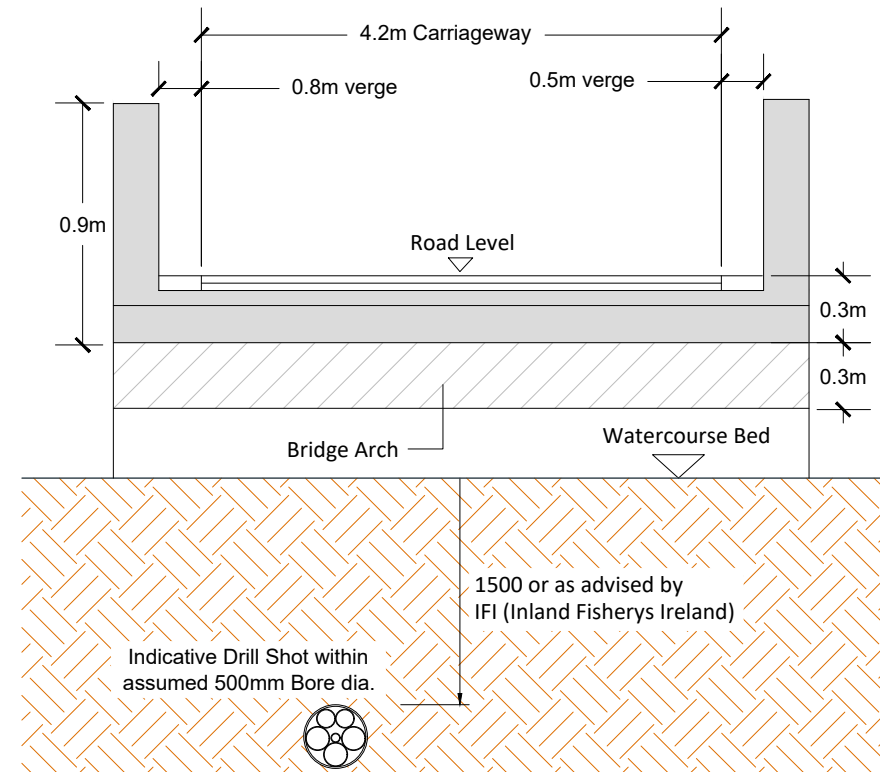
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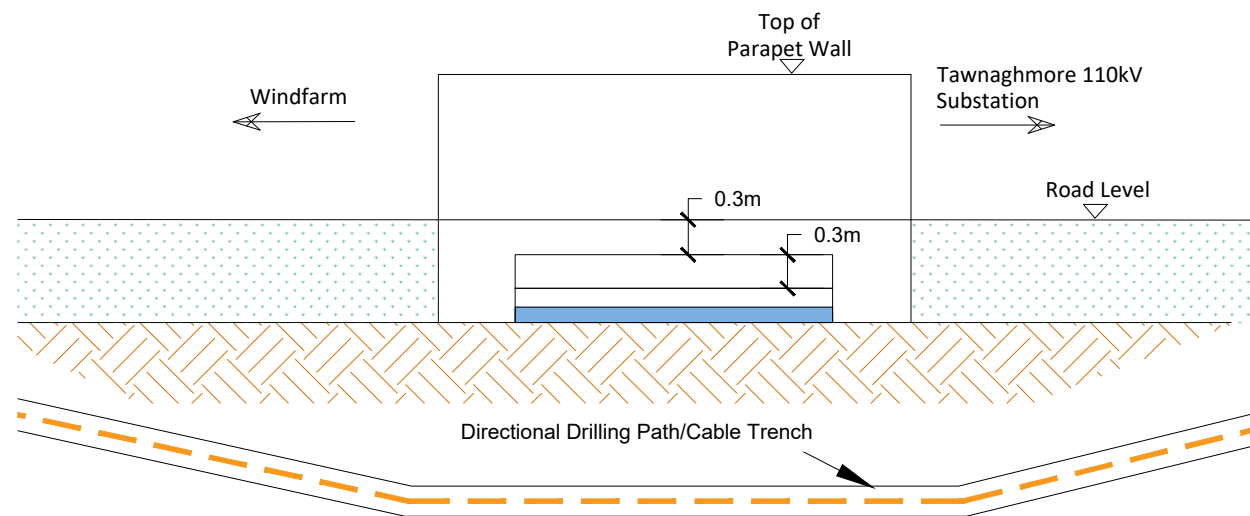
Plan View Bridge No 6
Scale : 1:250



Section A-A
Scale : 1:50



Photo No. 1



Section B-B
Scale 1:50

NOTES:

- All dimensions are shown in meters unless otherwise stated.
- No structural bridge surveys have been carried out and the proposals are subject to detail design.
- Drawings are in compliance with ESNB specification requirements for shallow formation, bridge crossings, etc.
- HDD launch and reception pit locations to be determined following site investigation.



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

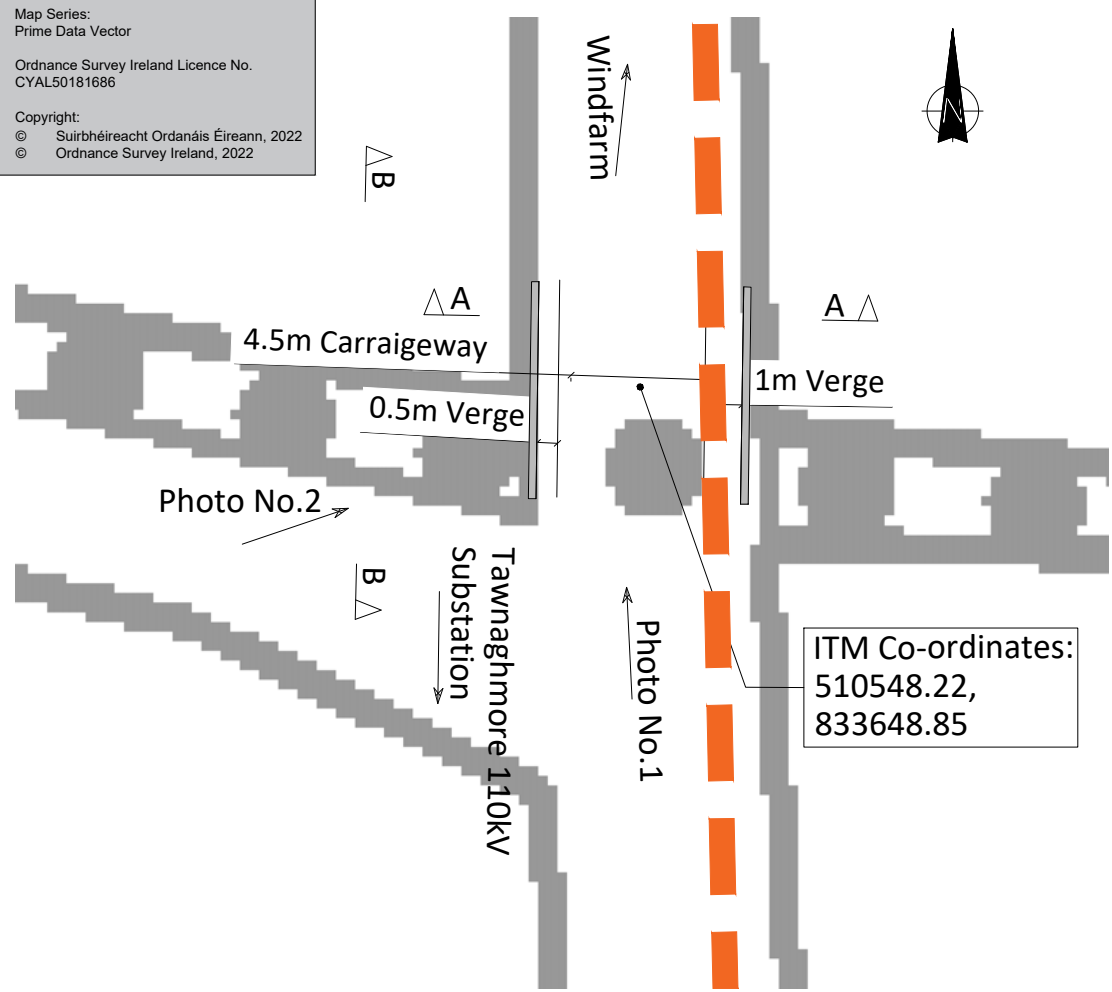
PROJECT NUMBER: 05-795
SHEET NUMBER: 05795-DR-236

SHEET TITLE
Bridge 6 - Proposed HDD Crossing

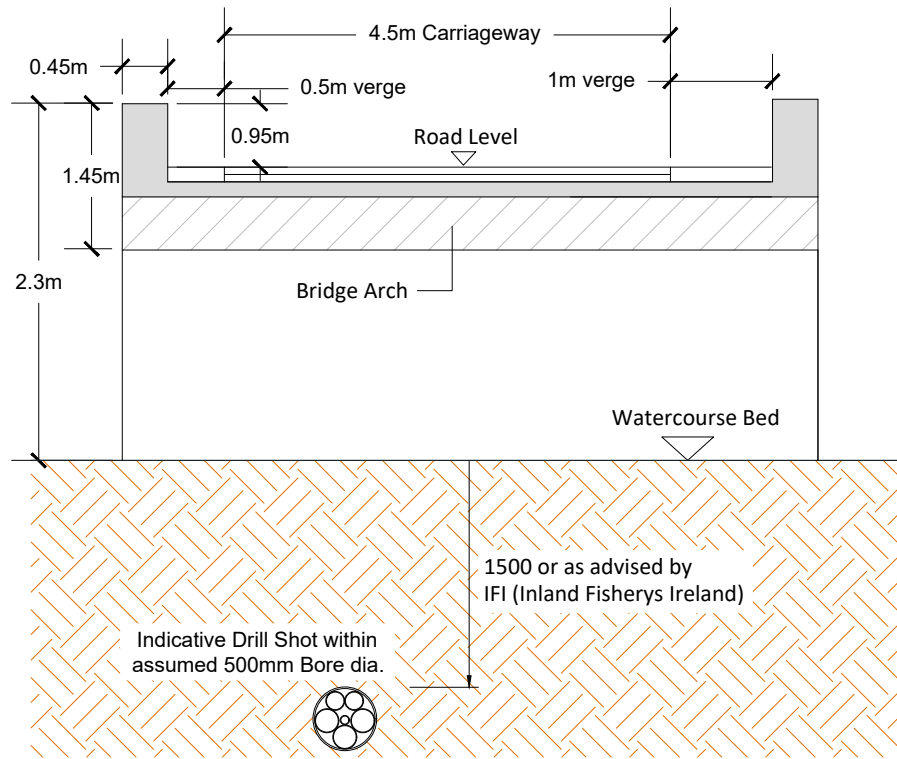
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Plan View Bridge No 7
Scale : 1:250



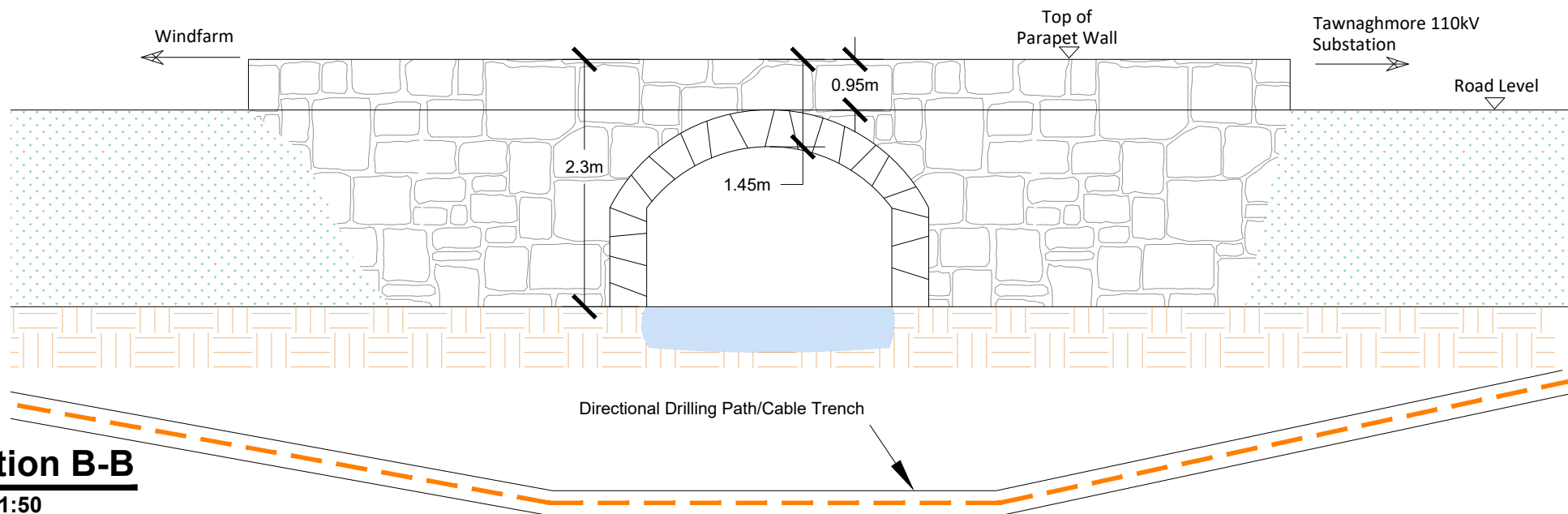
Section A-A
Scale : 1:50



Photo No. 1



Photo No. 2



Section B-B
Scale 1:50

NOTES:

- All dimensions are shown in meters unless otherwise stated.
- No structural bridge surveys have been carried out and the proposals are subject to detail design.
- Drawings are in compliance with ESBN specification requirements for shallow formation, bridge crossings, etc.
- HDD launch and reception pit locations to be determined following site investigation.



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SHEET NUMBER
05795-DR-237

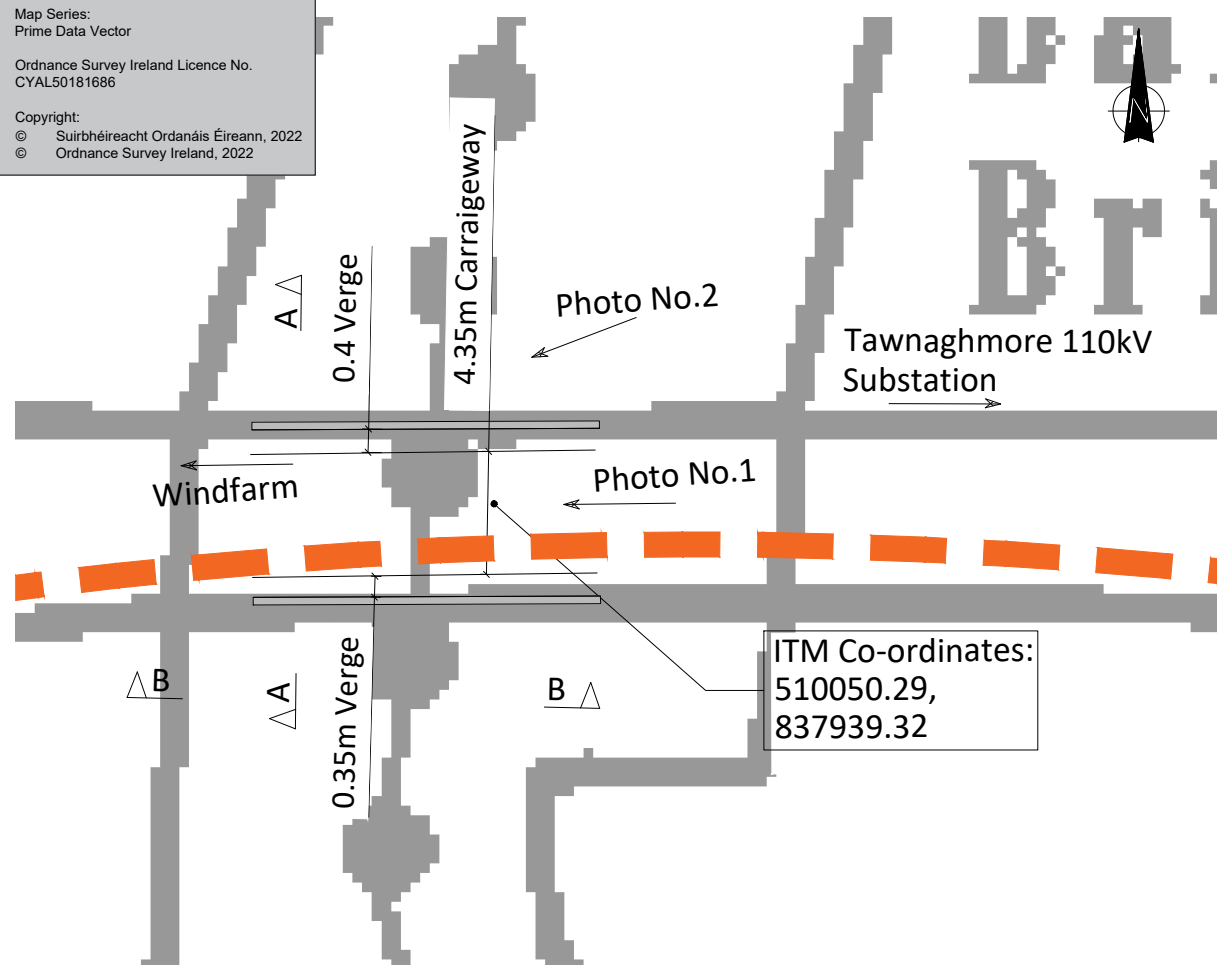
SHEET TITLE
Bridge 7 - Proposed HDD Crossing

DRAWING STATUS
For Information

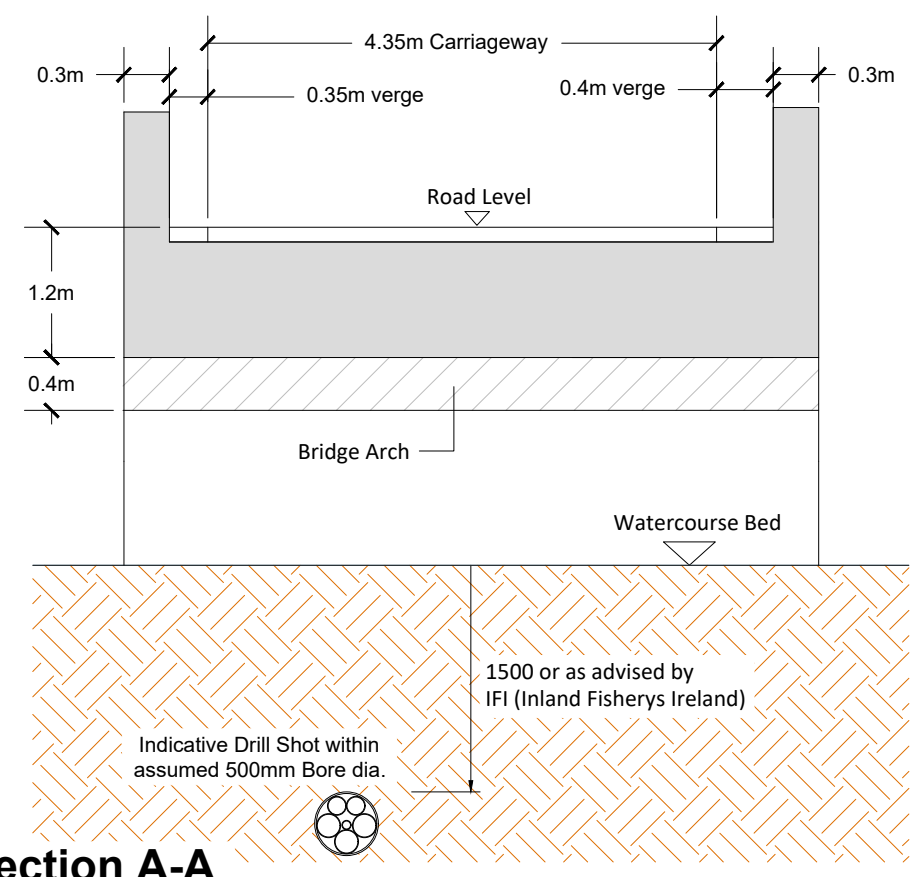
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Plan View Bridge No 8
Scale : 1:250



Section A-A
Scale : 1:50

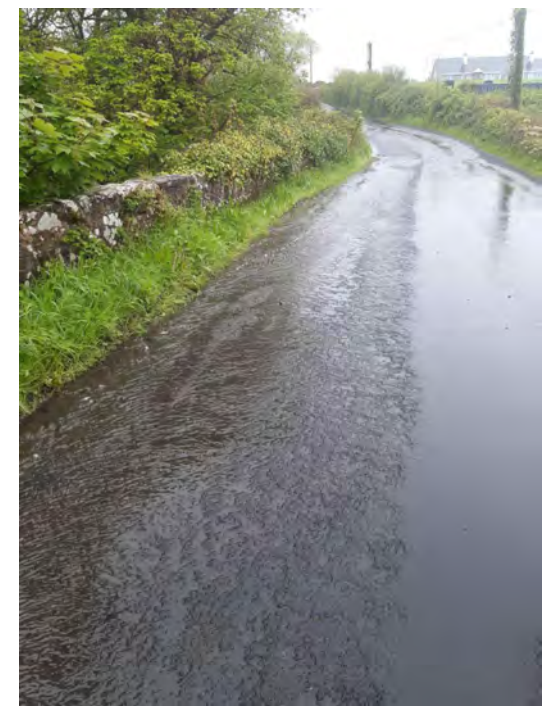
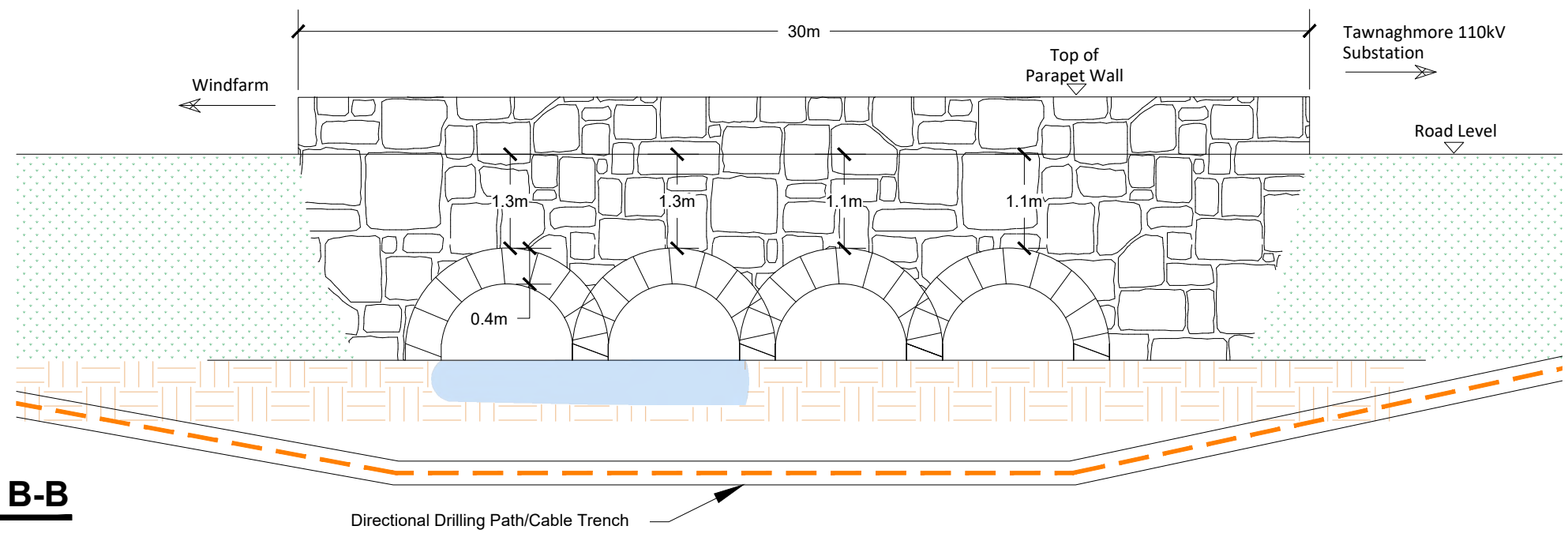


Photo No. 1



Photo No. 2



Section B-B
Scale 1:50

- NOTES:**
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 - No structural bridge surveys have been carried out and the proposals are subject to detail design.
 - Drawings are in compliance with ESNB specification requirements for shallow formation, bridge crossings, etc.
 - HDD launch and reception pit locations to be determined following site investigation.

tli GROUP
Head Office
Beenreigh,
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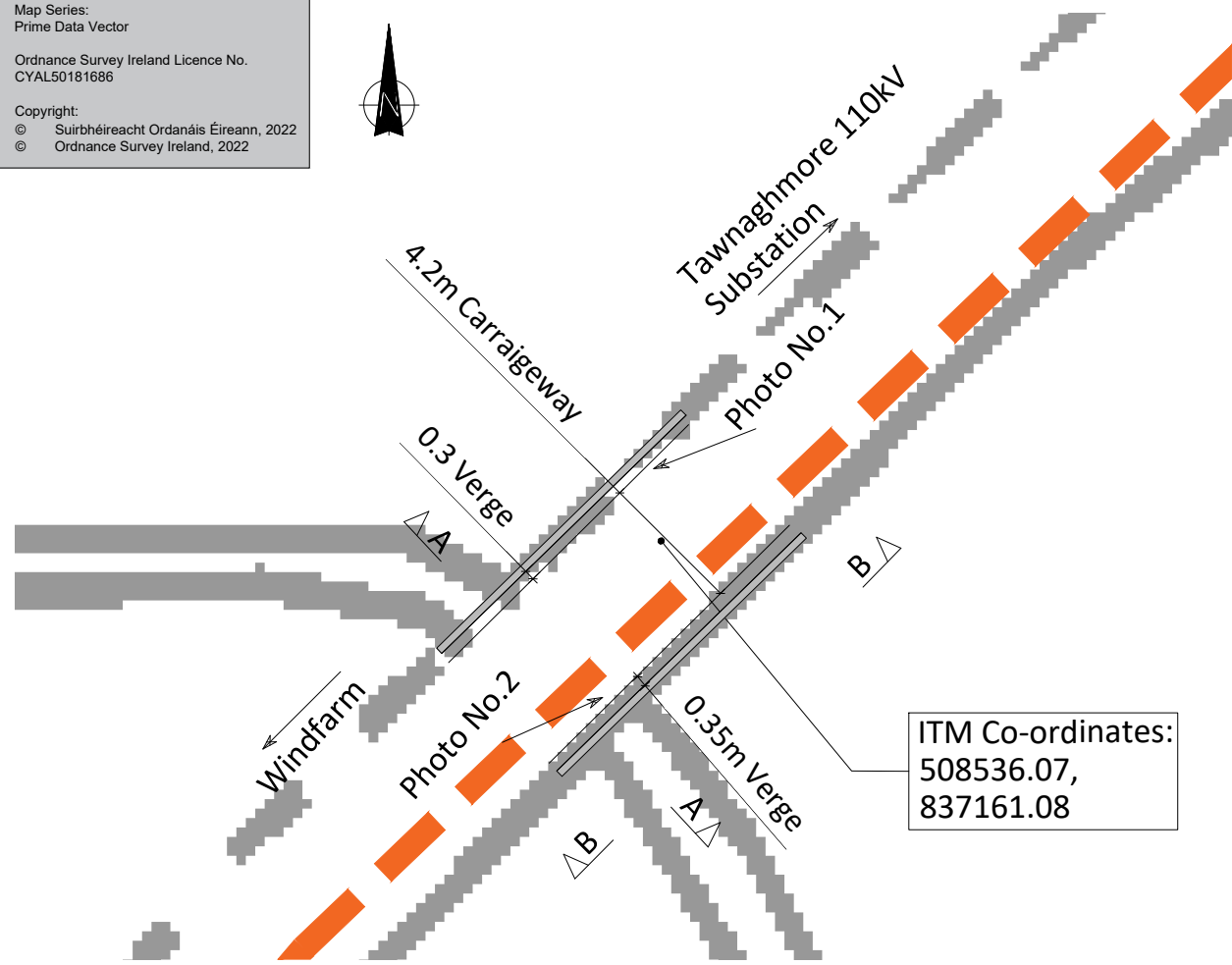
CLIENT
FuturaEnergy Ireland
SSE
Renewables

PROJECT
**Glenora Wind Farm
110kV Grid Connection**
PROJECT NUMBER: 05-795
SHEET NUMBER: 05795-DR-238

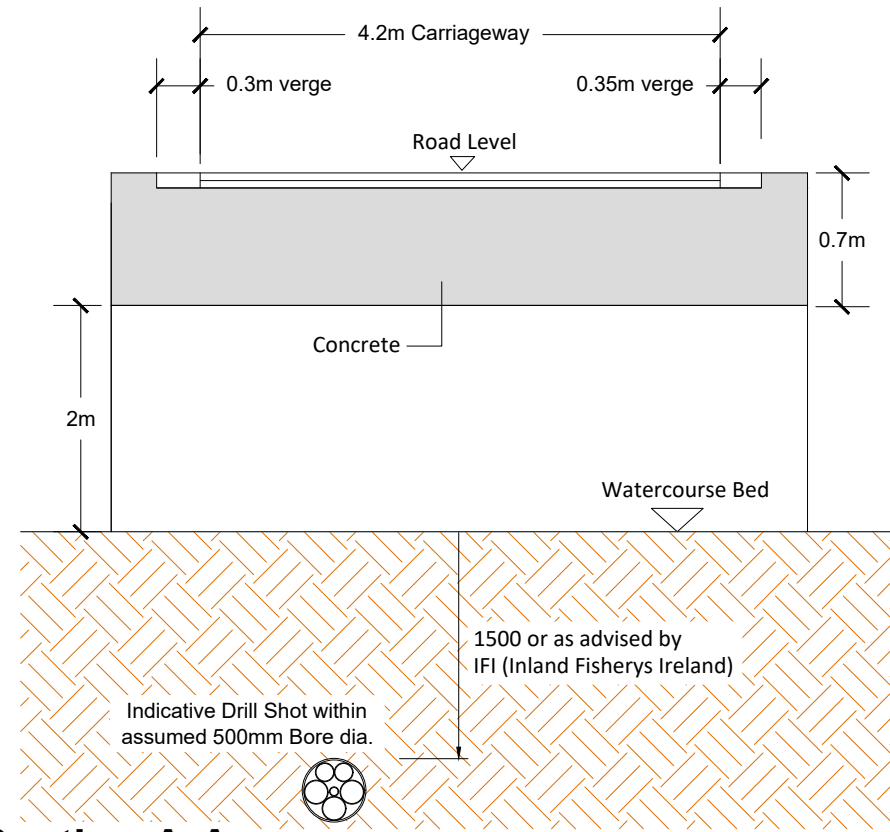
SHEET TITLE
Bridge 8 - Proposed HDD Crossing
DRAWING STATUS
For Information

ISSUE/REVISION		
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Plan View Bridge No 9
Scale : 1:250



Section A-A
Scale : 1:50

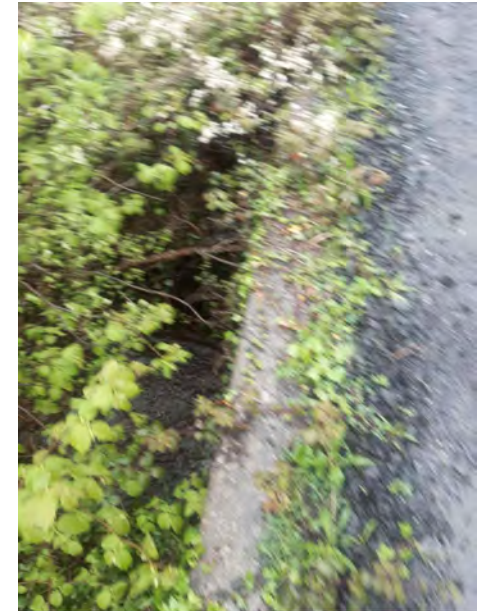
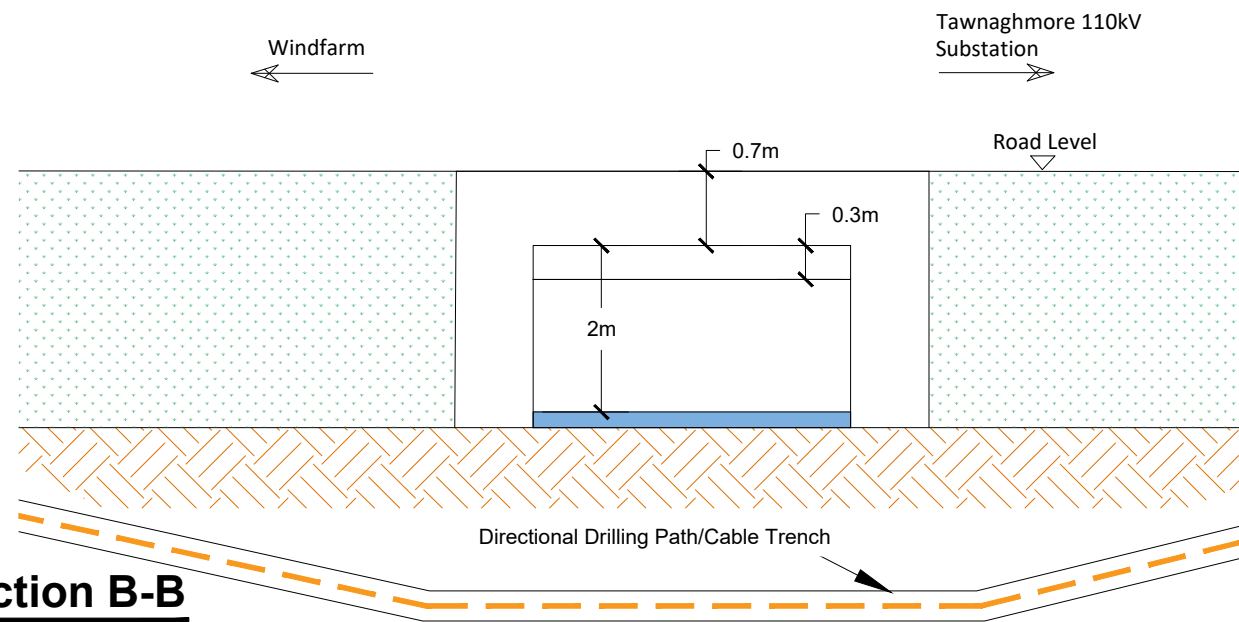


Photo No. 1



Photo No. 2



Section B-B
Scale 1:50

NOTES:

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

PROJECT NUMBER
05-795

SHEET NUMBER
05795-DR-239

SHEET TITLE
Bridge 9 - Proposed HDD Crossing

DRAWING STATUS
For Information

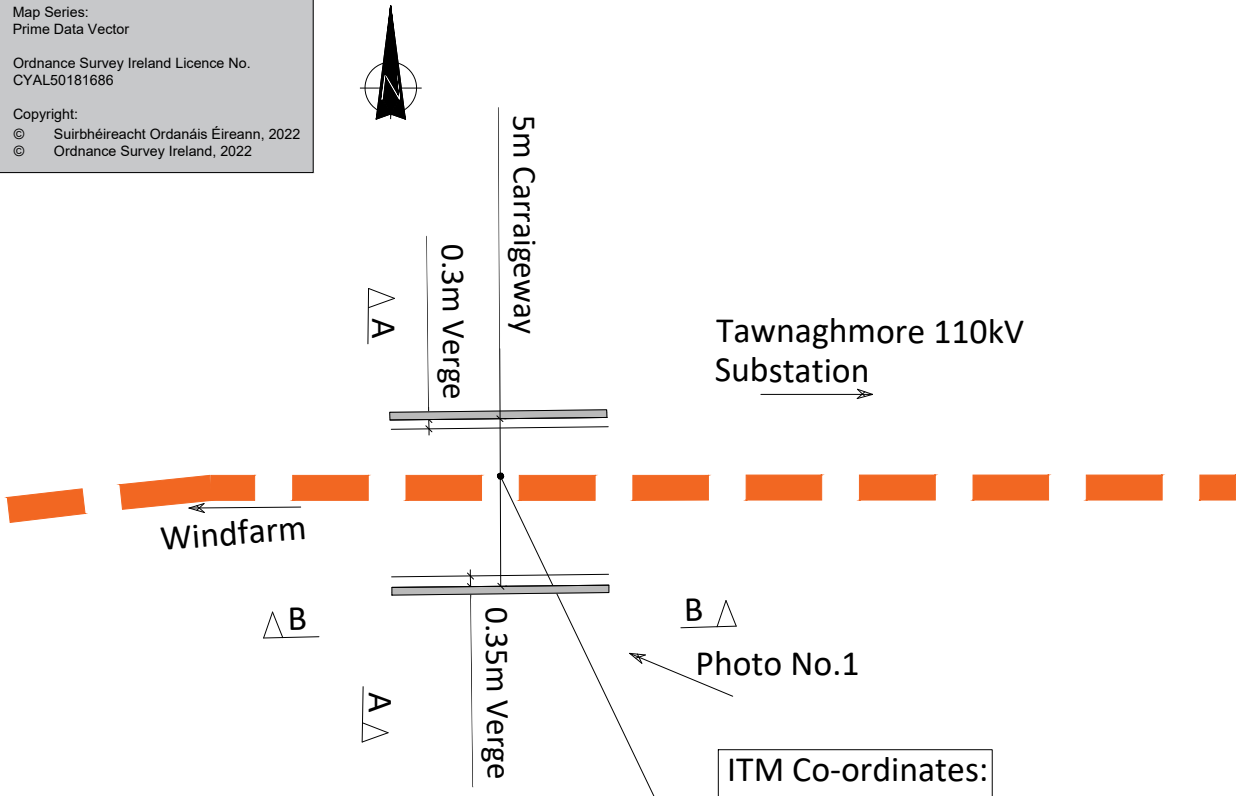
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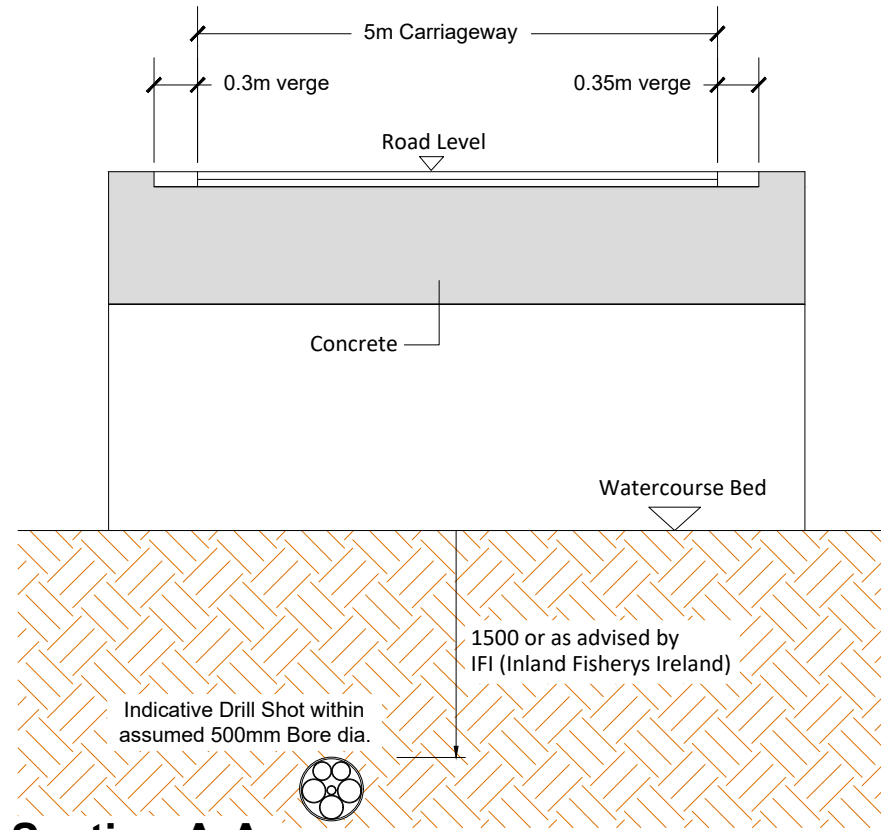
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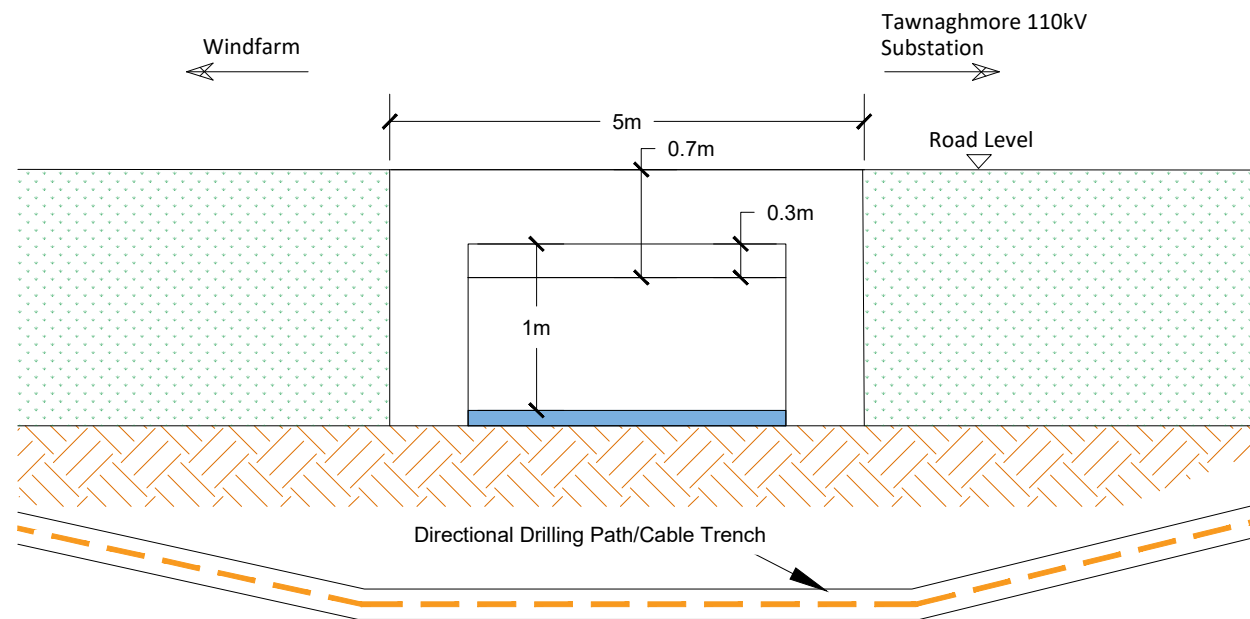
Plan View Bridge No 10
Scale : 1:250



Section A-A
Scale : 1:50



Photo No. 1



Section B-B
Scale 1:50

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

PROJECT NUMBER
05-795
SHEET NUMBER
05795-DR-240

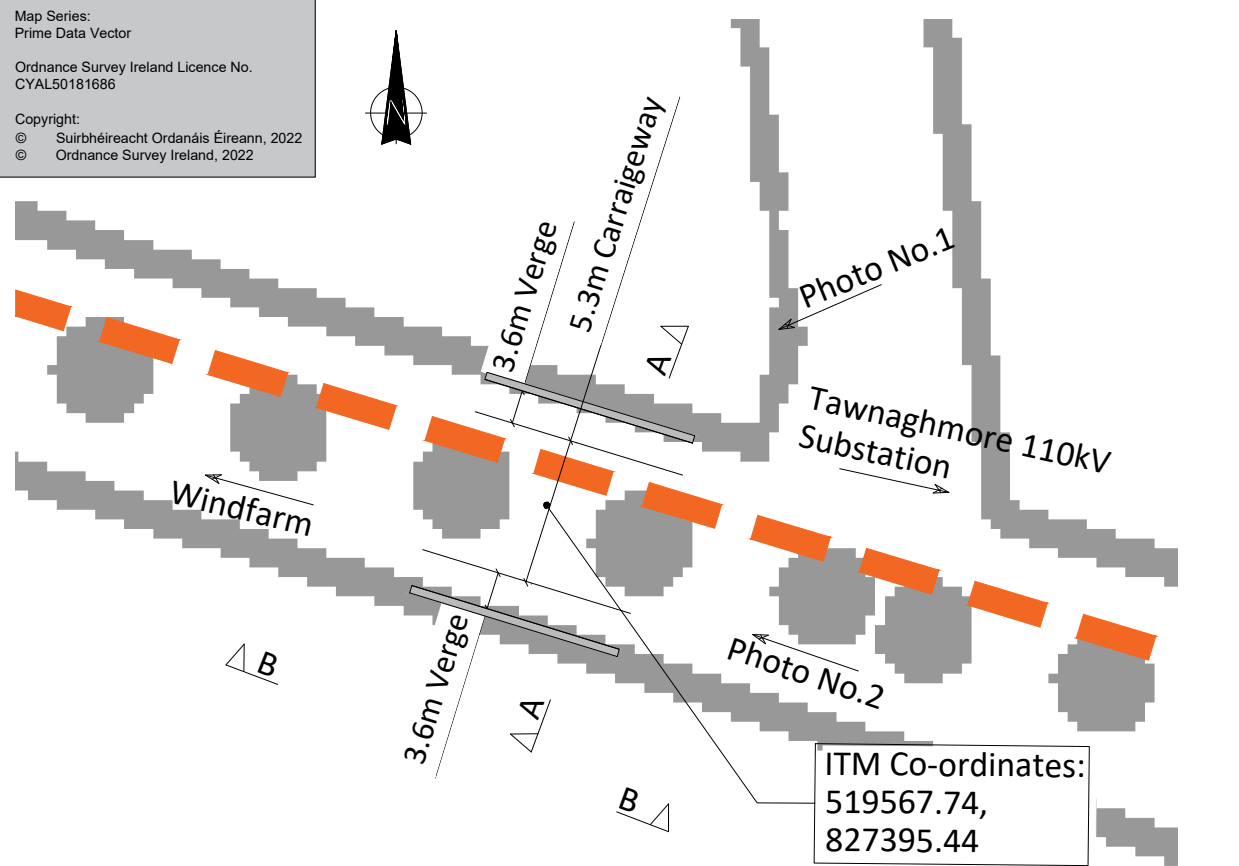
SHEET TITLE
Bridge 10 - Proposed HDD Crossing

DRAWING STATUS
For Information

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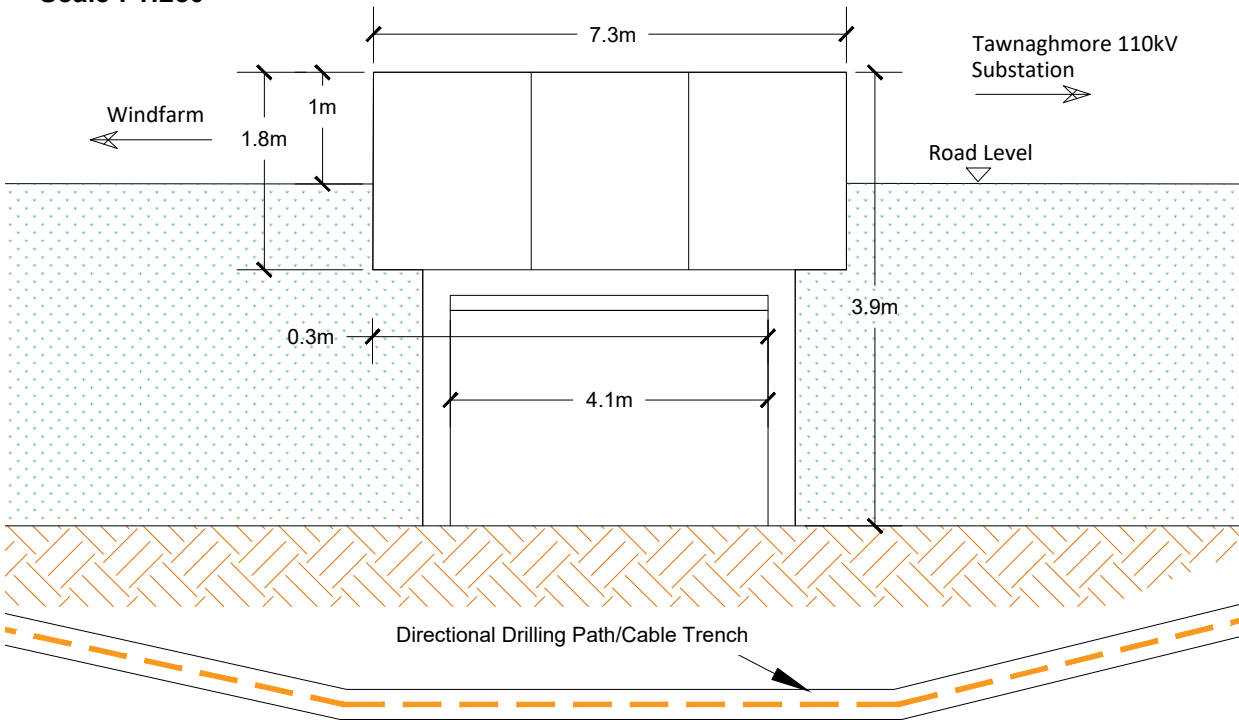
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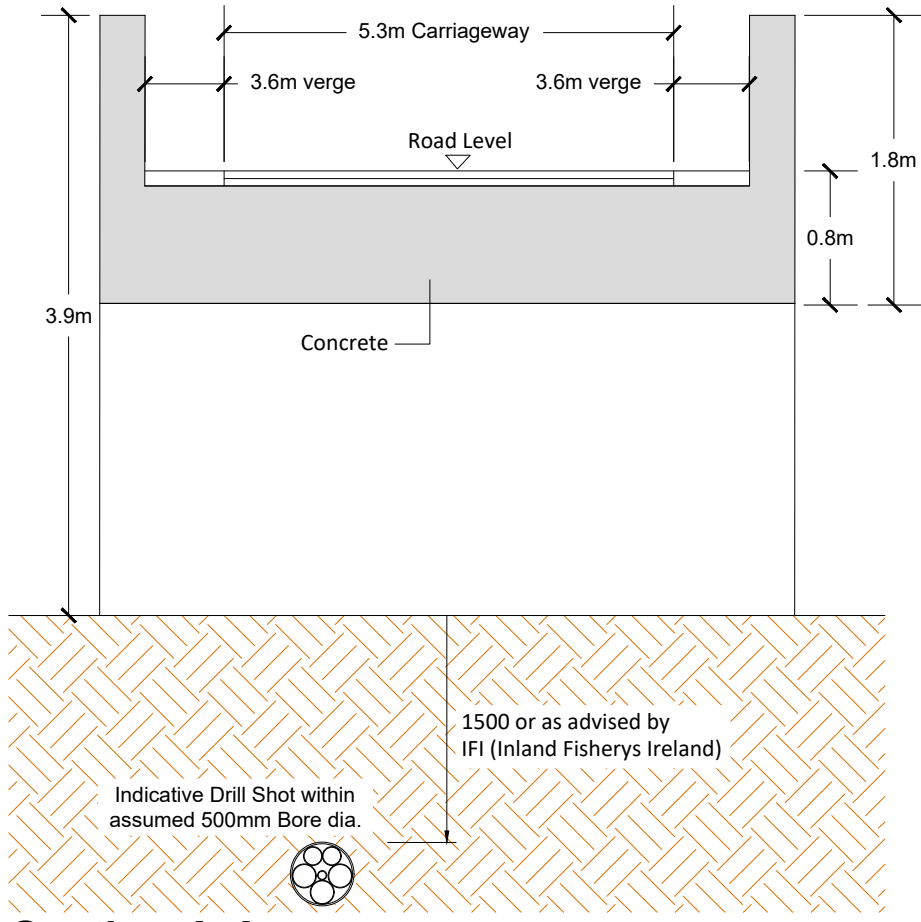
Plan View Cattle Underpass

Scale : 1:250



Section B-B

Scale 1:50



Section A-A

Scale : 1:50



Photo No. 1



Photo No. 2

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PROJECT
**Glenora Wind Farm
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PROJECT NUMBER: 05-795
SHEET NUMBER: 05795-DR-241

SHEET TITLE
**Cattle underpass proposed
HDD crossing**
DRAWING STATUS
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Map Series:
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	Description
SA	Surge Arrester.
DL/DE	Line / Earth Disconnect.
DT	Disconnect
VT	Voltage Transformer.
CT	Current Transformer.
CB	Circuit Breaker.
PI	Post Insulator.
LM	Lighting Mast.
LS	Lamp Standard
CSE	Cable Sealing End

Drawing Notes:

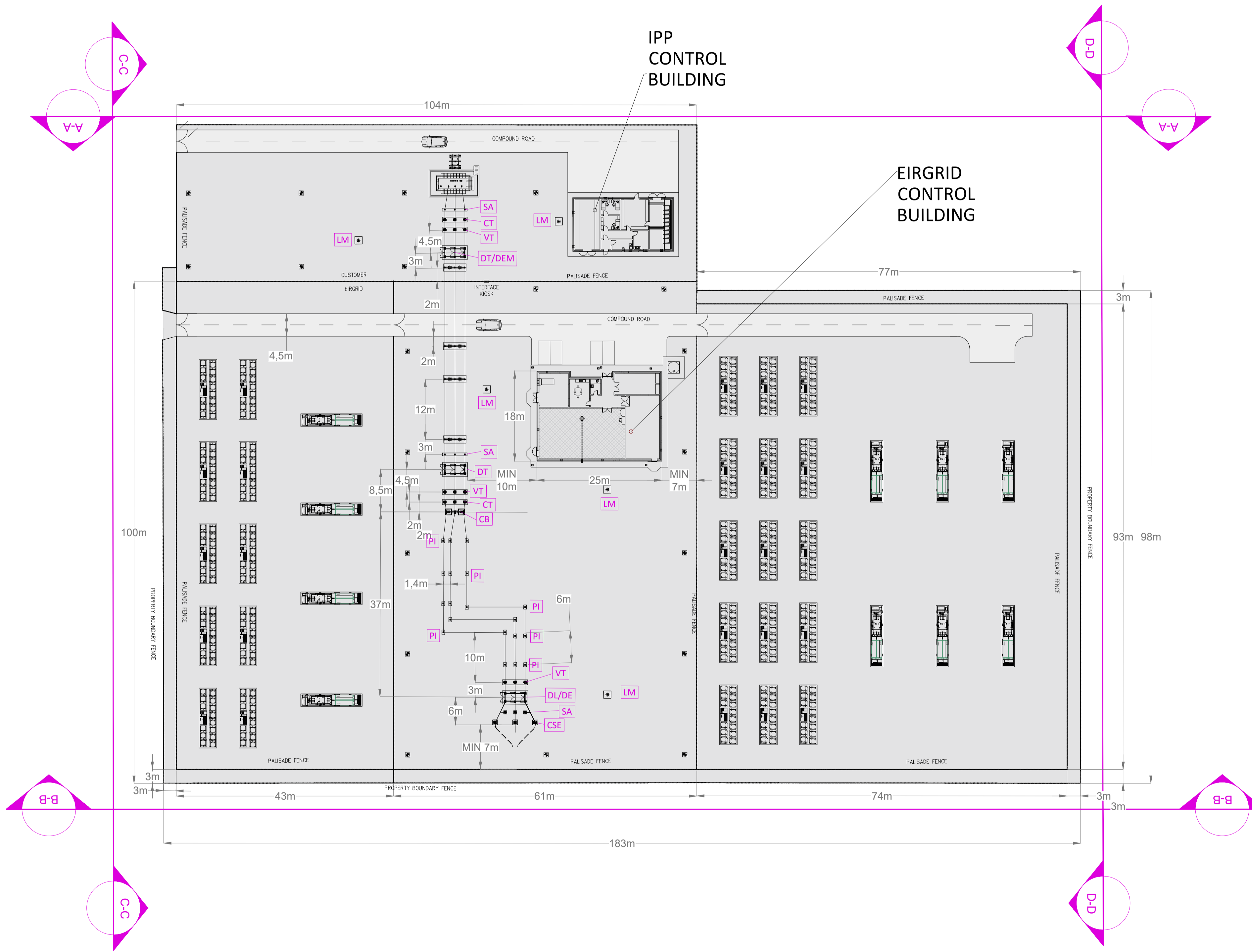
- Layout and Arrangements of Substation Building and Electrical Equipment is shown indicatively and for illustration purposes only.
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- Final Specifications of Buildings and Electrical Equipment is to be as per EirGrid and ESB Specifications.
- The Elevation of the Compound will be depicted by localized Topography such that Cut/Fill Earthworks associated with the construction of the Compound are balanced.
- An oil interceptor will be installed below ground, position TBC during detailed design.

I/R	DATE	DESCRIPTION
F00	04.07.22	Issued for Information

05-795

Substation Layout Plan

05795-DR-300



Substation Layout Plan
 Scale : 1:500

PROJECT

**Glenora Wind Farm
 110kV Grid Connection**

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NOTES: -

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LEGEND: -

	Description
SA	Surge Arrester.
DL/DE	Line / Earth Disconnect.
DT	Disconnect
VT	Voltage Transformer.
CT	Current Transformer.
CB	Circuit Breaker.
PI	Post Insulator.
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CSE	Cable Sealing End

ISSUE/REVISION

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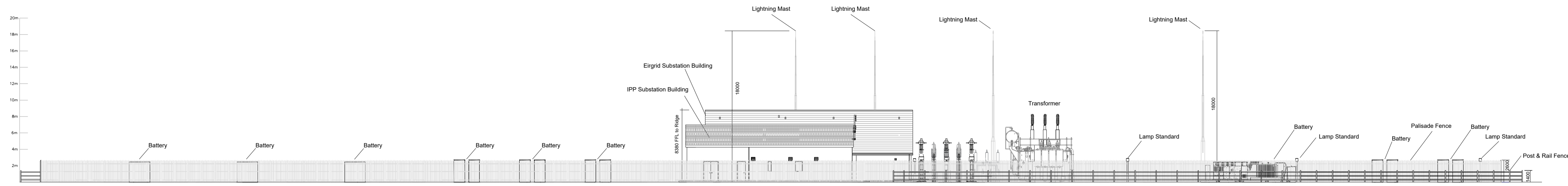
05-795

SHEET TITLE

Substation Elevations

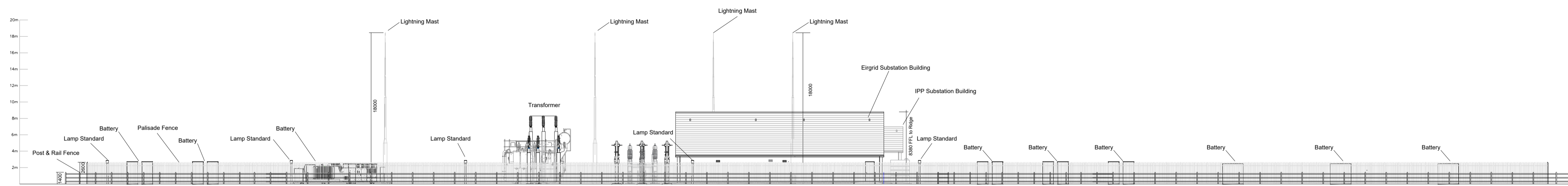
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05795-DR-303



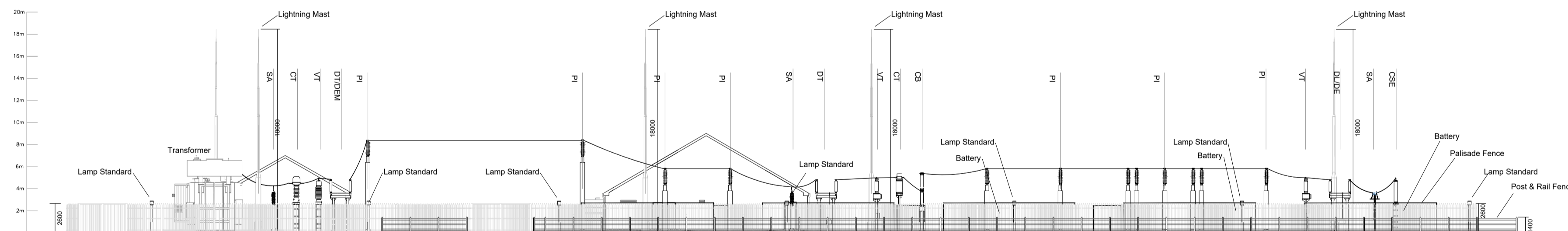
Section A-A Elevation

SCALE 1:200



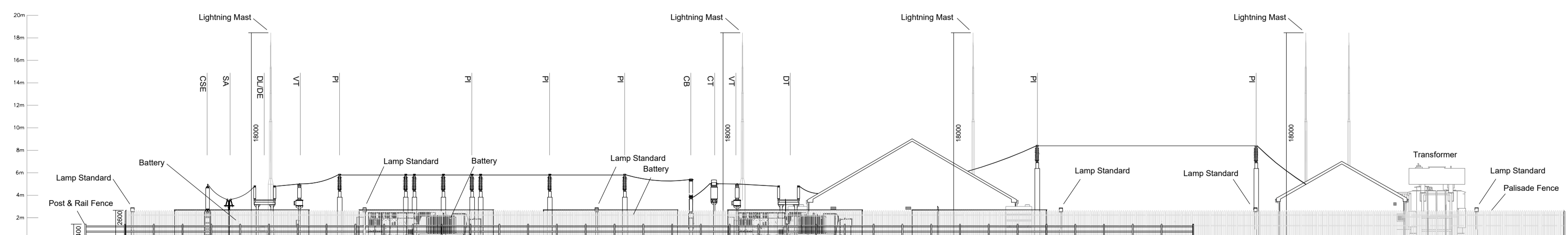
Section B-B Elevation

SCALE 1:200



Section C-C Elevation

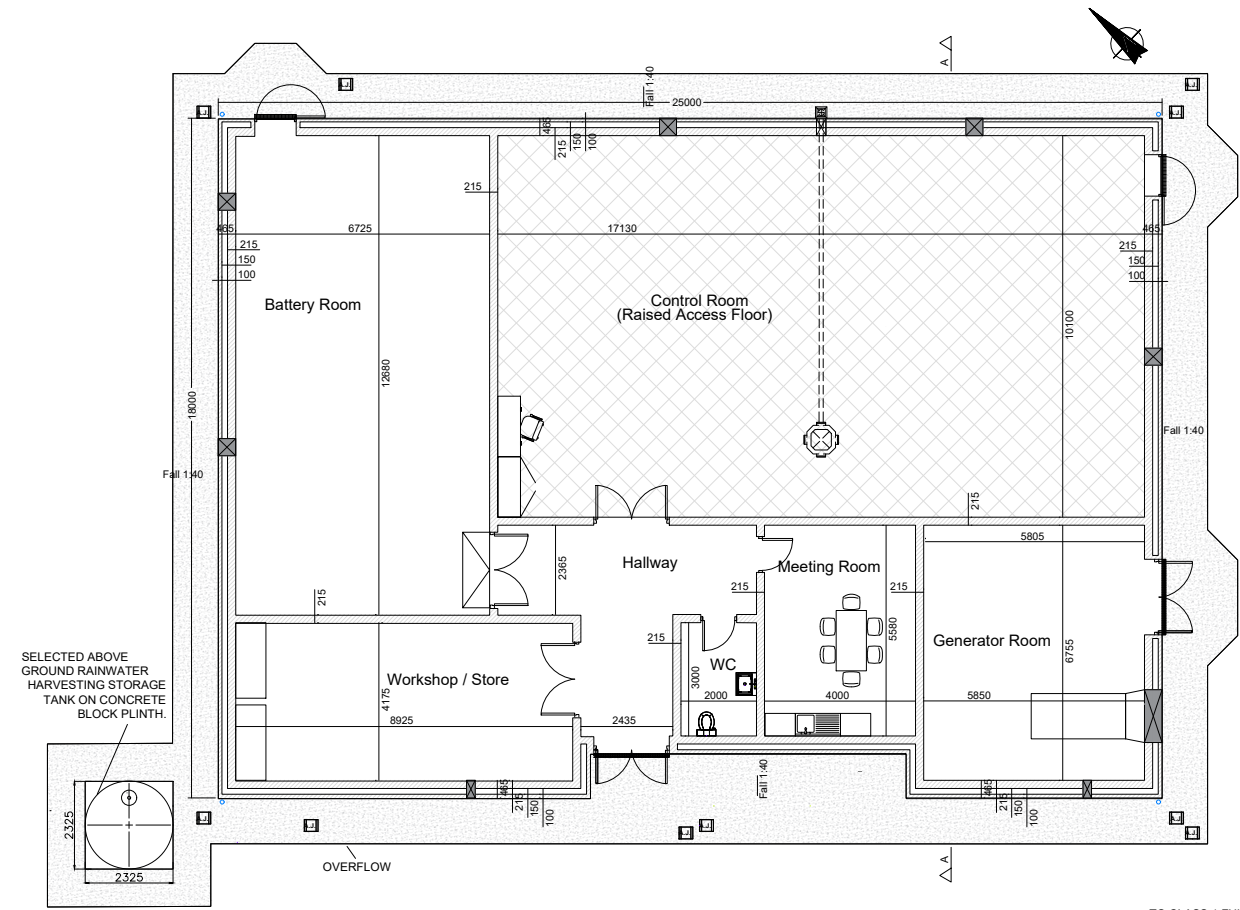
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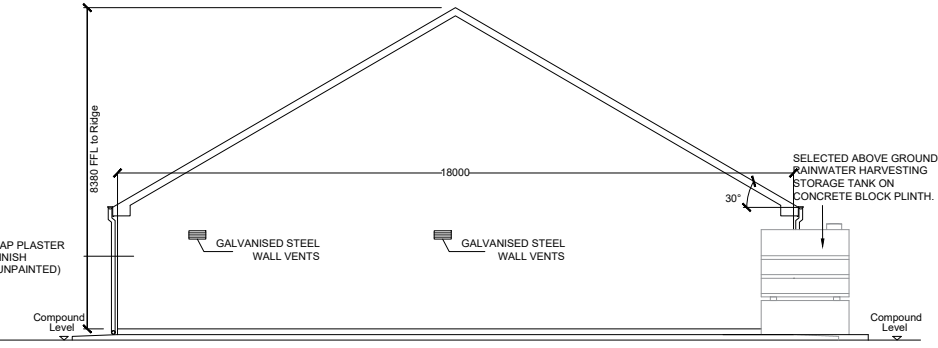
Section D-D Elevation

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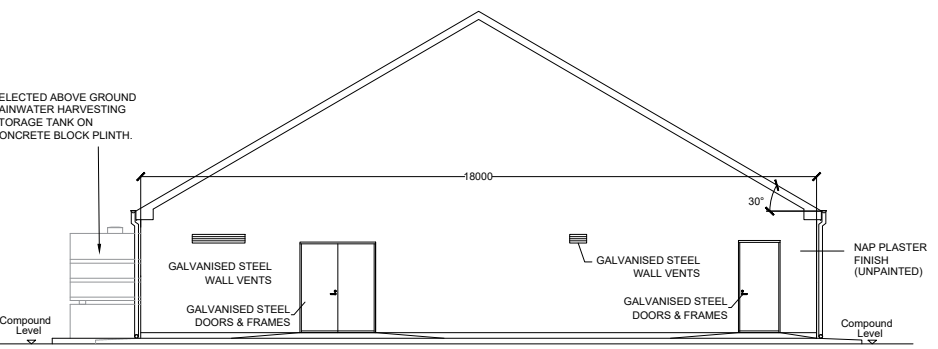
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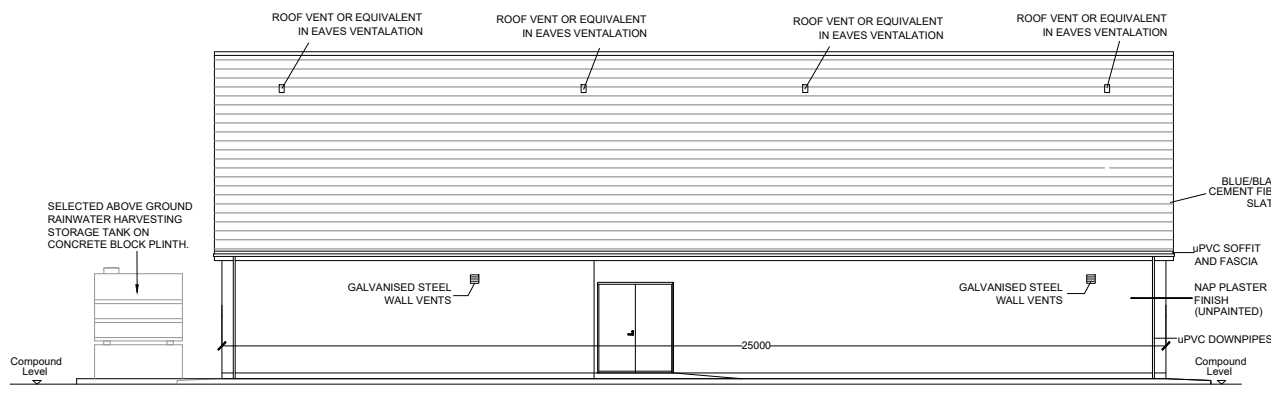
PLAN - CONTROL BUILDING
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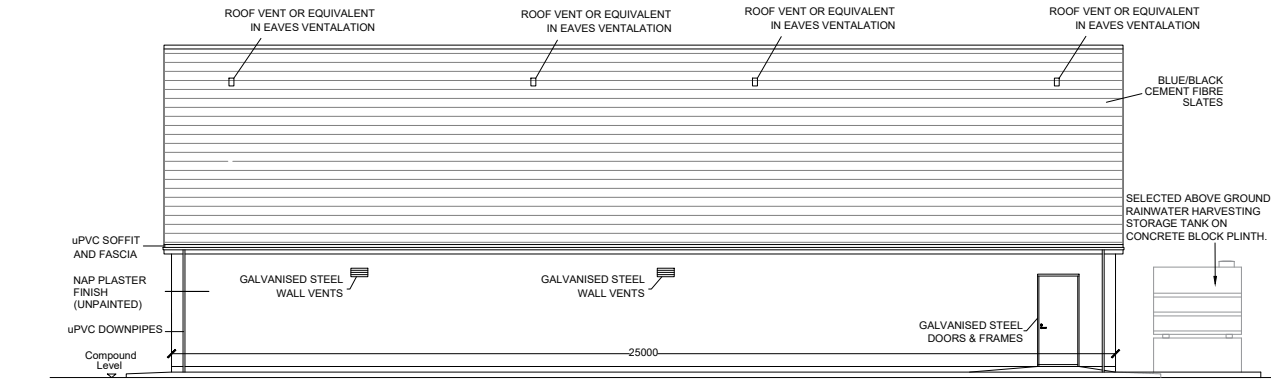
NORTH EAST ELEVATION
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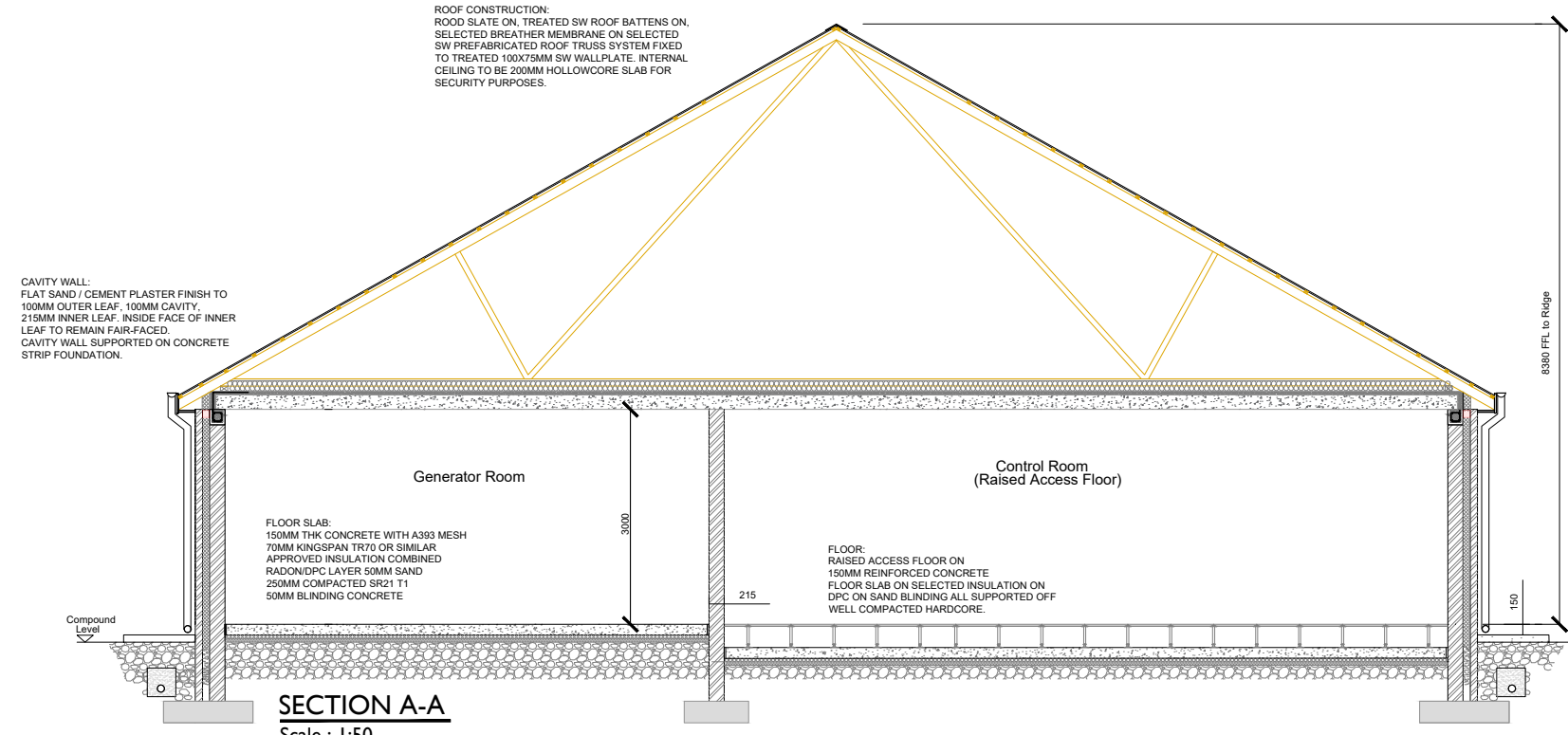
SOUTH WEST ELEVATION
Scale : 1:100



SOUTH EAST ELEVATION
Scale : 1:100



NORTH WEST ELEVATION
Scale : 1:100



SECTION A-A
Scale : 1:50



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PROJECT
Glenora Wind Farm
110kV Grid Connection



- NOTES:**
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LEGEND:
Concrete Footpath shown thus

ISSUE/REVISION

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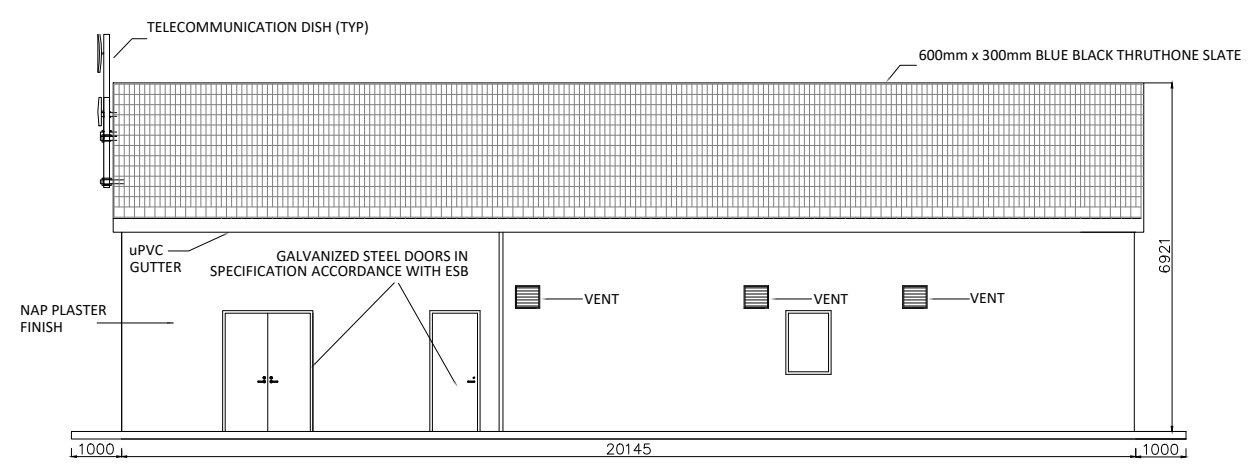
PROJECT NUMBER
05-795

SHEET TITLE
Control Building - Plan & Elevations & Section

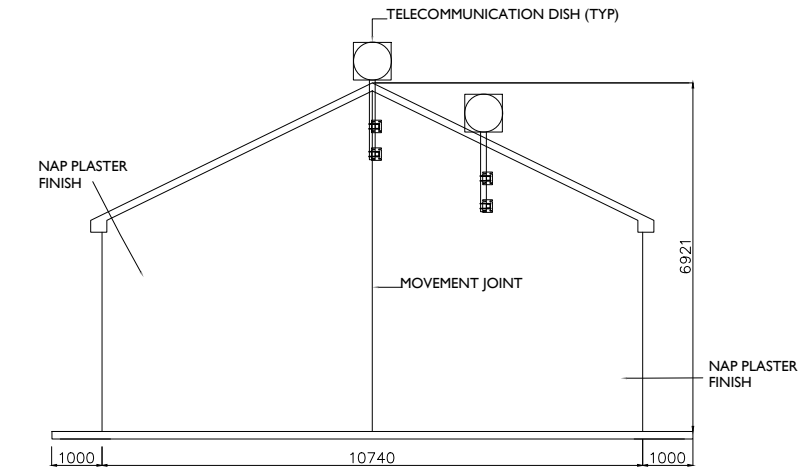
SHEET NUMBER
05795-DR-304

Project Management Initials: Designer: JC Checked: POS Approved: GH

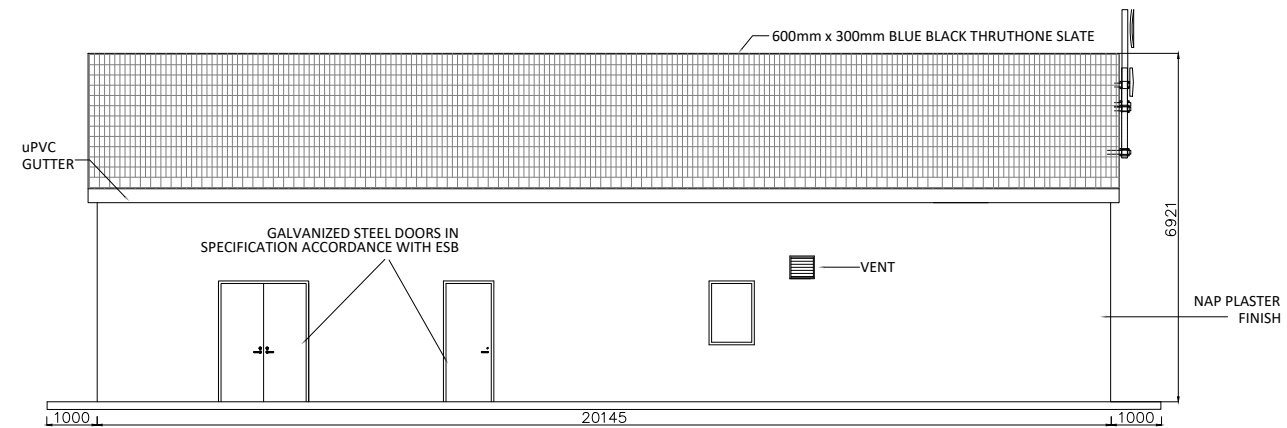
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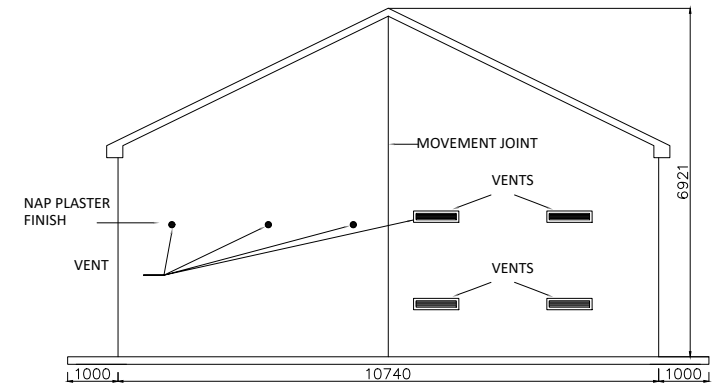
SOUTH EAST ELEVATION
Scale : 1:75



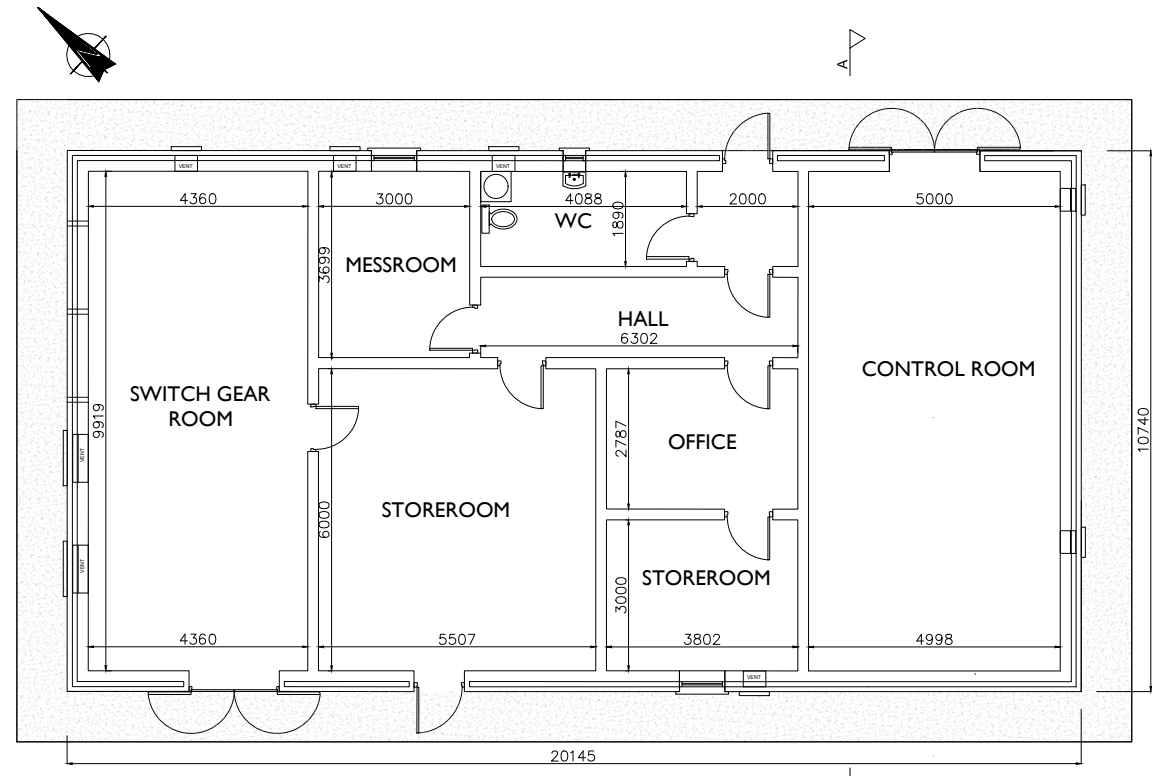
SOUTH WEST ELEVATION
Scale : 1:75



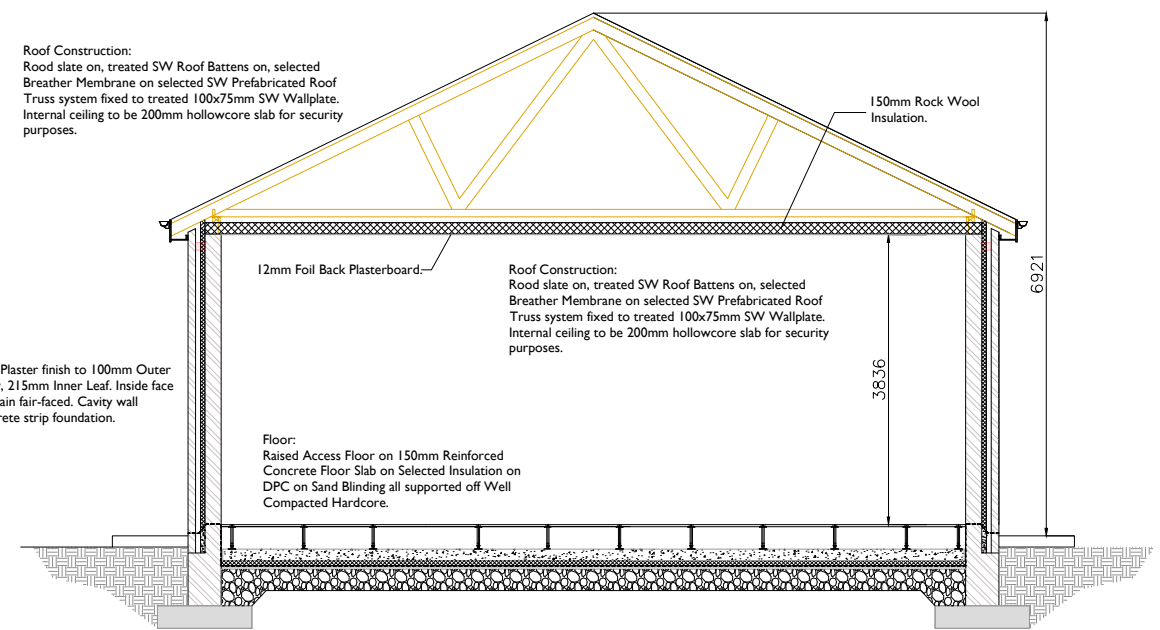
NORTH WEST ELEVATION
Scale : 1:75



NORTH EAST ELEVATION
Scale : 1:75



PLAN - IPP BUILDING
Scale : 1:100



Roof Construction:
Rood 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.

Floor:
Raised Access Floor on 150mm Reinforced Concrete Floor Slab on Selected Insulation on DPC on Sand Blinding all supported off Well Compacted Hardcore.

SECTION A-A
Scale : 1:50



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PROJECT
Glenora Wind Farm
110kV Grid Connection

CLIENT
FuturaEnergy Ireland
SSE Renewables

CONSULTANTS
Miko

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PROJECT NUMBER
05-795

SHEET TITLE
IPP Building - Plan & Elevations & Section

SHEET NUMBER
05795-DR-305