



- NOTES:
1. ALL DIMENSIONS ARE IN METRES AND COORDINATES TO ITM GRID UNLESS NOTED OTHERWISE
 2. ALL LEVELS ARE TO (OS) ORDINANCE MALIN HEAD VERTICAL DATUM IN METRES.
 3. TAILTE EIREANN MAPPING
 - 3.1. MAP SERIES: DISCOVERY SERIES
 4. MAP SHEETS: OS2412, OS2612

- LEGEND:
- RED LINE BOUNDARY
 - LAND WHICH IS UNDER THE CONTROL OF THE APPLICANT OR THE PERSON WHO OWNS THE LAND WHICH IS THE SUBJECT OF THE APPLICATION
 - LOCATION OF SITE NOTICE
 - WAYLEAVE

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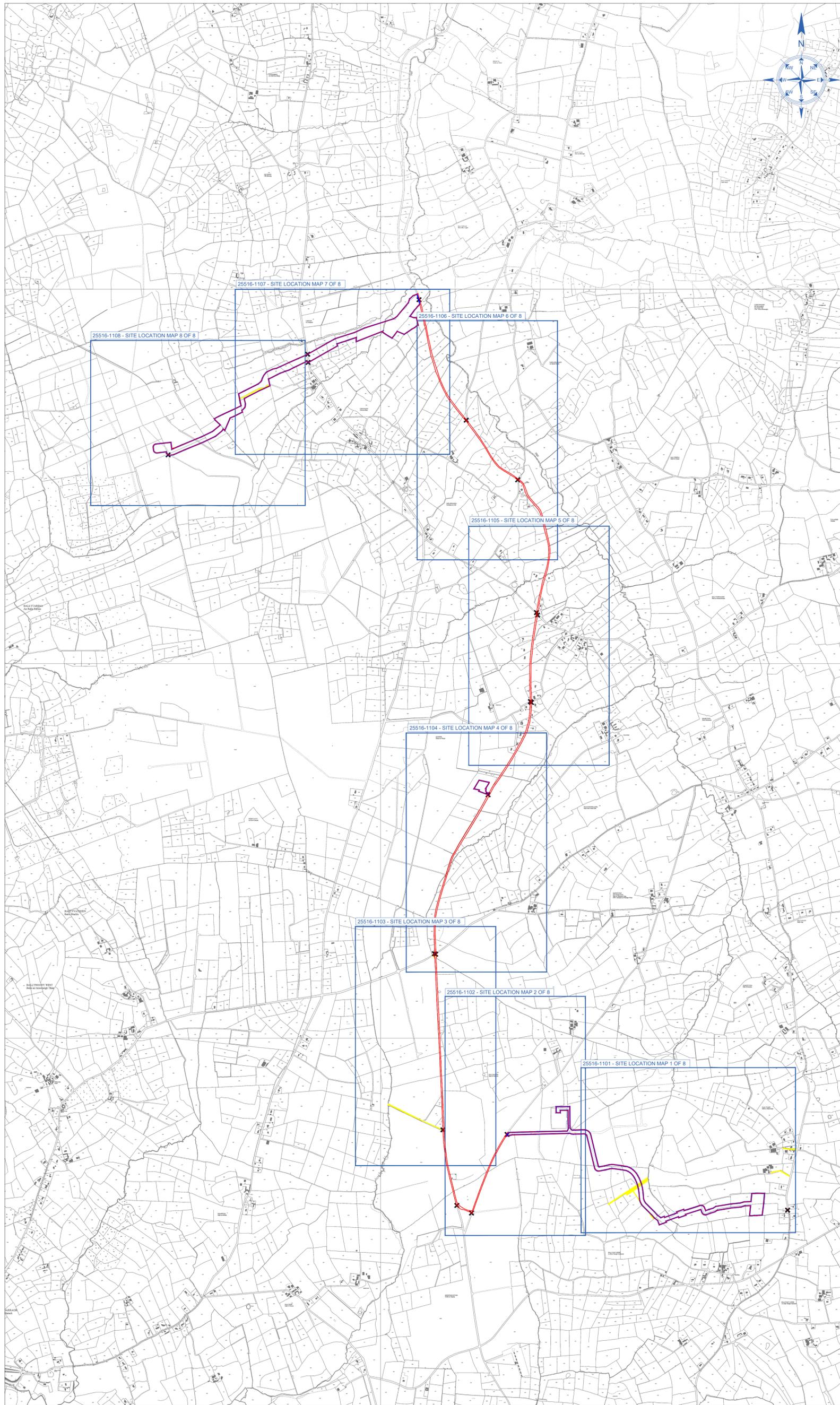
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CLIENT:	MANOGATE LTD.	DRAWN:	ER	SCALE:	1:15000 @ A1
JOB TITLE:	BALLYFASY WF 110KV GRID CONNECTION, CO. KILKENNY	DATE:	01/12/2025	JOB NO.:	25516
DRG. TITLE:	SITE CONTEXT MAP	DES. BY:	ER	DRG. NO.:	1000
		CHK. BY:	ER		
		APP. BY:	BMG		



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 2. ALL LEVELS ARE TO (OS) ORDINANCE MALIN HEAD VERTICAL DATUM IN METRES.
 3. TALLE EIREANN MAPPING
 - 3.1. MAP SERIES: 1:5000 RASTER
 - 3.2. MAP SHEETS: 5132, 5133, 5134, 5193, 5194, 5195, 5255, 5256, 5257, 5317, 5318, 5319, 5377, 5378, 5379
 - 3.3. RED LINE BOUNDARY AREA: 36.5Ha
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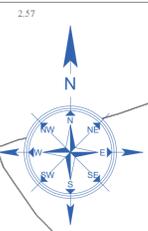
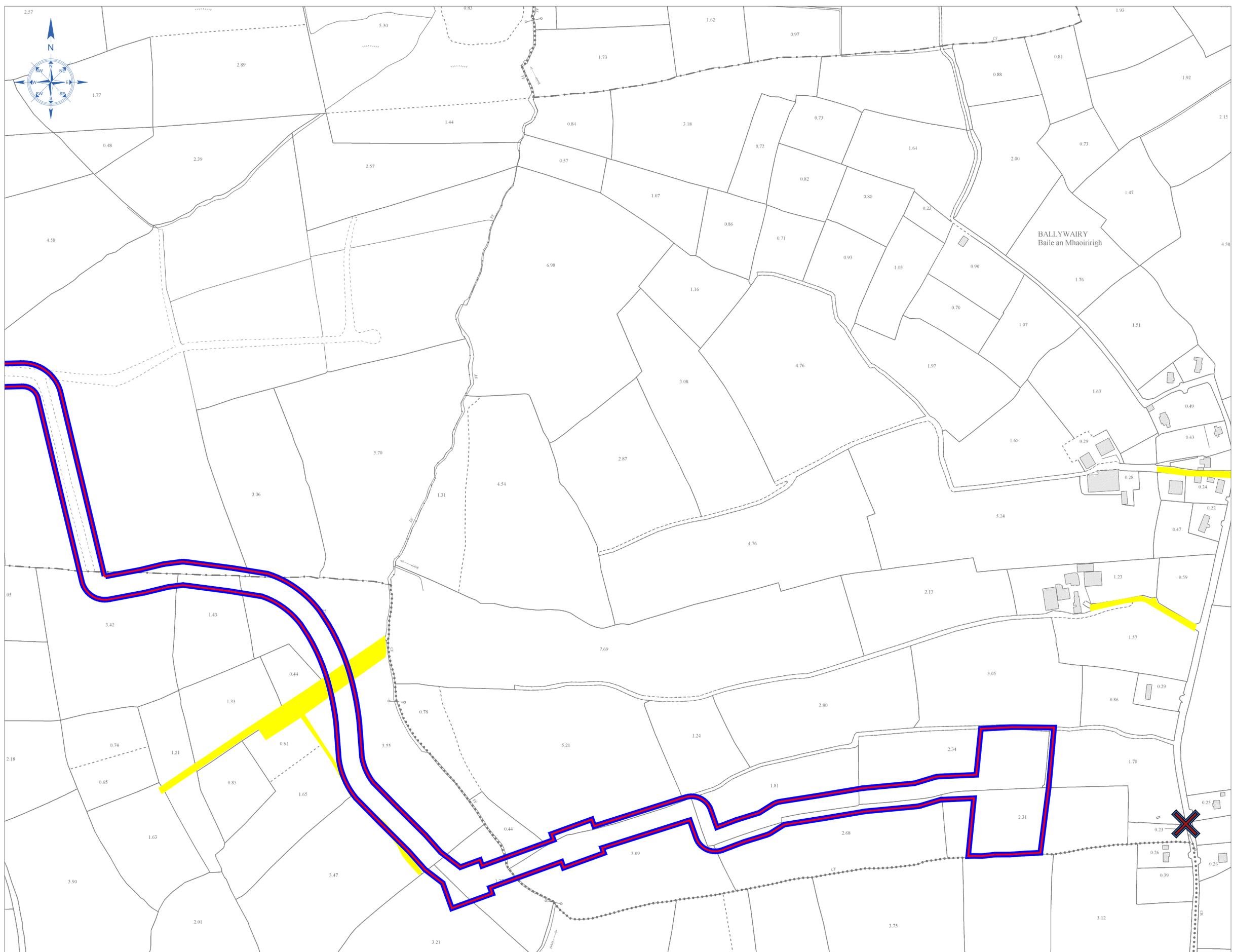
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CLIENT:	MANOGATE LTD.	DRAWN:	VC	SCALE:	1:15000 @ A1
JOB TITLE:	BALLYFASY WF 110KV GRID CONNECTION, CO. KILKENNY	DATE:	20/11/2025	JOB NO.:	25516
DRG. TITLE:	SITE LOCATION MAP - KEY PLAN	DES. BY:	ER	DRG. NO.:	1100
		CHK. BY:	ER		
		APP. BY:	BMG		



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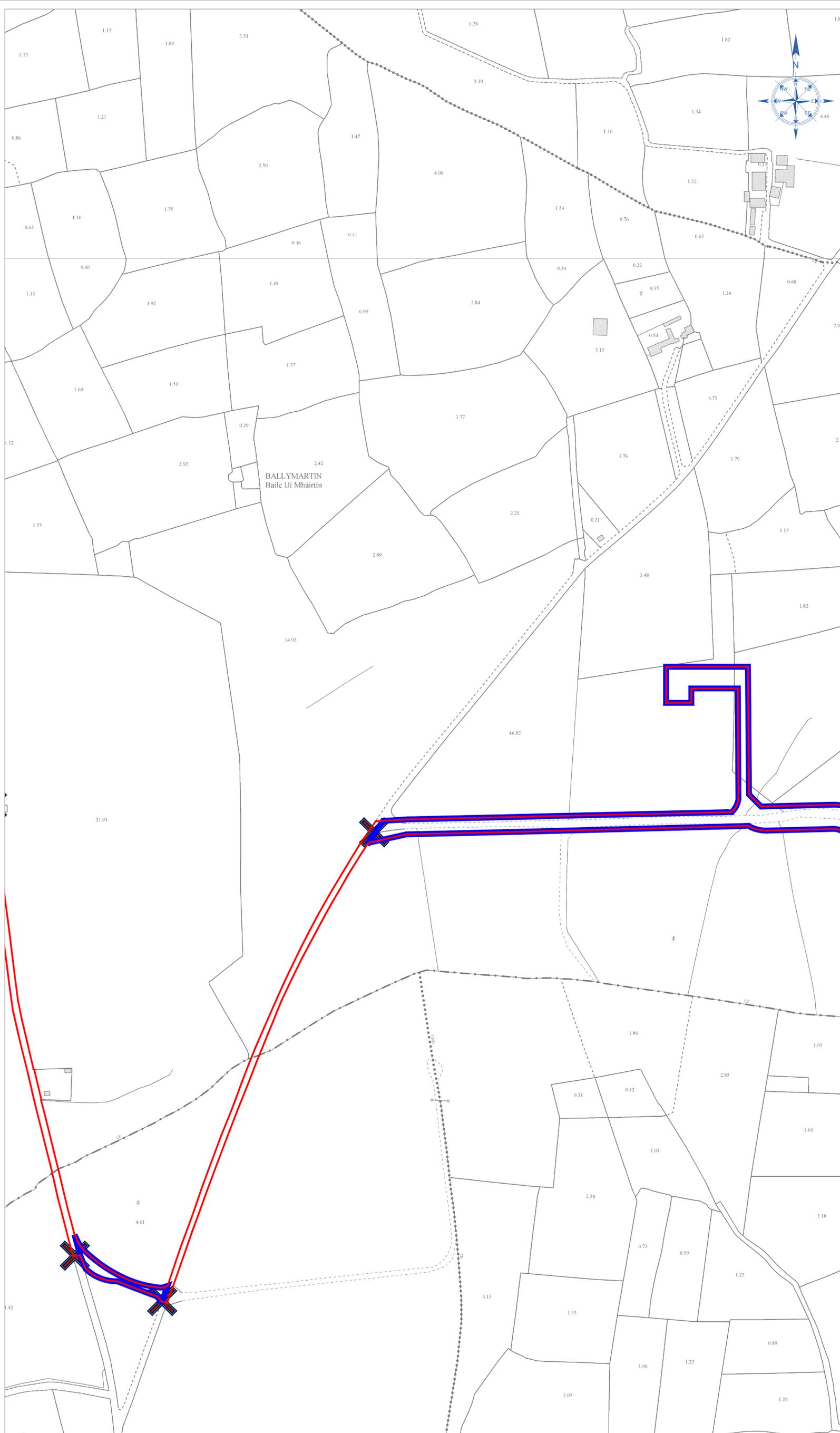
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CLIENT:	MANOGATE LTD.	DRAWN:	VC	SCALE:	1:2500 @ A1
JOB TITLE:	BALLYFASY WF 110KV GRID CONNECTION, CO. KILKENNY	DATE:	20/11/2025	JOB NO.:	25516
DRG. TITLE:	SITE LOCATION MAP - 1 OF 8	DES. BY:	ER	DRG. NO.:	1101
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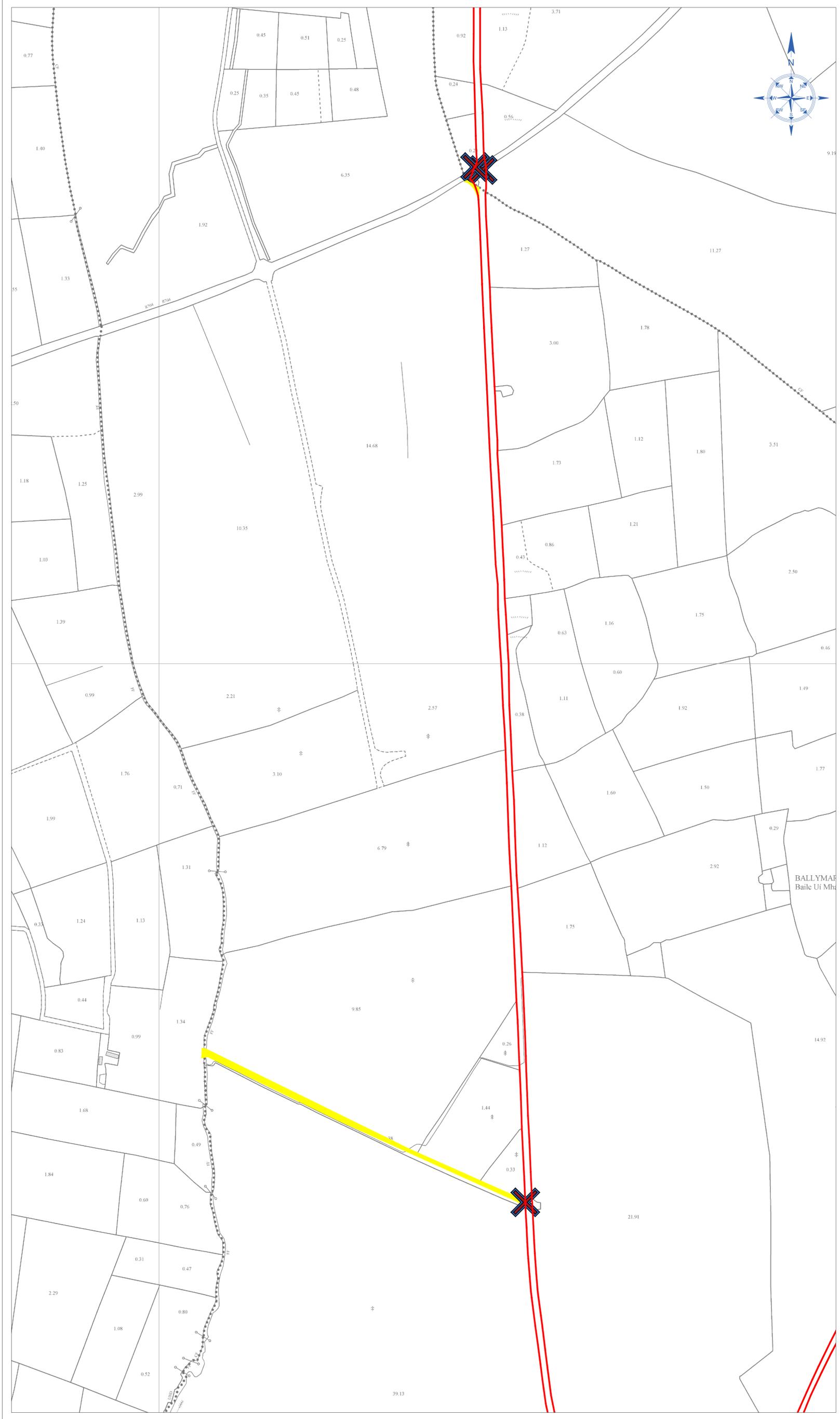
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CLIENT:	MANOGATE LTD.				
JOB TITLE:	BALLYFASY WF 110KV GRID CONNECTION, CO. KILKENNY				
DRG. TITLE:	SITE LOCATION MAP - 2 OF 8				
DRAWN:	VC	SCALE:	1:2500 @ A1		
DATE:	20/11/2025	JOB NO.	25516	DRG. NO.	1102
DES. BY:	ER	APP. BY:	BMG	REV.	P2
CHK. BY:	ER				



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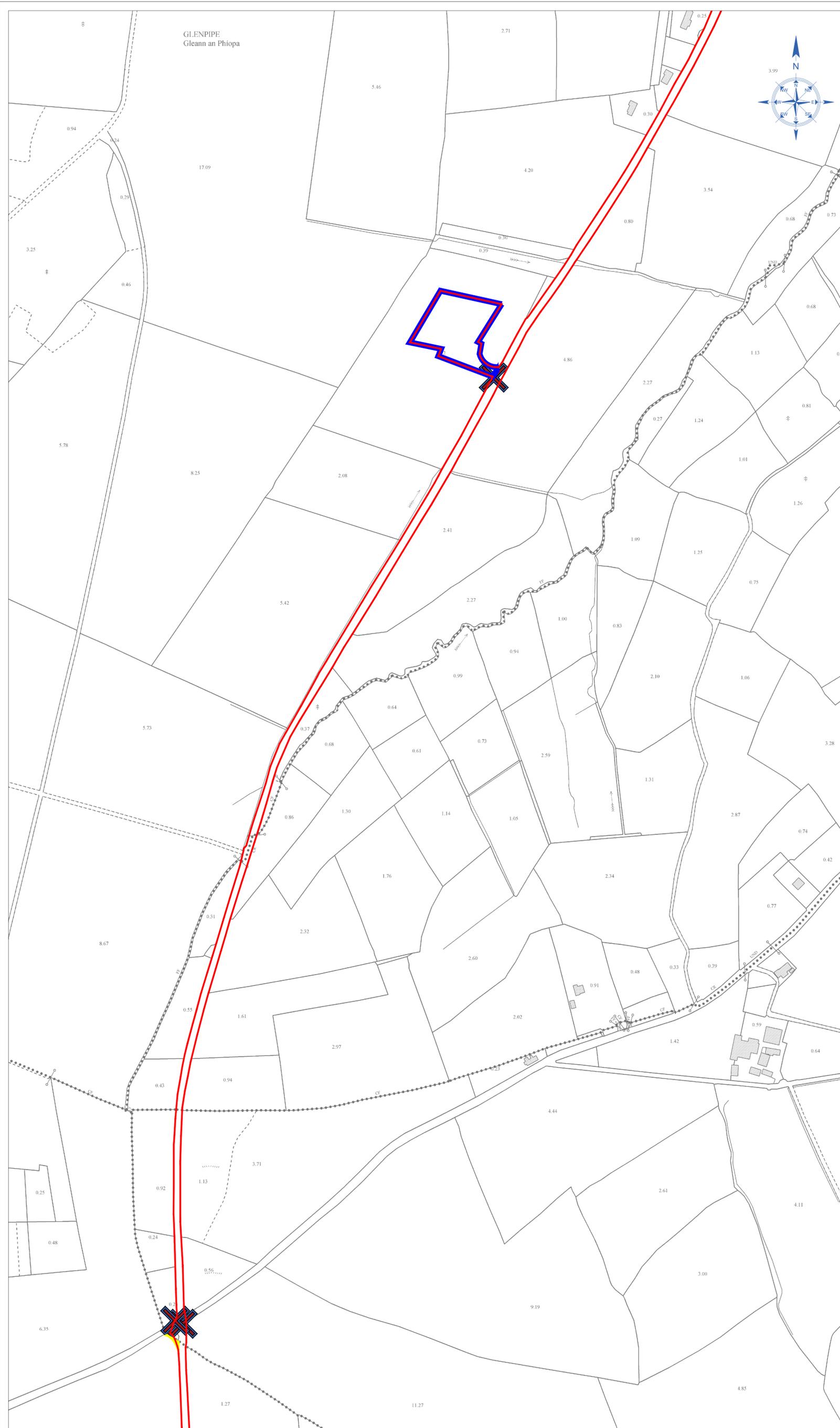
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JOB TITLE:	BALLYFASY WF 110KV GRID CONNECTION, CO. KILKENNY	DATE:	20/11/2025	JOB NO.:	25516
DRG. TITLE:	SITE LOCATION MAP - 3 OF 8	DES. BY:	ER	DRG. NO.:	1103
		CHK. BY:	ER		
		APP. BY:	BMG		
					P2



GLENPIPE
Gleann an Phiopa

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CLIENT:	MANOGATE LTD.			
JOB TITLE:	BALLYFASY WF 110KV GRID CONNECTION, CO. KILKENNY			
DRG. TITLE:	SITE LOCATION MAP - 4 OF 8			
DRAWN:	VC	SCALE:	1:2500 @ A1	
DATE:	20/11/2025	JOB NO.	25516	DRG. NO.
DES. BY:	ER	REV.	1104	P2
CHK. BY:	ER			
APP. BY:	BMG			



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LEGEND:

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CLIENT:	MANOGATE LTD.			
JOB TITLE:	BALLYFASY WF 110KV GRID CONNECTION, CO. KILKENNY			
DRG. TITLE:	SITE LOCATION MAP - 5 OF 8			
DRAWN:	VC	SCALE:	1:2500 @ A1	
DATE:	20/11/2025	JOB NO.	25516	DRG. NO.
DES. BY:	ER	REV.	1105	P1
CHK. BY:	ER			
APP. BY:	BMG			



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 - 3.1. MAP SERIES: 1:5000 RASTER
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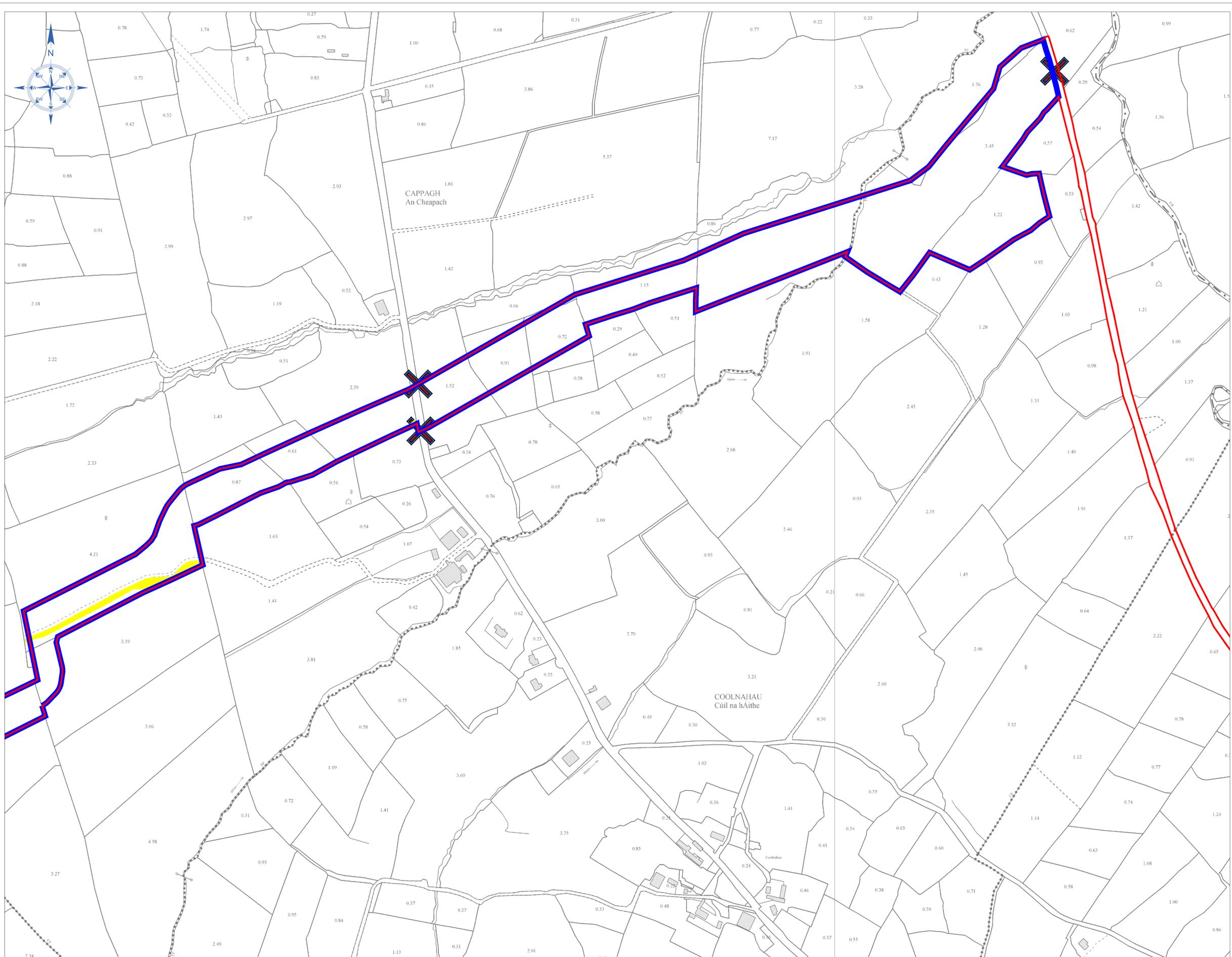
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JOB TITLE:	BALLYFASY WF 110KV GRID CONNECTION, CO. KILKENNY				
DRG. TITLE:	SITE LOCATION MAP - 6 OF 8				
DRAWN:	VC	SCALE:	1:2500 @ A1		
DATE:	20/11/2025	JOB NO.	25516	DRG. NO.	1106
DES. BY:	ER	APP. BY:	BMG	REV.	P1
CHK. BY:	ER				



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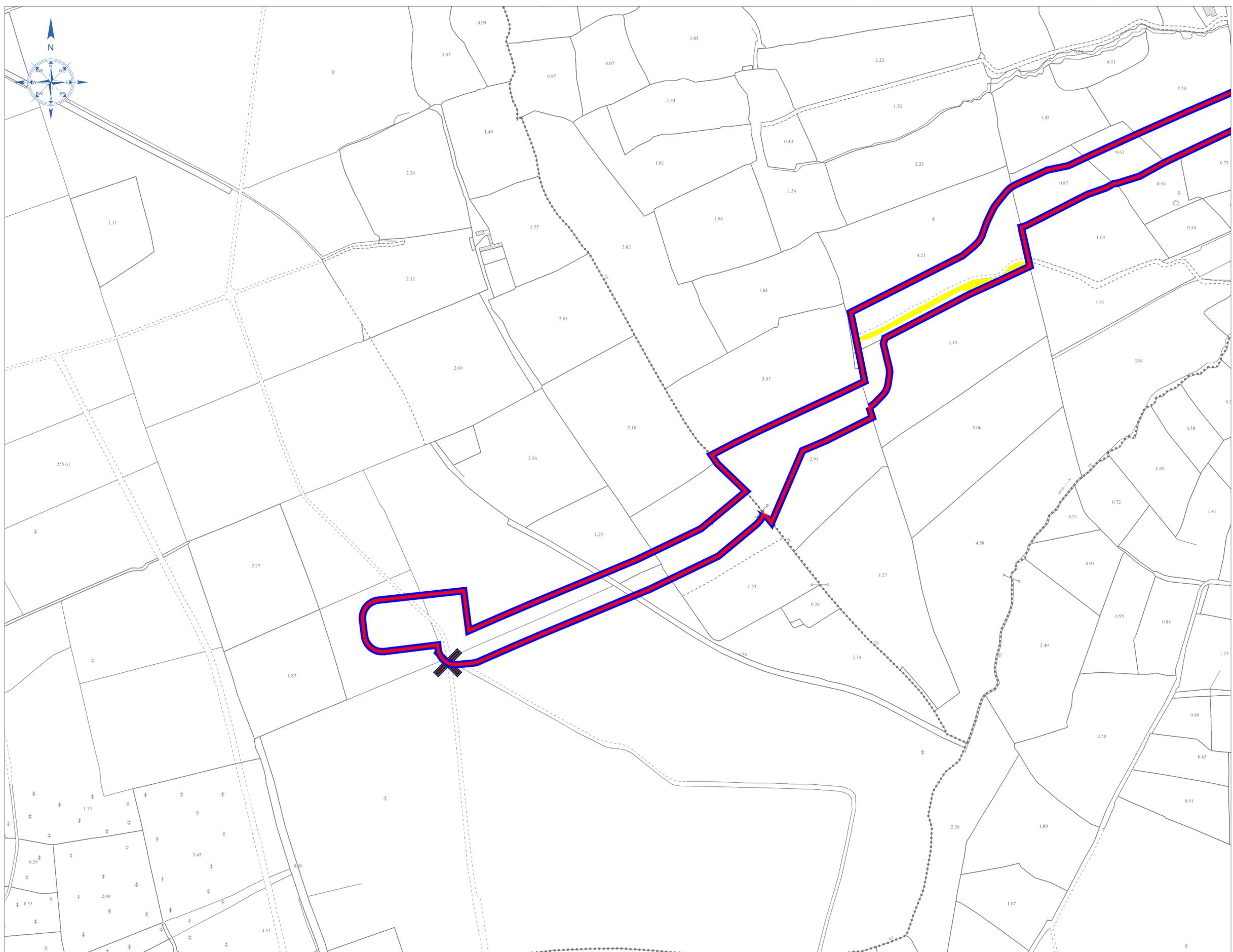
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JOB TITLE:	BALLYFASY WF 110KV GRID CONNECTION, CO. KILKENNY	DATE:	20/11/2025	JOB NO.	25516
DRG. TITLE:	SITE LOCATION MAP - 7 OF 8	DES. BY:	ER	DRG. NO.	1107
		CHK. BY:	ER		
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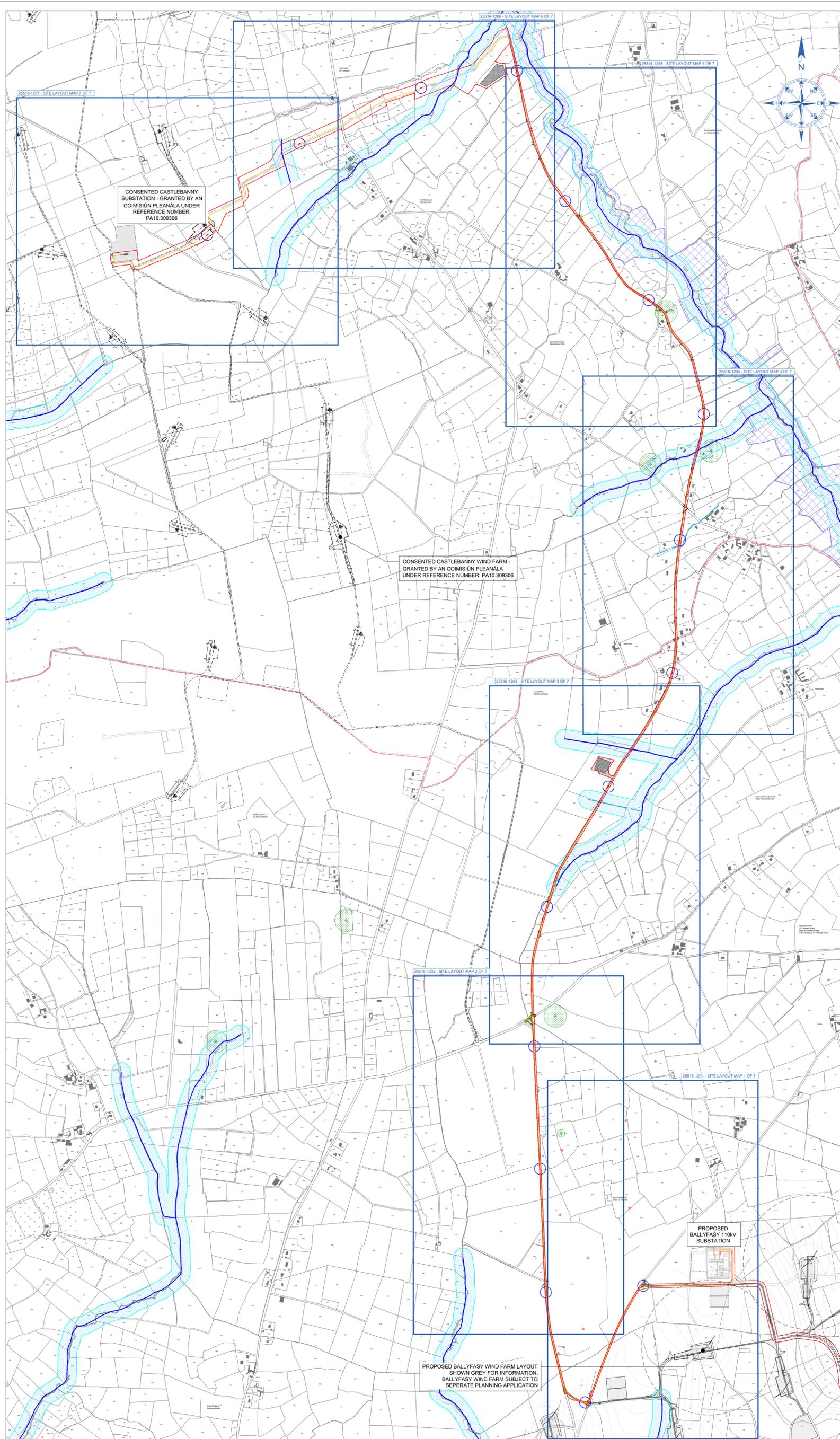
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JOB TITLE:	BALLYFASY WF 110KV GRID CONNECTION, CO. KILKENNY	DATE:	20/11/2025	JOB NO.	25516
DRG. TITLE:	SITE LOCATION MAP - 8 OF 8	DES. BY:	ER	DRG. NO.	1108
		CHK. BY:	ER	REV.	P2
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LEGEND:

- RED LINE BOUNDARY
- GRID CONNECTION OPTION ONE - SECTION OF GRID CONSTRUCTED IN PUBLIC ROAD AND TRACK
- GRID CONNECTION OPTION ONE - SECTION OF GRID TO BE DIRECTIONAL DRILLED
- LOCATION OF JOINT BAY, COMMS CHAMBER, AND EARTH LINK BOX
- SOUTH LEINSTER WAY
- EXISTING WATERCOURSE
- EPA REGISTERED STREAM/ SIGNIFICANT WATERCOURSE
- EXISTING WATERCOURSE 50m BUFFER ZONE - NO SPOIL TO BE STORED WITHIN BUFFER ZONE AREA
- SPECIAL AREA OF CONSERVATION (SAC) - NO SPOIL TO BE STORED WITHIN 50m OF SAC
- SITE AND MONUMENTS RECORD ZONE

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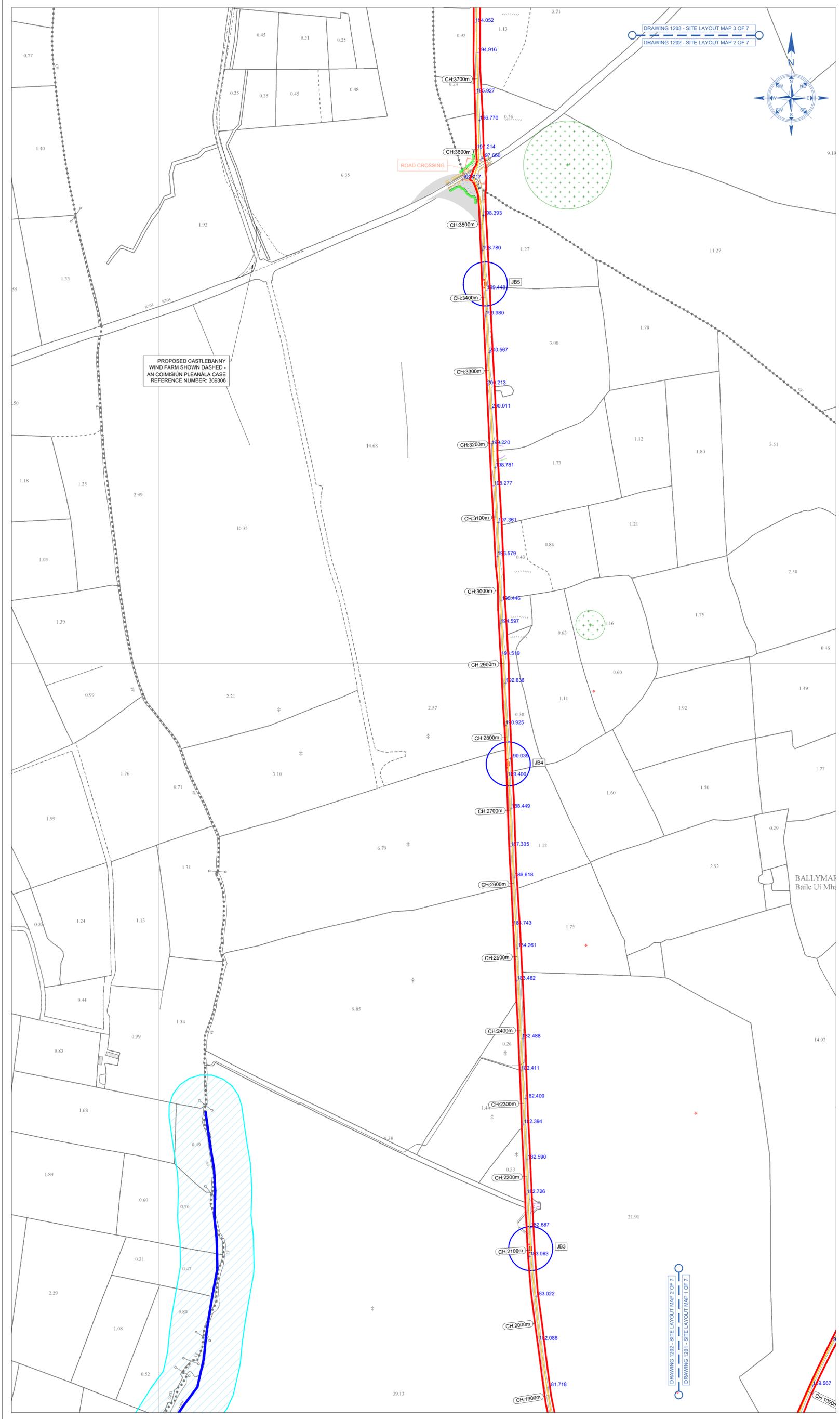
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JOB TITLE:	BALLYFASY WF 110KV GRID CONNECTION, CO. KILKENNY	DATE:	20/05/2025	JOB NO.:	25516
DRG. TITLE:	GRID CONNECTION OPTION ONE - SITE LAYOUT MAP KEY PLAN	DES. BY:	ER	DRG. NO.:	1200
		CHK. BY:	BMG		
		APP. BY:	BMG		



- NOTES:**
1. ALL DIMENSIONS ARE IN METRES AND COORDINATES TO ITM GRID UNLESS NOTED OTHERWISE
 2. ALL LEVELS ARE TO (OSI) ORDINANCE MALIN HEAD VERTICAL DATUM IN METRES.
 3. TAILTE EIREANN MAPPING
 - 3.1. MAP SERIES: 1:5000 RASTER
 - 3.2. MAP SHEETS: 5132, 5133, 5134, 5193, 5194, 5195, 5255, 5256, 5257, 5317, 5318, 5319, 5377, 5378, 5379
 4. THE IDENTIFIED LOCATION OF THE UNDERGROUND CABLE INFRASTRUCTURE, COMPOUNDS AND WORK AREAS AND ASSOCIATED INFRASTRUCTURE DEVELOPMENT, INCLUDING JOINT BAYS, COMMUNICATION CHAMBERS AND PASSING BAYS, ARE TO BE AGREED WITH EIRGRID PRIOR TO CONSTRUCTION
- LEGEND:**
- RED LINE BOUNDARY
 - GRID CONNECTION OPTION ONE - SECTION OF GRID CONSTRUCTED IN WIND FARM TRACK AND PUBLIC ROAD
 - GRID CONNECTION OPTION ONE - SECTION OF GRID TO BE DIRECTIONAL DRILLED
 - GRID CHAINEAGE
 - LOCATION OF DIRECTIONAL DRILLING COMPOUND
 - LOCATION OF GRID CROSSING
 - LOCATION OF JOINT BAY (No.); SEE DRAWING 1421
COMMS CHAMBER (No.); SEE DRAWING 1423
AND EARTH LINK BOX (No.); SEE DRAWING 1424
(No.) = Number
 - SOUTH LEINSTER WAY
 - EXISTING WATERCOURSE
 - EPA REGISTERED STREAM/ SIGNIFICANT WATERCOURSE
 - EXISTING WATERCOURSE 50m BUFFER ZONE - NO SPOIL TO BE STORED WITHIN BUFFER ZONE AREA
 - SPECIAL AREA OF CONSERVATION (SAC) - NO SPOIL TO BE STORED WITHIN 50m OF SAC
 - SITE AND MONUMENTS RECORD ZONE
 - LEVELS
 - EXISTING GROUND LEVEL

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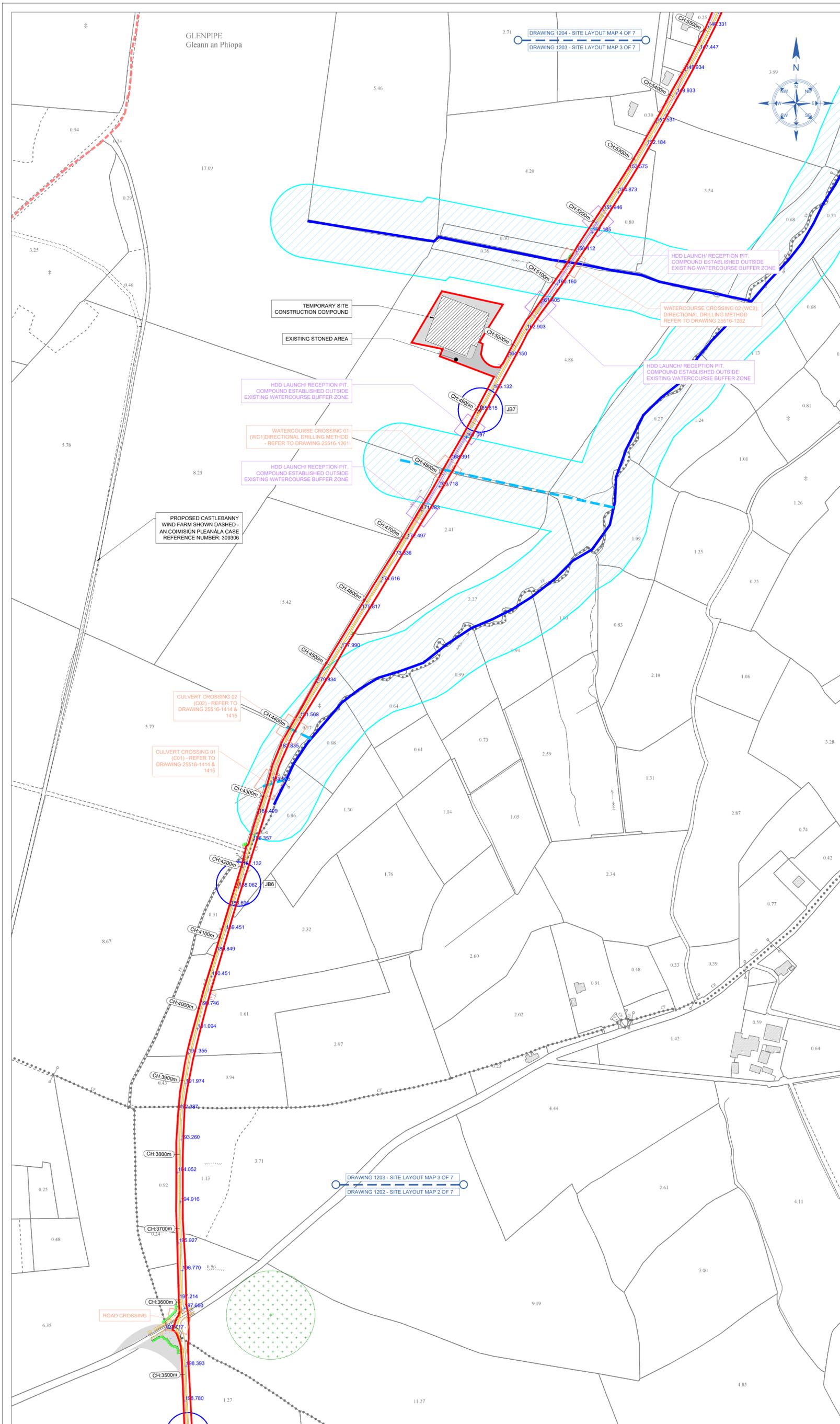
REV.	DWG BY:	APP/CHK:	DATE:	DESCRIPTION

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Tel: +353(0)1 216 2956
Email: info@mable.ie
Website: www.mable.ie

CLIENT:	MANOGATE LTD.	DRAWN:	ER	SCALE:	1:2500 @ A1
JOB TITLE:	BALLYFASY WF 110KV GRID CONNECTION, CO. KILKENNY	DATE:	18/06/2025	JOB NO.:	25516
DRG. TITLE:	GRID CONNECTION OPTION ONE - SITE LAYOUT MAP 2 OF 7	DES. BY:	ER	DRG. NO.:	1202
		CHK. BY:	BMG		
		APP. BY:	BMG		



- NOTES:**
1. ALL DIMENSIONS ARE IN METRES AND COORDINATES TO ITM GRID UNLESS NOTED OTHERWISE
 2. ALL LEVELS ARE TO (OS) ORDINANCE MALIN HEAD VERTICAL DATUM IN METRES.
 3. TAILTE EIREANN MAPPING
 - 3.1. MAP SERIES: 1:5000 RASTER
 - 3.2. MAP SHEETS: 5132, 5133, 5134, 5193, 5194, 5195, 5255, 5256, 5257, 5317, 5318, 5319, 5377, 5378, 5379
 4. THE IDENTIFIED LOCATION OF THE UNDERGROUND CABLE INFRASTRUCTURE, COMPOUNDS AND WORK AREAS AND ASSOCIATED INFRASTRUCTURE DEVELOPMENT, INCLUDING JOINT BAYS, COMMUNICATION CHAMBERS AND PASSING BAYS, ARE TO BE AGREED WITH EIRGRID PRIOR TO CONSTRUCTION
- LEGEND:**
- RED LINE BOUNDARY
 - GRID CONNECTION OPTION ONE - SECTION OF GRID CONSTRUCTED IN WIND FARM TRACK AND PUBLIC ROAD
 - GRID CONNECTION OPTION ONE - SECTION OF GRID TO BE DIRECTIONAL DRILLED
 - GRID CHAINAGE (CH:000m)
 - LOCATION OF DIRECTIONAL DRILLING COMPOUND
 - LOCATION OF GRID CROSSING
 - LOCATION OF JOINT BAY (No.); SEE DRAWING 1421
COMMS CHAMBER (No.); SEE DRAWING 1423
AND EARTH LINK BOX (No.); SEE DRAWING 1424
(No.) = Number
 - SOUTH LEINSTER WAY
 - EXISTING WATERCOURSE
 - EPA REGISTERED STREAM/ SIGNIFICANT WATERCOURSE
 - EXISTING WATERCOURSE 50m BUFFER ZONE - NO SPOIL TO BE STORED WITHIN BUFFER ZONE AREA
 - SPECIAL AREA OF CONSERVATION (SAC) - NO SPOIL TO BE STORED WITHIN 50m OF SAC
 - SITE AND MONUMENTS RECORD ZONE
 - LEVELS (e.g., 215.163)
 - EXISTING GROUND LEVEL (e.g., 198.000)

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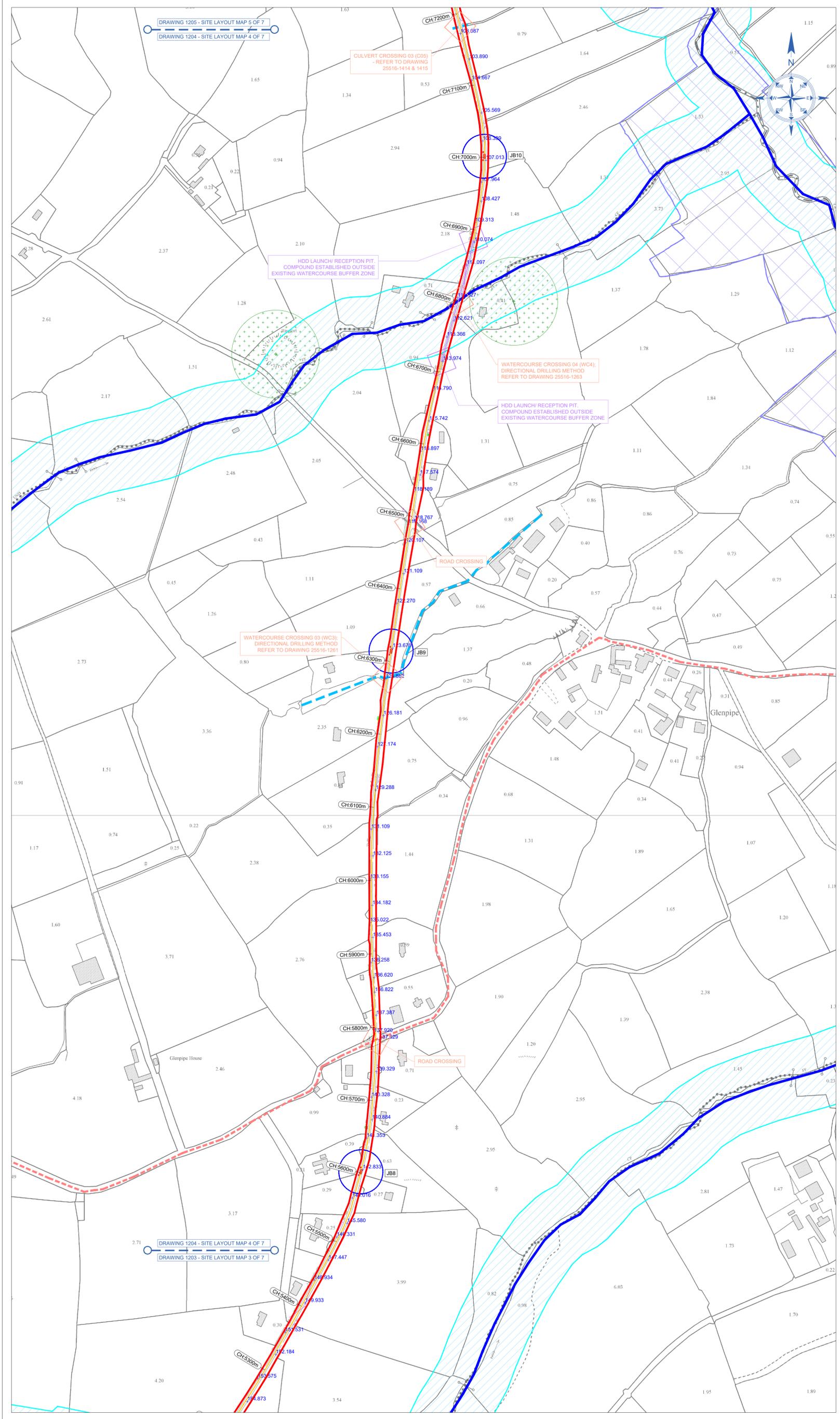
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Tel: +353(0)1 216 2956
Email: info@mable.ie
Website: www.mable.ie

CLIENT:	MANOGATE LTD.	DRAWN:	ER	SCALE:	1:2500 @ A1
JOB TITLE:	BALLYFASY WF 110KV GRID CONNECTION, CO. KILKENNY	DATE:	18/06/2025	JOB NO.:	25516
DRG. TITLE:	GRID CONNECTION OPTION ONE - SITE LAYOUT MAP 3 OF 7	DES. BY:	ER	DRG. NO.:	1203
		CHK. BY:	BMG		
		APP. BY:	BMG		



- NOTES:**
1. ALL DIMENSIONS ARE IN METRES AND COORDINATES TO ITM GRID UNLESS NOTED OTHERWISE
 2. ALL LEVELS ARE TO (OSI) ORDINANCE MALIN HEAD VERTICAL DATUM IN METRES.
 3. TAILTE EIREANN MAPPING
 - 3.1. MAP SERIES: 1:5000 RASTER
 - 3.2. MAP SHEETS: 5132, 5133, 5134, 5193, 5194, 5195, 5255, 5256, 5257, 5317, 5318, 5319, 5377, 5378, 5379
 4. THE IDENTIFIED LOCATION OF THE UNDERGROUND CABLE INFRASTRUCTURE DEVELOPMENT, INCLUDING JOINT BAYS, COMMUNICATION CHAMBERS AND PASSING BAYS, ARE TO BE AGREED WITH EIRGRID PRIOR TO CONSTRUCTION
- LEGEND:**
- RED LINE BOUNDARY
 - GRID CONNECTION OPTION ONE - SECTION OF GRID CONSTRUCTED IN WIND FARM TRACK AND PUBLIC ROAD
 - GRID CONNECTION OPTION ONE - SECTION OF GRID TO BE DIRECTIONAL DRILLED
 - GRID CHAINAGE (CH:000m)
 - LOCATION OF DIRECTIONAL DRILLING COMPOUND
 - LOCATION OF GRID CROSSING
 - LOCATION OF JOINT BAY (No.); SEE DRAWING 1421
COMMS CHAMBER (No.); SEE DRAWING 1423
AND EARTH LINK BOX (No.); SEE DRAWING 1424
(No.) = Number
 - SOUTH LEINSTER WAY
 - EXISTING WATERCOURSE
 - EPA REGISTERED STREAM/ SIGNIFICANT WATERCOURSE
 - EXISTING WATERCOURSE 50m BUFFER ZONE - NO SPOIL TO BE STORED WITHIN BUFFER ZONE AREA
 - SPECIAL AREA OF CONSERVATION (SAC) - NO SPOIL TO BE STORED WITHIN 50m OF SAC
 - SITE AND MONUMENTS RECORD ZONE
 - LEVELS (e.g., 215.163)
 - EXISTING GROUND LEVEL (e.g., 198.000)

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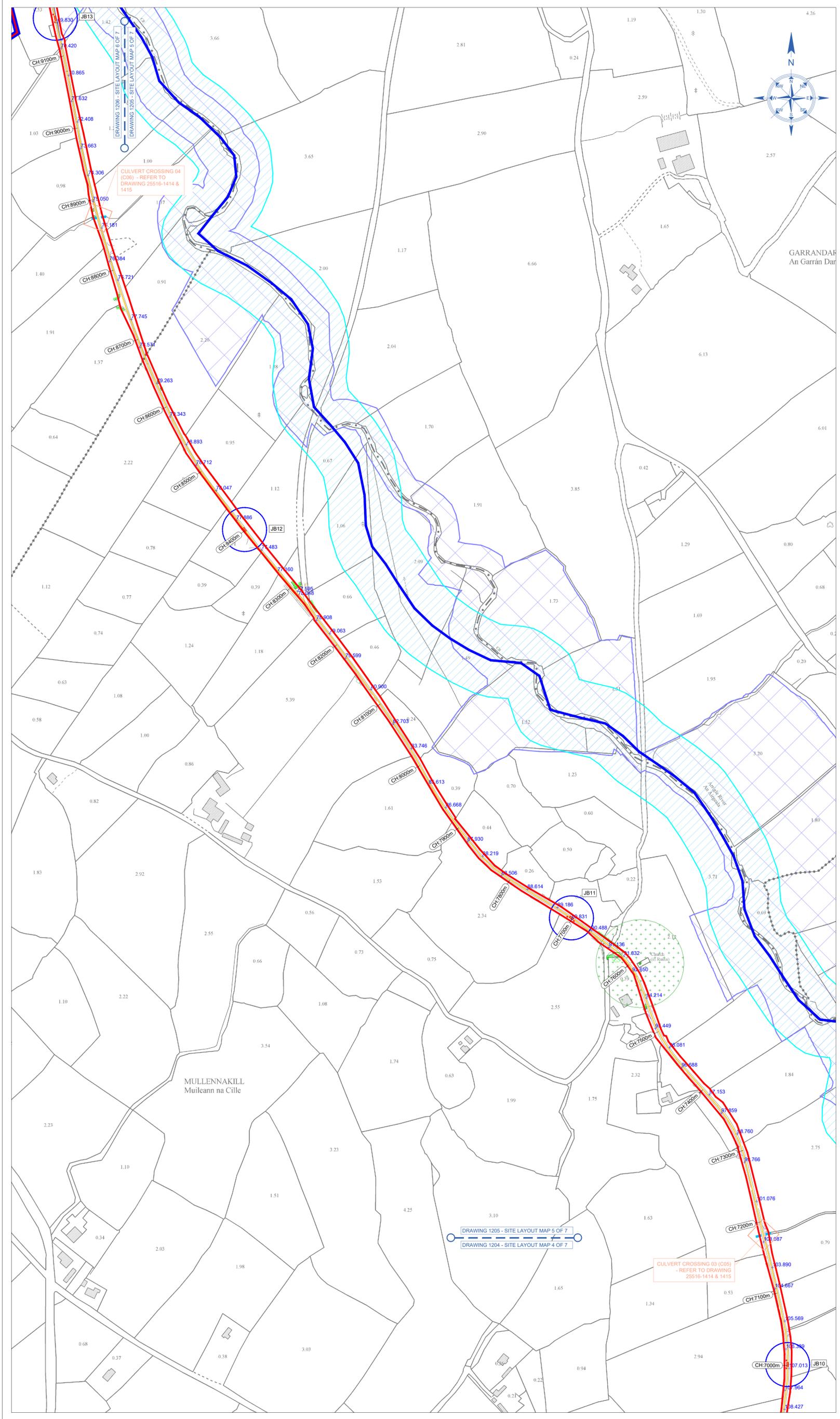
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Website: www.mable.ie

CLIENT:	MANOGATE LTD.	DRAWN:	ER	SCALE:	1:2500 @ A1
JOB TITLE:	BALLYFASY WF 110KV GRID CONNECTION, CO. KILKENNY	DATE:	18/06/2025	JOB NO.:	25516
DRG. TITLE:	GRID CONNECTION OPTION ONE - SITE LAYOUT MAP 4 OF 7	DES. BY:	ER	DRG. NO.:	1204
		CHK. BY:	BMG		
		APP. BY:	BMG		



- NOTES:**
1. ALL DIMENSIONS ARE IN METRES AND COORDINATES TO ITM GRID UNLESS NOTED OTHERWISE
 2. ALL LEVELS ARE TO (OS) ORDINANCE MALIN HEAD VERTICAL DATUM IN METRES.
 3. TAILTE EIREANN MAPPING
 - 3.1. MAP SERIES: 1:5000 RASTER
 - 3.2. MAP SHEETS: 5132, 5133, 5134, 5193, 5194, 5195, 5255, 5256, 5257, 5317, 5318, 5319, 5377, 5378, 5379
 4. THE IDENTIFIED LOCATION OF THE UNDERGROUND CABLE INFRASTRUCTURE DEVELOPMENT, INCLUDING JOINT BAYS, COMMUNICATION CHAMBERS AND PASSING BAYS, ARE TO BE AGREED WITH EIRGRID PRIOR TO CONSTRUCTION
- LEGEND:**
- RED LINE BOUNDARY
 - GRID CONNECTION OPTION ONE - SECTION OF GRID CONSTRUCTED IN WIND FARM TRACK AND PUBLIC ROAD
 - GRID CONNECTION OPTION ONE - SECTION OF GRID TO BE DIRECTIONAL DRILLED
 - GRID CHAINAGE (CH:000m)
 - LOCATION OF DIRECTIONAL DRILLING COMPOUND
 - LOCATION OF GRID CROSSING
 - LOCATION OF JOINT BAY (No.); SEE DRAWING 1421
COMMS CHAMBER (No.); SEE DRAWING 1423
AND EARTH LINK BOX (No.); SEE DRAWING 1424
(No.) = Number
 - SOUTH LEINSTER WAY
 - EXISTING WATERCOURSE
 - EPA REGISTERED STREAM/SIGNIFICANT WATERCOURSE
 - EXISTING WATERCOURSE 50m BUFFER ZONE - NO SPOIL TO BE STORED WITHIN BUFFER ZONE AREA
 - SPECIAL AREA OF CONSERVATION (SAC) - NO SPOIL TO BE STORED WITHIN 50m OF SAC
 - SITE AND MONUMENTS RECORD ZONE
 - LEVELS (e.g., 215.163)
 - EXISTING GROUND LEVEL (e.g., 198.000)

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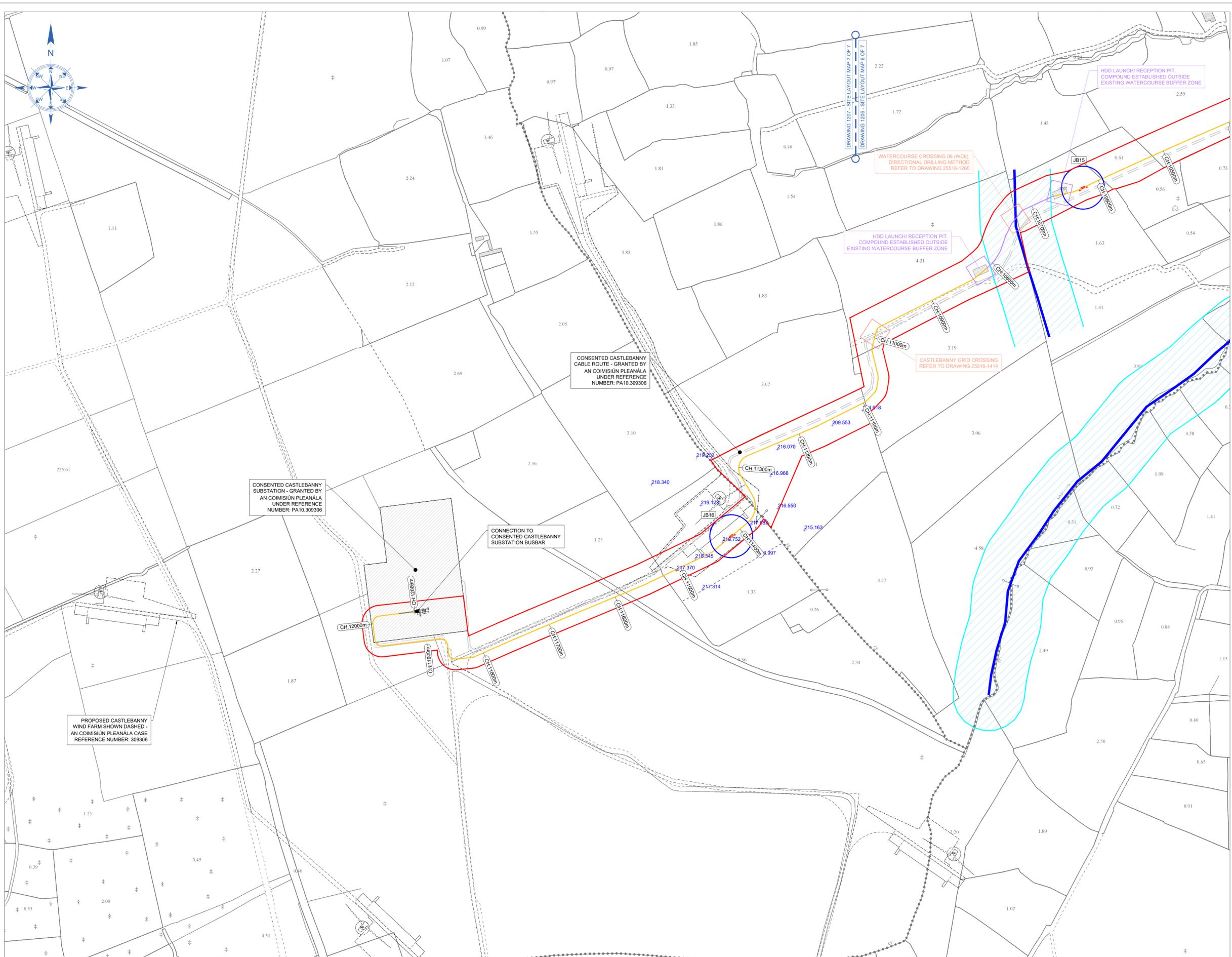
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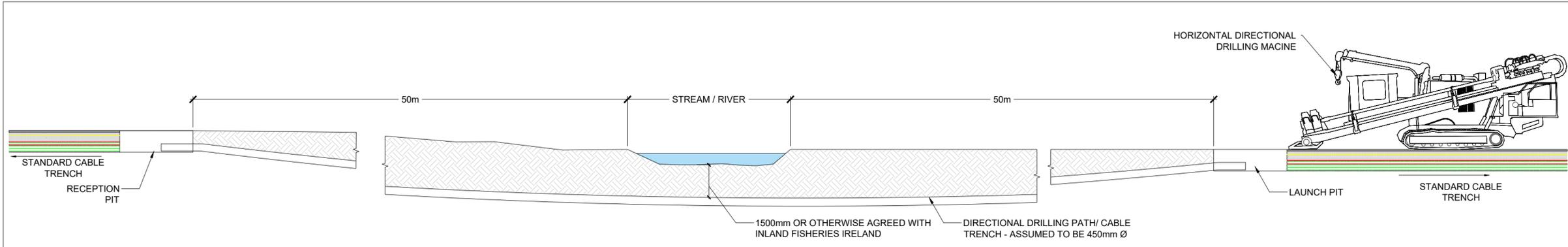
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JOB TITLE:	BALLYFASY WF 110KV GRID CONNECTION, CO. KILKENNY	DATE:	18/06/2025	JOB NO.:	25516
DRG. TITLE:	GRID CONNECTION OPTION ONE - SITE LAYOUT MAP 5 OF 7	DES. BY:	ER	DRG. NO.:	1205
		CHK. BY:	BMG		
		APP. BY:	BMG		



- NOTES:**
1. ALL DIMENSIONS ARE IN METRES AND COORDINATES TO ITM GRID UNLESS NOTED OTHERWISE.
 2. ALL LEVELS ARE TO (OSI) ORDINANCE MALIN HEAD VERTICAL DATUM IN METRES.
 3. TAILTE EIREANN MAPPING
 - 3.1. MAP SERIES: 1:5000 RASTER
 - 3.2. MAP SHEETS: 5132, 5133, 5134, 5193, 5194, 5195, 5255, 5256, 5257, 5317, 5318, 5319, 5377, 5378, 5379
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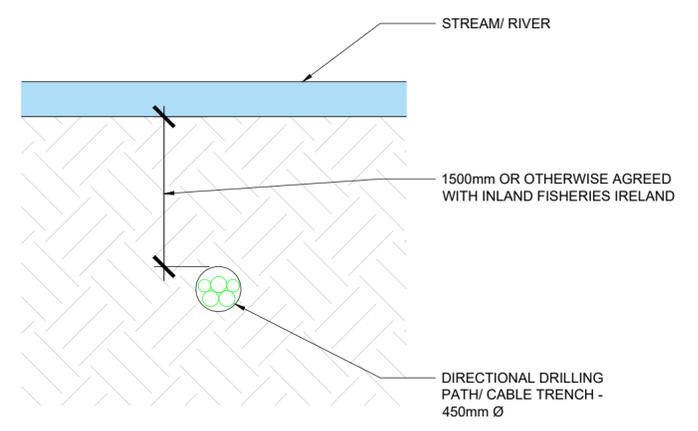
- LEGEND:**
- RED LINE BOUNDARY
 - GRID CONNECTION OPTION ONE - SECTION OF GRID CONSTRUCTED IN WIND FARM TRACK AND PUBLIC ROAD
 - GRID CONNECTION OPTION ONE - SECTION OF GRID TO BE DIRECTIONAL DRILLED
 - GRID CHAINAGE (CH:000m)
 - LOCATION OF DIRECTIONAL DRILLING COMPOUND
 - LOCATION OF GRID CROSSING
 - LOCATION OF JOINT BAY (No.); SEE DRAWING 1421 COMMS CHAMBER (No.); SEE DRAWING 1423 AND EARTH LINK BOX (No.); SEE DRAWING 1424 (No.) = Number
 - SOUTH LEINSTER WAY
 - EXISTING WATERCOURSE
 - EPA REGISTERED STREAM/SIGNIFICANT WATERCOURSE
 - EXISTING WATERCOURSE 50m BUFFER ZONE - NO SPOIL TO BE STORED WITHIN BUFFER ZONE AREA
 - SPECIAL AREA OF CONSERVATION (SAC) - NO SPOIL TO BE STORED WITHIN 50m OF SAC
 - SITE AND MONUMENTS RECORD ZONE
 - LEVELS
 - EXISTING GROUND LEVEL

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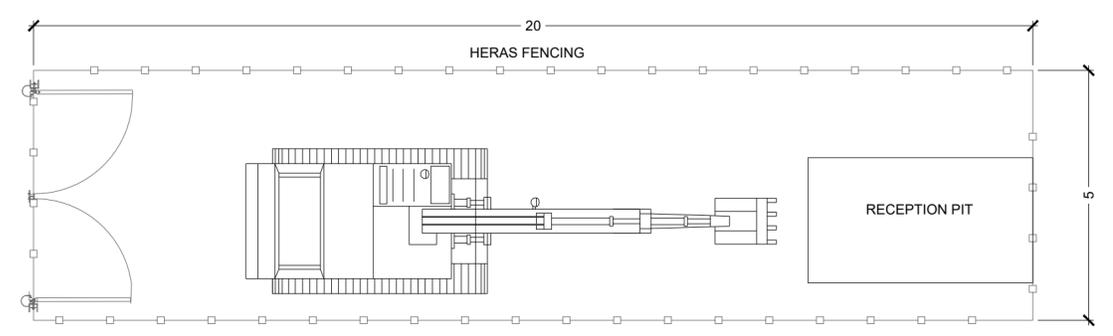


P1 SECTION OF DIRECTIONAL DRILLING UNDER WATERCOURSE
SCALE 1:200

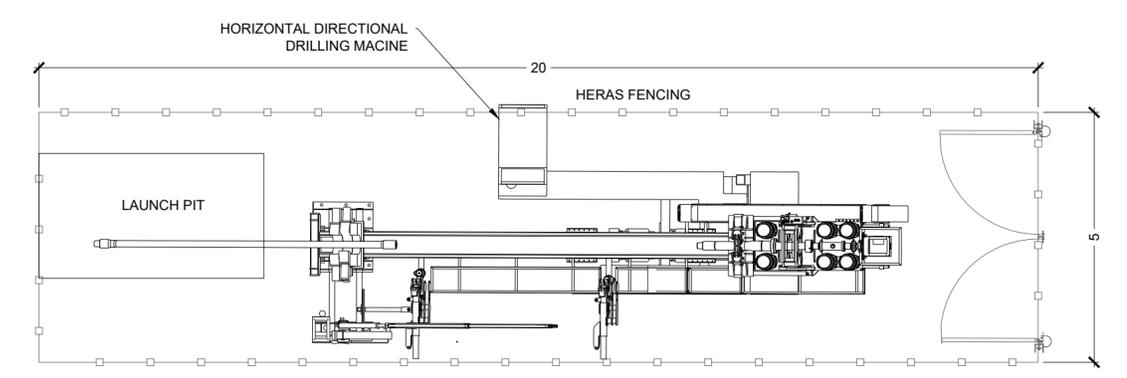
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D2 DIRECTIONAL DRILLING ROAD CROSSING DETAIL - CROSS SECTION
SCALE 1:50



D3 DIRECTIONAL DRILLING RECEPTION COMPOUND
SCALE 1:100



D4 DIRECTIONAL DRILLING LAUNCH COMPOUND
SCALE 1:100

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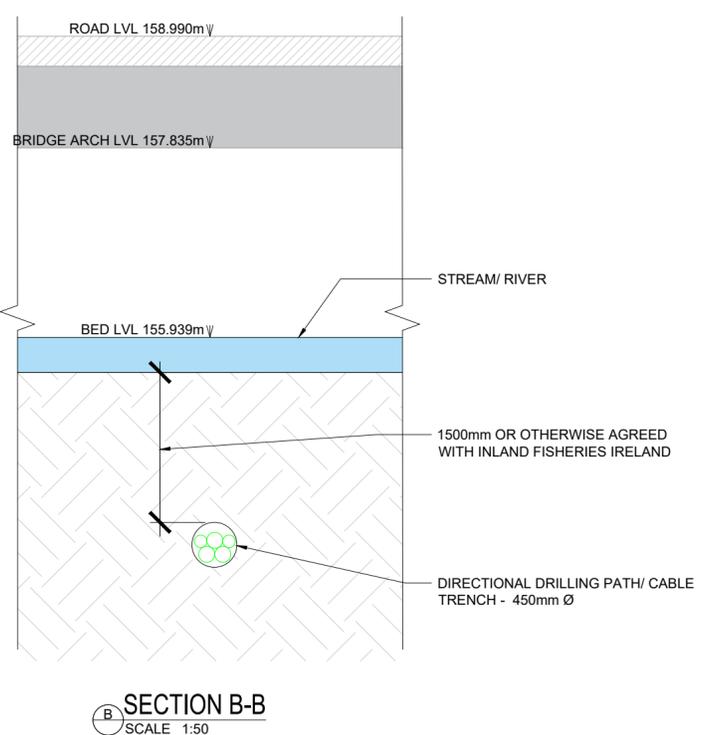
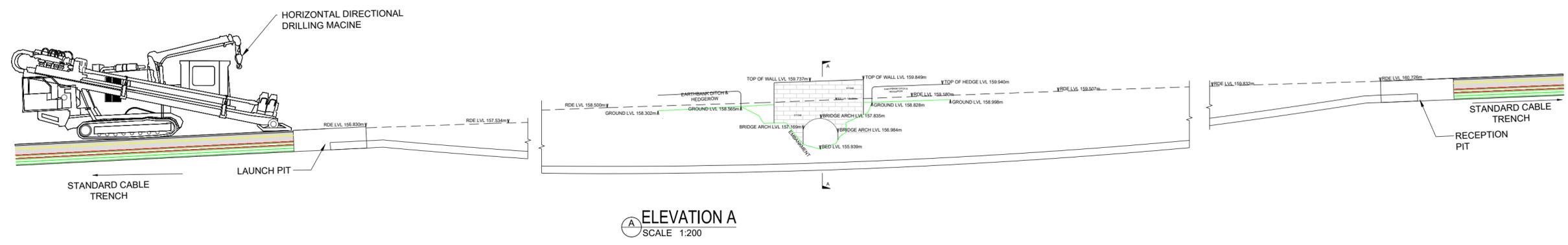
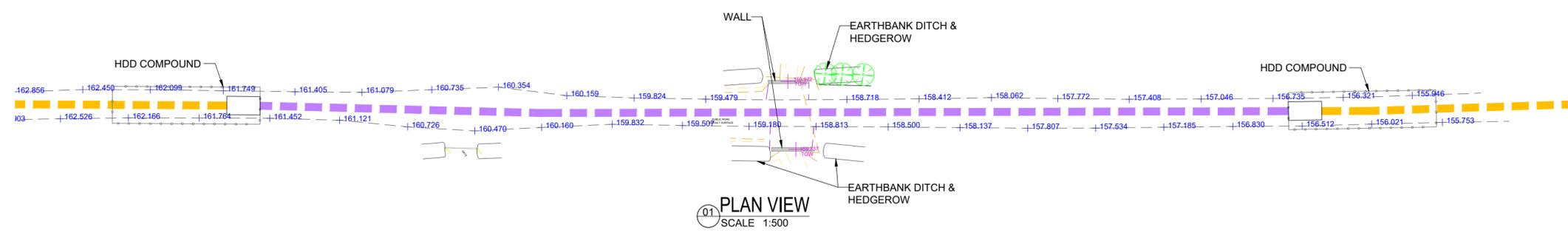
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 Tel: +353(0)1 216 2956
 Email: info@mable.ie
 Website: www.mable.ie

CLIENT: MANOGATE LTD.	DRAWN: MM	SCALE: AS SHOWN @ A2		
JOB TITLE: BALLYFASY WF 110kV GRID CONNECTION, CO. KILKENNY	DATE: 26/06/25	JOB NO.	DRG. NO.	REV.
DRG. TITLE: HORIZONTAL DIRECTIONAL DRILLING UNDER WATERCOURSE	DES. BY: MM	25516	1260	P1
	CHK. BY: ER			
	APP. BY: BMG			

- NOTES:**
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 2. USE FIGURED DIMENSIONS ONLY. DO NOT SCALE.
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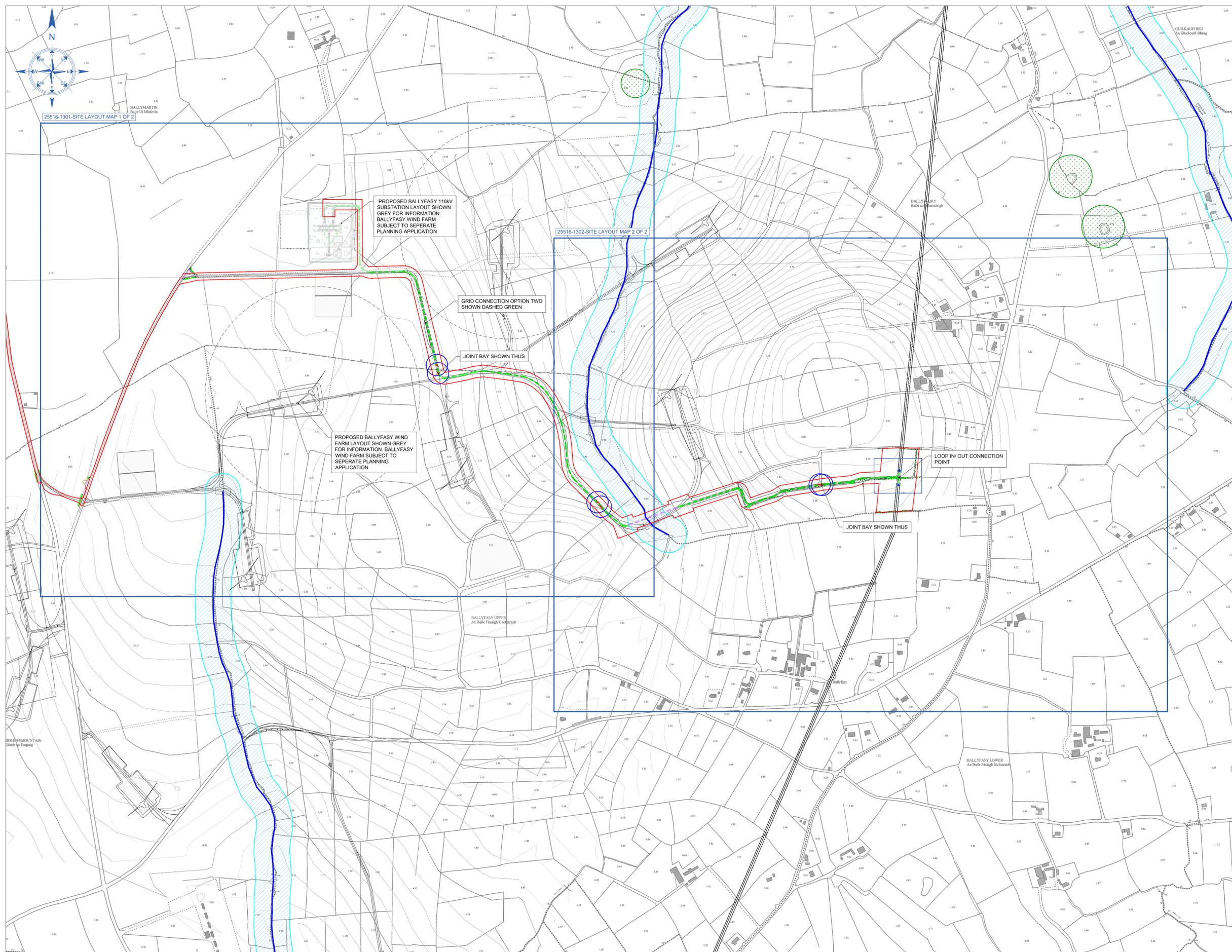
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CLIENT:	MANOGATE LTD.	DRAWN:	MM	SCALE: AS SHOWN @ A2		
JOB TITLE:	BALLYFASY WF 110kV GRID CONNECTION, CO. KILKENNY	DATE:	30/06/25	JOB NO.	DRG. NO.	REV.
DRG. TITLE:	WC2: GLENPIPE ROAD BRIDGE 1.0 CROSSING	DES. BY:	MM	25516	1262	P2
		CHK. BY:	ER			
		APP. BY:	BMG			



- NOTES:**
1. ALL DIMENSIONS ARE IN METRES AND COORDINATES TO ITM GRID UNLESS NOTED OTHERWISE
 2. ALL LEVELS ARE TO (OS) ORDINANCE MALIN HEAD VERTICAL DATUM IN METRES.
 3. TAILTE EIREANN MAPPING
 - 3.1. MAP SERIES: 1:5000 RASTER
 - 3.2. MAP SHEETS: 5379
 4. THE ROUTE OF THE PROPOSED CABLE ROUTE MAY VARY SUBJECT TO SITE CONDITIONS AND ENCOUNTERING EXISTING SERVICES.
- LEGEND:**
- RED LINE BOUNDARY
 - GRID CONNECTION OPTION ONE - SECTION OF GRID CONSTRUCTED IN PUBLIC ROAD AND TRACK
 - GRID CONNECTION OPTION ONE - SECTION OF GRID TO BE DIRECTIONAL DRILLED
 - LOCATION OF JOINT BAY, COMMS CHAMBER, AND EARTH LINK BOX
 - EXISTING GREAT ISLAND - KILKENNY 110KV OVERHEAD LINE
 - EXISTING WATERCOURSE
 - EPA REGISTERED STREAM/ SIGNIFICANT WATERCOURSE
 - EXISTING WATERCOURSE 50m BUFFER ZONE - NO SPOIL TO BE STORED WITHIN BUFFER ZONE AREA
 - SITE AND MONUMENTS RECORD ZONE

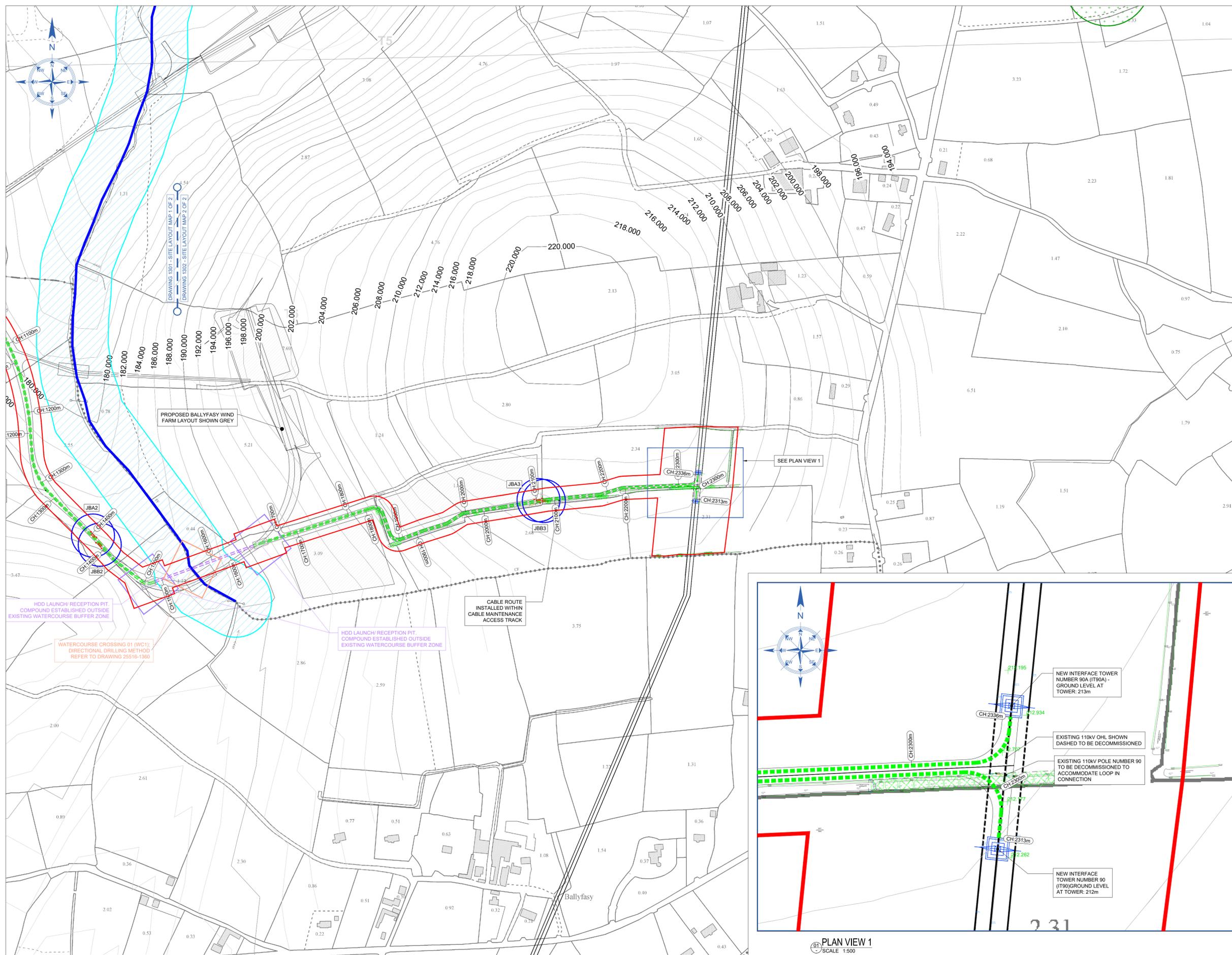
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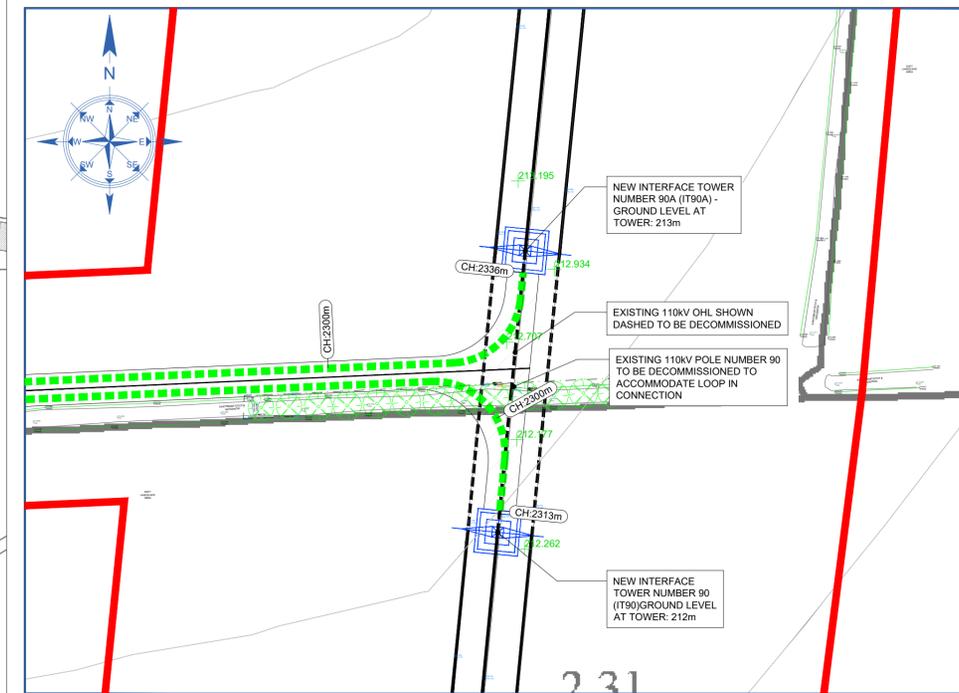
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		JOB TITLE:	BALLYFASY WF 110KV GRID CONNECTION, CO. KILKENNY	DATE:	21/11/2025	JOB NO.	DRG. NO.	REV.
DRG. TITLE:	GRID CONNECTION OPTION TWO - SITE LAYOUT MAP KEY PLAN	DES. BY:	ER	CHK. BY:	ER	25516	1300	P2
		APP. BY:	BMG					



- NOTES:**
1. ALL DIMENSIONS ARE IN METRES AND COORDINATES TO ITM GRID UNLESS NOTED OTHERWISE
 2. ALL LEVELS ARE TO (OSI) ORDINANCE MALIN HEAD VERTICAL DATUM IN METRES.
 3. TAILTE EIREANN MAPPING
 - 3.1. MAP SERIES: 1:5000 RASTER
 - 3.2. MAP SHEETS: 5379
 4. THE ROUTE OF THE PROPOSED CABLE ROUTE MAY VARY SUBJECT TO SITE CONDITIONS AND ENCOUNTERING EXISTING SERVICES.
- LEGEND:**
- PLANNING APPLICATION BOUNDARY
 - GRID CONNECTION OPTION TWO (110kV CABLE)
 - GRID CONNECTION OPTION TWO - SECTION OF GRID TO BE DIRECTIONAL DRILLED
 - GRID CHAINAGE
 - LOCATION OF DIRECTIONAL DRILLING COMPOUND
 - LOCATION OF CROSSING - CROSSING TYPE SPECIFIED ON DRAWING
 - LOCATION OF JOINT BAY (No.); SEE DRAWING 1421 COMMS CHAMBER (No.); SEE DRAWING 1423 AND EARTH LINK BOX (No.), SEE DRAWING 1424
 - (No.) = Number
 - ACCESS TRACK
 - EXISTING GREAT ISLAND - KILKENNY 110kV OVERHEAD LINE
 - EXISTING WATERCOURSE
 - EPA REGISTERED STREAM/ SIGNIFICANT WATERCOURSE
 - EXISTING WATERCOURSE 50m BUFFER ZONE - NO SPOIL TO BE STORED WITHIN BUFFER ZONE AREA
 - SPECIAL AREA OF CONSERVATION (SAC) - NO SPOIL TO BE STORED WITHIN 50m OF SAC
 - SITE AND MONUMENTS RECORD ZONE



PLAN VIEW 1
SCALE 1:500

REV.	DWG BY:	APP/CHK:	DATE:	DESCRIPTION

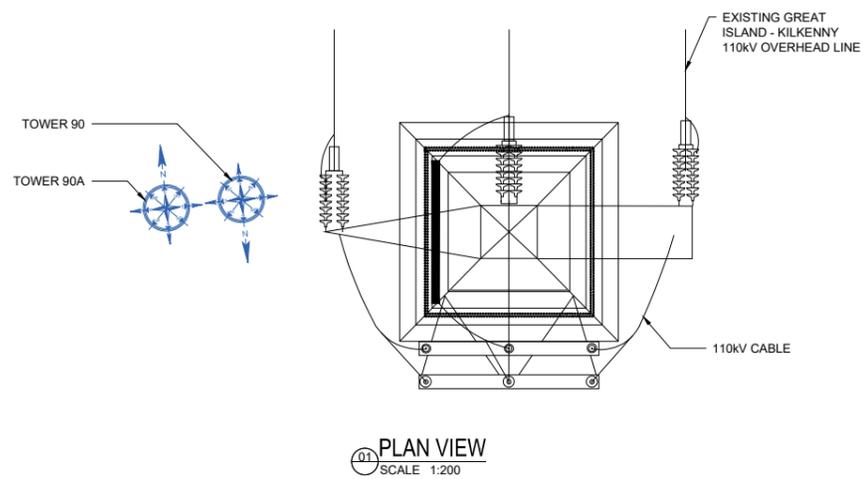
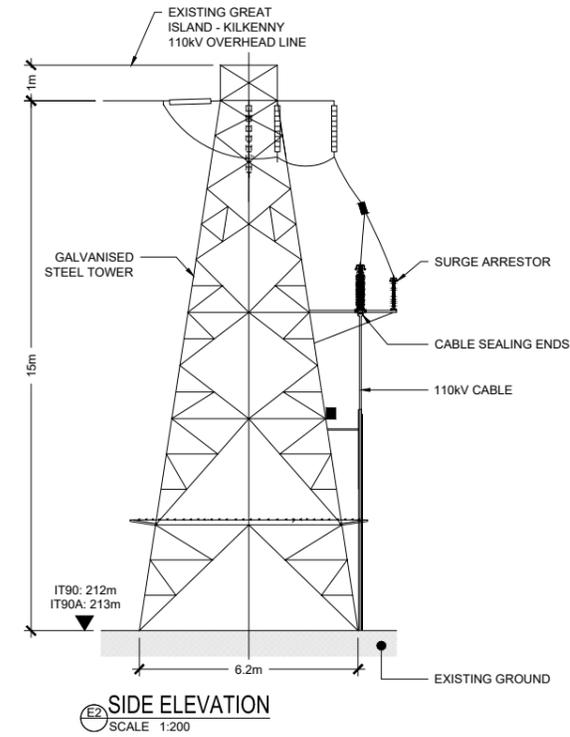
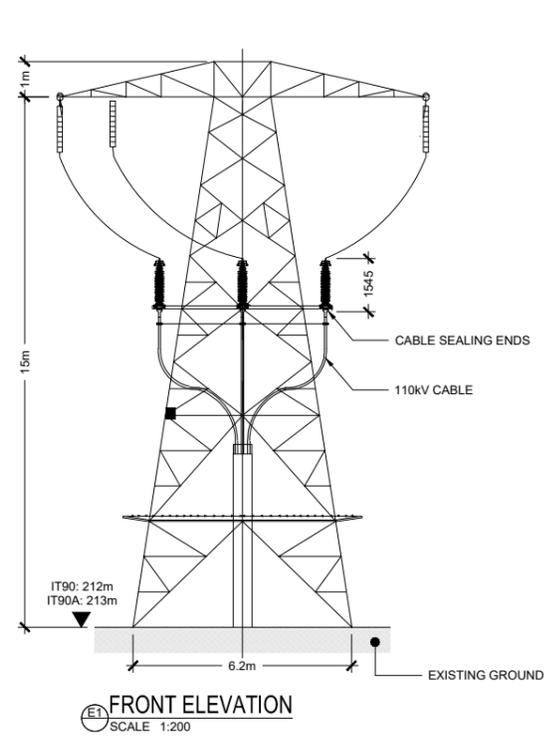
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Tel: +353(0)1 216 2956
Email: info@mable.ie
Website: www.mable.ie

CLIENT: MANOGATE LTD.	DRAWN: VC	SCALE: 1:2500 @ A1
JOB TITLE: BALLYFASY WF 110kV GRID CONNECTION, CO. KILKENNY	DATE: 21/11/2025	JOB NO.: 25516
DRG. TITLE: GRID CONNECTION OPTION TWO - SITE LAYOUT MAP 2 OF 2	DES. BY: ER	DRG. NO.: 1302
	CHK. BY: ER	REV.: P2
	APP. BY: BMG	

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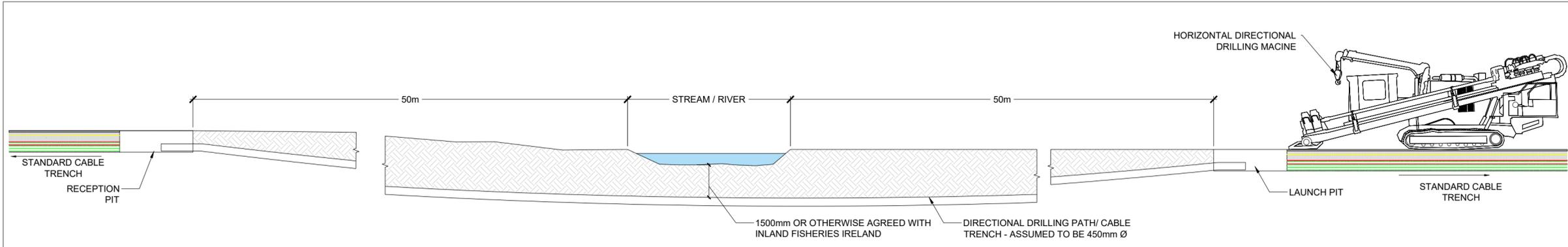
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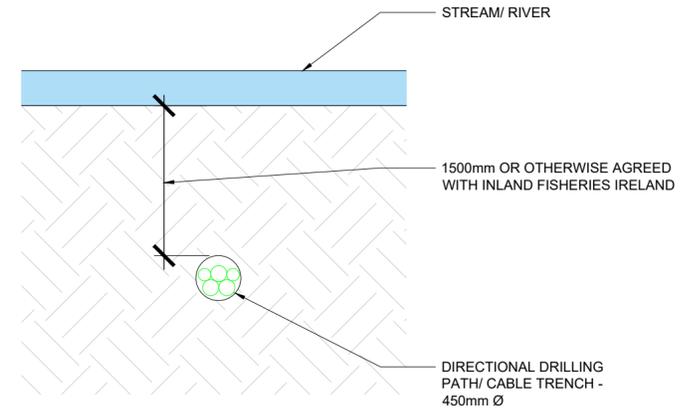
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JOB TITLE:	BALLYFASY WF 110kV GRID CONNECTION, CO. KILKENNY
DRG. TITLE:	INTERFACE MAST DETAILS

DRAWN:	VC	SCALE:	AS SHOWN @ A3
DATE:	21/11/25	JOB NO.	25516
DES. BY:	VC	DRG. NO.	1354
CHK. BY:	ER		P2
APP. BY:	BMG		

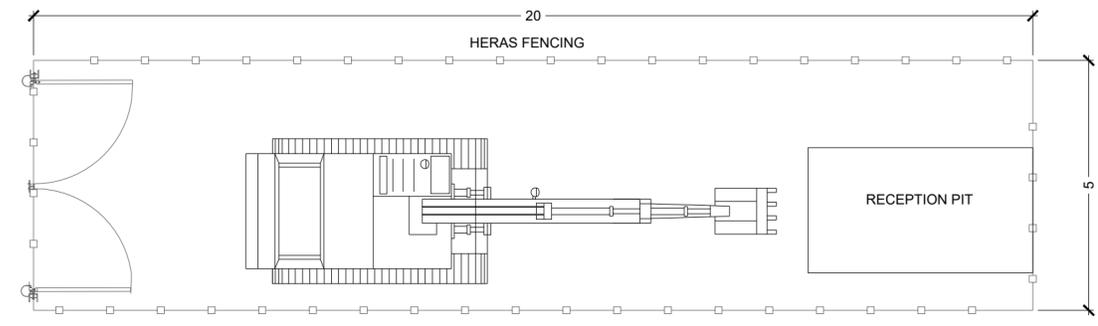


P1 SECTION OF DIRECTIONAL DRILLING UNDER WATERCOURSE
SCALE 1:200

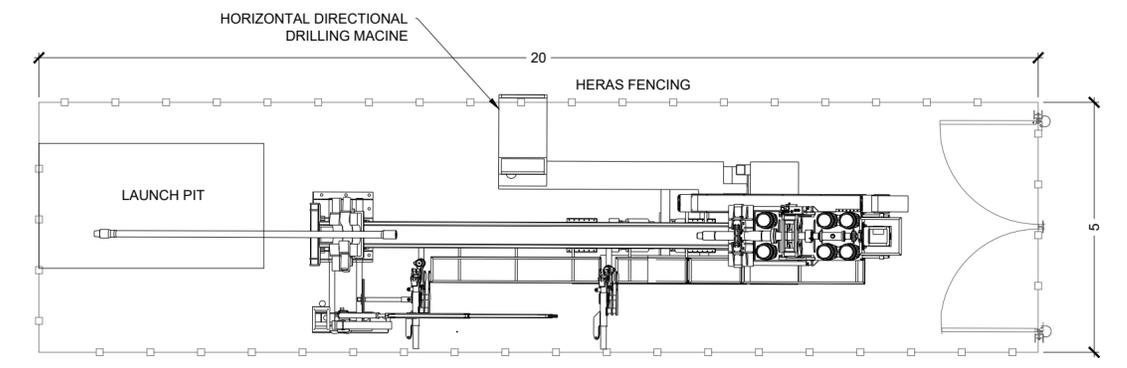
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D2 DIRECTIONAL DRILLING ROAD CROSSING DETAIL - CROSS SECTION
SCALE 1:50



D3 DIRECTIONAL DRILLING RECEPTION COMPOUND
SCALE 1:100



D4 DIRECTIONAL DRILLING LAUNCH COMPOUND
SCALE 1:100

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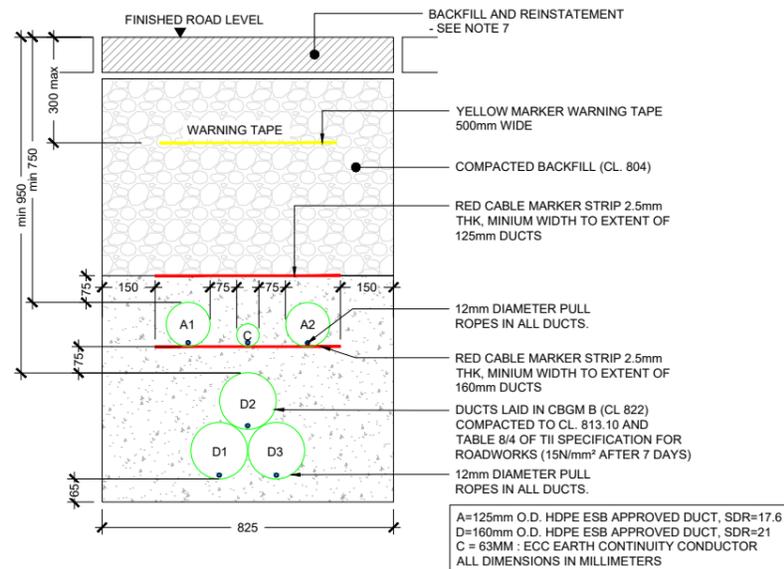
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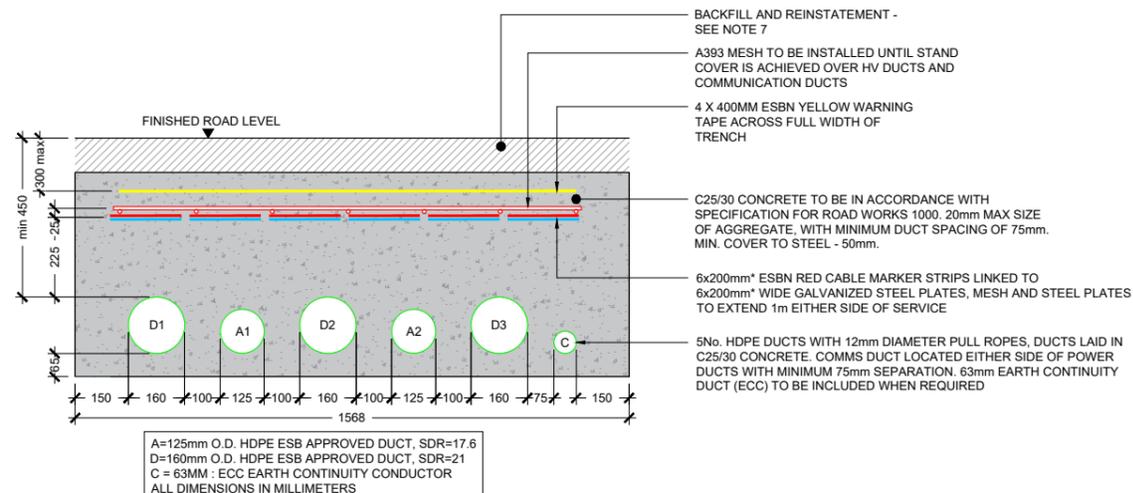
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Email: info@mable.ie
Website: www.mable.ie

CLIENT:	MANOGATE LTD.	DRAWN:	MM	SCALE: AS SHOWN @ A2		
JOB TITLE:	BALLYFASY WF 110kV GRID CONNECTION, CO. KILKENNY	DATE:	26/06/25	JOB NO.	DRG. NO.	REV.
DRG. TITLE:	HORIZONTAL DIRECTIONAL DRILLING UNDER WATERCOURSE	DES. BY:	MM	25516	1360	P1
		CHK. BY:	ER			
		APP. BY:	BMG			

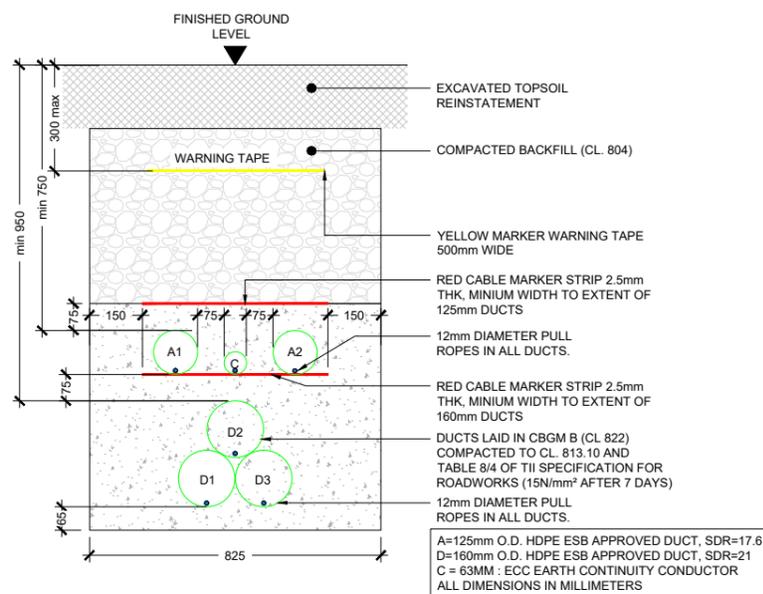
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DRG. TITLE:	HORIZONTAL DIRECTIONAL DRILLING UNDER WATERCOURSE	DES. BY:	MM	25516	1360	P1
		CHK. BY:	ER			
		APP. BY:	BMG			



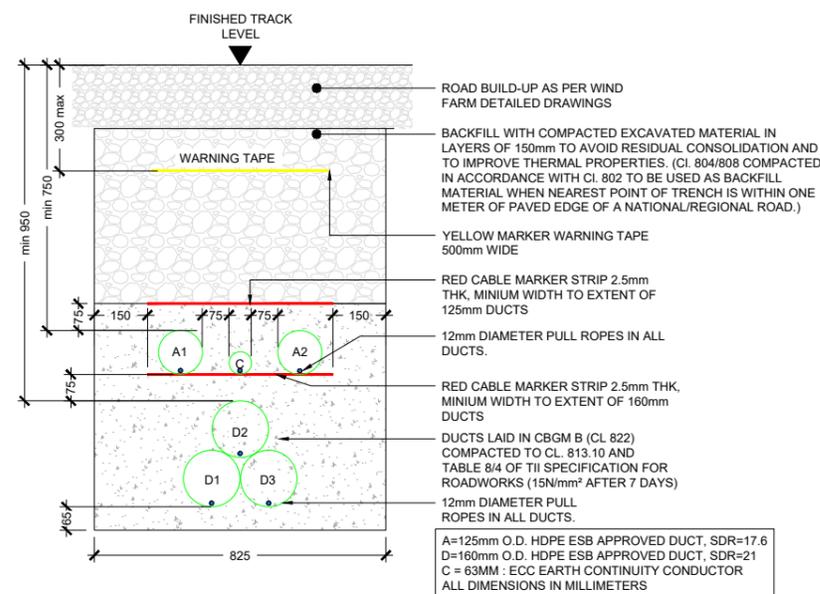
D1 SECTION THROUGH 110KV CABLE - IN TREFOIL FORMATION IN ROADWAY
SCALE 1:20



D2 SECTION THROUGH DUCTING IN FLAT FORMATION
SCALE 1:20



D3 SECTION THROUGH 110KV CABLE - IN TREFOIL FORMATION IN SOFT LANDSCAPED AREA
SCALE 1:20



D4 SECTION THROUGH 110KV CABLE - IN TREFOIL FORMATION IN WIND FARM ACCESS TRACK
SCALE 1:20

- NOTES:
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 6. HAND DIG ONLY WITHIN 500mm OF EXISTING SERVICES.
 7. BACKFILL AS PER GUIDELINES FOR THE OPENING, BACKFILLING AND REINSTATEMENT OF OPENINGS IN PUBLIC ROADS (2015).

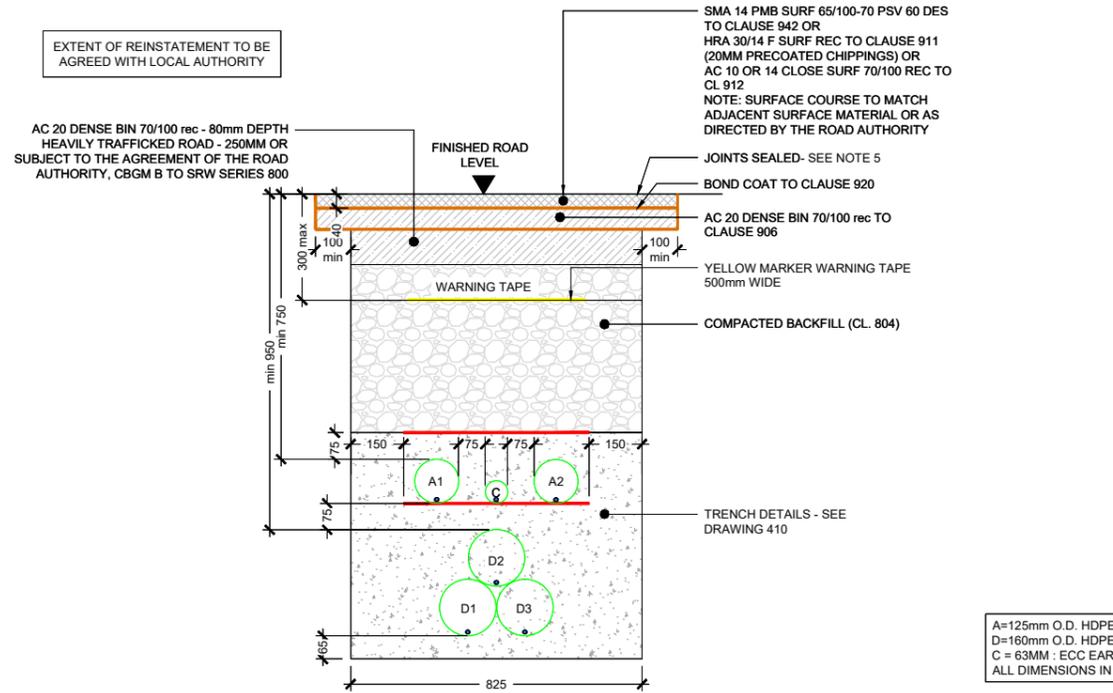
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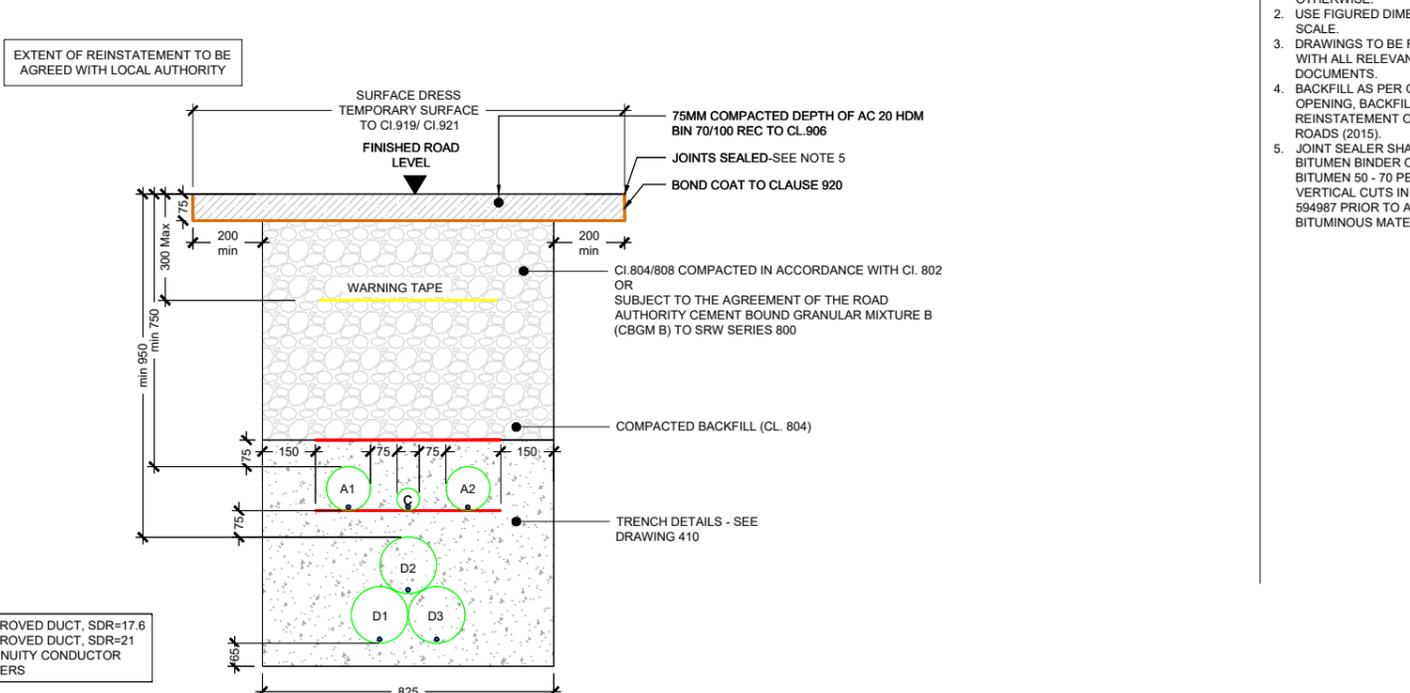
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		JOB TITLE:	BALLYFASY WF 110KV GRID CONNECTION, CO. KILKENNY	DES. BY:	VC	CHK. BY:	ER	APP. BY:	BMG
		DRG. TITLE:	110KV CABLE TRENCH DETAILS	REV.					

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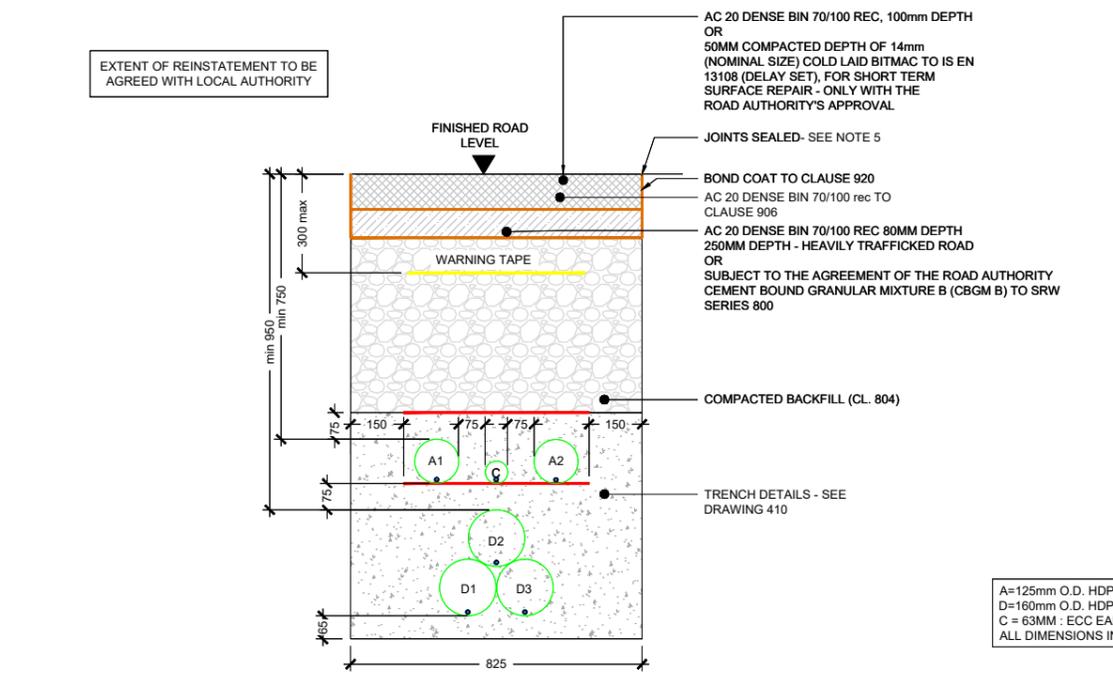
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JOB TITLE:	BALLYFASY WF 110KV GRID CONNECTION, CO. KILKENNY	DES. BY:	VC	CHK. BY:	ER	APP. BY:	BMG
DRG. TITLE:	110KV CABLE TRENCH DETAILS	REV.					



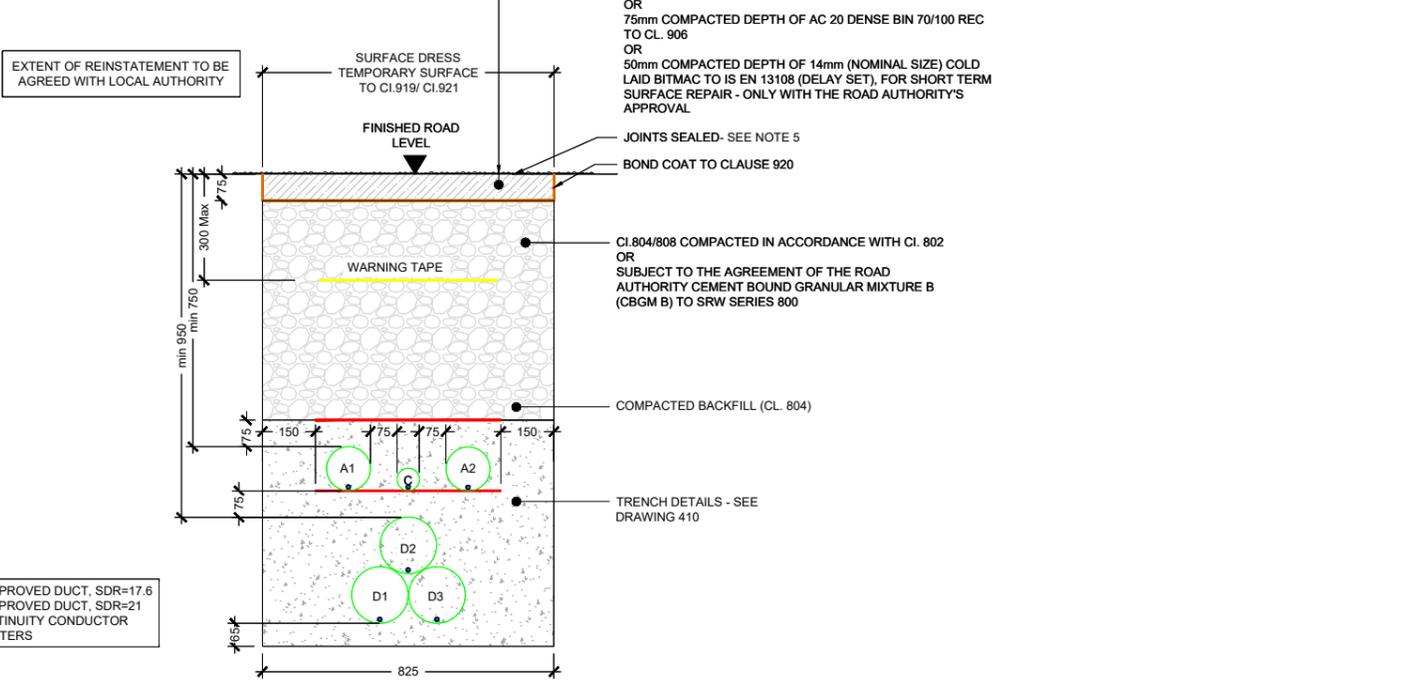
D1 SECTION THROUGH PERMANENT REINSTATEMENT OF LONGITUDINAL OPENING IN ROADWAY
SCALE 1:20



D2 SECTION THROUGH PERMANENT REINSTATEMENT OF LONGITUDINAL OPENING IN SURFACE DRESSED RURAL UNBOUND ROADWAY
SCALE 1:20



D3 SECTION THROUGH TEMPORARY REINSTATEMENT OF LONGITUDINAL OPENING IN ROADWAY
SCALE 1:20



D4 SECTION THROUGH TEMPORARY REINSTATEMENT OF LONGITUDINAL OPENING IN SURFACE DRESSED RURAL UNBOUND ROADWAY
SCALE 1:20

- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS IN METRES UNLESS NOTED OTHERWISE.
 2. USE FIGURED DIMENSIONS ONLY. DO NOT SCALE.
 3. DRAWINGS TO BE READ IN CONJUNCTION WITH ALL RELEVANT PLANNING APPLICATION DOCUMENTS.
 4. BACKFILL AS PER GUIDELINES FOR THE OPENING, BACKFILLING AND REINSTATEMENT OF OPENINGS IN PUBLIC ROADS (2015).
 5. 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.

A=125mm O.D. HDPE ESB APPROVED DUCT, SDR=17.6
D=160mm O.D. HDPE ESB APPROVED DUCT, SDR=21
C = 63MM : ECC EARTH CONTINUITY CONDUCTOR
ALL DIMENSIONS IN MILLIMETERS

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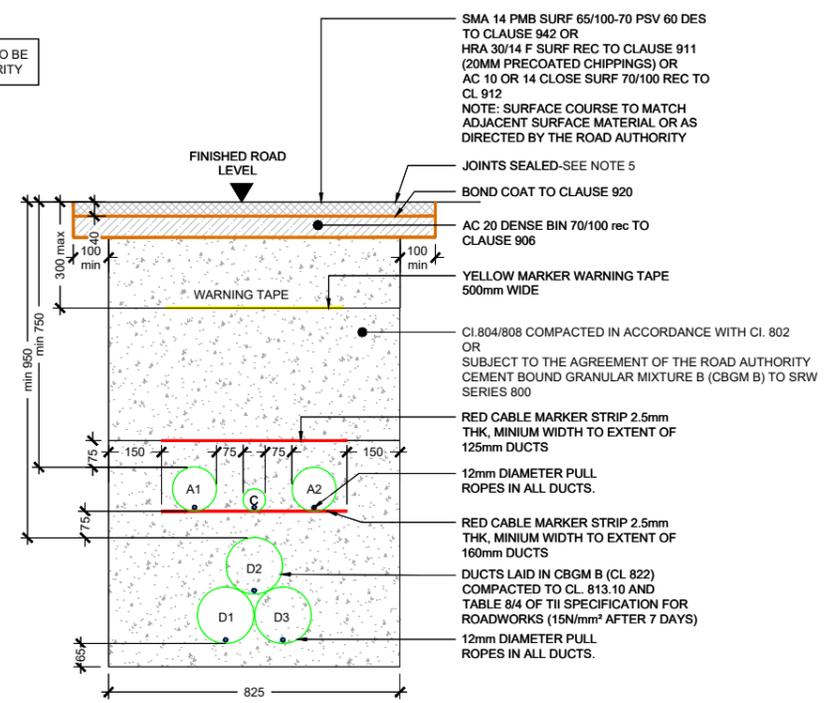
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CLIENT:	MANOGATE LTD.	DRAWN:	ER	SCALE:	1:20 @ A3
JOB TITLE:	BALLYFASY WF 110KV GRID CONNECTION, CO. KILKENNY	DATE:	21/11/25	JOB NO.:	25516
DRG. TITLE:	110KV CABLE TRENCH DETAILS THROUGH PUBLIC ROAD 1 OF 2	DES. BY:	ER	DRG. NO.:	1412
		CHK. BY:	ER		P1
		APP. BY:	BMG		

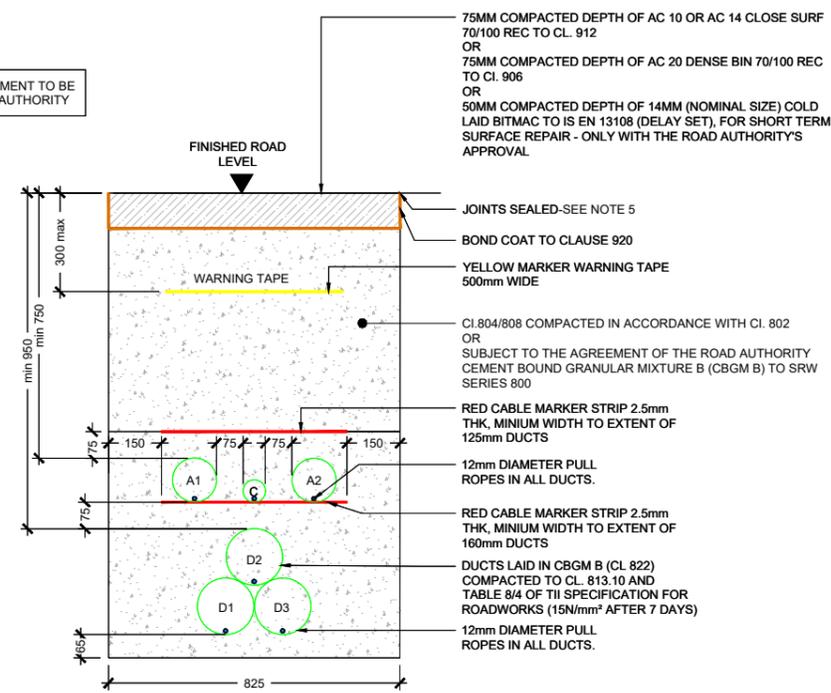
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 4. BACKFILL AS PER GUIDELINES FOR THE OPENING, BACKFILLING AND REINSTATEMENT OF OPENINGS IN PUBLIC ROADS (2015).
 5. JOINT SEALER SHALL BE A HOT 40/60 PEN BITUMEN BINDER OR COLD THIXOTROPIC BITUMEN 50 - 70 PEN TO BE APPLIED TO ALL VERTICAL CUTS IN ACCORDANCE WITH B.S. 594987 PRIOR TO APPLICATION OF BITUMINOUS MATERIALS.

EXTENT OF REINSTATEMENT TO BE AGREED WITH LOCAL AUTHORITY



D1 SECTION THROUGH PERMANENT REINSTATEMENT OF TRANSVERSE OPENING IN ROADWAY
SCALE 1:20

EXTENT OF REINSTATEMENT TO BE AGREED WITH LOCAL AUTHORITY



D3 SECTION THROUGH TEMPORARY REINSTATEMENT OF TRANSVERSE OPENING IN ROADWAY
SCALE 1:20

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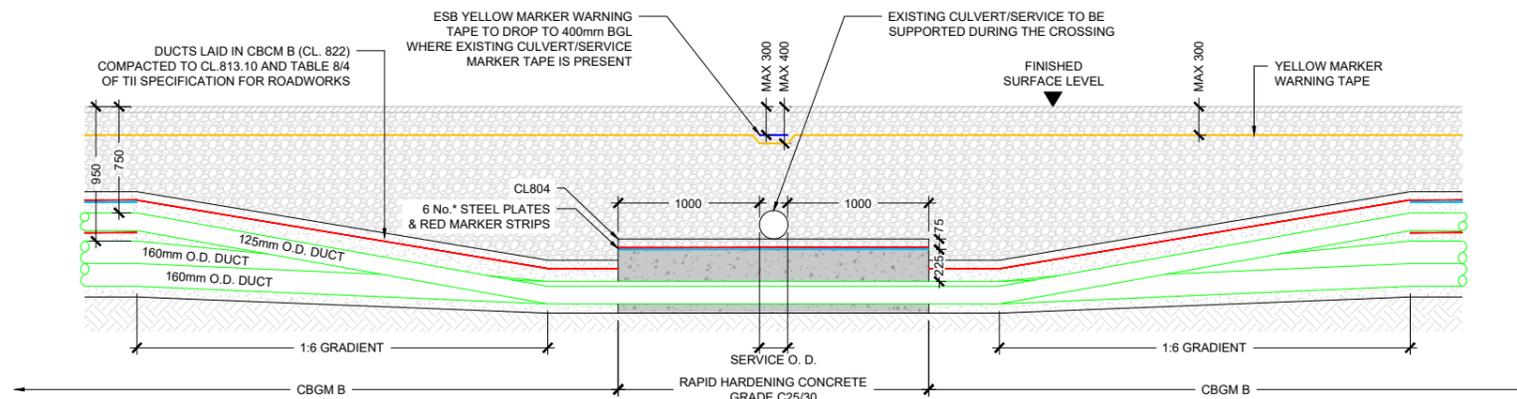
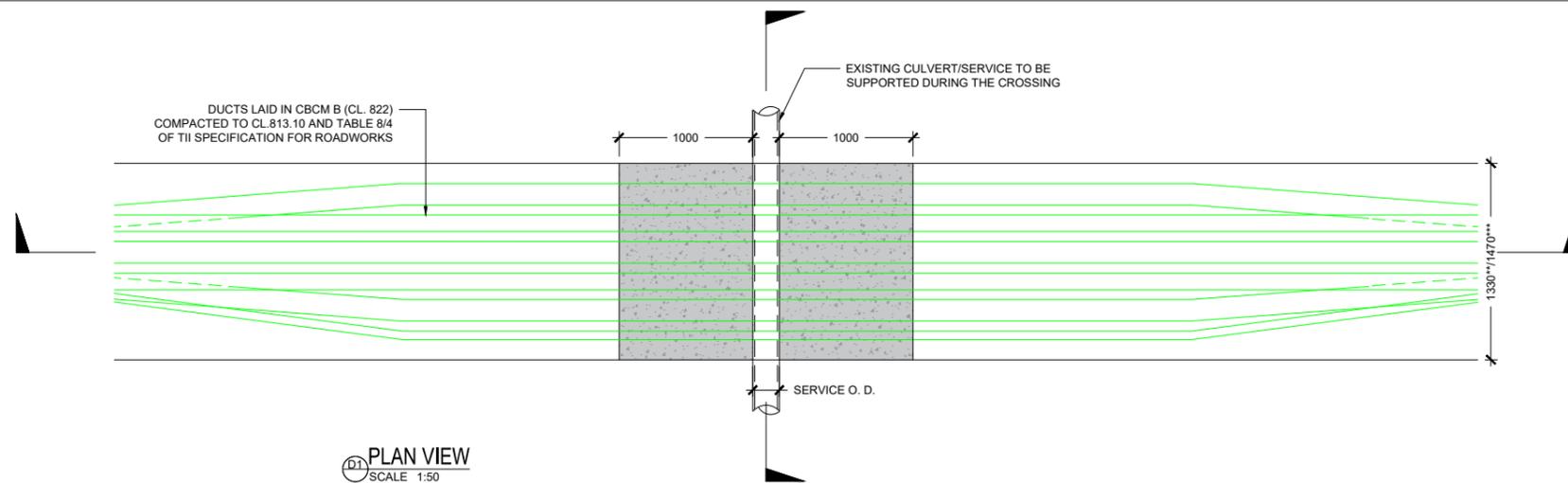
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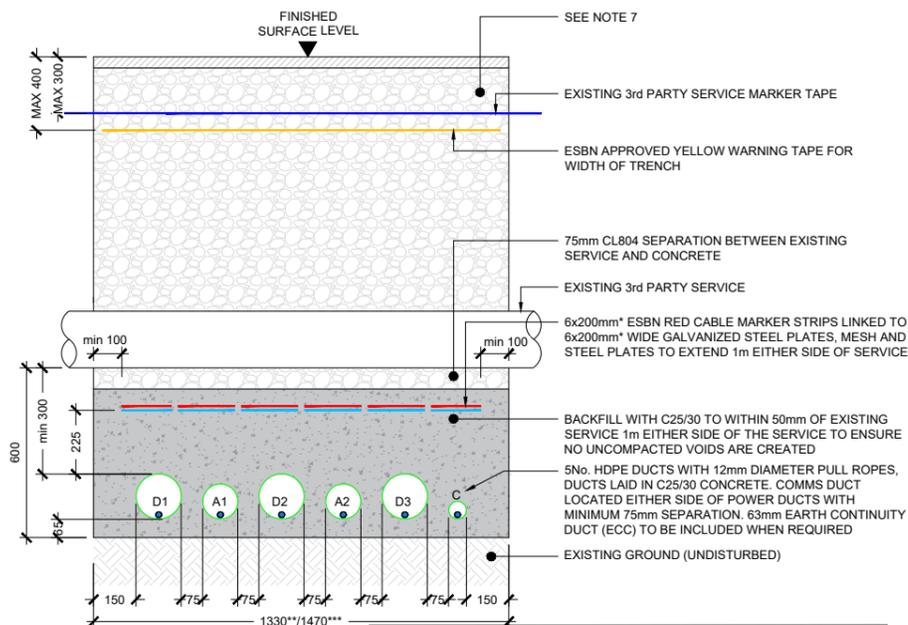
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JOB TITLE:	BALLYFASY WF 110KV GRID CONNECTION, CO. KILKENNY	DATE:	21/11/25	JOB NO.	25516
DRG. TITLE:	110KV CABLE TRENCH DETAILS THROUGH PUBLIC ROAD 2 OF 2	DES. BY:	ER	DRG. NO.	1413
		CHK. BY:	ER	REV.	P1
		APP. BY:	BMG		



110 kV SERVICE/CULVERT UNDERCROSSING
SCALE 1:50



A=125mm O.D. HDPE DUCT FOR COMMUNICATIONS
D=160mm O.D. HDPE DUCT FOR HV CABLE
C=63mm O.D. HDPE DUCT FOR EARTH CONTINUITY CONDUCTOR

* 5x200mm STEEL PLATES AND RE MARKERS AND WHERE ECC IS NOT REQUIRED
** MIN 1330mm WHERE ECC NOT REQUIRED
*** WHERE AN EARTH CONTINUITY CONDUCTOR (ECC) IS REQUIRED, A MIN 63mm DUCT TO BE INSTALLED OUTSIDE OF PHASE DUCT.

SECTION B-B
SCALE 1:25

- NOTES:**
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 2. USE FIGURED DIMENSIONS ONLY. DO NOT SCALE.
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 4. DESIGN IS SUBJECT TO EIRGRID DESIGN APPROVAL.
 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. BACKFILL AS PER GUIDELINES FOR THE OPENING, BACKFILLING AND REINSTATEMENT OF OPENINGS IN PUBLIC ROADS (2015).

- LEGEND:**
- RED MARKER STRIPS
 - YELLOW MARKER WARNING TAPE
 - EXISTING SERVICE MARKER STRIP
 - 6mm GALVANISED STEEL PLATE
 - RAPID HARDENING WET CONCRETE C25/30
 - CBGM B (CL. 822), COMPACTED TO CL. 813.10
 - BACKFILL, COMPACTED (CL. 804)
 - EXISTING GROUND

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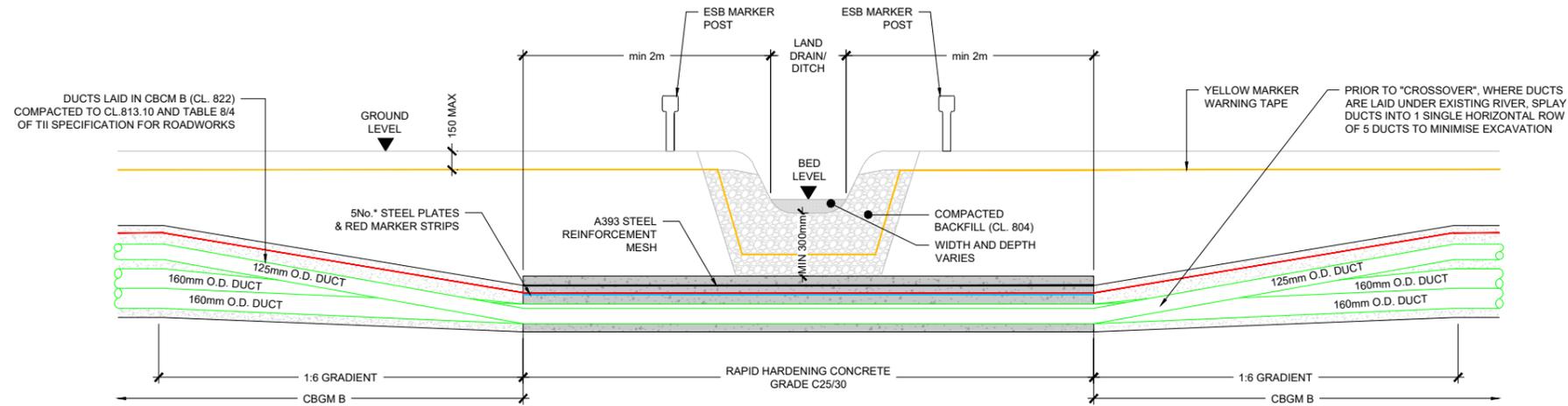
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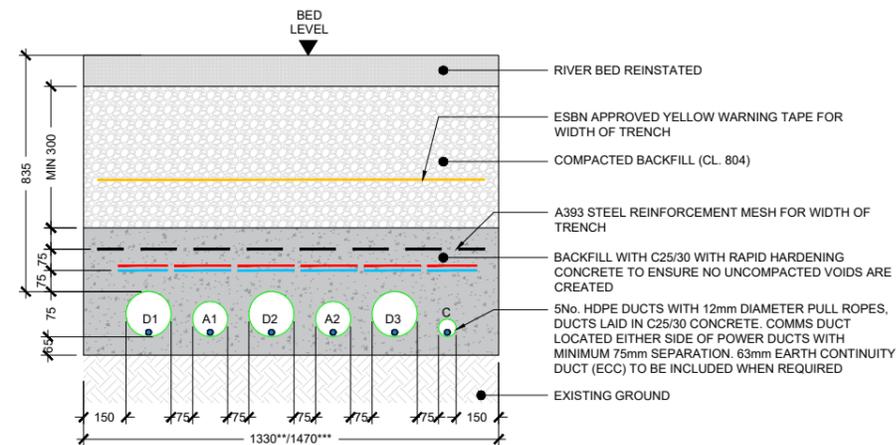
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Email: info@mable.ie
Website: www.mable.ie

CLIENT:	MANOGATE LTD.	DRAWN:	ER	SCALE:	AS SHOWN @ A3
JOB TITLE:	BALLYFASY WF 110kV GRID CONNECTION, CO. KILKENNY	DATE:	21/11/25	JOB NO.:	25516
DRG. TITLE:	STANDARD EXISTING SERVICE UNDER-CROSSING; DUCTS IN FULL FLAT FORMATION	DES. BY:	ER	DRG. NO.:	1414
APP. BY:	BMG	CHK. BY:	ER	REV.:	P1



ELEVATION
SCALE 1:50



A=125mm O.D. HDPE DUCT FOR COMMUNICATIONS
D=160mm O.D. HDPE DUCT FOR HV CABLE
C=63mm O.D. HDPE DUCT FOR EARTH CONTINUITY CONDUCTOR

* 5x200mm STEEL PLATES AND RE MARKERS AND WHERE ECC IS NOT REQUIRED
** MIN 1330mm WHERE ECC NOT REQUIRED
*** WHERE AN EARTH CONTINUITY CONDUCTOR (ECC) IS REQUIRED, A MIN 63mm DUCT TO BE INSTALLED OUTSIDE OF PHASE DUCT.

SECTION A-A
SCALE 1:25

NOTES:

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6. HAND DIG ONLY WITHIN 500mm OF EXISTING SERVICES.
7. BACKFILL AS PER GUIDELINES FOR THE OPENING, BACKFILLING AND REINSTATEMENT OF OPENINGS IN PUBLIC ROADS (2015).

LEGEND:

- RED MARKER STRIPS
- YELLOW MARKER WARNING TAPE
- EXISTING SERVICE MARKER STRIP
- 6mm GALVANISED STEEL PLATE
- RAPID HARDENING WET CONCRETE C25/30
- CBGM B (CL. 822), COMPACTED TO CL. 813.10
- BACKFILL, COMPACTED (CL. 804)
- EXISTING GROUND

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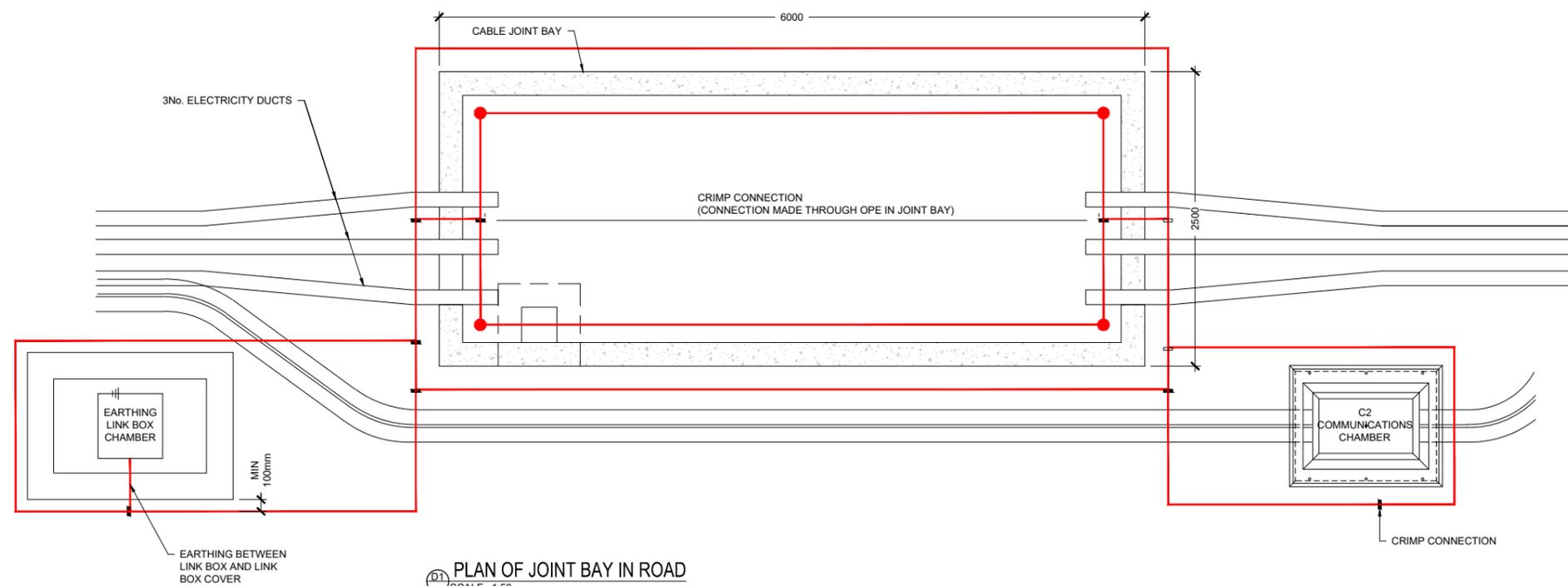
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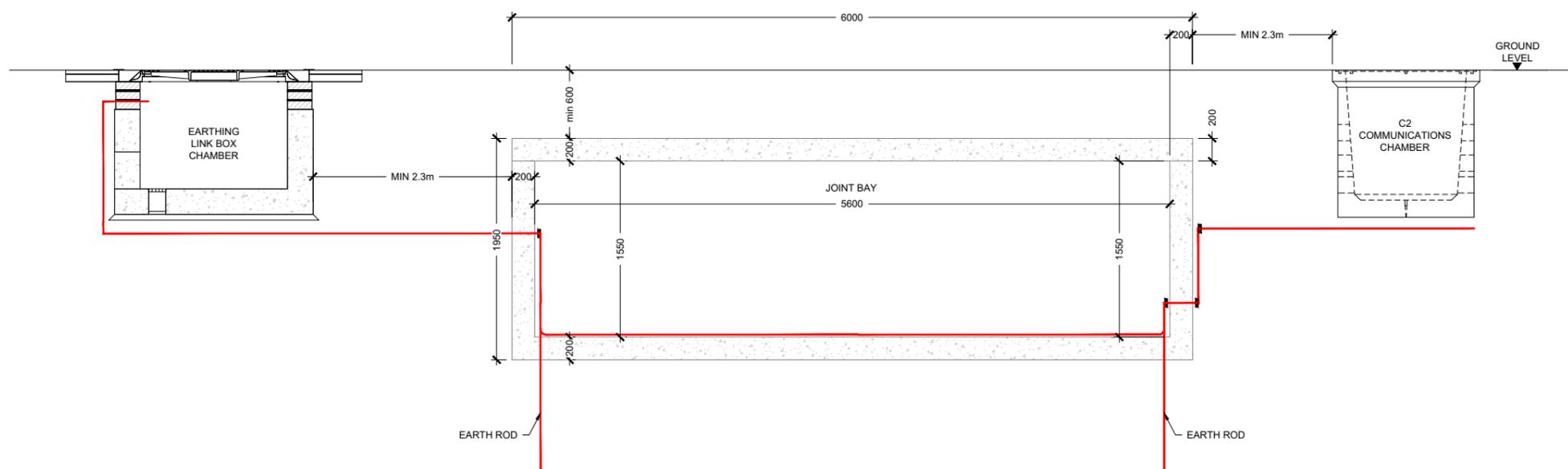
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JOB TITLE:	BALLYFASY WF 110kV GRID CONNECTION, CO. KILKENNY	DATE:	21/11/25	JOB NO.:	25516
DRG. TITLE:	110kV CABLE TRENCH OPEN DRAIN CROSSING	DES. BY:	ER	DRG. NO.:	1416
		CHK. BY:	ER		P1
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- LEGEND:**
- 95mm² Cu BARE CONDUCTOR
 - EARTH ROD
 - | C CRIMP



PLAN OF JOINT BAY IN ROAD
SCALE 1:50



SECTION A-A
SCALE 1:50

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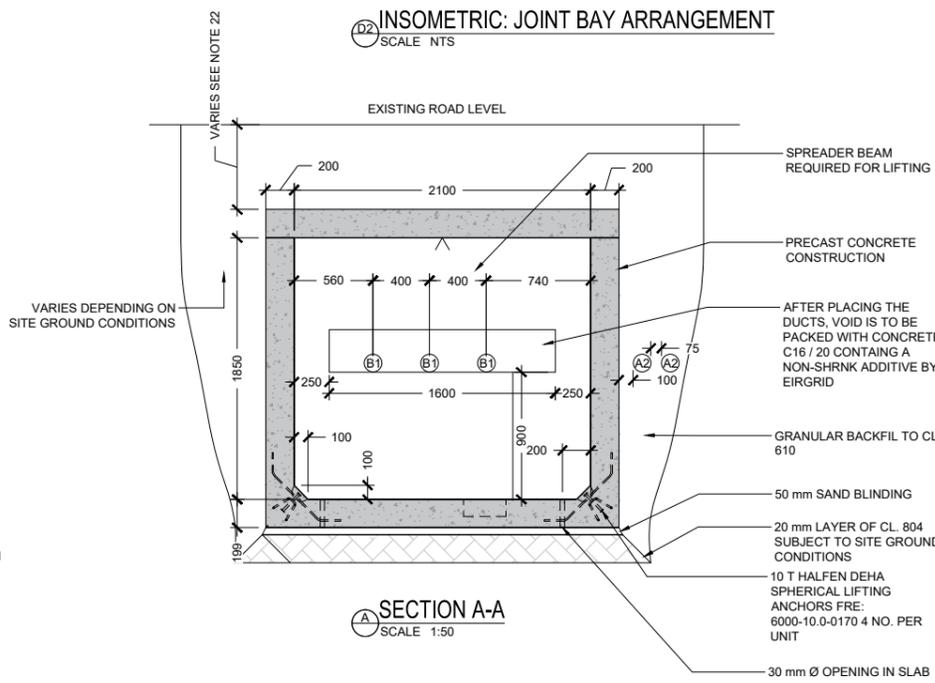
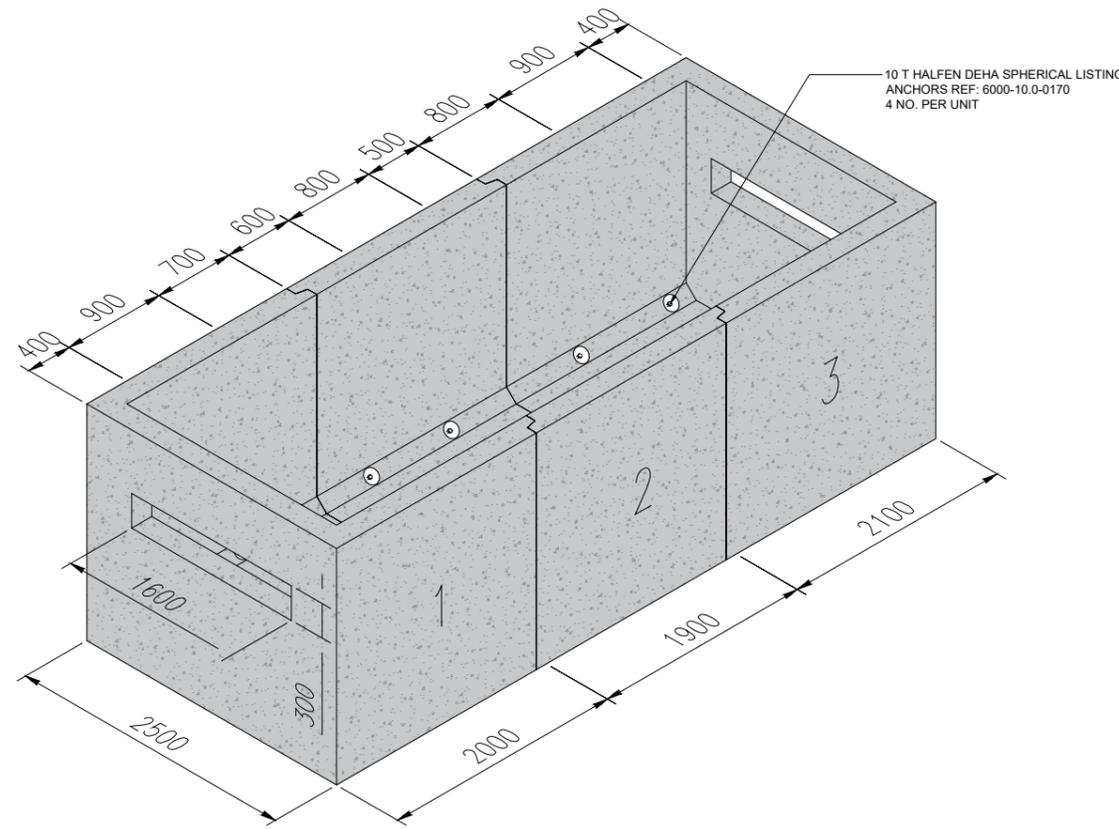
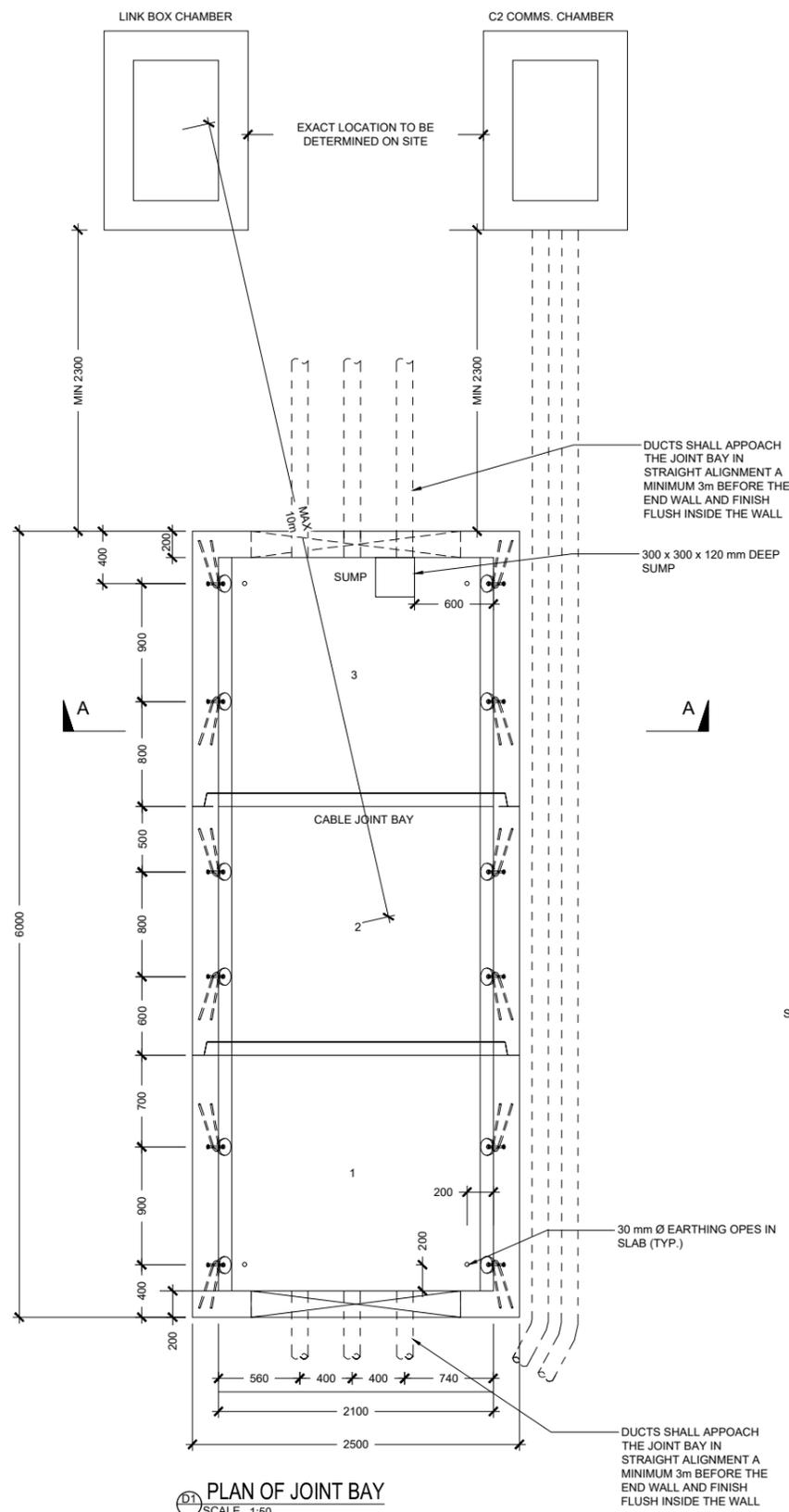
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JOB TITLE: BALLYFASY WF 110kV GRID CONNECTION, CO. KILKENNY

DRG. TITLE: JOINT BAY EARTHING ARRANGEMENT

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 - HAND DIG ONLY WITHIN 500mm OF EXISTING SERVICES.
 - BACKFILL AS PER GUIDELINES FOR THE OPENING, BACKFILLING AND REINSTATEMENT OF OPENINGS IN PUBLIC ROADS (2015).
 - ALL PRECAST CONCRETE ELEMENTS TO BE MANUFACTURED TO B.S. EN 13369:2004 "COMMON RULES FOR PRECAST CONCRETE PRODUCTS".
 - LIFTING INSERTS TO BE DESIGNED & INSTALLED TO PD CEN/TR 15728:2008 "DESIGN AND USE OF INSERTS FOR LIFTING AND HANDLING OF PRECAST CONCRETE ELEMENTS".
 - SPECIFIED LIFTING INSERTS HAVE A S.W.L. OF 10 TONNE.
 - LOCATION AND SPECIFICATION OF LIFTING INSERTS ARE ASSUMED TO FACILITATE DEMOULDING AND HANDLING IN PRECAST MANUFACTURING FACTORY. IT IS THE RESPONSIBILITY OF THE CUSTOMER TO NOTIFY EIRGRID IF THESE ARE UNSUITABLE FOR THEIR MANUFACTURING METHODOLOGY. EIRGRID IS TO BE INFORMED OF ANY ALTERNATIVE LIFTING LOCATIONS FOR FACTORY HANDLING & DEMOULDING.
 - CONCRETE TO HAVE A MINIMUM STRENGTH OF 30 N/mm² PRIOR TO HANDLING OF DEMOULDING.
 - CUSTOMER IS TO ENSURE THAT A METHOD STATEMENT AND RISK ASSESSMENT, INCLUDING A LIFTING PLAN, IS PRODUCED FOR INSTALLATION AND ARE AVAILABLE TO EIRGRID FOR REVIEW IF REQUESTED. LIFTING PLAN TO INCORPORATE REQUIREMENTS OF LIFTING INSERTS AND LIFTING LOOP EYES.
 - A MINIMUM LIFTING SLING ANGLE OF 50° TO THE HORIZONTAL IS REQUIRED.
 - A LIFTING SYSTEM WHICH ENSURES ALL LIFTING POINTS TAKE ON AN EQUAL LOAD IS REQUIRED.
 - HALFEN DEHA SPHERICAL LIFTING ANCHORS TO BE USED AS SPECIFIED. ANY DEVIATION FROM THIS MUST BE NOTIFIED TO EIRGRID BY THE CUSTOMER. LIFTING INSERTS TO BE INSTALLED AS PER MANUFACTURER'S GUIDELINES AND IN ACCORDANCE WITH PD CEN/TR 15728:2008.
 - FORMWORK FOR PRECASTING TO BE OF A MINIMUM STANDARD OF VARNISHED WOODEN MOULD WITH PLANED BOARDS.
 - COVER TO REINFORCEMENT TO BE 40mm.
 - CONCRETE TO BE GRADE C30/37 AS SPECIFIED IN TABLE 1.
 - ALL CONCRETE TO BE IN ACCORDANCE WITH I.S. EN 206-1:2013 WITH THE MIX DESIGNS SHOWN IN TABLE 1.
 - FOR 7.9m JOINT BAY INSERT 1 No. ADDITIONAL PRECAST SECTION 2. FOR 9.8m JOINT BAY INSERT 2 No. ADDITIONAL PRECAST SECTION 2.
 - THE DEPTH FROM GROUND/ROAD LEVEL TO THE TOP OF THE CONCRETE WALL SHALL BE:
 - 500mm - IN CULTIVATED FIELDS AND GRASSED LANDS
 - 600mm - IN PAVED ROADS AND GRASS VERGES
 - 600mm - IN PAVED CITY ROADS AND GRASSED VERGES.
 - LINK BOX CHAMBER TO BE POSITIONED AT THE EDGE OF OR OFF ROAD.
 - ALLOWABLE BEARING PRESSURE TO BE AT LEAST 185kPa.
 - FOR HIGHLY AGGRESSIVE ENVIRONMENTS, TABLE 1 IS NOT APPLICABLE. CONSULT WITH EIRGRID FOR BESPOKE DESIGN.
 - JOINT BAY TO BE UNIFORMLY BACKFILLED IN LAYERS NOT EXCEEDING 300mm THICK.
 - WHERE JOINT BAY IS TO BE INSTALLED ADJACENT TO TRAFFICKED LANE, A 1m WIDE LATERAL SAFETY ZONE IS TO BE PROVIDED TO SATISFY DESIGN LOADING ASSUMPTIONS.
 - CUSTOMER IS RESPONSIBLE FOR ALL TRAFFIC MANAGEMENT INCLUDING WHERE NECESSARY SAFETY BARRIERS, AS PER D.R.A.
 - LINK BOX CHAMBER AND C2 COMM CHAMBER FINAL POSITIONING TO BE AGREED WITH EIRGRID PRIOR TO INSTALLATION.

TABLE 1

CONCRETE SPECIFICATION TO I.S. EN 206-1		
	BUILDING & MASS CONCRETE, DRAINAGE PIPE & MANHOLE SURROUNDINGS	FOUNDATIONS & WALLS
EXPOSURE CLASS	X0	XC2, XA2
MIN. CEMENT CONTENT (kg/m ³)	240	340
MAX. WATER/CEMENT RATIO	-	0.50
CEMENT TYPE TO I.S. EN 197-1	CEM 1 N	CEM 1 N
CHLORIDE CONTENT CLASS	Cl, 1,0	Cl, 0,40
MAX. AGGREGATE	10	20
MIN. COVER (C _{min}) (mm)	-	40
COMPRESSIVE STRENGTH CLASS	C16/20	C30/37

NOTES:

- *C16/20 TO BE READ AS FOLLOWS: 16 - REFERS TO MIN. CHARACTERISTIC CYLINDER STRENGTH (N/mm²), 20 - REFERS TO MIN. CHARACTERISTIC CUBE STRENGTH (N/mm²).
- DESIGN WORKING LIFE TO BE 50 YEARS MINIMUM.

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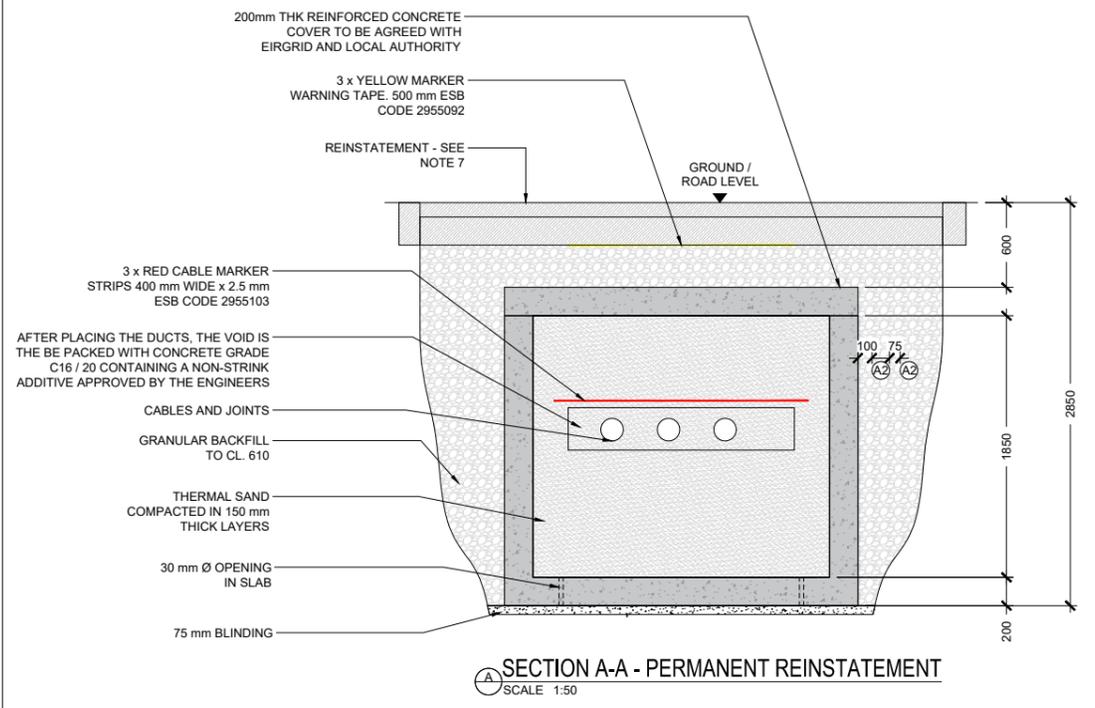
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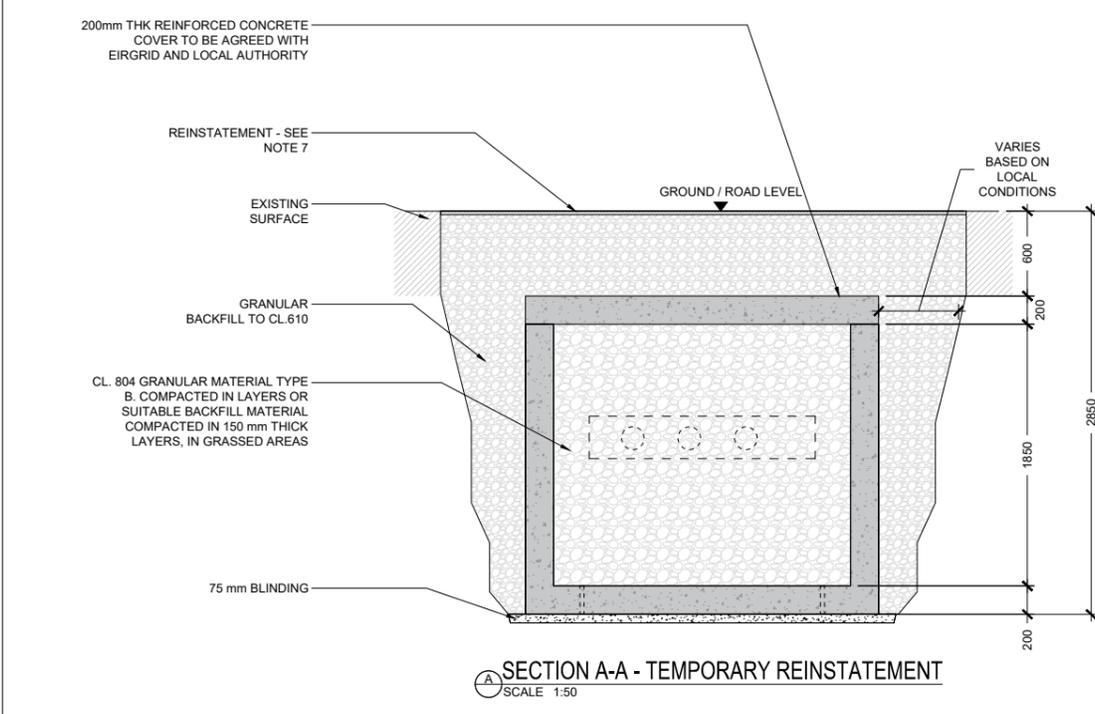
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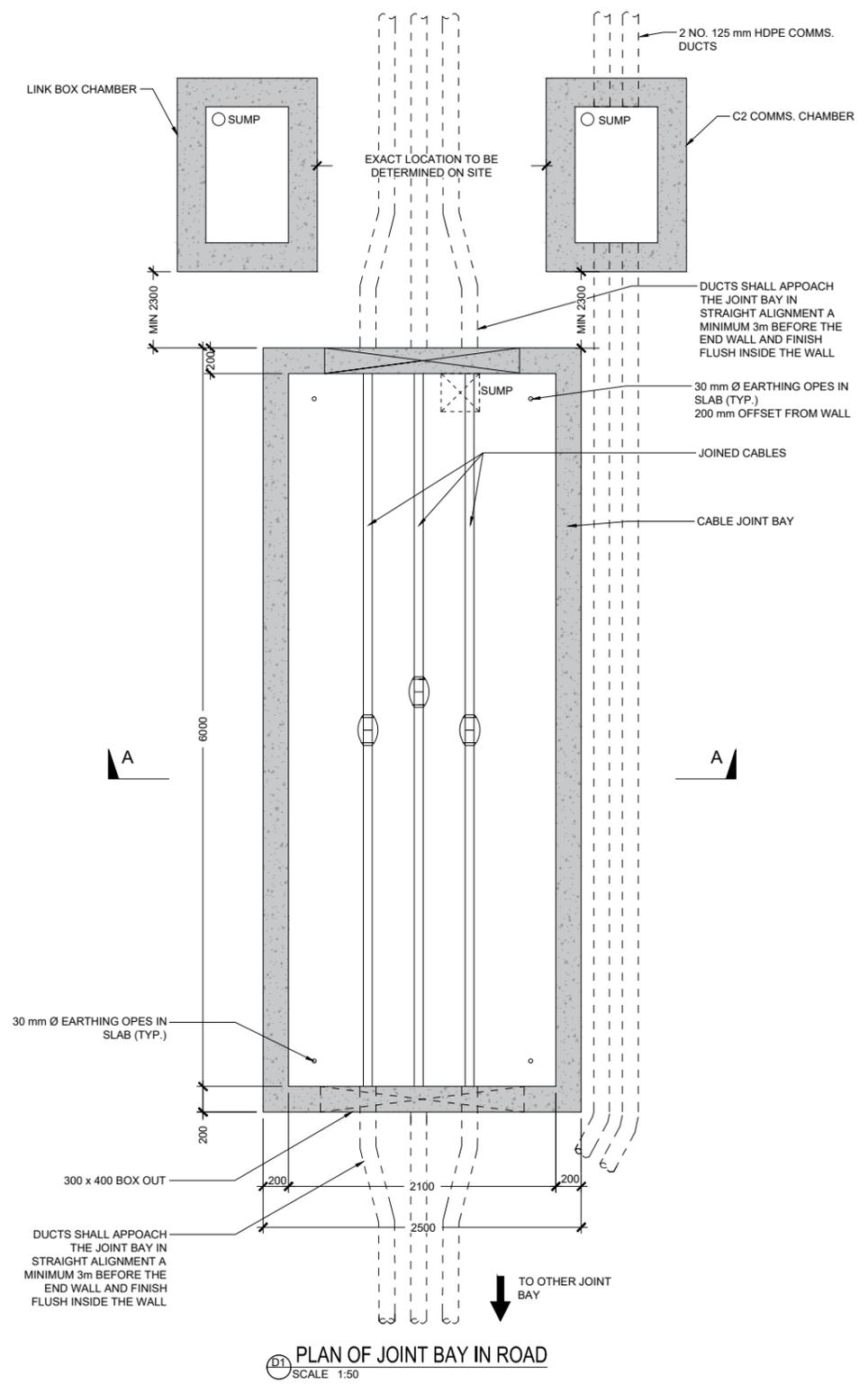
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DRG. TITLE:	JOINT BAY ARRANGEMENT	DES. BY:	VC	DRG. NO.:	1421
		CHK. BY:	ER	REV.:	P1
		APP. BY:	BMG		



SECTION A-A - PERMANENT REINSTATEMENT
SCALE 1:50



SECTION A-A - TEMPORARY REINSTATEMENT
SCALE 1:50



PLAN OF JOINT BAY IN ROAD
SCALE 1:50

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 6. HAND DIG ONLY WITHIN 500mm OF EXISTING SERVICES.
 7. BACKFILL AS PER GUIDELINES FOR THE OPENING, BACKFILLING AND REINSTATEMENT OF OPENINGS IN PUBLIC ROADS (2015).
 8. THE COMPACTION OF BACKFILL MATERIAL AROUND CABLES SHALL BE CARRIED OUT BY HAND.
 9. THE CONTRACTOR SHALL PROVIDE TEST CERTIFICATES CONFIRMING THAT THE THERMAL RESISTIVITY OF THE THERMAL SAND IS A MAXIMUM OF 1 K.m/W.

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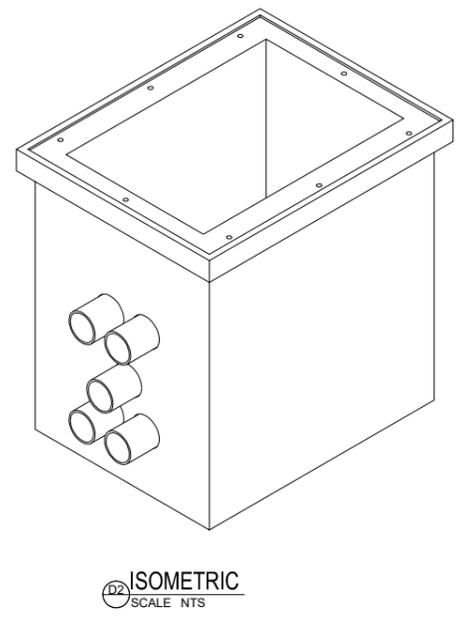
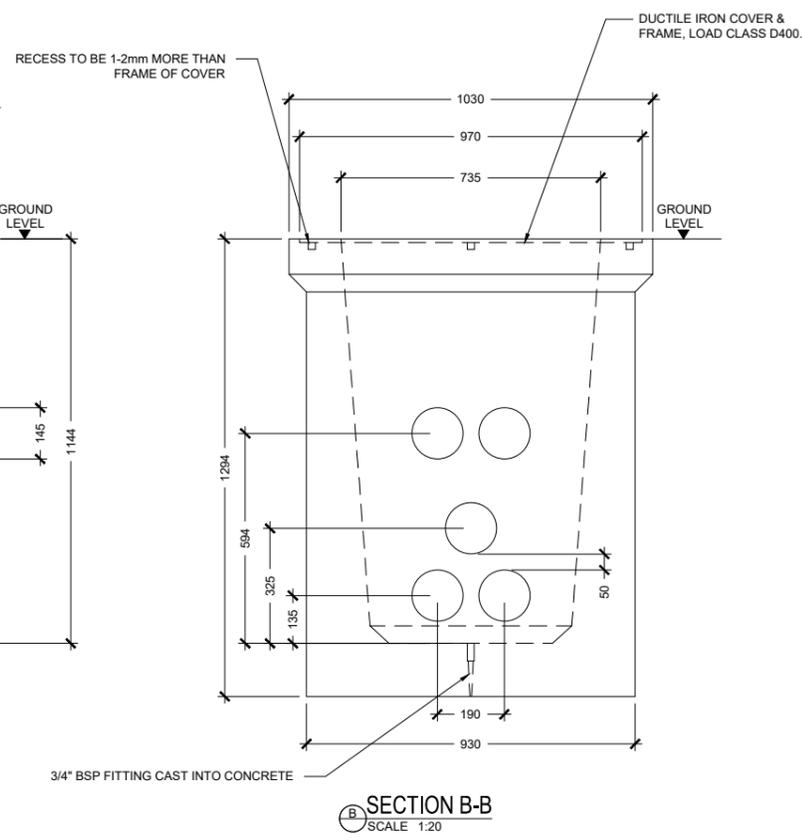
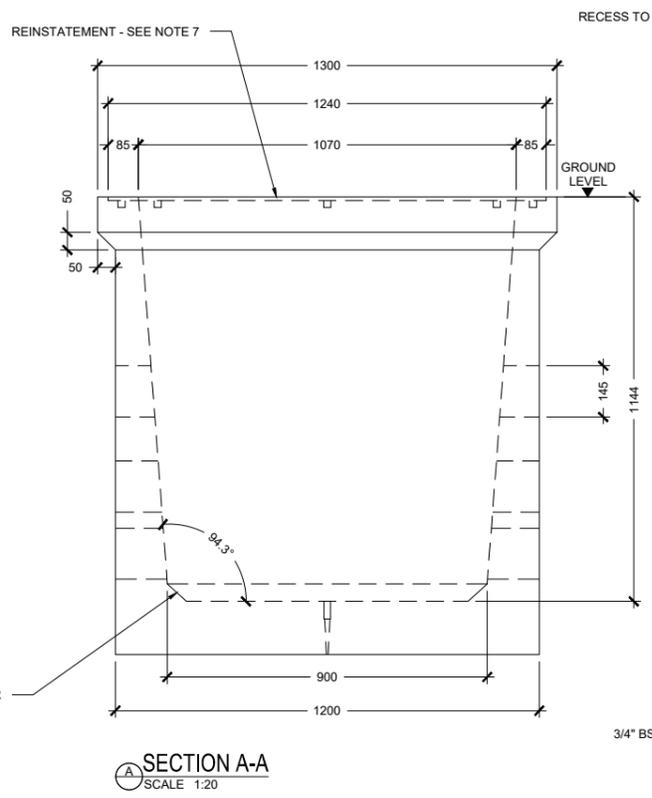
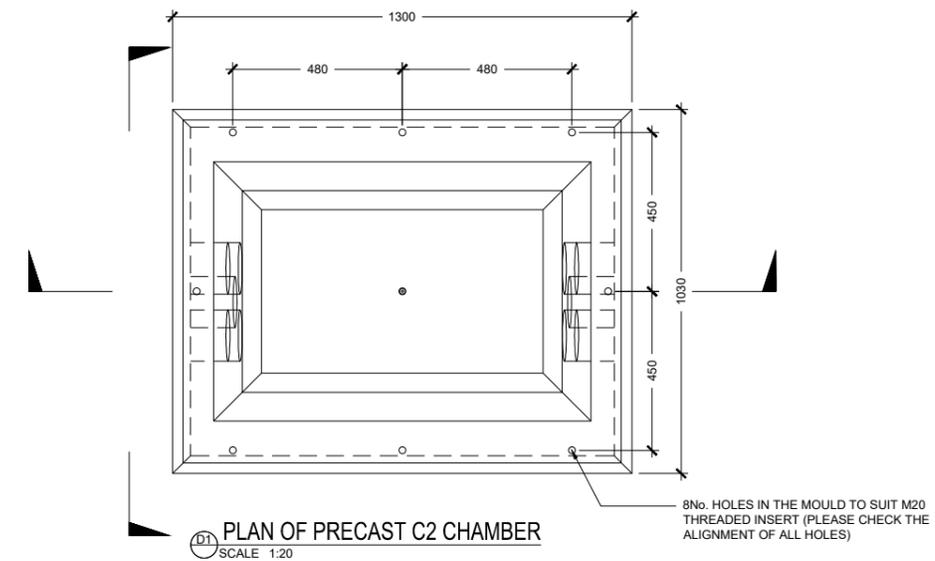
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DRG. TITLE:	JOINT BAY REINSTATEMENT	DES. BY:	VC	DRG. NO.:	1422
		CHK. BY:	ER	REV.:	P1
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 8. REINSTATEMENT TO COMPLY WITH REQUIREMENTS OF THE LOCAL AUTHORITY/ASSET OWNER.
 9. ENTRANCE & EXIT DUCTS TO BE IN LINE.
 10. ALL MATERIALS AND WORKMANSHIP TO BE IN ACCORDANCE WITH THE NRA/T.I.I. SPECIFICATION FOR ROADWORKS, MAY 2005 & SUBSEQUENT REVISIONS.
 11. REINFORCED CONCRETE TO BE MINIMUM GRADE C32/40, SULPHATE RESISTING CEMENT TO BE USED WHERE AGGRESSIVE SOIL CONDITIONS APPLY, REFER TO TABLE 6.1 OF B.S. 8110.
 12. CARRIAGEWAY COVERS AND FRAMES TO BE TO B.S. EN 124.
 13. ALL COVERS SHALL HAVE 'ESB' LOGO INCORPORATED IN THEM TO THE APPROVAL OF EIRGRID.
 14. STEP IRONS TO BE HOT DIPPED GALVANISED TO B.S. 729 AND POSITIONED AS SHOWN ON ANY CHAMBER DEEPER THAN 700mm ON THE END REMOTE FROM ANY SIDE ENTRY DUCT.
 15. CONCRETE PRECAST CHAMBER AND COVER SHOULD BE TESTED THROUGH A 5 POINTS 40 TONNES VERTICAL STATIC LOADING TEST BY AN INDEPENDENT TEST COMPANY. IF REQUIRED, FURTHER DETAILS WILL BE PROVIDED BY EIRGRID.
 16. FINAL POSITION OF C2 CHAMBERS SHALL BE AGREED WITH EIRGRID.

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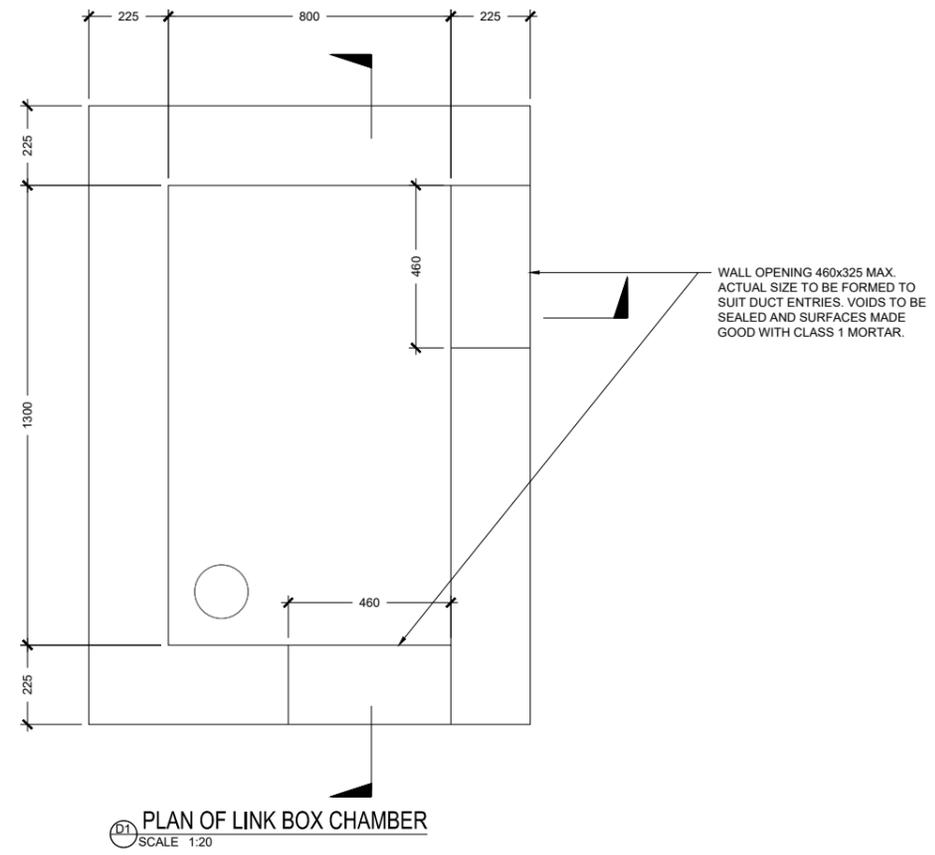
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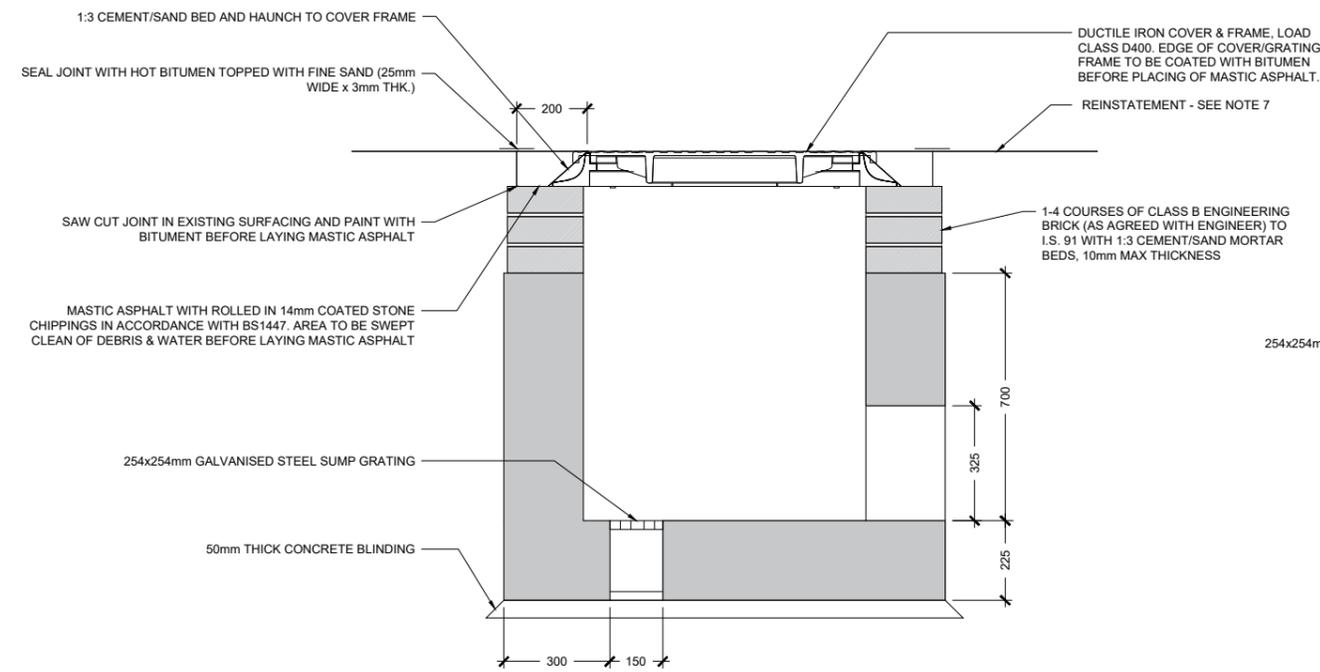
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DRG. TITLE:	STANDARD C2 CHAMBER GENERAL ARRANGEMENT	DES. BY:	ER	DRG. NO.:	1423
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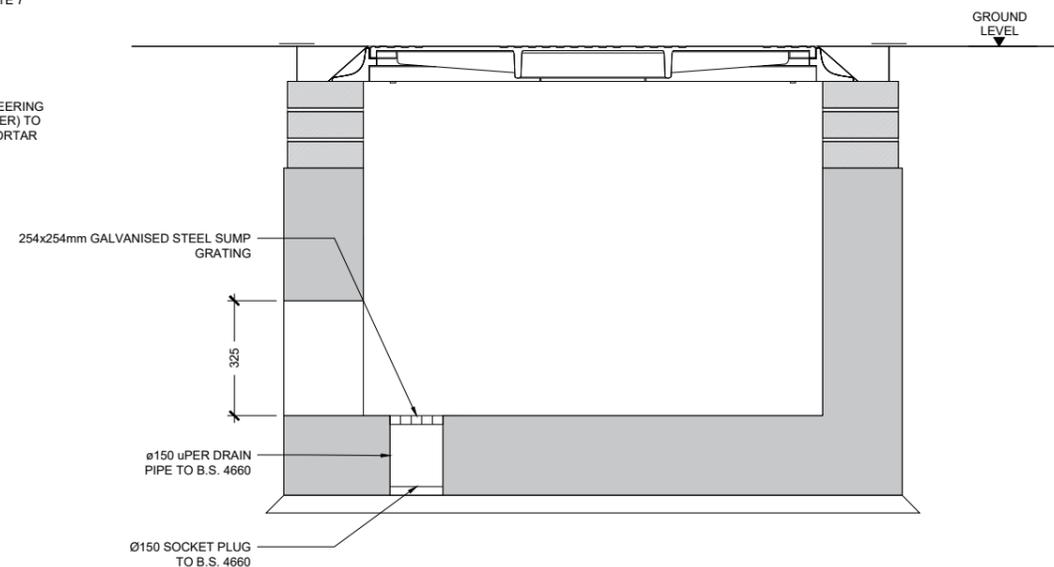


(D1) PLAN OF LINK BOX CHAMBER
SCALE 1:20

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 9. REINFORCED CONCRETE TO BE MINIMUM GRADE C32/40, SULPHATE RESISTING CEMENT TO BE USED WHERE AGGRESSIVE SOIL CONDITIONS APPLY.
 10. CARRIAGEWAY COVERS AND FRAMES TO BE TO B.S. EN 124.
 11. ALL COVERS SHALL HAVE APPROVED BADGE MARKING WITH "ESB" LOGO INCORPORATED IN THEM TO THE APPROVAL OF EIRGRID.
 12. BRICKWORK TO BE CLASS B ENGINEERING, BEDS AND JOINTS TO BE CLASS 1 MORTAR.
 13. FINAL POSITION OF LINK BOX TO BE AGREED WITH EIRGRID PRIOR TO INSTALLATION.



(A) SECTION A-A
SCALE 1:20



(B) SECTION B-B
SCALE 1:20

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DRG. TITLE:	LINK BOX CHAMBER GENERAL ARRANGEMENT

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