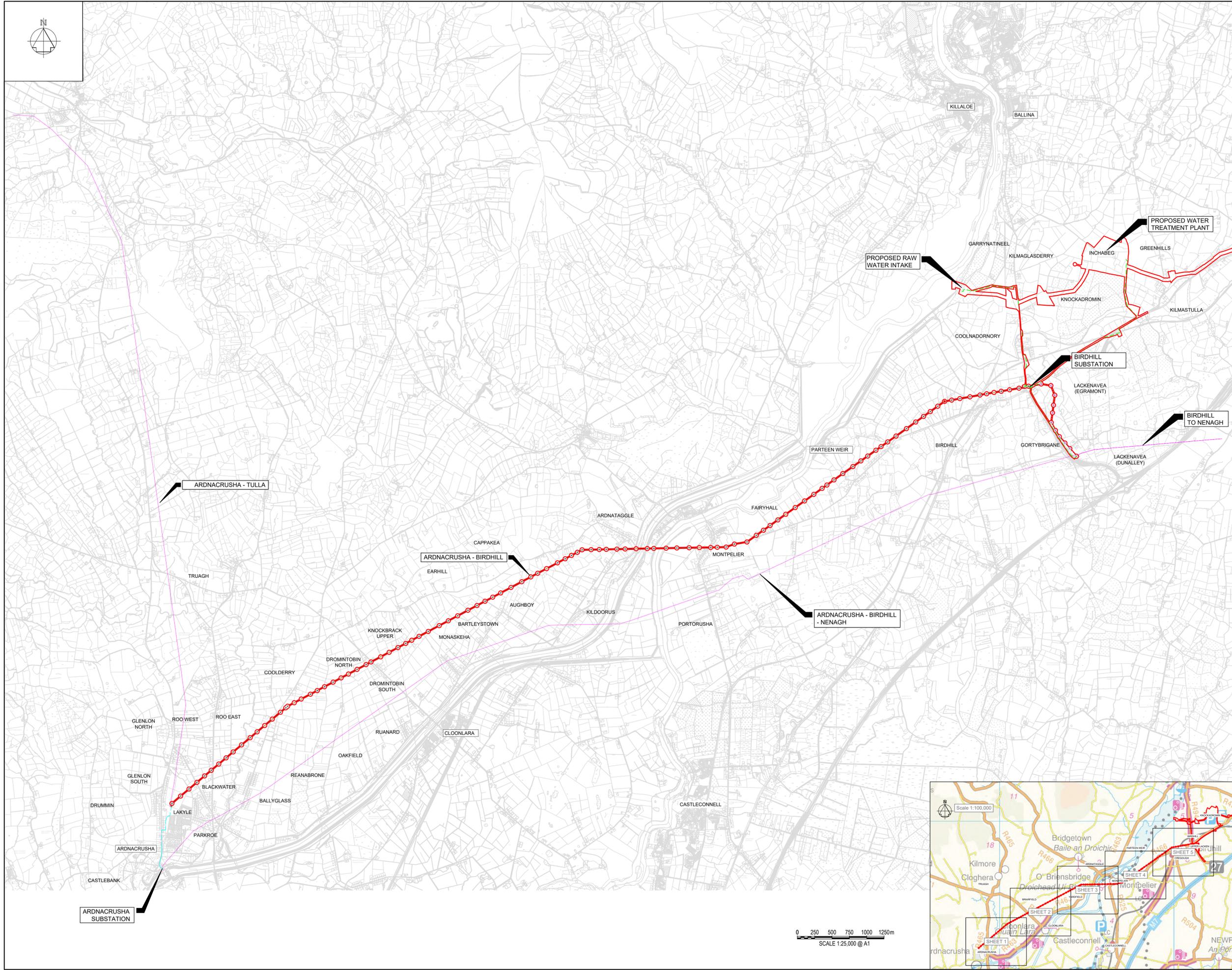




- Notes:
- ALL DIMENSIONS ARE IN METRES AND ALL LEVELS ARE IN METRES AOD MALIN HEAD UNLESS OTHERWISE STATED
 - THIS DRAWING IS FOR PLANNING PURPOSES ONLY.

OSI Sheet No(s):
 4444, 4445, 4446, 4447, 4448, 4503, 4504, 4505, 4506, 4507, 4563, 4564, 4565, 4566, 4567, 4622, 4623, 4624, 4625, 4626.

- LEGEND
- PLANNING APPLICATION BOUNDARY
 - POLESETS TO BE REPLACED
 - EXISTING POLESETS
 - POLESETS TO BE RETIRED
 - 38kV MAST TO BE REPLACED
 - 38kV MAST TO REMAIN
 - 38kV MAST TO BE RETIRED
 - EXISTING POLESETS OUTSIDE PLANNING APPLICATION BOUNDARY
 - PROPOSED UNDERGROUND CABLE
 - 38kV LINE TO BE RETIRED
 - EXISTING OVERHEAD LINE
 - EXISTING UNDERGROUND CABLE



F01	FINAL FOR PLANNING	EM	BG	BG	DEC 25
A01	FOR PLANNING	MN	BG	BG	FEB 25
Rev	Description	Drawn	Chk'd	App'd	Date

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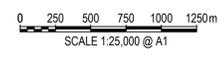
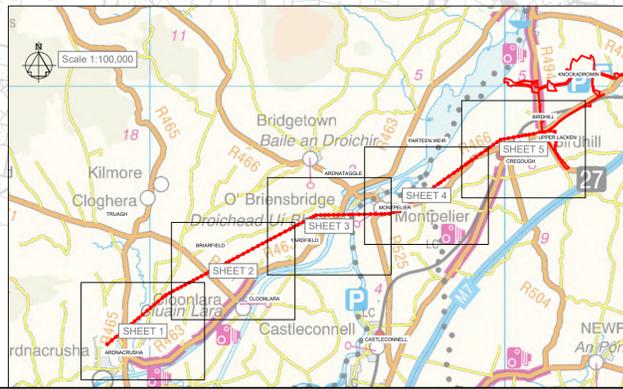
Uisce Éireann
Irish Water

UISCE ÉIREANN
COLVILL HOUSE,
TALBOT STREET,
DUBLIN 1,
IRELAND

Call 1890 278 278
Int: 00 353 1 707 2828

Jacobs TOBIN

Originated By DC	Drawn By MN	Checked By BG	Approved By BG
Date 08.03.25	Date 01.12.25	Date 01.12.25	Date 01.12.25
Scale 1:25000 @ A1			
Project Title WATER SUPPLY PROJECT EASTERN AND MIDLANDS REGION			
Drawing Title 38kV UPRATE WORKS SITE LOCATION OVERVIEW			
Drawing Status FINAL FOR PLANNING			
Jacobs Tobin No. 32105801		Client No. 9318	
Drawing No. 32105801-850-38kv-001			

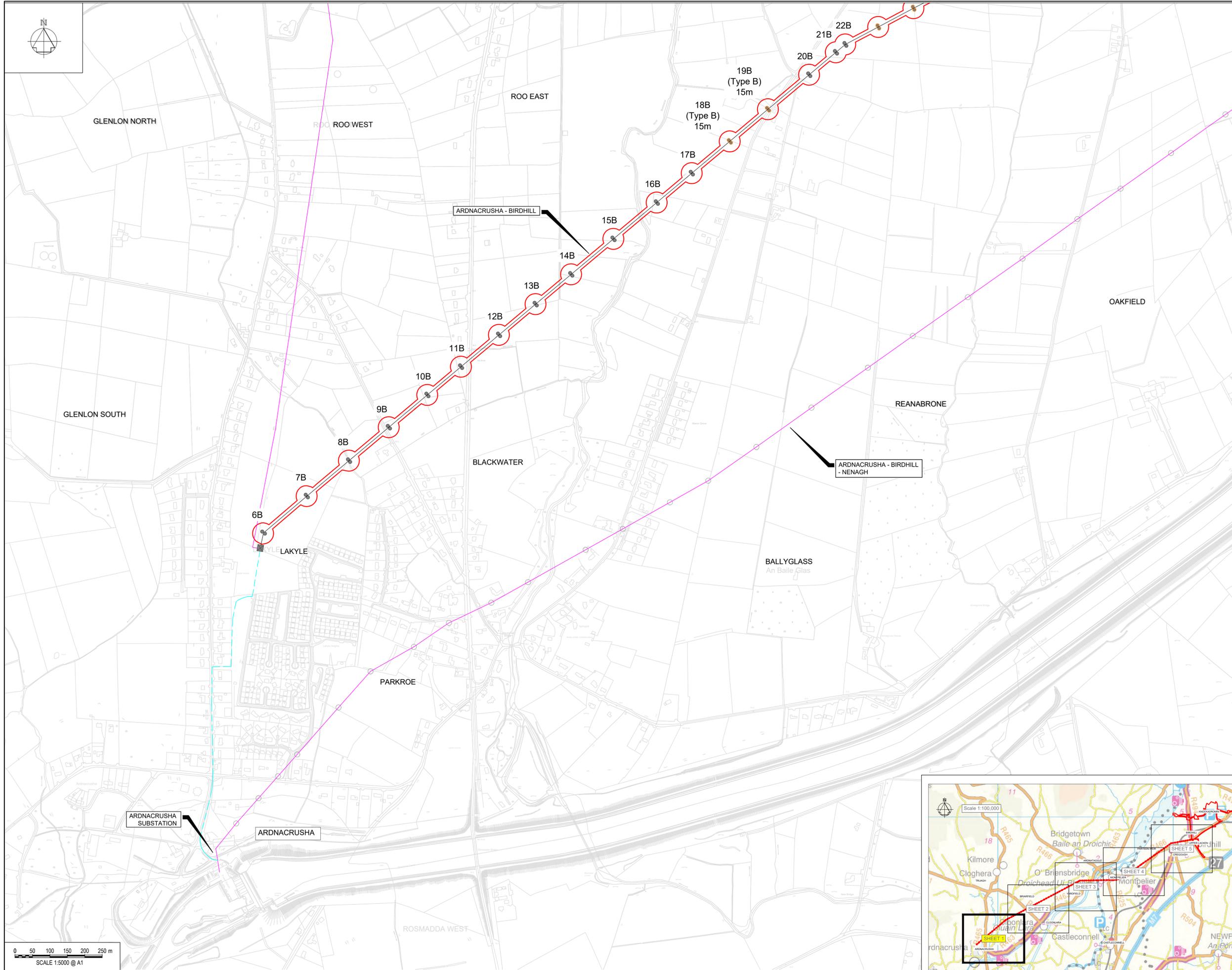




Notes:
1. ALL DIMENSIONS ARE IN METRES AND ALL LEVELS ARE IN METRES AOD **MALIN HEAD** UNLESS OTHERWISE STATED
2. THIS DRAWING IS FOR PLANNING PURPOSES ONLY.

OSI Sheet No(s):
4563, 4564, 4622, 4623.

- LEGEND
- PLANNING APPLICATION BOUNDARY
 - POLESETS TO BE REPLACED
 - EXISTING POLESETS
 - POLESETS TO BE RETIRED
 - 38kV MAST TO BE REPLACED
 - 38kV MAST TO REMAIN
 - 38kV MAST TO BE RETIRED
 - EXISTING POLESETS OUTSIDE PLANNING APPLICATION BOUNDARY
 - EXISTING OVERHEAD LINE
 - EXISTING UNDERGROUND CABLE
 - EXISTING 38kV LINE TO BE REPLACED



F01	FINAL FOR PLANNING	EM	BG	BG	DEC 25
A01	FOR PLANNING	MN	BG	BG	FEB 25
Rev	Description	Drawn	Chk'd	App'd	Date

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Tionscadal Soláthair Uisce Water Supply Project
 Uisce Éireann COLVILL HOUSE, TALBOT STREET, DUBLIN 1, IRELAND
 Call 1890 278 278
 Int: 00 353 1 707 2828

Jacobs TOBIN

Originated By	Drawn By	Checked By	Approved By
DC	MN	BG	BG
Date	Date	Date	Date
08.03.25	01.12.25	01.12.25	01.12.25

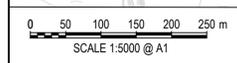
Scale: 1:5,000 @ A1

Project Title
**WATER SUPPLY PROJECT
EASTERN AND MIDLANDS REGION**

Drawing Title
**38kV UPRATE WORKS
LINE ROUTE 1 OF 5**

Drawing Status: FINAL FOR PLANNING
 Jacobs Tobin No. 32105801 | Client No. 9318

Drawing No.
32105801-850-38kv-004

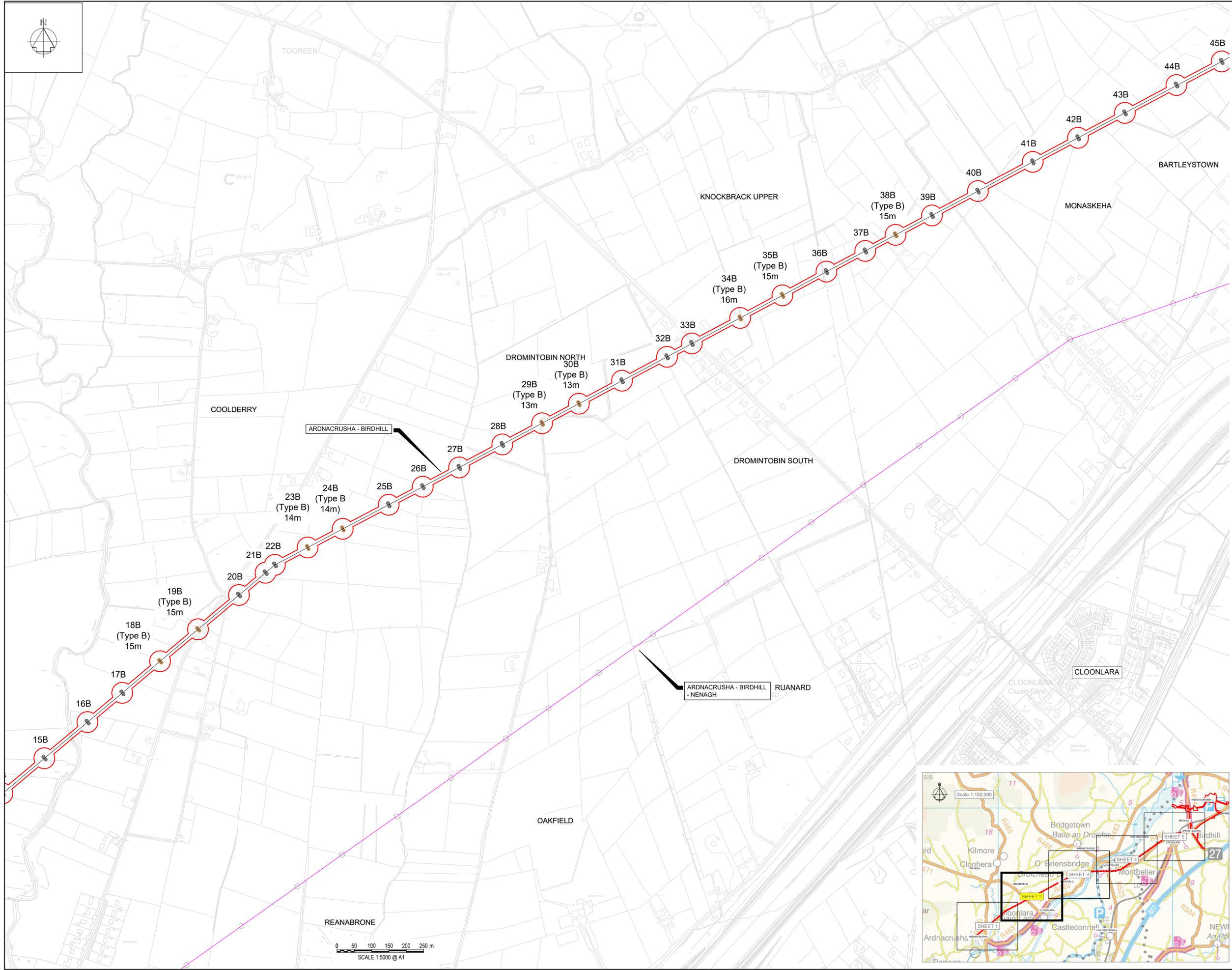




- Notes:
- ALL DIMENSIONS ARE IN METRES AND ALL LEVELS ARE IN METRES AOD MALIN HEAD UNLESS OTHERWISE STATED
 - THIS DRAWING IS FOR PLANNING PURPOSES ONLY.

OSI Sheet No(s):
4504, 4505, 4564, 4565.

- LEGEND
- PLANNING APPLICATION BOUNDARY
 - POLESETS TO BE REPLACED
 - EXISTING POLESETS
 - POLESETS TO BE RETIRED
 - 38kV MAST TO BE REPLACED
 - 38kV MAST TO REMAIN
 - 38kV MAST TO BE RETIRED
 - EXISTING POLESETS OUTSIDE PLANNING APPLICATION BOUNDARY
 - EXISTING OVERHEAD LINE
 - EXISTING 38kV LINE TO BE REPLACED



F01	FINAL FOR PLANNING	EM	BG	BG	DEC 25
A01	FOR PLANNING	MN	BG	BG	FEB 25
Rev	Description	Drawn	Chk'd	App'd	Date

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Uisce Éireann
Irish Water

Tionscadal Soláthair Uisce
Water Supply Project

UISCE ÉIREANN
COLVILL HOUSE,
TALBOT STREET,
DUBLIN 1,
IRELAND

Call 1890 278 278
Int: 00 353 1 707 2828

JACOBS TOBIN

Originated By	Drawn By	Checked By	Approved By
DC	MN	BG	BG
Date	Date	Date	Date
08.03.25	01.12.25	01.12.25	01.12.25

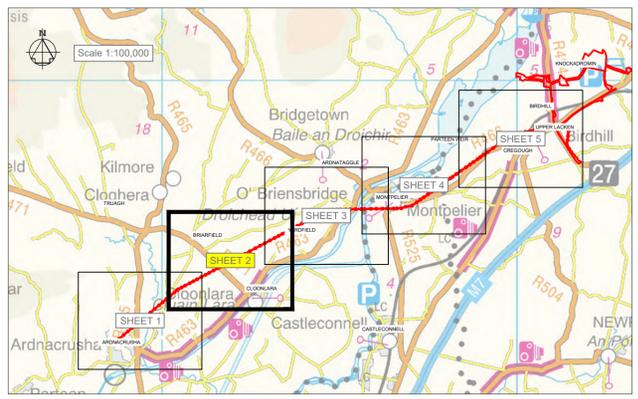
Scale: 1:5,000 @ A1

Project Title: WATER SUPPLY PROJECT
EASTERN AND MIDLANDS REGION

Drawing Title: 38kV UPRATE WORKS
LINE ROUTE 2 OF 5

Drawing Status: FINAL FOR PLANNING
Drawing No. 32105801 Client No. 9318

Drawing No. 32105801-850-38kv-005

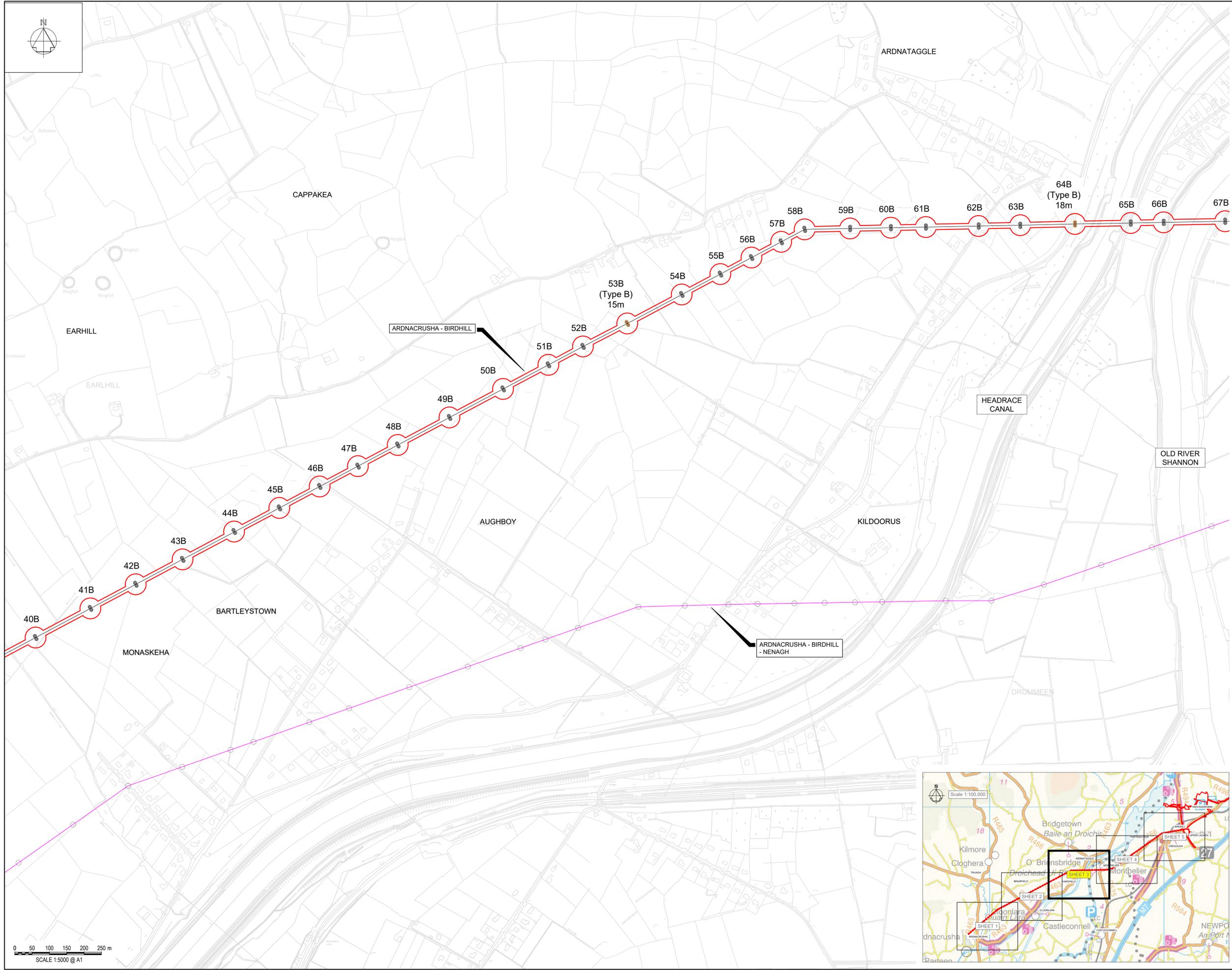




- Notes:
- ALL DIMENSIONS ARE IN METRES AND ALL LEVELS ARE IN METRES AOD **MALIN HEAD** UNLESS OTHERWISE STATED
 - THIS DRAWING IS FOR PLANNING PURPOSES ONLY.

OSI Sheet No(s):
4505, 4565.

- LEGEND
- PLANNING APPLICATION BOUNDARY
 - POLESETS TO BE REPLACED
 - EXISTING POLESETS
 - POLESETS TO BE RETIRED
 - 38kV MAST TO BE REPLACED
 - 38kV MAST TO REMAIN
 - 38kV MAST TO BE RETIRED
 - EXISTING POLESETS OUTSIDE PLANNING APPLICATION BOUNDARY
 - EXISTING OVERHEAD LINE
 - EXISTING 38kV LINE TO BE REPLACED



0 50 100 150 200 250 m
SCALE 1:5000 @ A1

F01	FINAL FOR PLANNING	EM	BG	BG	DEC 25
A01	FOR PLANNING	MN	BG	BG	FEB 25
Rev	Description	Drawn	Chk'd	App'd	Date

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Tionscadal Soláthair Uisce Water Supply Project
 Uisce Éireann COLVILL HOUSE, TALBOT STREET, DUBLIN 1, IRELAND
 Call 1890 278 278 Int: 00 353 1 707 2828

Jacobs TOBIN

Originated By	Drawn By	Checked By	Approved By
DC	MN	BG	BG
Date	Date	Date	Date
08.03.25	01.12.25	01.12.25	01.12.25

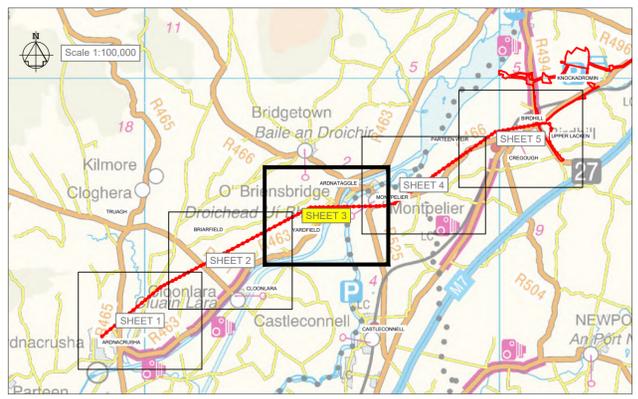
Scale: 1:5,000 @ A1

Project Title
**WATER SUPPLY PROJECT
EASTERN AND MIDLANDS REGION**

Drawing Title
**38kV UPRATE WORKS
LINE ROUTE 3 OF 5**

Drawing Status: FINAL FOR PLANNING
 Jacobs Tobin No. 32105801 Client No. 9318

Drawing No.
32105801-850-38kv-006

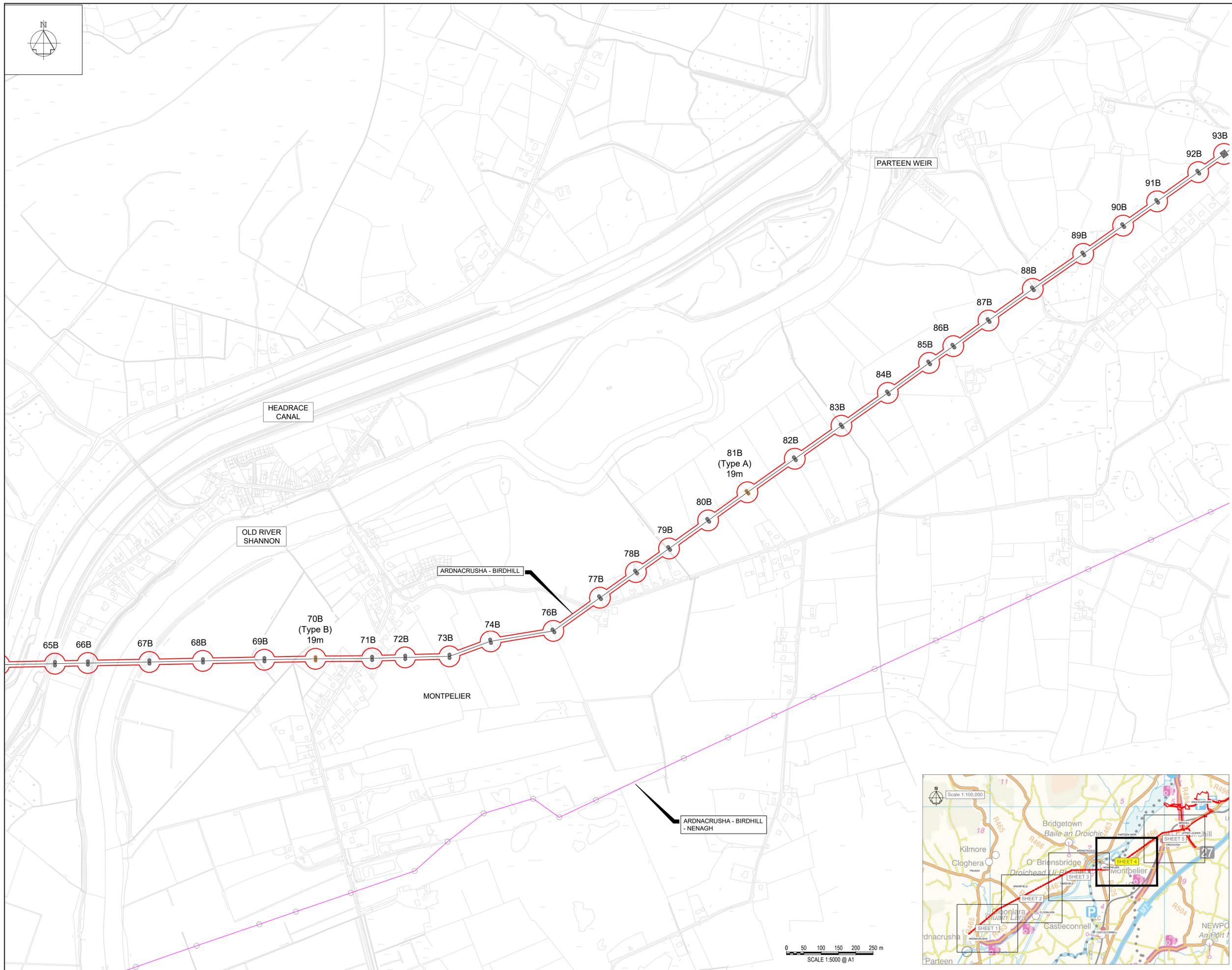




- Notes:
- ALL DIMENSIONS ARE IN METRES AND ALL LEVELS ARE IN METRES AOD MALIN HEAD UNLESS OTHERWISE STATED
 - THIS DRAWING IS FOR PLANNING PURPOSES ONLY.

OSI Sheet No(s) :
4505, 4506.

- LEGEND
- PLANNING APPLICATION BOUNDARY
 - POLESETS TO BE REPLACED
 - EXISTING POLESETS
 - POLESETS TO BE RETIRED
 - 38kV MAST TO BE REPLACED
 - 38kV MAST TO REMAIN
 - 38kV MAST TO BE RETIRED
 - EXISTING POLESETS OUTSIDE PLANNING APPLICATION BOUNDARY
 - EXISTING OVERHEAD LINE
 - EXISTING 38kV LINE TO BE REPLACED



F01	FINAL FOR PLANNING	EM	BG	BG	DEC 25
A01	FOR PLANNING	MN	BG	BG	FEB 25
Rev	Description	Drawn	Chkd	App'd	Date

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Tionscadal Soláthair Uisce Water Supply Project

UISCE ÉIREANN
COLVILL HOUSE,
TALBOT STREET,
DUBLIN 1,
IRELAND

Call 1890 278 278
Int: 00 353 1 707 2828

JACOBS TOBIN

Originated By DC	Drawn By MN	Checked By BG	Approved By BG
Date 08.03.25	Date 01.12.25	Date 01.12.25	Date 01.12.25

Scale:
1:5,000 @ A1

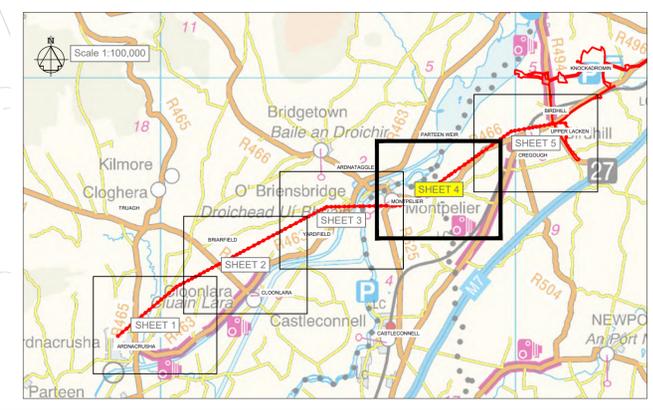
Project Title
**WATER SUPPLY PROJECT
EASTERN AND MIDLANDS REGION**

Drawing Title
**38kV UPRATE WORKS
LINE ROUTE 4 OF 5**

Drawing Status: FINAL FOR PLANNING

Jacobs Tobin No. 32105801 Client No. 9318

Drawing No.
32105801-850-38kv-007





Notes:
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2. THIS DRAWING IS FOR PLANNING PURPOSES ONLY.

OSI Sheet No(s):
4448.

- LEGEND**
- PLANNING APPLICATION BOUNDARY
 - GRAVEL SURFACE / ROAD
 - EXISTING STRUCTURES
 - PROPOSED STRUCTURES
 - X** SITE NOTICE LOCATION
 - ⦿ POLESETS TO BE REMOVED
 - ⦿ EXISTING POLESETS
 - ⦿ POLESETS TO BE RETIRED
 - 38kV MAST TO BE REPLACED
 - 38kV MAST TO REMAIN
 - 38kV MAST TO BE RETIRED
 - EXISTING POLESETS OUTSIDE PLANNING APPLICATION BOUNDARY
 - 38kV LINE TO BE RETIRED
 - EXISTING 38kV OVERHEAD LINE TO BE REPLACED
 - 1.2m HIGH POST AND RAIL FENCE
 - 2.6m HIGH PALISADE SITE SECURITY FENCE
 - EXISTING CHAINLINK FENCE
 - EXISTING OVERHEAD LINES TO REMAIN



F01	FINAL FOR PLANNING	EM	BG	BG	DEC 25
A01	FOR PLANNING	MN	BG	BG	FEB 25
Rev	Description	Drawn	Chk'd	App'd	Date

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Irish Water

UISCE ÉIREANN
COLVILL HOUSE,
TALBOT STREET,
DUBLIN 1,
IRELAND

Tionscadal Soláthair Uisce
Water Supply Project

Call 1890 278 278
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Jacobs TOBIN

Originated By DC	Drawn By MN	Checked By BG	Approved By BG
Date 12.03.25	Date 01.12.25	Date 01.12.25	Date 01.12.25

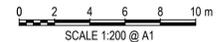
Scale:
1:200 @ A1

Project Title
**WATER SUPPLY PROJECT
EASTERN AND MIDLANDS REGION**

Drawing Title
**38kV UPRATE WORKS
BIRDHILL 38kV SUBSTATION
EXISTING SITE LAYOUT**

Drawing Status: FOR PLANNING
Jacobs Tobin No. 32105801 Client No. 9318

Drawing No.
32105801-850-38kv-010





Notes:
1. ALL DIMENSIONS ARE IN METRES AND ALL LEVELS ARE IN METRES AOD MALIN HEAD UNLESS OTHERWISE STATED
2. THIS DRAWING IS FOR PLANNING PURPOSES ONLY.

OSI Sheet No(s):
4448.

- LEGEND**
- PLANNING APPLICATION BOUNDARY
 - GRAVEL SURFACE / ROAD
 - EXISTING STRUCTURES
 - PROPOSED STRUCTURES
 - x** SITE NOTICE LOCATION
 - POLESETS TO BE REMOVED
 - EXISTING POLESETS
 - POLESETS TO BE RETIRED
 - 38kV MAST TO BE REPLACED
 - 38kV MAST TO REMAIN
 - ⊠ 38kV MAST TO BE RETIRED
 - EXISTING POLESETS OUTSIDE PLANNING APPLICATION BOUNDARY
 - 38kV LINE TO BE RETIRED
 - EXISTING 38kV OVERHEAD LINE TO BE REPLACED
 - 1.2m HIGH POST AND RAIL FENCE
 - 2.6m HIGH PALISADE SITE SECURITY FENCE
 - EXISTING CHAINLINK FENCE
 - EXISTING OVERHEAD LINES TO REMAIN
 - PROPOSED UNDERGROUND CABLE



F01	FINAL FOR PLANNING	EM	BG	BG	DEC' 25
A01	FOR PLANNING	MN	BG	BG	FEB' 25
Rev	Description	Drawn	Chkd	App'd	Date

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TALBOT STREET,
DUBLIN 1,
IRELAND

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Jacobs TOBIN

Originated By DC	Drawn By MN	Checked By BG	Approved By BG
Date 12.03.25	Date 01.12.25	Date 01.12.25	Date 01.12.25

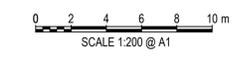
Scale
1:200 @ A1

Project Title
**WATER SUPPLY PROJECT
EASTERN AND MIDLANDS REGION**

Drawing Title
**38kV UPRATE WORKS
BIRDHILL 38kV SUBSTATION
PROPOSED SITE LAYOUT**

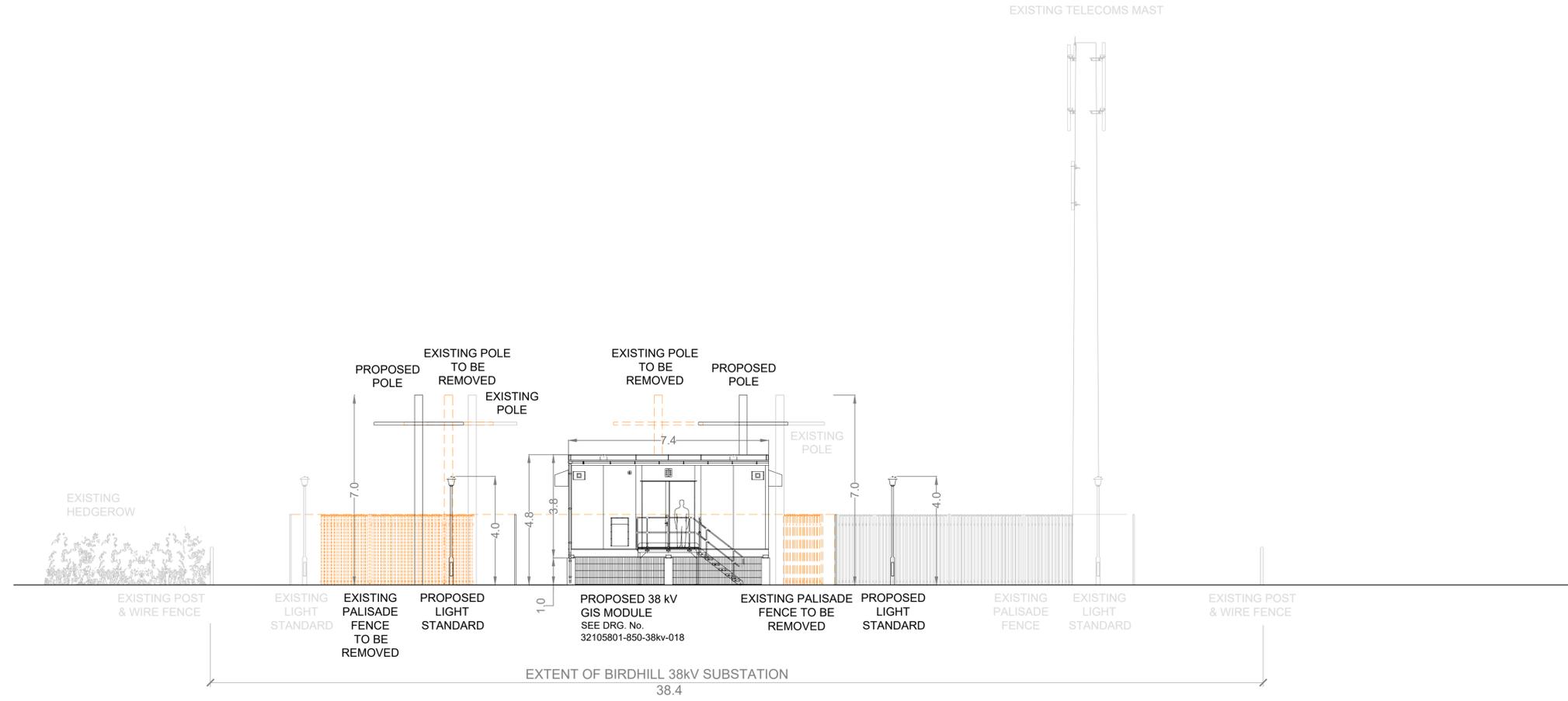
Drawing Status **FINAL FOR PLANNING**

Jacobs Tobin No. 32105801 Client No. 9318
Drawing No. **32105801-850-38kv-011**

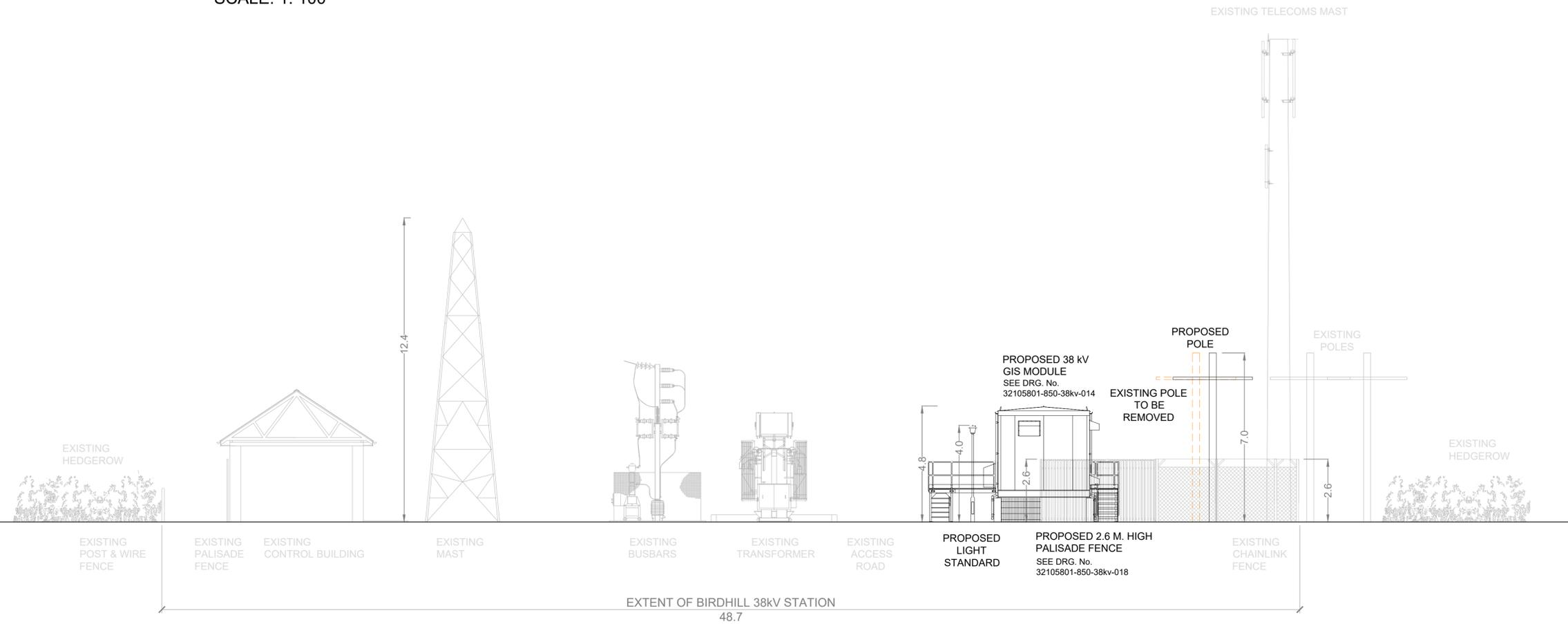


- Notes:
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 2. THIS DRAWING IS FOR PLANNING PURPOSES ONLY.

- LEGEND
- PROPOSED WORKS
 - - - REMOVAL WORKS
 - EXISTING STRUCTURES



SECTION A-A
SCALE: 1: 100



SECTION B-B
SCALE: 1: 100



F01	FINAL FOR PLANNING	EM	BG	BG	DEC '25
A01	FOR PLANNING	MN	BG	BG	FEB '25
Rev	Description	Drawn	Chk'd	App'd	Date

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 Uisce Éireann
 COLVILL HOUSE,
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 DUBLIN 1,
 IRELAND
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Jacobs TOBIN

Originated By	Drawn By	Checked By	Approved By
DC	MN	BG	BG
Date	Date	Date	Date
12.03.25	01.12.25	01.12.25	01.12.25

Scale: 1:100 @ A1

Project Title
**WATER SUPPLY PROJECT
EASTERN AND MIDLANDS REGION**

Drawing Title
**38kV UPRATE WORKS
BIRDHILL 38kV SUBSTATION
PROPOSED SITE SECTIONS**

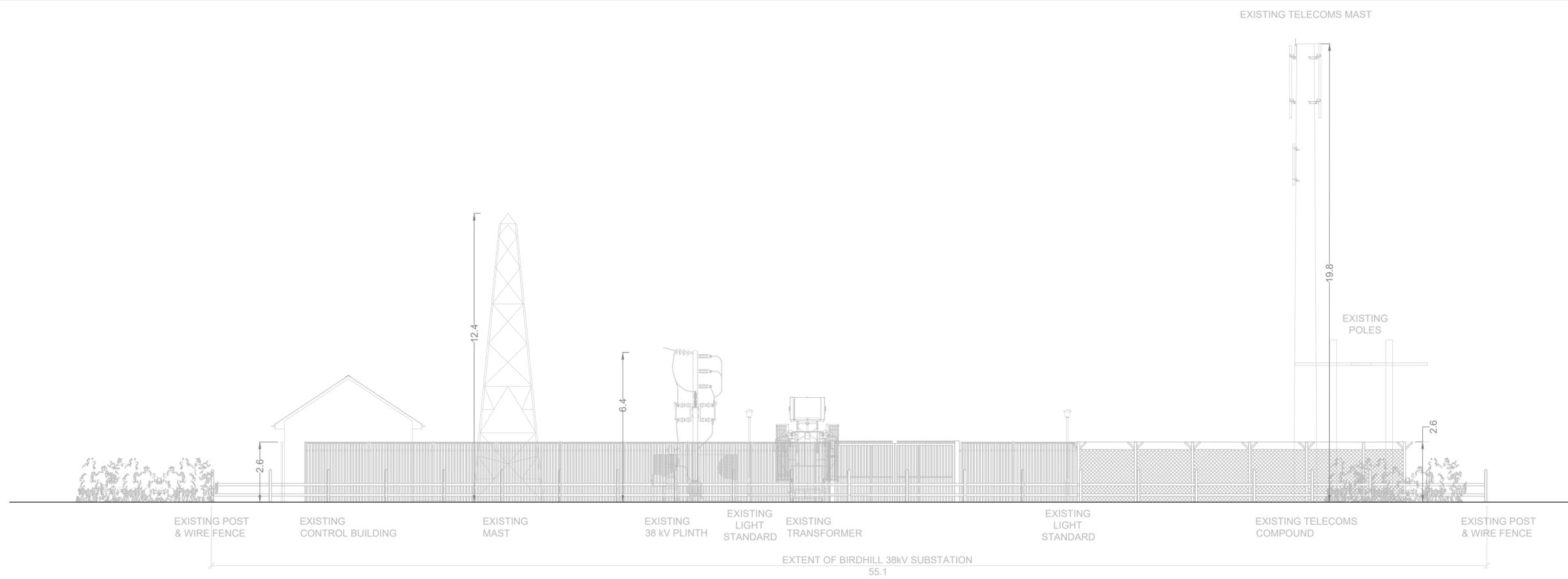
Drawing Status: FINAL FOR PLANNING

Jacobs Tobin No. 32105801 Client No. 9318
 Drawing No. 32105801-850-38kv-012

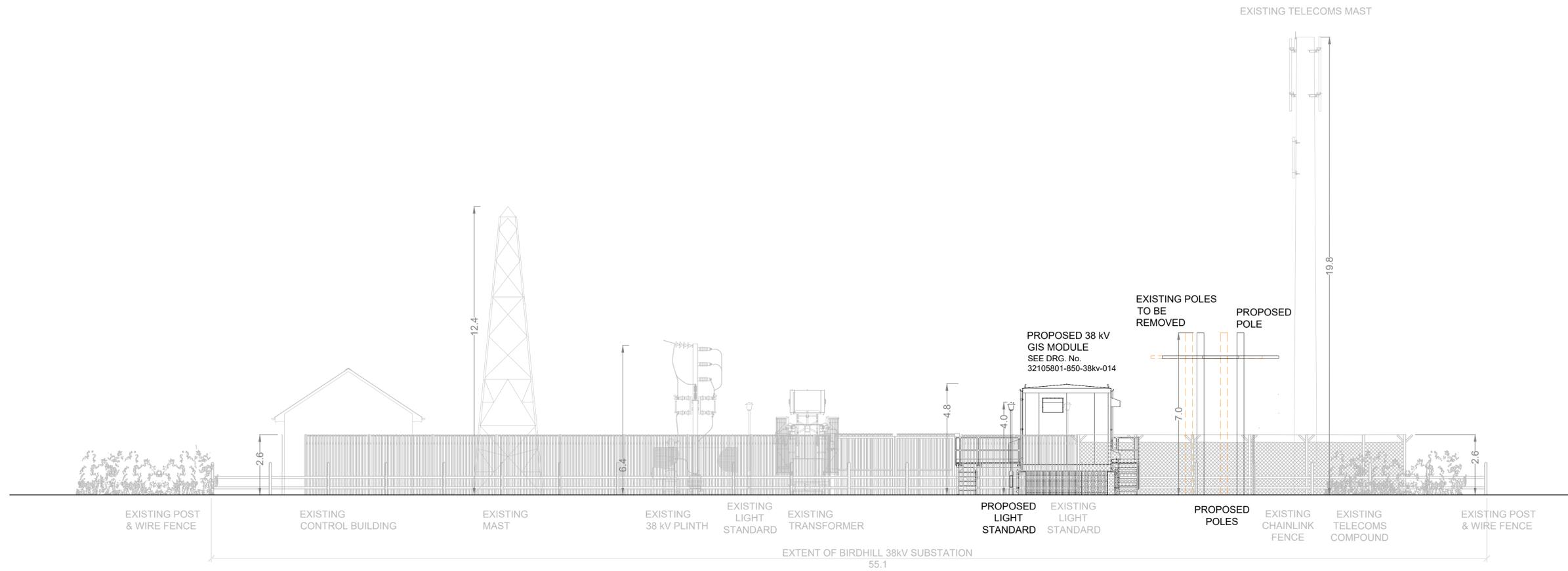
Notes:
1. ALL DIMENSIONS ARE IN METRES AND ALL LEVELS ARE IN METRES AOD MALIN HEAD UNLESS OTHERWISE STATED
2. THIS DRAWING IS FOR PLANNING PURPOSES ONLY.

LEGEND

- PROPOSED WORKS
- REMOVAL WORKS
- EXISTING STRUCTURES



EXISTING EAST ELEVATION TO SITE
SCALE: 1: 100



PROPOSED EAST ELEVATION TO SITE
SCALE: 1: 100

F01	FINAL FOR PLANNING	EM	BG	BG	DEC 25
A01	FOR PLANNING	MN	BG	BG	FEB 25
Rev	Description	Drawn	Chk'd	App'd	Date

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 Uisce Éireann COLVILL HOUSE, TALBOT STREET, DUBLIN 1, IRELAND
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JACOBS TOBIN

Originated By DC	Drawn By MN	Checked By BG	Approved By BG
Date 12.03.25	Date 01.12.25	Date 01.12.25	Date 01.12.25

Scale: 1:100 @ A1

Project Title
**WATER SUPPLY PROJECT
EASTERN AND MIDLANDS REGION**

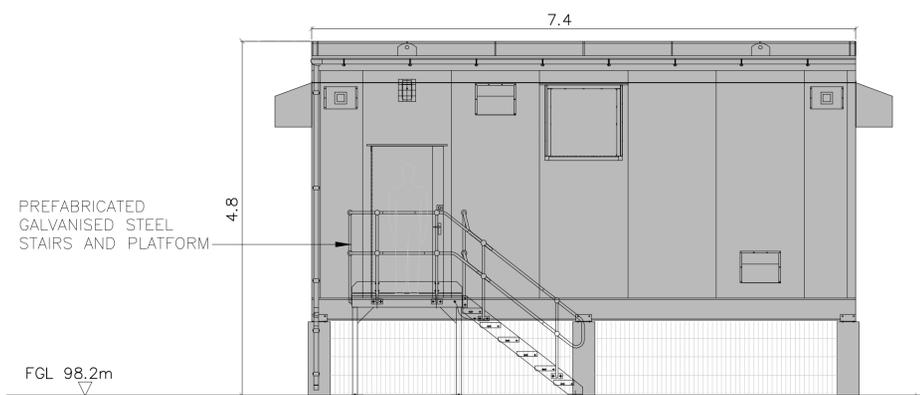
Drawing Title
**38KV UPRATE WORKS
BIRDHILL 38KV SUBSTATION
EXISTING & PROPOSED SITE ELEVATIONS**

Drawing Status: FINAL FOR PLANNING
 Jacobs Tobin No. 32105801 Client No. 9318

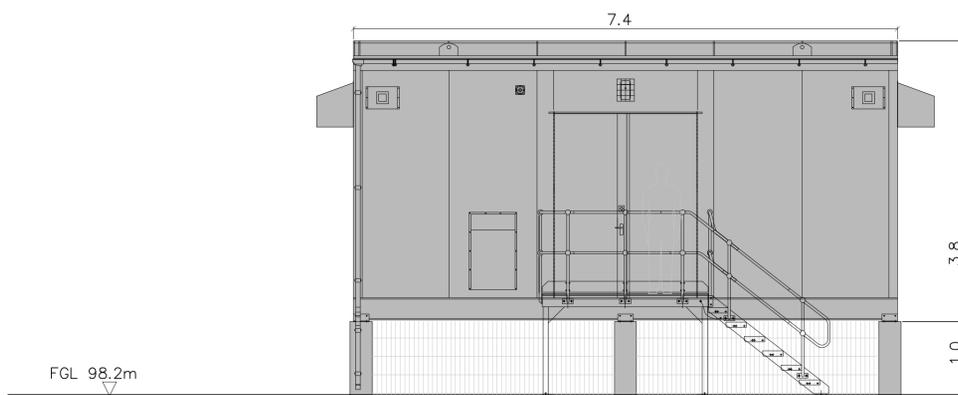
Drawing No.
32105801-850-38kv-013

Notes:
 1. ALL DIMENSIONS ARE IN METERS AND ALL LEVELS ARE IN METERS ADD MALIN HEAD UNLESS OTHERWISE STATED
 2. THIS DRAWING IS FOR PLANNING PURPOSES ONLY.

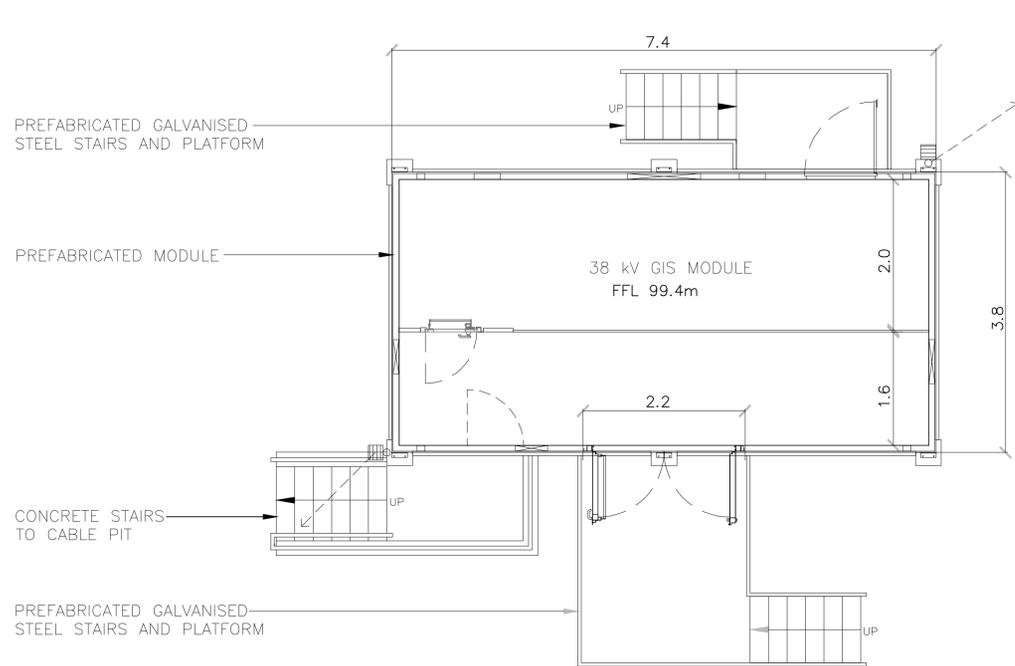
FFL FINISHED FLOOR LEVEL
 FGL FINISHED GROUND LEVEL



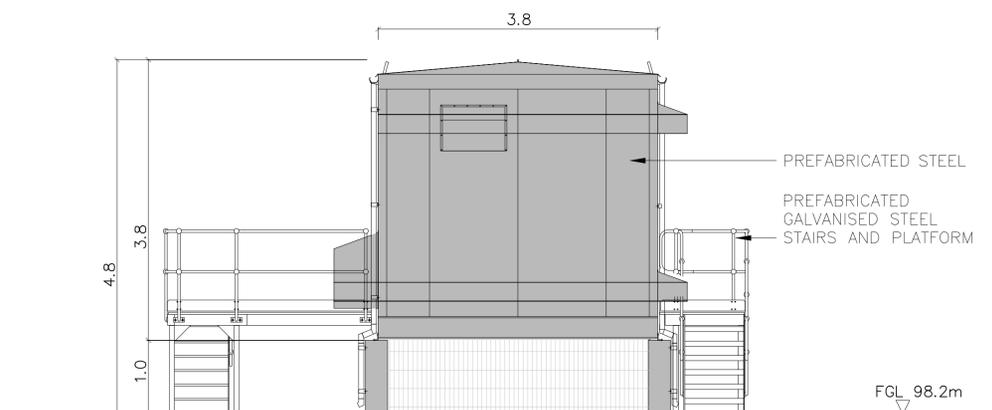
WEST ELEVATION



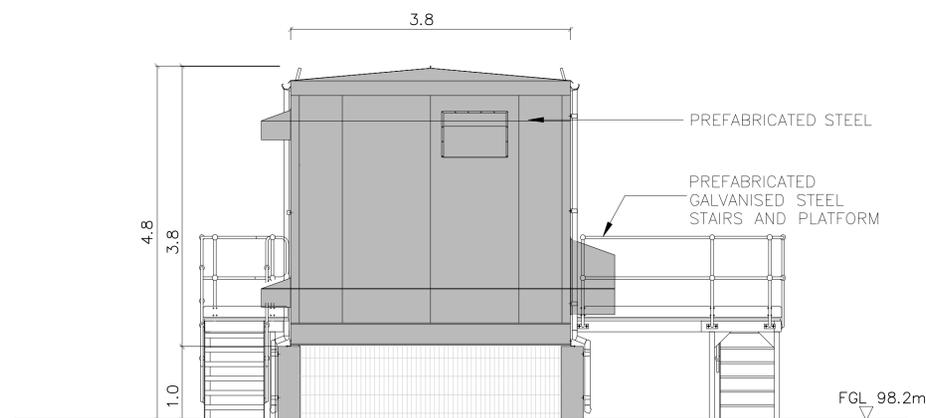
EAST ELEVATION



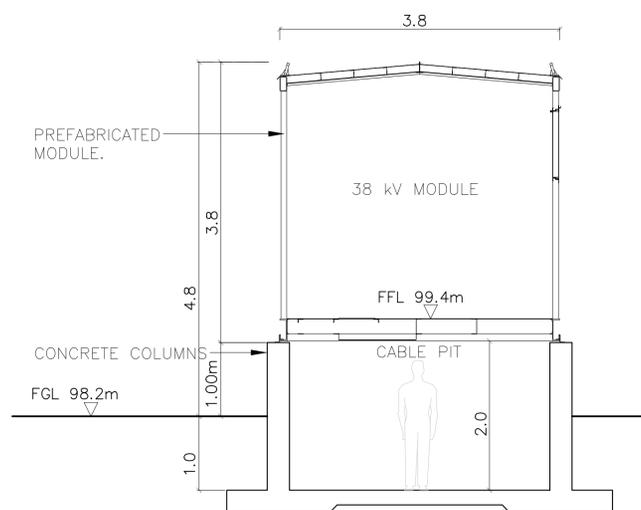
38 kV GIS MODULE PLAN



NORTH ELEVATION



SOUTH ELEVATION



SECTION

0 0.5 1 1.5 2 2.5 m
 SCALE 1:50 @ A1

F01	FINAL FOR PLANNING	EM	BG	BG	DEC '25
A01	FOR PLANNING	MN	BG	BG	FEB '25
Rev	Description	Drawn	Chk'd	App'd.	Date

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 Uisce Éireann COLVILL HOUSE, TALBOT STREET, DUBLIN 1, IRELAND
 Tionscadal Soláthair Uisce Water Supply Project
 Call 1890 278 278 Int: 00 353 1 707 2828

Jacobs TOBIN

Originated By	Drawn By	Checked By	Approved By
DC	MN	BG	BG
Date	Date	Date	Date
12.03.25	01.12.25	01.12.25	01.12.25

Scale: 1:50 @ A1

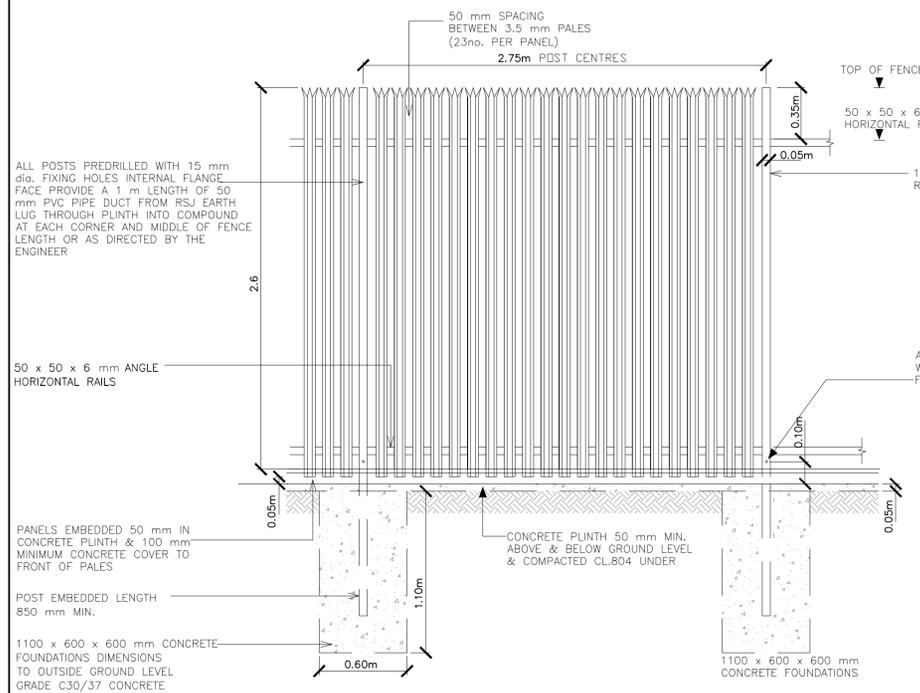
Project Title: WATER SUPPLY PROJECT EASTERN AND MIDLANDS REGION

Drawing Title: 38KV UPRATE WORKS
 BIRDHILL 38kV SUBSTATION
 GAS INSULATED SWITCHGEAR (GIS) MODULE DETAILS

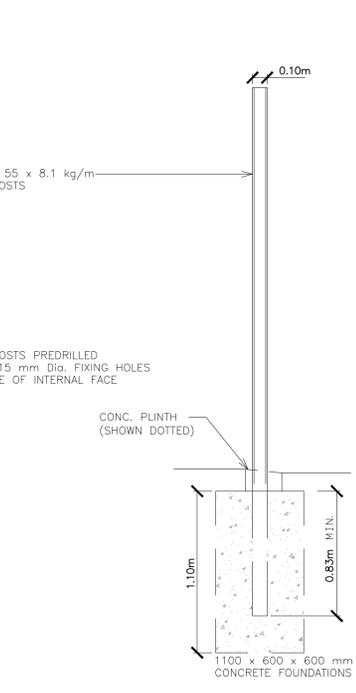
Drawing Status: FINAL FOR PLANNING
 Jacobs' Tobin No. 32105801 Client No. 9318

Drawing No. 32105801-850-38kv-014

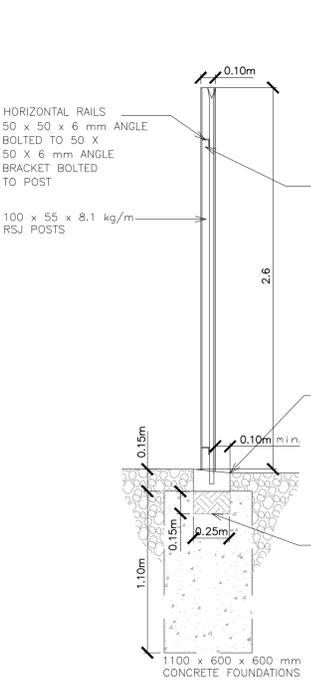
Notes:
1. ALL DIMENSIONS ARE IN METRES AND ALL LEVELS ARE IN METRES AOD MALIN HEAD UNLESS OTHERWISE STATED
2. THIS DRAWING IS FOR PLANNING PURPOSES ONLY.



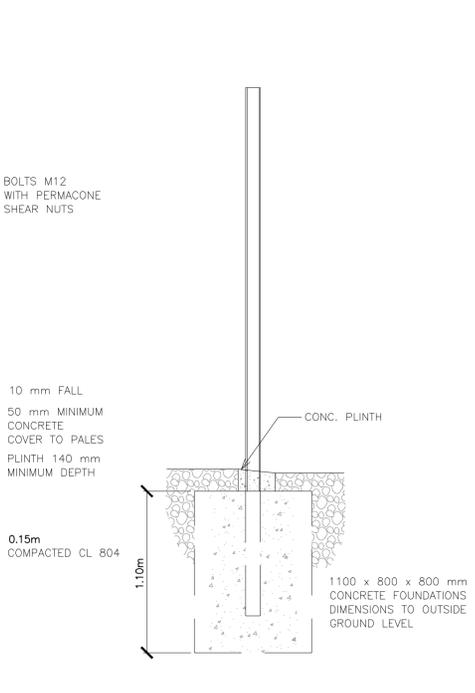
ELEVATION OF FENCE
SCALE 1:25



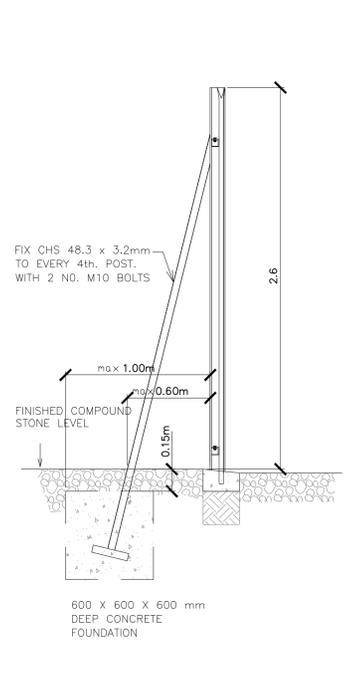
SIDE ELEVATION OF POST
SCALE 1:25



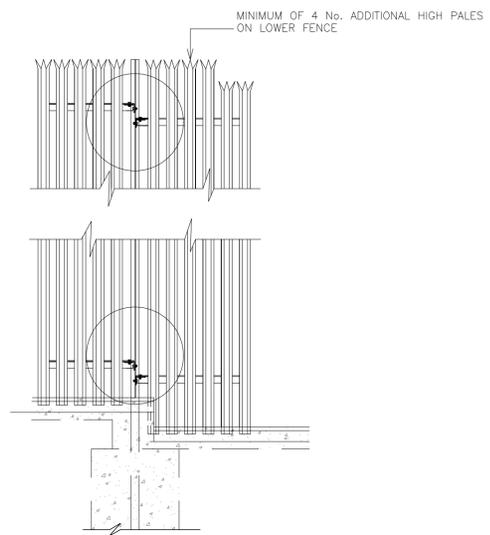
PALES & PLINTH DETAILS
SCALE 1:25



DETAILS OF FOUNDATION TO CORNER POST
SCALE 1:25

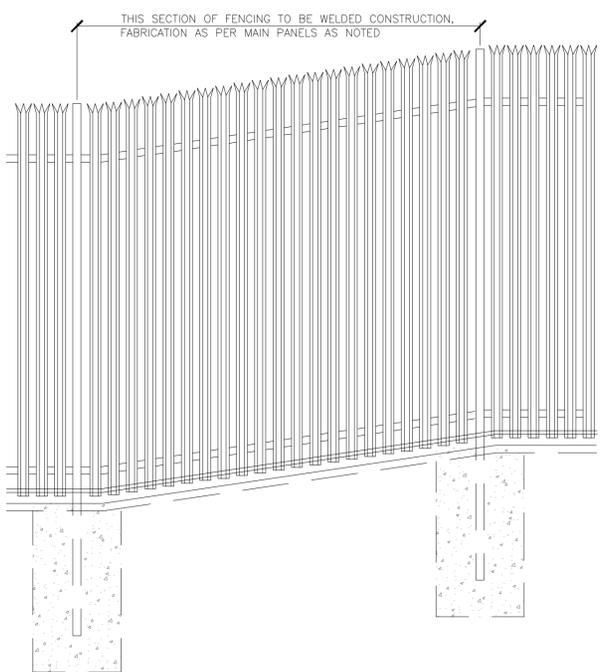


DETAIL OF STRUTS TO FENCING
SCALE 1:25 (WHERE REQUIRED)

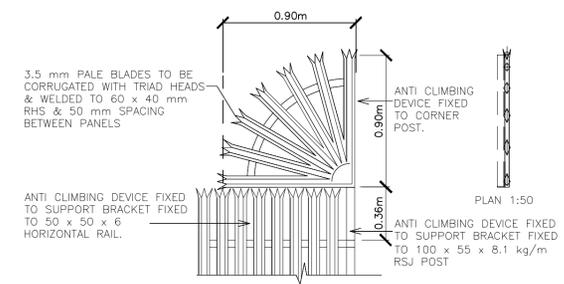


STEP(S) IN PALISADE FENCE (WHERE APPLICABLE)
SCALE 1:25

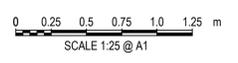
DEPTH OF STEP TO BE AGREED ON SITE, BUT NOT GREATER THAN 200 mm
NOTE:- ADDITIONAL HIGH PALES ON LOWER FENCE.



ELEVATION TO TYPICAL SLOPED SECTION OF FENCING
SCALE 1:25



DETAILS OF ANTI-CLIMBING AID (WHERE APPLICABLE)
SCALE 1:25



F01	FINAL FOR PLANNING	EM	BG	BG	DEC 25
A01	FOR PLANNING	MN	BG	BG	FEB 25
Rev	Description	Drawn	Chk'd	App'd.	Date

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Irish Water

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TALBOT STREET,
DUBLIN 1,
IRELAND

Tionscadal Soláthair Uisce
Water Supply Project

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Int: 00 353 1 707 2828

Jacobs TOBIN

Originated By DC	Drawn By MN	Checked By BG	Approved By BG
Date 12.03.25	Date 01.12.25	Date 01.12.25	Date 01.12.25

Scale
1:25 @ A1

Project Title
WATER SUPPLY PROJECT
EASTERN AND MIDLANDS REGION

Drawing Title
38KV UPRATE WORKS
BIRDHILL 38KV SUBSTATION
PALISADE FENCING DETAILS

Drawing Status
FINAL FOR PLANNING

Jacobs Tobin No. 32105801 Client No. 9318

Drawing No.
32105801-850-38kv-015



- Notes:
- ALL DIMENSIONS ARE IN METRES AND ALL LEVELS ARE IN METRES AOD MALIN HEAD UNLESS OTHERWISE STATED
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OSI Sheet No(s):
4448.

- LEGEND**
- PLANNING APPLICATION BOUNDARY
 - GRAVEL SURFACE / ROAD
 - EXISTING STRUCTURES
 - PROPOSED STRUCTURES
 - x** SITE NOTICE LOCATION
 - ⦿ POLESETS TO BE REMOVED
 - ⦿ EXISTING POLESETS
 - ⦿ POLESETS TO BE RETIRED
 - ⦿ 38KV MAST TO BE REPLACED
 - ⦿ 38KV MAST TO REMAIN
 - ⦿ 38KV MAST TO BE RETIRED
 - EXISTING POLESETS OUTSIDE PLANNING APPLICATION BOUNDARY
 - 38KV LINE TO BE RETIRED
 - EXISTING 38KV OVERHEAD LINE TO BE REPLACED
 - 1.2m HIGH POST AND RAIL FENCE
 - 2.6m HIGH PALISADE SITE SECURITY FENCE
 - EXISTING CHAINLINK FENCE
 - EXISTING OVERHEAD LINES TO REMAIN
 - PROPOSED UNDERGROUND CABLE

- DRAINAGE LEGEND**
- EXISTING SURFACE WATER **EXS**
 - PROPOSED SURFACE WATER **SW**
 - SURFACE AJ
 - CATCH PIT
 - MANHOLE
 - RISING MAIN (FROM SUMPS)
 - RAINWATER DOWNPIPE
 - EXISTING FOUL WATER **EXF**

F01	FINAL FOR PLANNING	EM	BG	BG	DEC 25
A01	FOR PLANNING	MN	BG	BG	FEB 25
Rev	Description	Drawn	Chkd	App'd	Date

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DC	MN	BG	BG
Date	Date	Date	Date
12.03.25	01.12.25	01.12.25	01.12.25

Scale
1:200 @ A1

Project Title
**WATER SUPPLY PROJECT
EASTERN AND MIDLANDS REGION**

Drawing Title
**38KV UPRATE WORKS
BIRDHILL 38KV SUBSTATION
SITE DRAINAGE LAYOUT**

Drawing Status **FINAL FOR PLANNING**

Jacobs Tobin No. 32105801 Client No. 9318

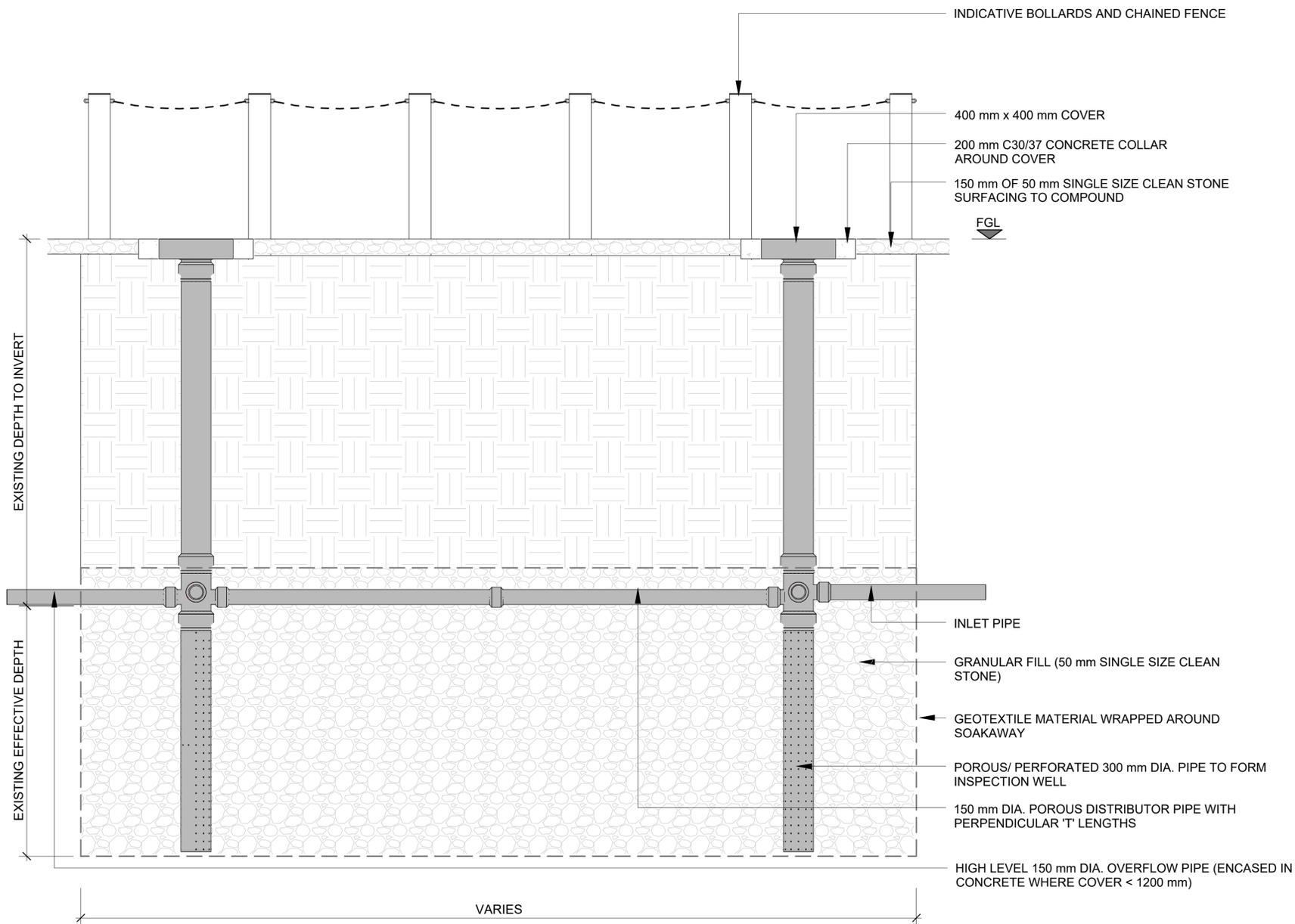
Drawing No.
32105801-850-38kv-016



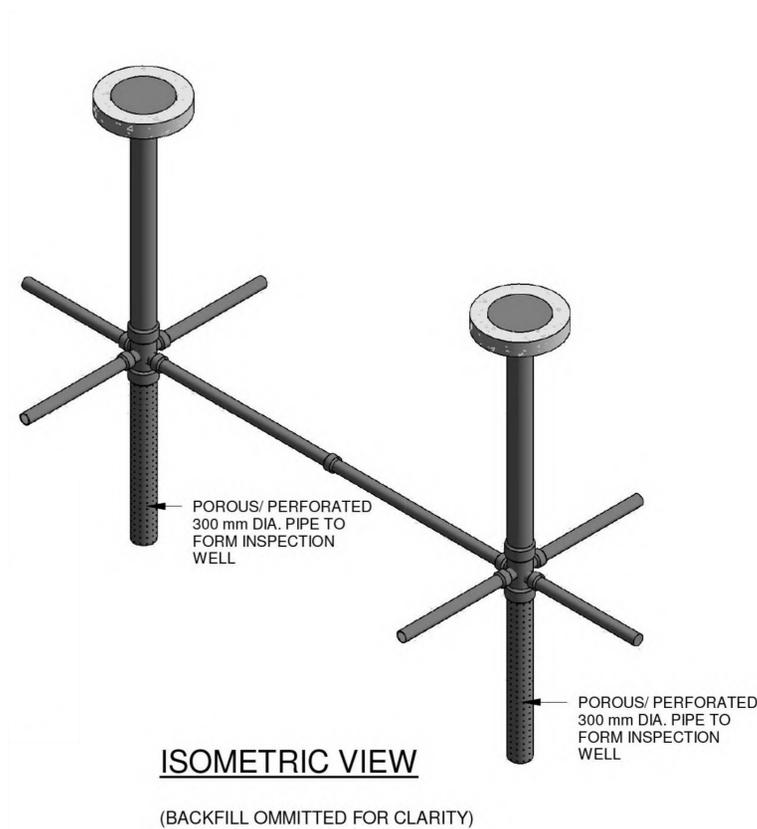
0 2 4 6 8 10 m
SCALE 1:200 @ A1

- Notes:
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FGL FINISHED GROUND LEVEL



ELEVATION - TYPICAL SOAKAWAY DETAIL
SCALE: 1 : 50



F01	FINAL FOR PLANNING	EM	BG	BG	DEC 25
A01	FOR PLANNING	MN	BG	BG	FEB 25
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Date 12.03.25	Date 01.12.25	Date 01.12.25	Date 01.12.25

Scale
1:50 @ A1

Project Title
WATER SUPPLY PROJECT
EASTERN AND MIDLANDS REGION

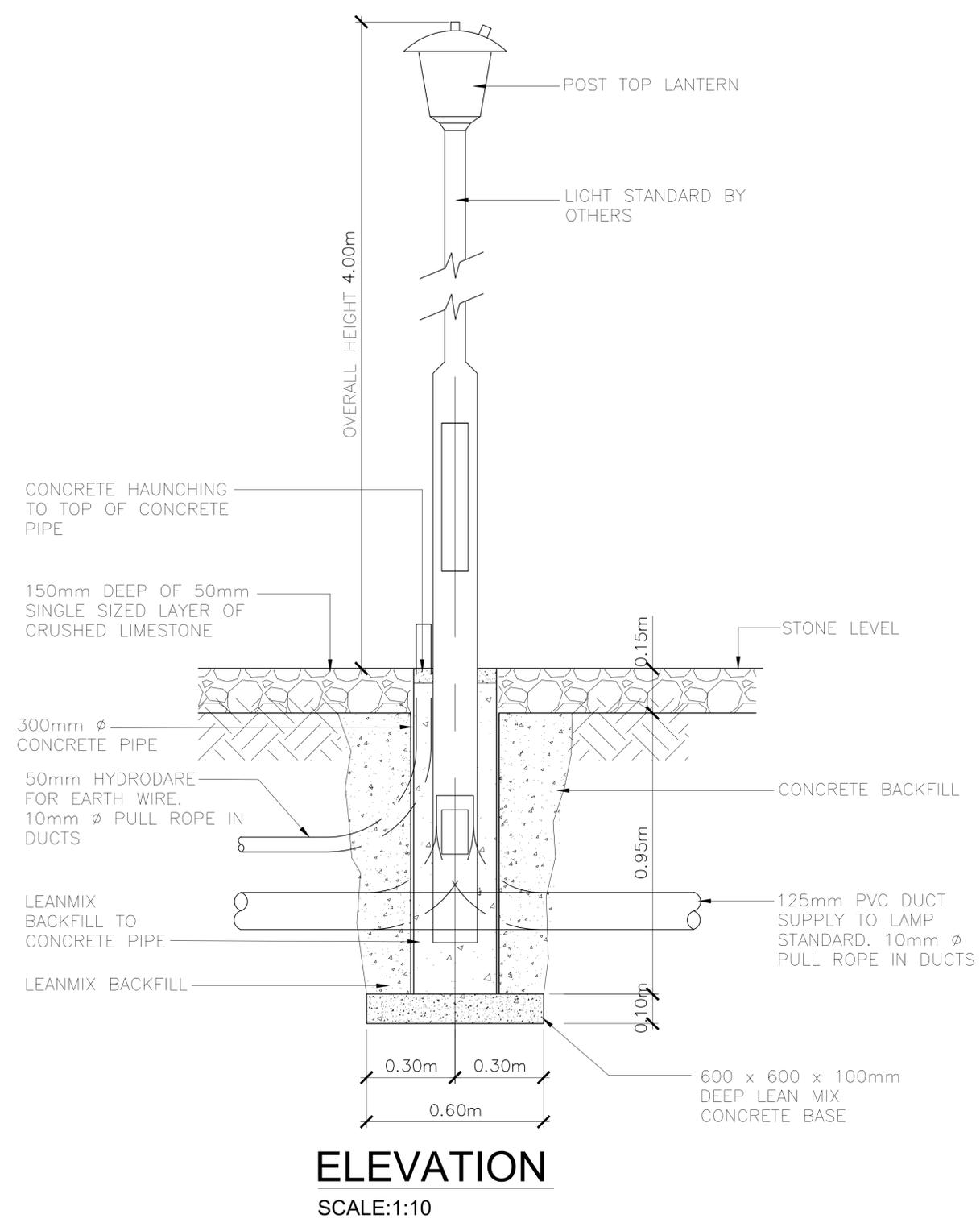
Drawing Title
38KV UPRATE WORKS
BIRDHILL 38KV SUBSTATION
TYPICAL SOAKAWAY DETAIL

Drawing Status
FINAL FOR PLANNING

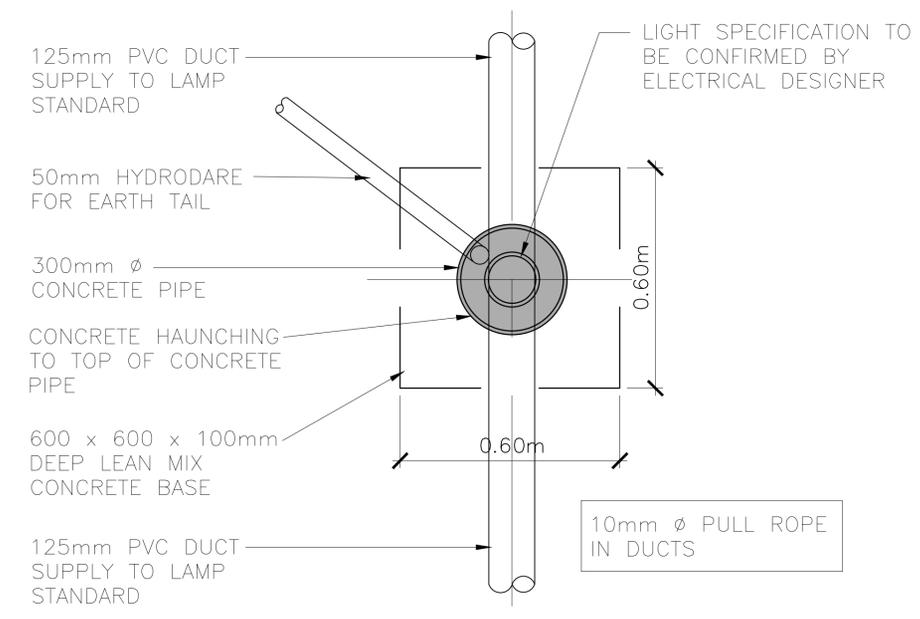
Jacobs Tobin No. 32105801 Client No. 9318

Drawing No.
32105801-850-38kv-017

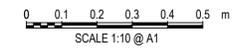
- Notes:
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ELEVATION
SCALE:1:10



PLAN
SCALE:1:10



F01	FINAL FOR PLANNING	EM	BG	BG	DEC 25
A01	FOR PLANNING	MN	BG	BG	FEB 25
Rev	Description	Drawn	Chk'd	App'd	Date

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Soláthair Uisce
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JACOBS TOBIN

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Scale
1:10 @ A1

Project Title
WATER SUPPLY PROJECT
EASTERN AND MIDLANDS REGION

Drawing Title
38KV UPRATE WORKS
BIRDHILL 38kv SUBSTATION
LIGHT STANDARD DETAILS

Drawing Status
FINAL FOR PLANNING

Jacobs Tobin No. 32105801 Client No. 9318

Drawing No.
32105801-850-38kv-018

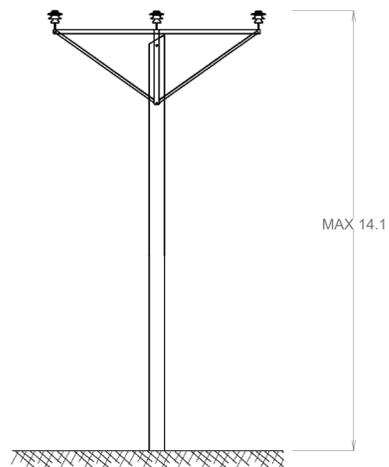
- Notes:
1. ALL DIMENSIONS ARE IN METRES AND ALL LEVELS ARE IN METRES AOD MALIN HEAD UNLESS OTHERWISE STATED
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Type "A" Single Pole Intermediate Structure

Single wood pole with 4m steel crossarm holding conductors horizontally 2m apart.

Pole lengths from 12m to 16m incl. buried depth 2.3m.

Maximum conductor height overground 14.1m.



Type "B" Portal Suspension & Portal Strain Structures

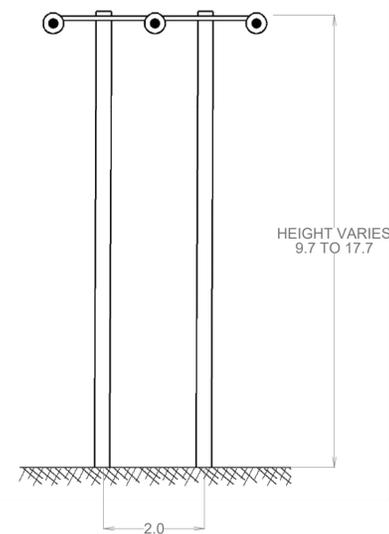
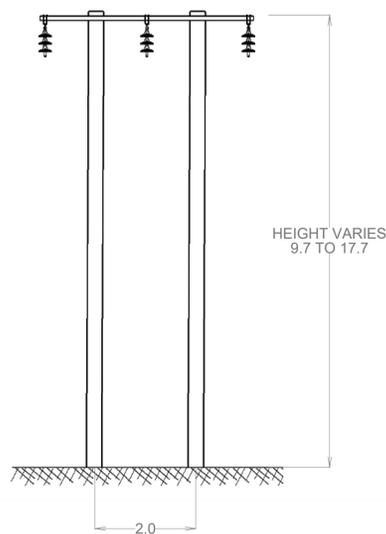
Two wood poles, 2m apart with a 4m steel crossarm holding conductors horizontally 2m apart.

Insulator chain may be vertical or horizontal.

Pole lengths from 12m to 20m incl. buried depth 2.3m.

Maximum conductor height overground 17.2m.

Poles can also be 3m apart with a 6m steel crossarm holding conductors horizontally 3m apart.



Type "F" Lattice steel mast Structure.

Base buried depth 2.3m. in concrete.

Maximum conductor height overground 9, 12 or 15m.

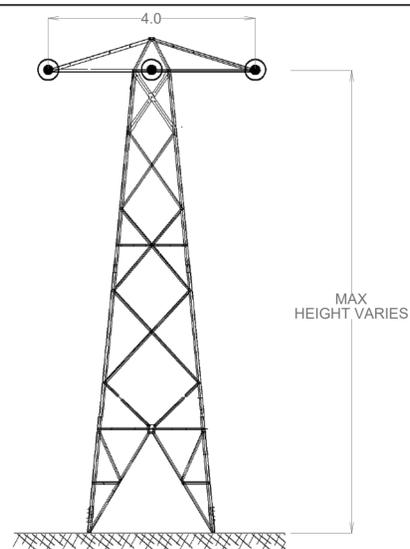
Corresponding base footprint 2.4, 2.8, or 3.2m.

Mast apex can be up to 1m over conductor height depending on manufacture.

4m crossarm with horizontal insulator chain holding conductors 2m apart

Bracing shown may change depending on manufacture.

Can be used as an End mast to terminate a line, or used as an Angle mast to allow up to a 60deg. deviation in the line.



F01	FINAL FOR PLANNING	EM	BG	BG	DEC 25
A01	FOR PLANNING	MN	BG	BG	FEB 25
Rev	Description	Drawn	Chk'd	App'd	Date


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JACOBS TOBIN

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Date 12.03.25	Date 01.12.25	Date 01.12.25	Date 01.12.25

Scale: 1:75 @ A1

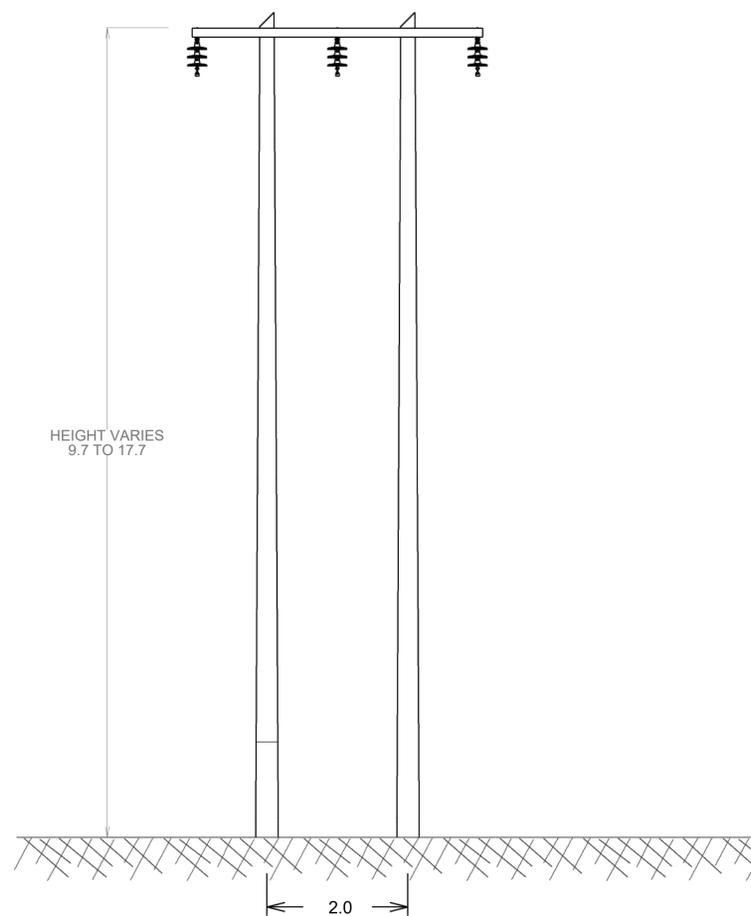
Project Title
 WATER SUPPLY PROJECT
 EASTERN AND MIDLANDS REGION

Drawing Title
 38kV UPRATE WORKS
 SINGLE PHASE RACOON & MULBERRY CONDUCTORS

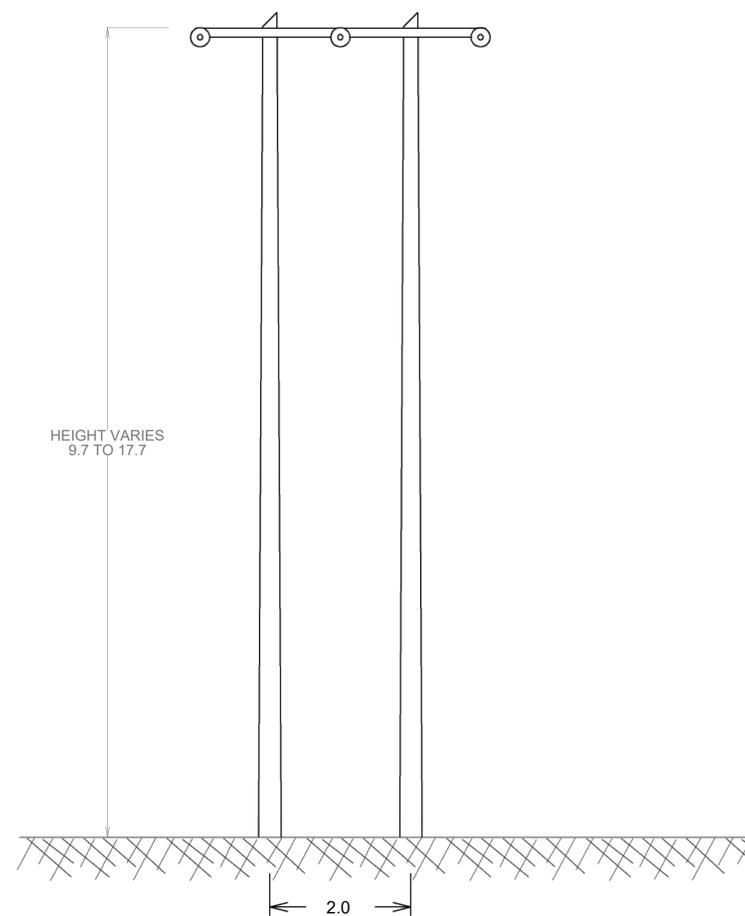
Drawing Status: FINAL FOR PLANNING
 Jacobs Tobin No. 32105801 Client No. 9318

Drawing No.
32105801-850-38kv-019

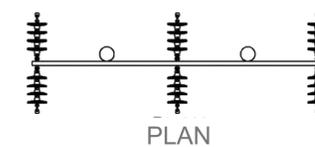
- Notes:
1. ALL DIMENSIONS ARE IN METRES AND ALL LEVELS ARE IN METRES AOD **MALIN HEAD** UNLESS OTHERWISE STATED
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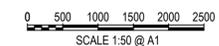
FRONT ELEVATION INTERMEDIATE PORTAL
 SUSPENSION STRUCTURE



FRONT ELEVATION INTERMEDIATE PORTAL
 SUSPENSION STRUCTURE



POLE LENGTHS RANGE FROM 9.7m TO 17.7m
 WITH 2.3m BELOW GROUND LEVEL.



F01	FINAL FOR PLANNING	EM	BG	BG	DEC' 25
A01	FOR PLANNING	MN	BG	BG	FEB' 25
Rev	Description	Drawn	Chk'd	App'd	Date

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Originated By DC	Drawn By MN	Checked By BG	Approved By BG
Date 12.03.25	Date 01.12.25	Date 01.12.25	Date 01.12.25

Scale
 1:50 @ A1

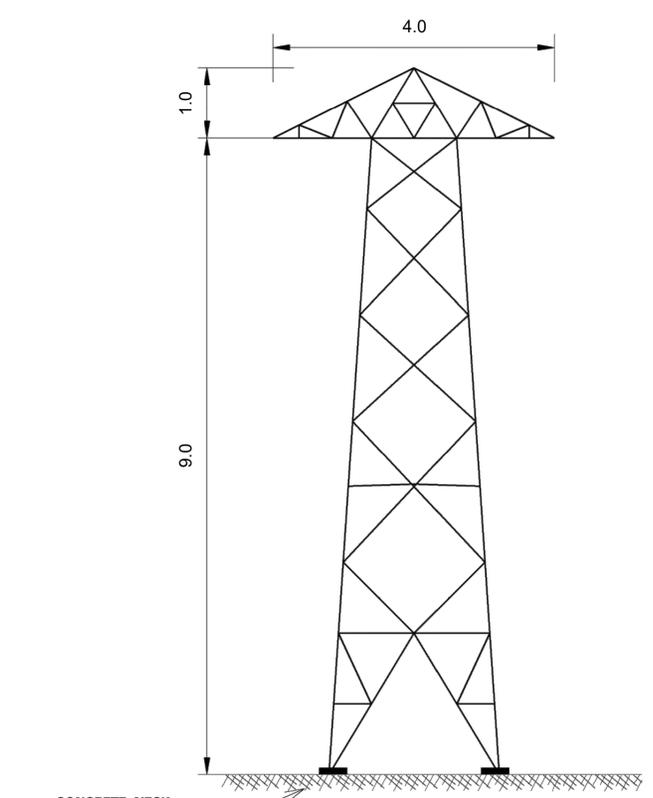
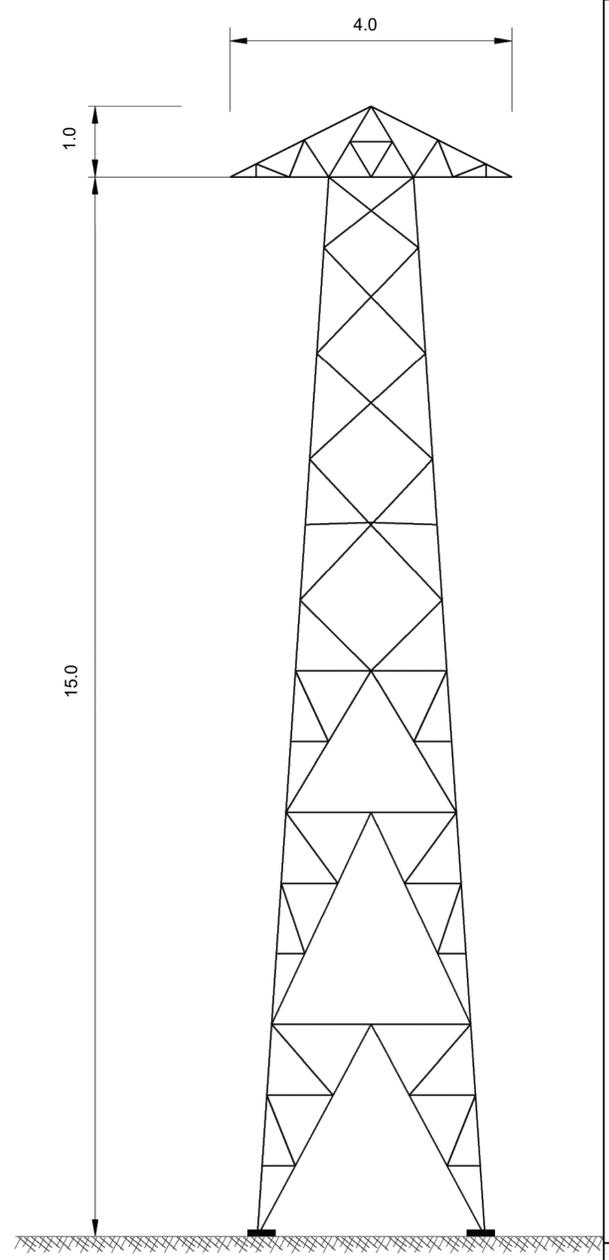
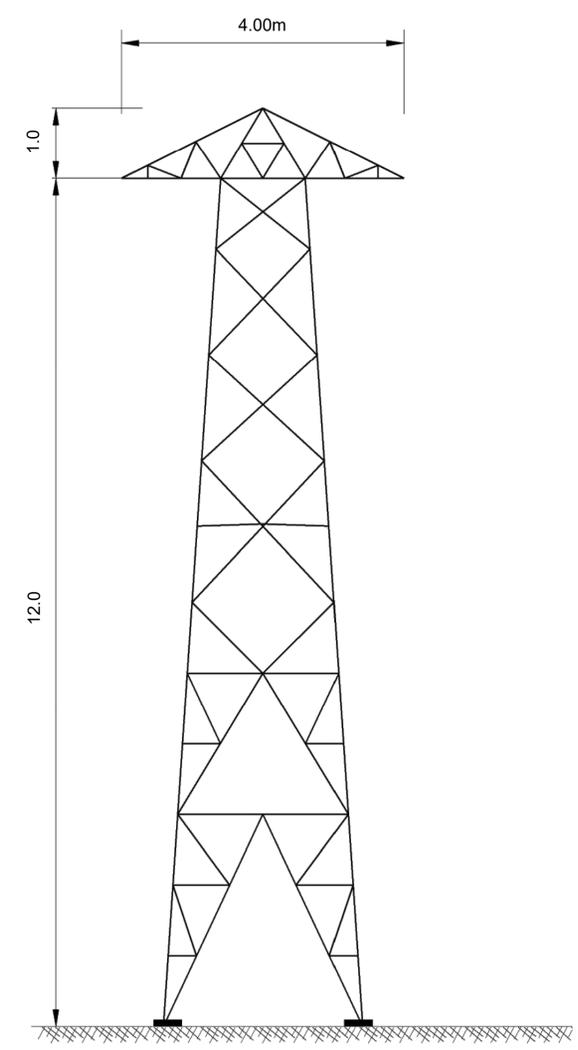
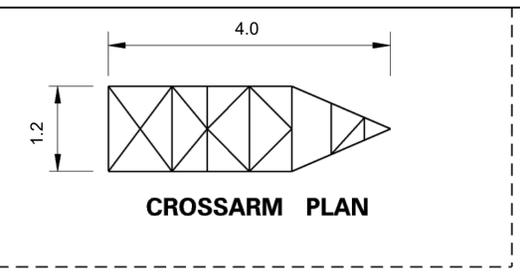
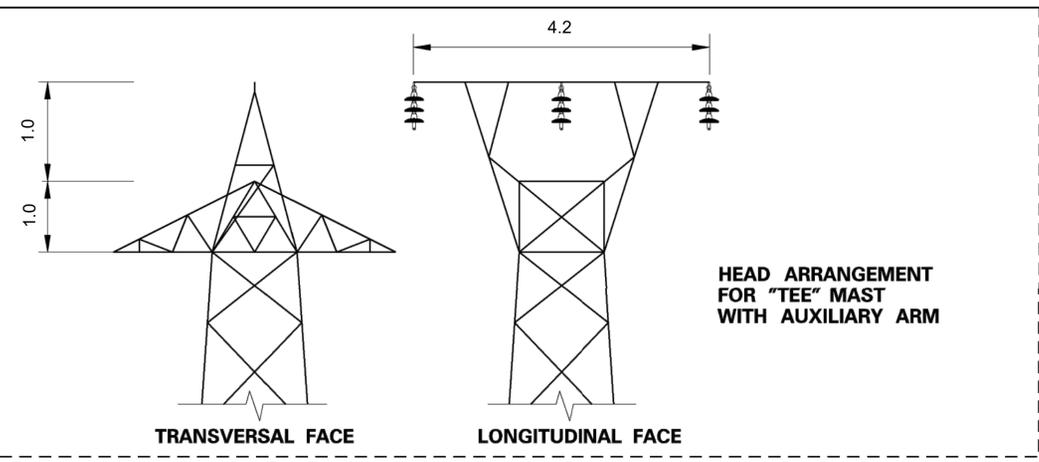
Project Title
 WATER SUPPLY PROJECT
 EASTERN AND MIDLANDS REGION

Drawing Title
 38kV UPRATE WORKS
 38kv LINES TYPE 'B' PORTAL SUSPENSION
 STRUCTURE & PORTAL STRAIN STRUCTURE

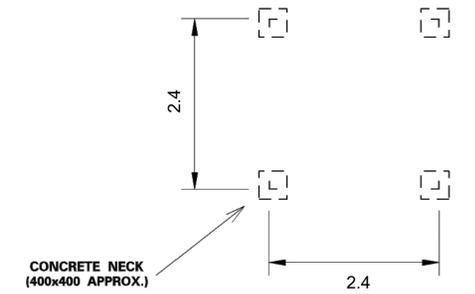
Drawing Status FINAL FOR PLANNING
 Jacobs Tobin No. 32105801 Client No. 9318

Drawing No.
 32105801-850-38kv-020

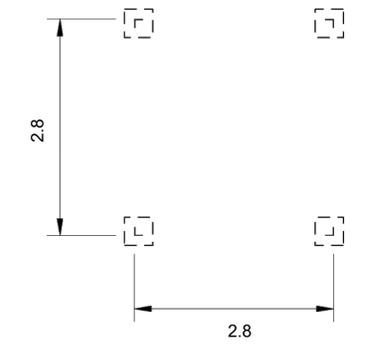
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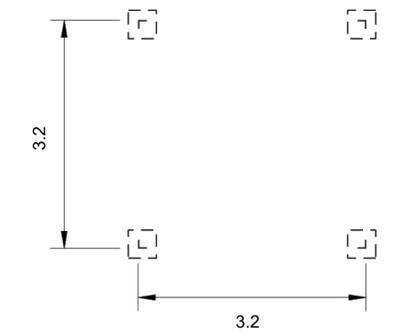
CONCRETE NECK (EXTENDS APPROX. 100mm ABOVE GROUND)



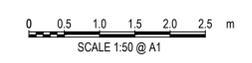
BASE FOOTPRINT (9m MAST)



BASE FOOTPRINT (12m MAST)



BASE FOOTPRINT (15m MAST)



F01	FINAL FOR PLANNING	EM	BG	BG	DEC' 25
A01	FOR PLANNING	MN	BG	BG	FEB' 25
Rev	Description	Drawn	Chk'd	App'd	Date

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Originated By DC	Drawn By MN	Checked By BG	Approved By BG
Date 12.03.25	Date 01.12.25	Date 01.12.25	Date 01.12.25

Scale
1:50 @ A1

Project Title
WATER SUPPLY PROJECT
EASTERN AND MIDLANDS REGION

Drawing Title
38KV UPRATE WORKS
TYPE 'F' LATTICE STEEL MAST TYPE 54D
9M, 12M, 15M HEIGHTS

Drawing Status
FINAL FOR PLANNING

Jacobs Tobin No. 32105801 Client No. 9318

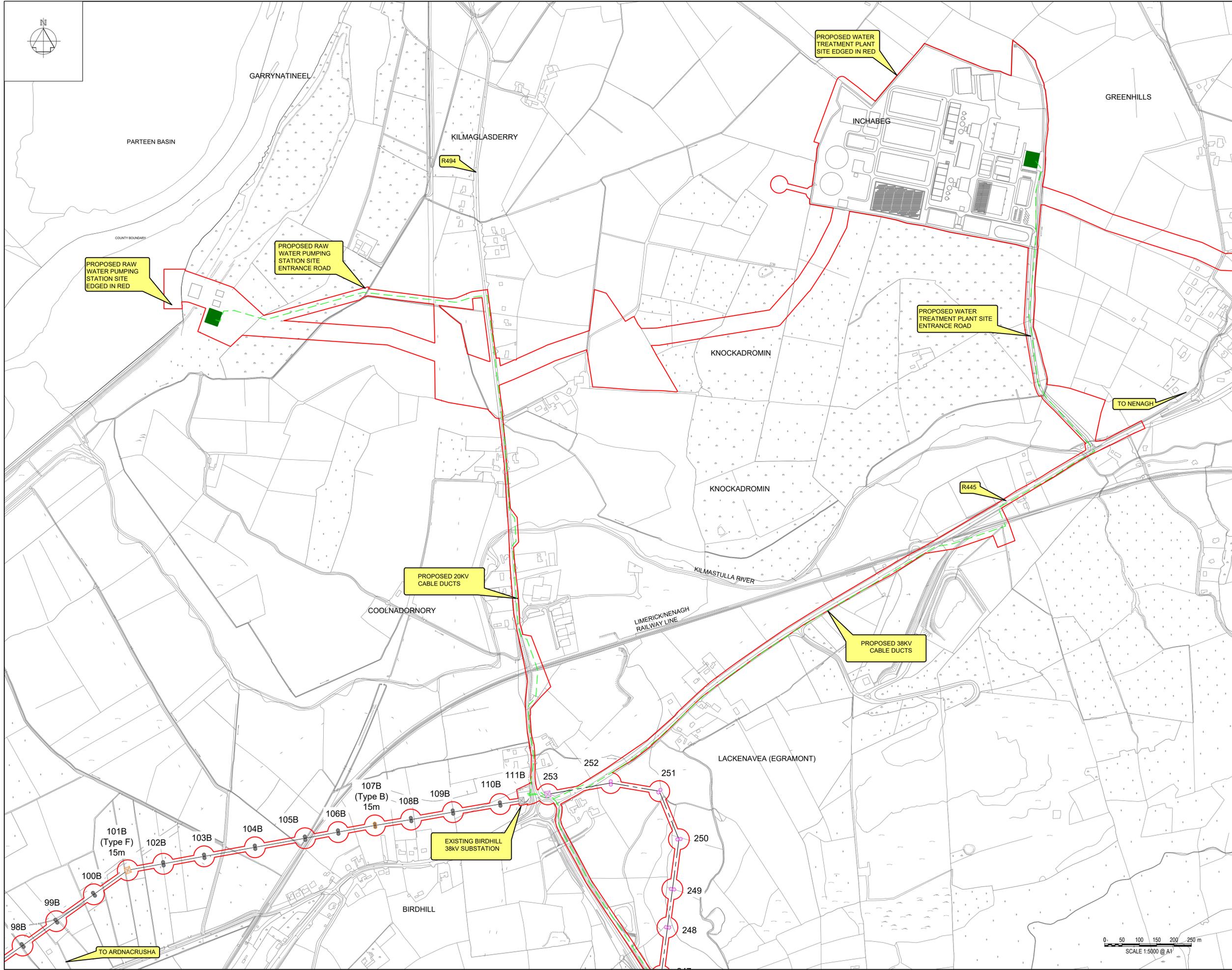
Drawing No.
32105801-850-38kv-021



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OSI Sheet No(s):
4447, 4448, 4506, 4507.

- LEGEND**
- PLANNING APPLICATION BOUNDARY
 - PROPOSED POWER SUPPLY DUCTING
 - PROPOSED SUBSTATION
 - POLESETS TO BE REPLACED
 - EXISTING POLESETS
 - POLESETS TO BE RETIRED
 - 38kV MAST TO BE REPLACED
 - 38kV MAST TO REMAIN
 - 38kV MAST TO BE RETIRED
 - 38kV LINE TO BE RETIRED
 - EXISTING 38kV LINE TO BE REPLACED



F01	FINAL FOR PLANNING	EM	BG	BG	DEC 25
A01	FOR PLANNING	JM	BG	BG	FEB 25
Rev	Description	Drawn	Chk'd	App'd	Date

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Jacobs TOBIN

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Date 12.03.25	Date 01.12.25	Date 01.12.25	Date 01.12.25

Scale:
1:5000 @ A1

Project Title
WATER SUPPLY PROJECT
EASTERN AND MIDLANDS REGION

Drawing Title
38kv UPRATE
LAYOUT PLAN OF PROPOSED POWER SUPPLY DUCTING
FROM BIRDHILL SUBSTATION

Drawing Status: FINAL FOR PLANNING
Jacobs Tobin No. 32105801 Client No. 9318

Drawing No.
32105801-850-38kv-022

