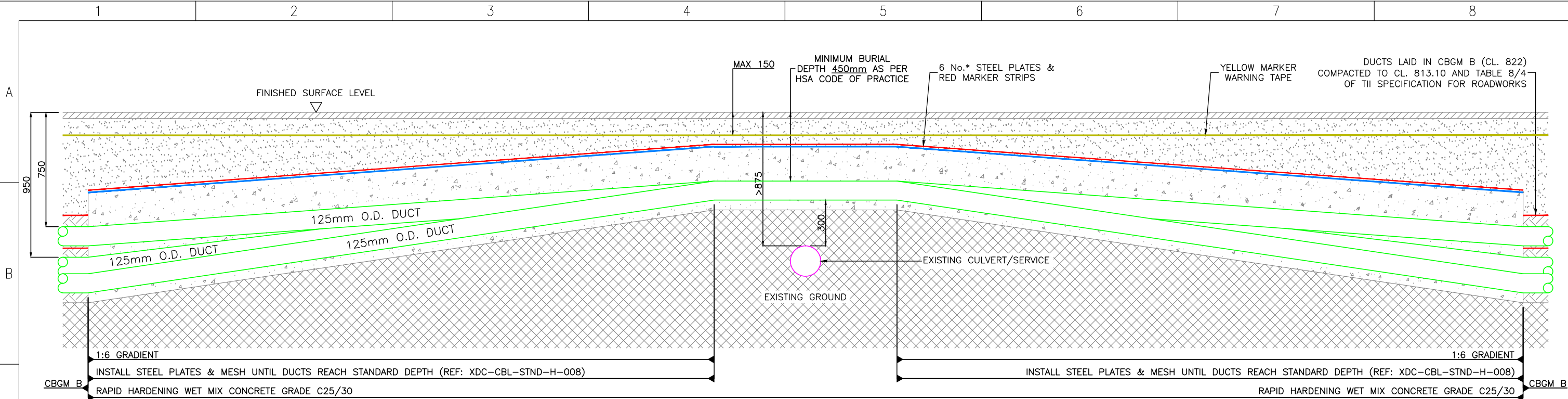


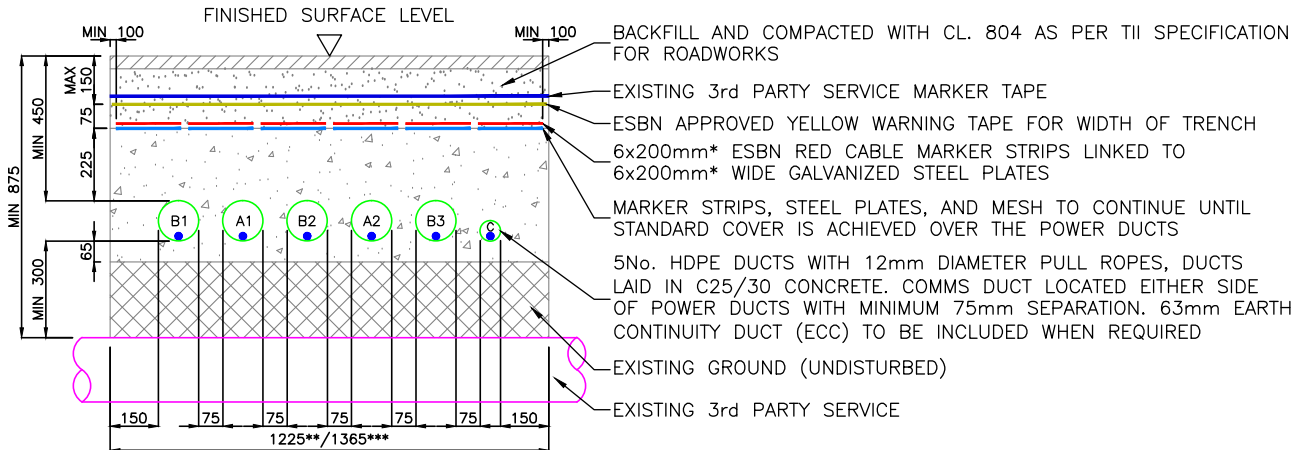


NOTES:

- ALL PRODUCTS AND MATERIALS TO BE UTILISED DURING CONSTRUCTION TO COMPLY WITH EIRGRID FUNCTIONAL SPECIFICATION, ESBN STANDARDS, TII SPECIFICATION FOR ROAD WORKS AND ALL RELEVANT IRISH (EUROPEAN) AND BRITISH STANDARDS.
- 300mm MINIMUM VERTICAL AND HORIZONTAL CLEARANCES TO BE OBSERVED BETWEEN CABLE DUCTS AND THIRD PARTY SERVICES (e.g. GAS PIPES, WATER MAINS, CULVERTS, etc.) IN THE CASE OF HIGH RISK 3rd PARTY SERVICES, GREATER CLEARANCES MAY BE REQUIRED. DESIGNER TO CONSULT EIRGRID AND 3rd PARTY SERVICE OWNERS FOR GUIDANCE.
- STEEL PLATES MUST COVER DUCTS. NO OVERLAP IS REQUIRED HOWEVER STANDARD DIMENSIONS MAY RESULT IN AN OVERLAP. SPACING OF 25mm TO BE MAINTAINED BETWEEN STEEL PLATES TO PREVENT THE TRANSFER OF STRAY CURRENT.
- THE MINIMUM CLEARANCE BETWEEN ALL HV AND COMMUNICATION DUCTS IS 75mm, BUT INCREASED SPACING MAY BE REQUIRED IN ORDER TO ACHIEVE THE CABLE RATING (TO BE CONFIRMED BY DESIGNER CABLE RATING CALCULATIONS).
- DRAWING IS INDICATIVE ONLY, TO BE USED TO AID IN THE DESIGN OF THE RELEVANT INFRASTRUCTURE.
- TEMPLATES ARE TO BE USED AT 5m INTERVALS DURING DUCT INSTALLATION IN CBGM. PRE-MADE 75mm WIDE CONCRETE SPACERS TO BE USED DURING DUCT INSTALLATION IN WET CONCRETE.
- MINIMUM BURIAL DEPTH IS 450mm.
- HAND DIG WITHIN 500mm OF EXISTING SERVICE.
- WHERE AN EARTH CONTINUITY CONDUCTOR (ECC) IS REQUIRED, A MIN 63mm DUCT TO BE INSTALLED OUTSIDE OF PHASE DUCT.

- RED MARKER STRIP
- 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

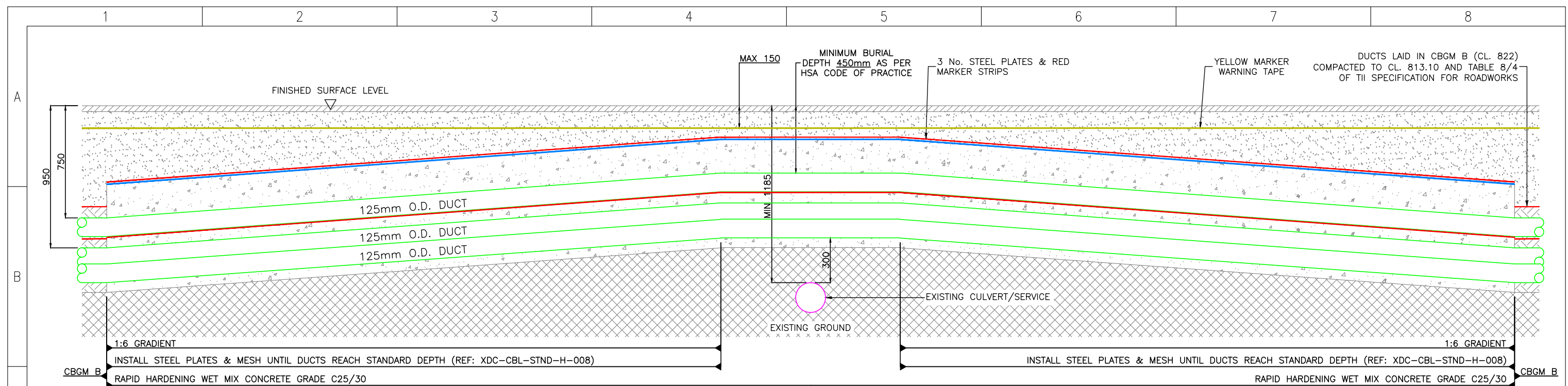
FULL FLAT FORMATION – REDUCED DEPTH FOR CROSSING OVER 3RD PARTY SERVICE



- A= 125mm O.D. HDPE DUCT FOR COMMUNICATIONS
B= 125mm 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 1225mm WHERE ECC NOT REQUIRED
*** SEE NOTE 9

00	FIRST ISSUE	DA	DG	CF	09/03/2020
REV	DESC	DRAWN	CHECKED	APPROVED	DATE

 EirGrid plc The Oval, 160 Shelbourne Road, Ballsbridge, Dublin 4, Ireland		Telephone: +353 1 677 1700 Fax: +353 1 661 5375 Email: info@eirgrid.com Web: www.eirgrid.com		STANDARD 110kV CABLE DRAWINGS	
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DRAWING NUMBER XDC-CBL-STND-H-001		SHEET 002		REV 00	

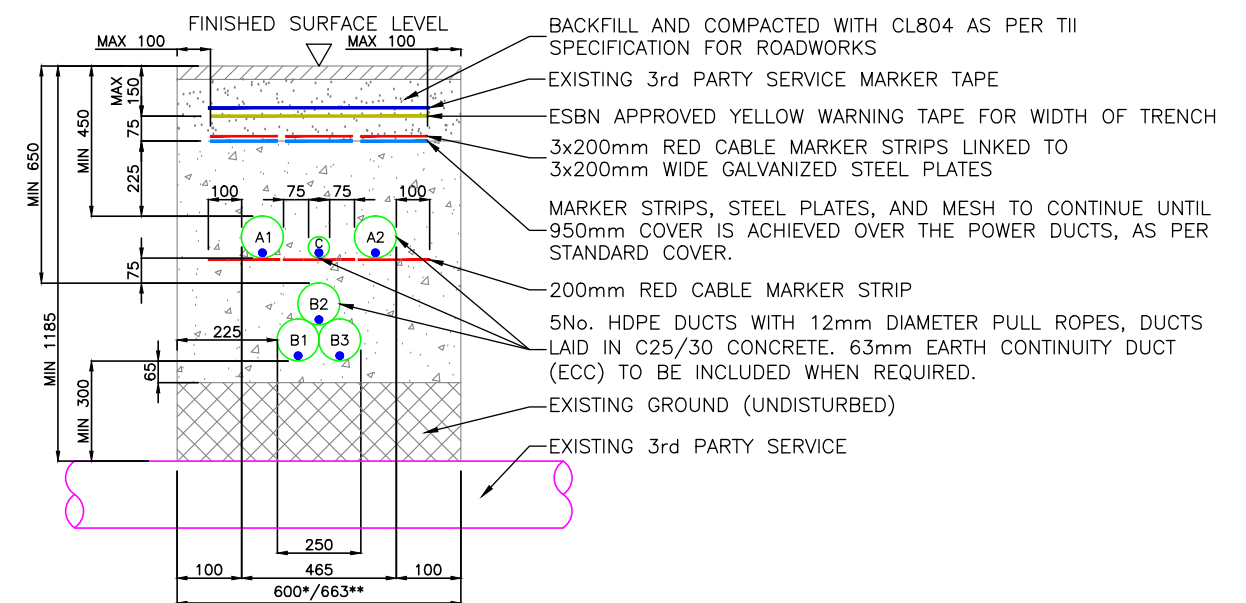


NOTES:

1. ALL PRODUCTS AND MATERIALS TO BE UTILISED DURING CONSTRUCTION TO COMPLY WITH EIRGRID FUNCTIONAL SPECIFICATION, ESBN STANDARDS, TII SPECIFICATION FOR ROAD WORKS AND ALL RELEVANT IRISH (EUROPEAN) AND BRITISH STANDARDS.
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7. MINIMUM BURIAL DEPTH IS 450mm.
8. HAND DIG WITHIN 500mm OF EXISTING SERVICE.
9. WHERE AN EARTH CONTINUITY CONDUCTOR (ECC) IS REQUIRED, A MIN 63mm DUCT TO BE INSTALLED OUTSIDE OF PHASE DUCT.

- | | |
|---|---|
|  | RED MARKER STRIP |
|  | 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 |

TREFOIL FORMATION – REDUCED DEPTH FOR
CROSSING OVER 3RD PARTY SERVICE



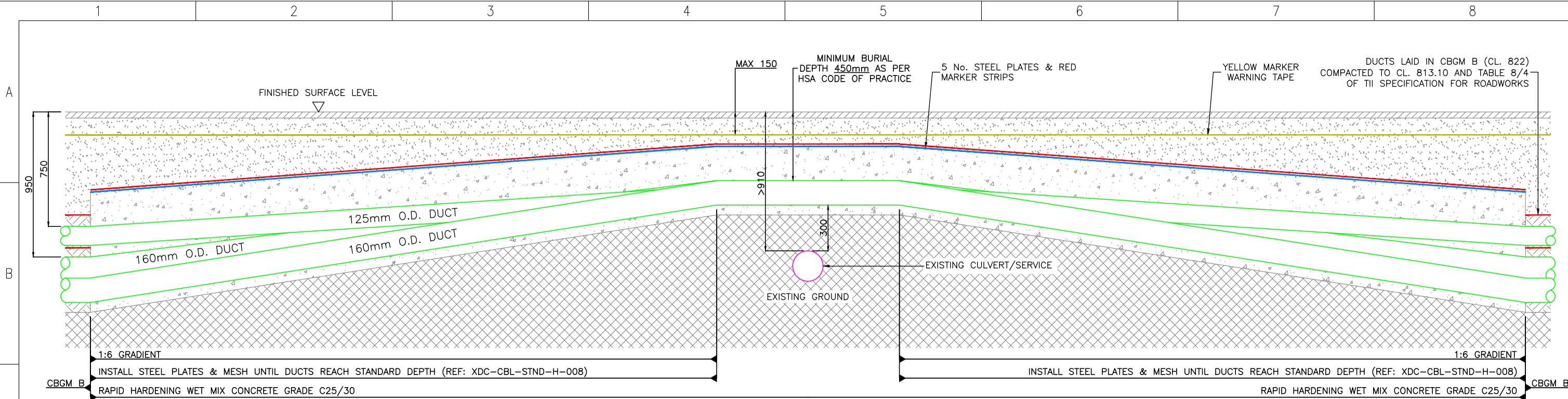
A= 125mm O.D. HDPE DUCT FOR COMMUNICATIONS
B= 125mm O.D. HDPE DUCT FOR HV CABLE
C= 63mm O.D. HDPE DUCT FOR EARTH CONTINUITY CONDUCTOR

* MIN 600mm WHERE ECC NOT REQUIRED
** SEE NOTE 9

 EirGrid plc The Oval, 160 Shelbourne Road, Ballsbridge, Dublin 4, Ireland	STANDARD 110kV CABLE DRAWINGS					
	DRAWING TITLE					
Telephone: +353 1 677 1700 Fax: +353 1 661 5375 Email: info@eirgrid.com Web: www.eirgrid.com	STANDARD 3rd PARTY CROSSING ABOVE IN TREFOIL FORMATION 125mm HV DUCTS					
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	DRAWING NUMBER				SHEET	REV
	XDC-CBL-STND-H-001				003	00

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REV	DESC	DRAWN	CHECKED	APPROVED	DATE

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B	STANDARD 110kV CABLE DRAWINGS STANDARD CROSSING ABOVE 3rd PARTY SERVICE FOR 160mm DUCTS																																																			
C																																																				
D	<table><tr><th>DRAWING No.</th><th>SHEET No.</th><th>DESCRIPTION</th><th>REVISION No.</th></tr><tr><td>XDC-CBL-STND-H-002</td><td>001</td><td>STANDARD 3rd PARTY CROSSING 160mm INDEX SHEET</td><td>00</td></tr><tr><td>XDC-CBL-STND-H-002</td><td>002</td><td>STANDARD 3rd PARTY CROSSING ABOVE IN FULL FLAT FORMATION 160mm HV DUCTS</td><td>00</td></tr><tr><td>XDC-CBL-STND-H-002</td><td>003</td><td>STANDARD 3rd PARTY CROSSING ABOVE IN TREFOIL FORMATION 160mm HV DUCTS</td><td>00</td></tr></table>								DRAWING No.	SHEET No.	DESCRIPTION	REVISION No.	XDC-CBL-STND-H-002	001	STANDARD 3rd PARTY CROSSING 160mm INDEX SHEET	00	XDC-CBL-STND-H-002	002	STANDARD 3rd PARTY CROSSING ABOVE IN FULL FLAT FORMATION 160mm HV DUCTS	00	XDC-CBL-STND-H-002	003	STANDARD 3rd PARTY CROSSING ABOVE IN TREFOIL FORMATION 160mm HV DUCTS	00																												
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F	<table><tr><td colspan="2">00</td><td colspan="2">FIRST ISSUE</td><td>DA</td><td>DG</td><td>CF</td><td>09/03/2020</td></tr><tr><td>REV</td><td>DESC</td><td>DRAWN</td><td>CHECKED</td><td>APPROVED</td><td>DATE</td><td colspan="2"></td></tr></table>  EirGrid plc The Oval, 160 Shelbourne Road, Ballsbridge, Dublin 4, Ireland Telephone: +353 1 677 1700 Fax: +353 1 661 5375 Email: info@eirgrid.com Web: www.eirgrid.com COPYRIGHT © EirGrid plc All rights reserved. No part of this work may be modified or reproduced or copied in any form or by any means – graphic, electronic or mechanical, including photocopying, recording, taping or information and retrieval system, or used for any purpose other than its designated purpose, without the written permission of EirGrid plc <table><tr><td colspan="4">STANDARD 110kV CABLE DRAWINGS</td></tr><tr><td colspan="4">DRAWING TITLE</td></tr><tr><td colspan="4">STANDARD 3rd PARTY CROSSING 160mm INDEX SHEET</td></tr><tr><td>No of Shts</td><td>3</td><td>SIZE</td><td>A3</td></tr><tr><td>SCALE</td><td>N/A</td><td>SHEET</td><td>001</td></tr><tr><td>DRAWING NUMBER</td><td colspan="2">XDC-CBL-STND-H-002</td><td>REV</td></tr><tr><td></td><td colspan="2"></td><td>00</td></tr></table>								00		FIRST ISSUE		DA	DG	CF	09/03/2020	REV	DESC	DRAWN	CHECKED	APPROVED	DATE			STANDARD 110kV CABLE DRAWINGS				DRAWING TITLE				STANDARD 3rd PARTY CROSSING 160mm INDEX SHEET				No of Shts	3	SIZE	A3	SCALE	N/A	SHEET	001	DRAWING NUMBER	XDC-CBL-STND-H-002		REV				00
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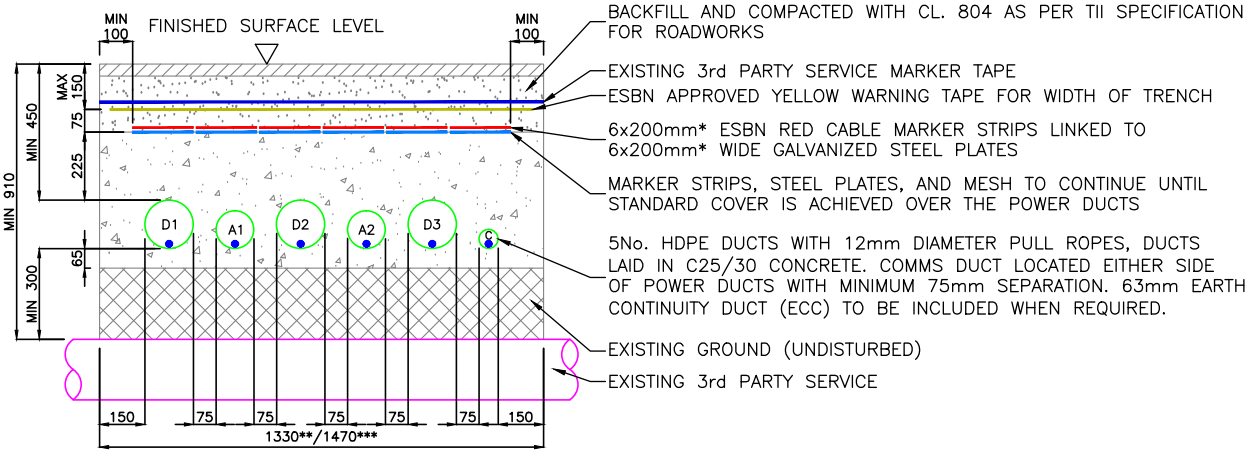


NOTES:

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- WHERE AN EARTH CONTINUITY CONDUCTOR (ECC) IS REQUIRED, A MIN 63mm DUCT TO BE INSTALLED OUTSIDE OF PHASE DUCT.

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

FULL FLAT FORMATION – REDUCED DEPTH FOR CROSSING OVER 3RD PARTY SERVICE



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 RED MARKER WHERE AND ECC IS NOT REQUIRED
** MIN 1225mm WHERE ECC NOT REQUIRED
*** SEE NOTE 9

00	FIRST ISSUE	DA	DG	CF	09/03/2020
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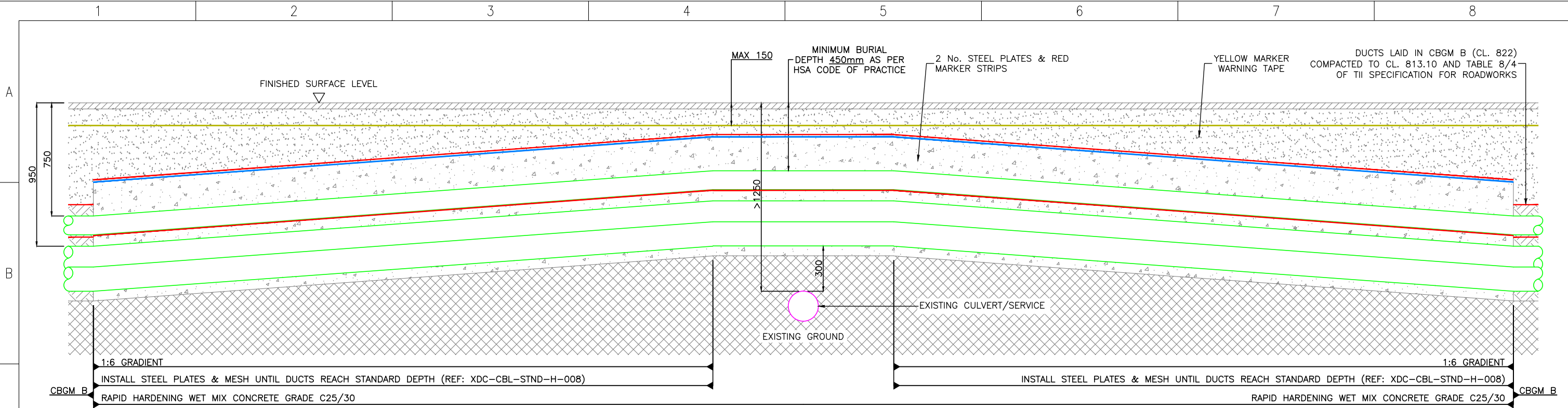
Telephone: +353 1 677 1700
Fax: +353 1 661 5375
Email: info@eirgrid.com
Web: www.eirgrid.com

STANDARD 110kV CABLE DRAWINGS

DRAWING TITLE
STANDARD 3rd PARTY CROSSING
ABOVE IN FULL FLAT FORMATION
160mm HV DUCTS

No of Shts	3	SIZE	A3	SCALE	N/A
DRAWING NUMBER	XDC-CBL-STND-H-002			SHEET	REV
				002	00

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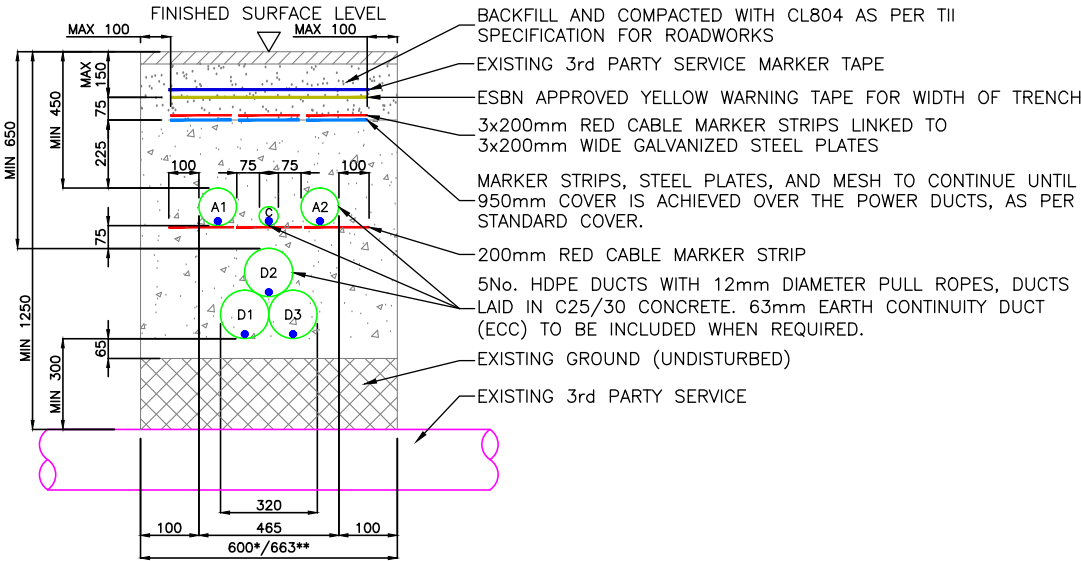


NOTES:

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- HAND DIG WITHIN 500mm OF EXISTING SERVICE.
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- 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

TREFOIL FORMATION – REDUCED DEPTH FOR CROSSING OVER 3RD PARTY SERVICE



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

* MIN 600mm WHERE ECC NOT REQUIRED
** SEE NOTE 9

00	FIRST ISSUE	DA	DG	CF	09/03/2020
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 EirGrid plc The Oval, 160 Shelbourne Road, Ballsbridge, Dublin 4, Ireland		STANDARD 110kV CABLE DRAWINGS	
Telephone: +353 1 677 1700 Fax: +353 1 661 5375 Email: info@eirgrid.com Web: www.eirgrid.com		DRAWING TITLE STANDARD 3rd PARTY CROSSING ABOVE IN TREFOIL FORMATION 160mm HV DUCTS	
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DRAWING NUMBER XDC-CBL-STND-H-002		SCALE N/A	SHEET 003
		REV 00	

	1	2	3	4	5	6	7	8
A								
B								
C								
D								
E								
F								

STANDARD 110kV CABLE DRAWINGS
STANDARD CROSSING BELOW
3rd PARTY SERVICE FOR 125mm DUCTS

DRAWING No.	SHEET No.	DESCRIPTION	REVISION No.
XDC-CBL-STND-H-003	001	STANDARD 3rd PARTY CROSSING 125mm INDEX SHEET	00
XDC-CBL-STND-H-003	002	STANDARD 3rd PARTY CROSSING 125mm BELOW IN FULL FLAT FORMATION	00
XDC-CBL-STND-H-003	003	STANDARD 3rd PARTY CROSSING 125mm BELOW IN TREFOIL FORMATION	00

00	FIRST ISSUE	DA	DG	CF	09/03/2020
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Ballsbridge, Dublin 4, Ireland

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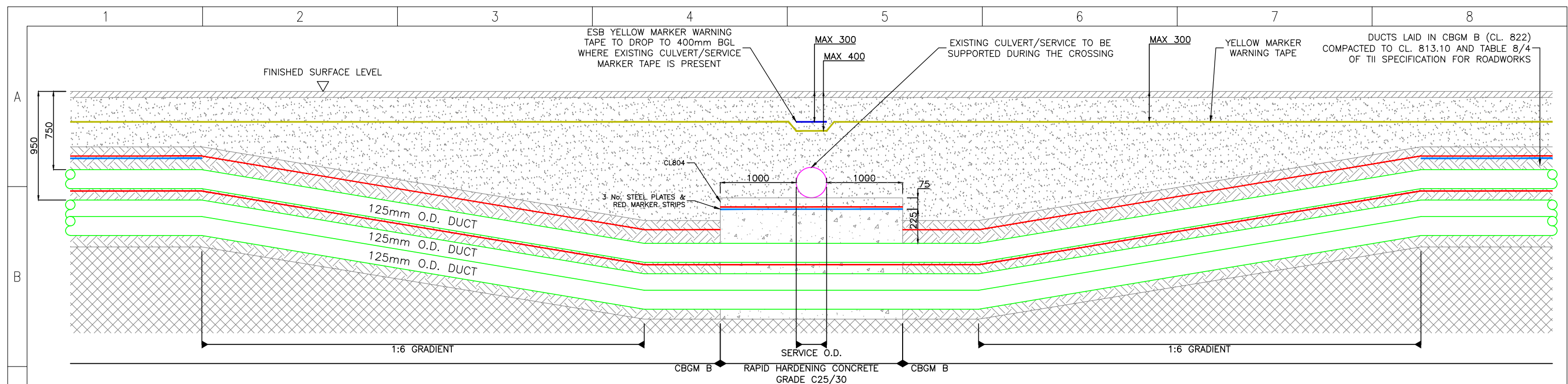
Email: info@eirgrid.com

Web: www.eirgrid.com

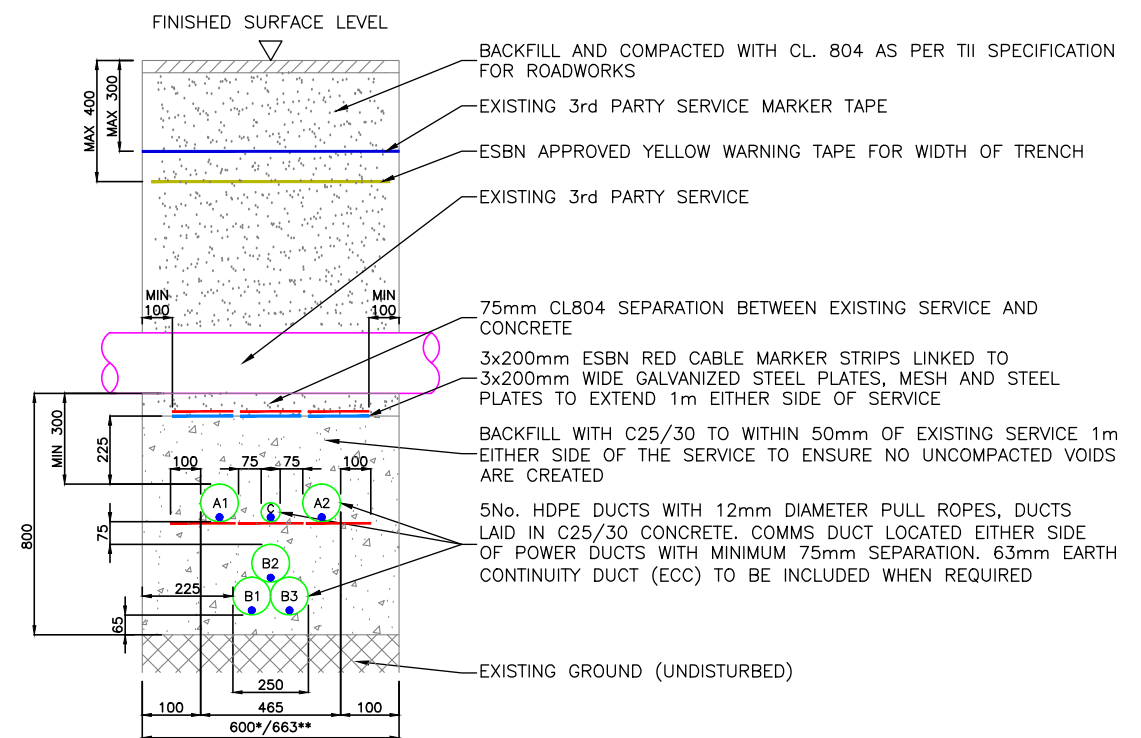
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STANDARD 110kV CABLE DRAWINGS		
DRAWING TITLE		
STANDARD 3rd PARTY CROSSING 125mm INDEX SHEET		
No of Shts 3	SIZE A3	SCALE N/A
DRAWING NUMBER XDC-CBL-STND-H-003		SHEET 001
		REV 00



TREFOIL FORMATION FOR CROSSING BELOW 3RD PARTY SERVICE



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

* MIN 600mm WHERE ECC NOT REQUIRED
** SEE NOTE 8

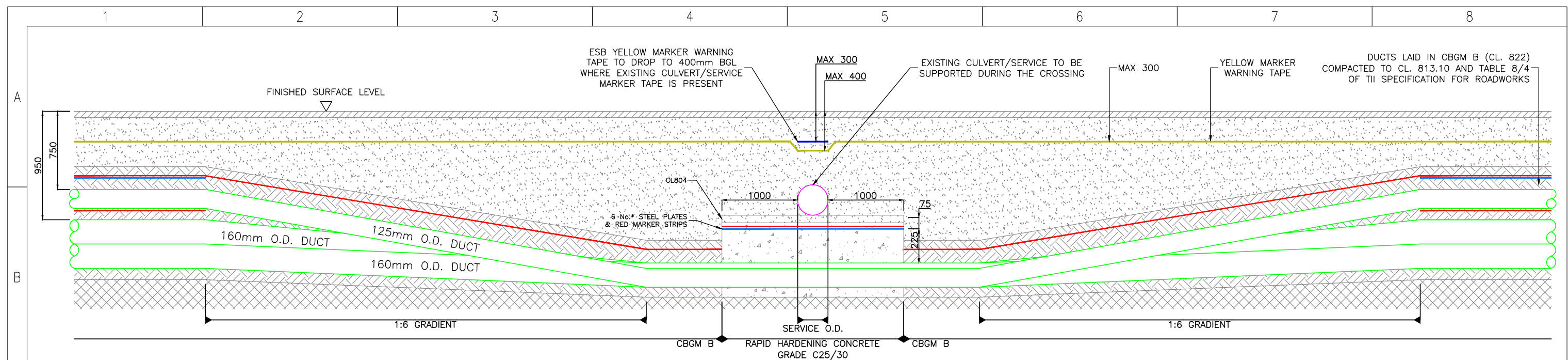
- NOTES:

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7. HAND DIG WITHIN 500mm OF EXISTING SERVICE.
8. WHERE AN EARTH CONTINUITY CONDUCTOR (ECC) IS REQUIRED, A MIN 63mm DUCT TO BE INSTALLED OUTSIDE OF PHASE DUCT.
9. IF EXISTING SERVICE MARKER TAPE IS NOT PRESENT, THE ESNB YELLOW MARKER TAPE SHOULD BE INSTALLED AT MAXIMUM 300mm BELOW FINISHED SURFACE LEVEL.

	RED MARKER STRIP
	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

00	FIRST ISSUE	DA	DG	CF	09/03/2020
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 EirGrid plc The Oval, 160 Shelbourne Road, Ballsbridge, Dublin 4, Ireland	STANDARD 110kV CABLE DRAWINGS			
	DRAWING TITLE STANDARD 3rd PARTY CROSSING 125mm BELOW IN TREFOIL FORMATION			
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	DRAWING NUMBER XDC-CBL-STND-H-003		SHEET 003	REV 00

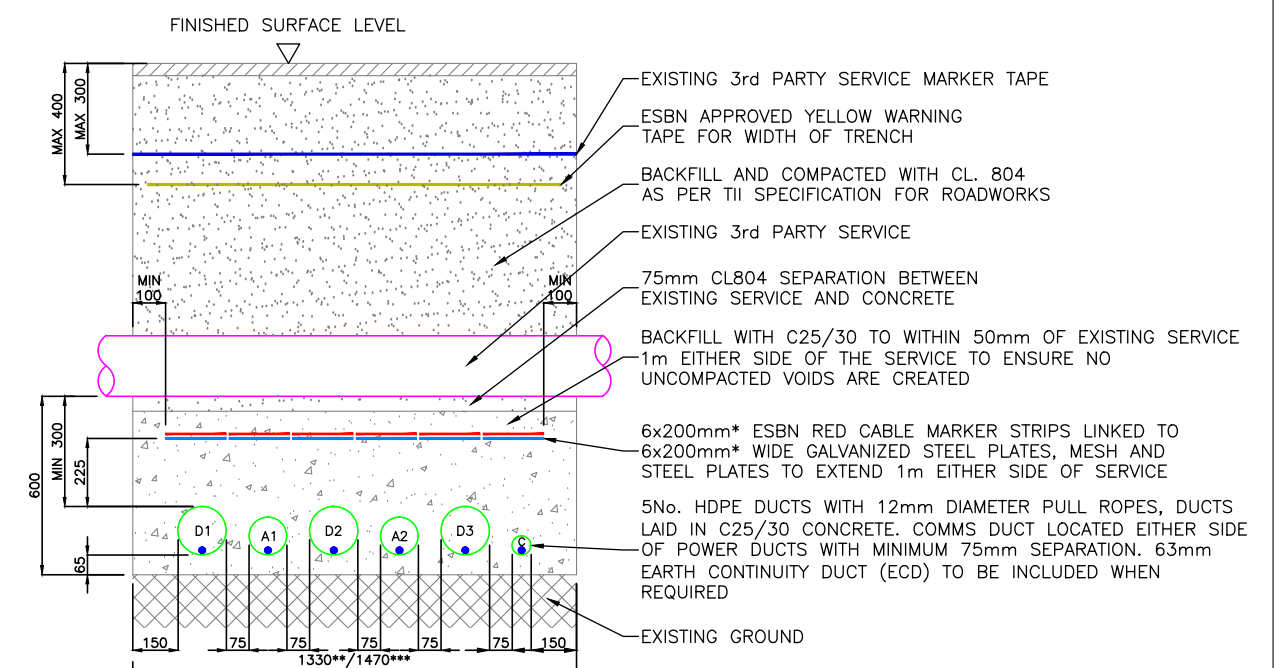


NOTES:

1. ALL PRODUCTS AND MATERIALS TO BE UTILISED DURING CONSTRUCTION TO COMPLY WITH EIRGRID FUNCTIONAL SPECIFICATION, ESBN STANDARDS, TII SPECIFICATION FOR ROAD WORKS AND ALL RELEVANT IRISH (EUROPEAN) AND BRITISH STANDARDS.
2. 300mm MINIMUM VERTICAL AND HORIZONTAL CLEARANCES TO BE OBSERVED BETWEEN CABLE DUCTS AND THIRD PARTY SERVICES (e.g. GAS PIPES, WATER MAINS, CULVERTS, etc.) IN THE CASE OF HIGH RISK 3rd PARTY SERVICES, GREATER CLEARANCES MAY BE REQUIRED. DESIGNER TO CONSULT EIRGRID AND 3rd PARTY SERVICE OWNERS FOR GUIDANCE.
3. STEEL PLATES MUST COVER DUCTS. NO OVERLAP IS REQUIRED HOWEVER STANDARD DIMENSIONS MAY RESULT IN AN OVERLAP. SPACING OF 10mm TO BE MAINTAINED BETWEEN STEEL PLATES TO PREVENT THE TRANSFER OF STRAY CURRENT.
4. THE MINIMUM CLEARANCE BETWEEN ALL HV AND COMMUNICATION DUCTS IS 75mm, (CABLE RATING CALCULATIONS TO BE PROVIDED FOR ACCEPTANCE).
5. DRAWING IS INDICATIVE ONLY, TO BE USED TO AID IN THE DESIGN OF THE RELEVANT INFRASTRUCTURE.
6. TEMPLATES ARE TO BE USED AT 5m INTERVALS DURING DUCT INSTALLATION IN CBGM. PRE-MADE 75mm WIDE CONCRETE SPACERS TO BE USED DURING DUCT INSTALLATION IN WET CONCRETE.
7. MINIMUM SPACING BETWEEN POWER DUCTS TO BE CONFIRMED WITH RATING CALCULATION.
8. HAND DIG WITHIN 500mm OF EXISTING SERVICE.
9. WHERE AN EARTH CONTINUITY CONDUCTOR (ECC) IS REQUIRED, A MIN 63mm DUCT TO BE INSTALLED OUTSIDE OF PHASE DUCT.
10. IF EXISTING SERVICE MARKER TAPE IS NOT PRESENT, THE ESBN YELLOW MARKER TAPE SHOULD BE INSTALLED AT MAXIMUM 300mm BELOW FINISHED SURFACE LEVEL.

- | | |
|---|---|
|  | RED MARKER STRIP |
|  | 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 |

FULL FLAT FORMATION FOR CROSSING
BELOW 3RD PARTY SERVICE

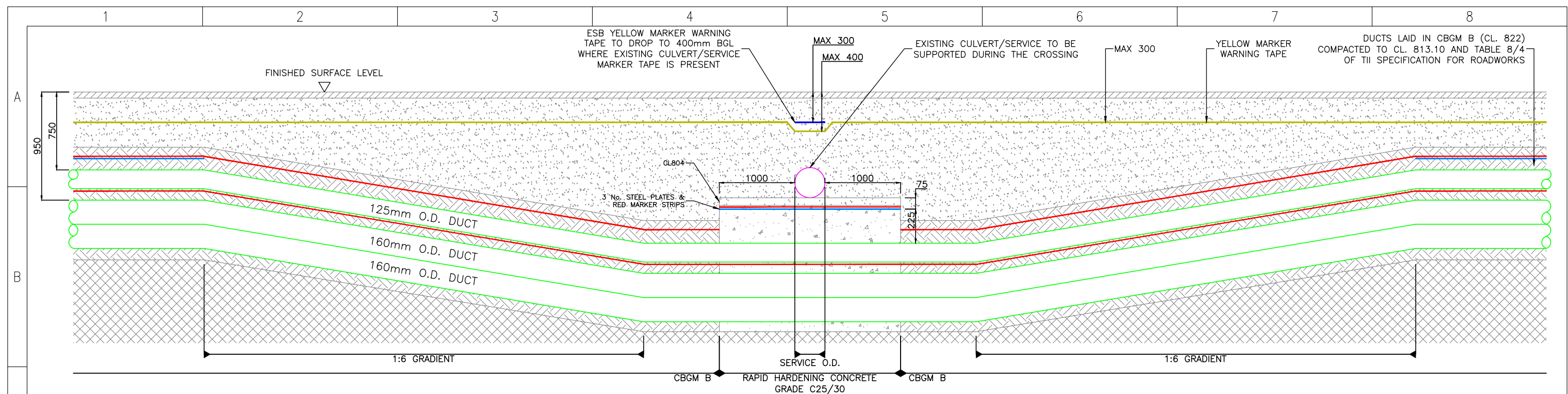


A= 125mm O.D. HDPE DUCT FOR COMMUNICATIONS
D= 160mm O.D. HDPE DUCT FOR HV CABLE
C= 63mm O.D. HDPE DUCT FOR EARTH CONTINUITY
CONDUCTOR

* 5x200mm STEEL PLATE AND RED MARKER WHERE ECC IS NOT REQUIRED
 ** MIN 1330mm WHERE ECC NOT REQUIRED
 *** SEE NOTE 9

00	FIRST ISSUE	DA	DG	CF	09/03/2020
REV	DESC	DRAWN	CHECKED	APPROVED	DATE

 EirGrid plc The Oval, 160 Shelbourne Road, Ballsbridge, Dublin 4, Ireland Telephone: +353 1 677 1700 Fax: +353 1 661 5375 Email: info@eirgrid.com Web: www.eirgrid.com COPYRIGHT © EirGrid plc All rights reserved. No part of this work may be modified or reproduced or copied in any form or by any means – graphic, electronic or mechanical, including photocopying, recording, taping or information and retrieval system, or used for any purpose other than its designated purpose, without the written permission of EirGrid plc	STANDARD 110kV CABLE DRAWINGS				
	DRAWING TITLE				
	STANDARD 3rd PARTY CROSSING 160mm BELOW IN FULL FLAT FORMATION				
No of Shts	3	SIZE	A3	SCALE	N/A
DRAWING NUMBER				SHEET	REV
XDC-CBL-STND-H-004				002	00

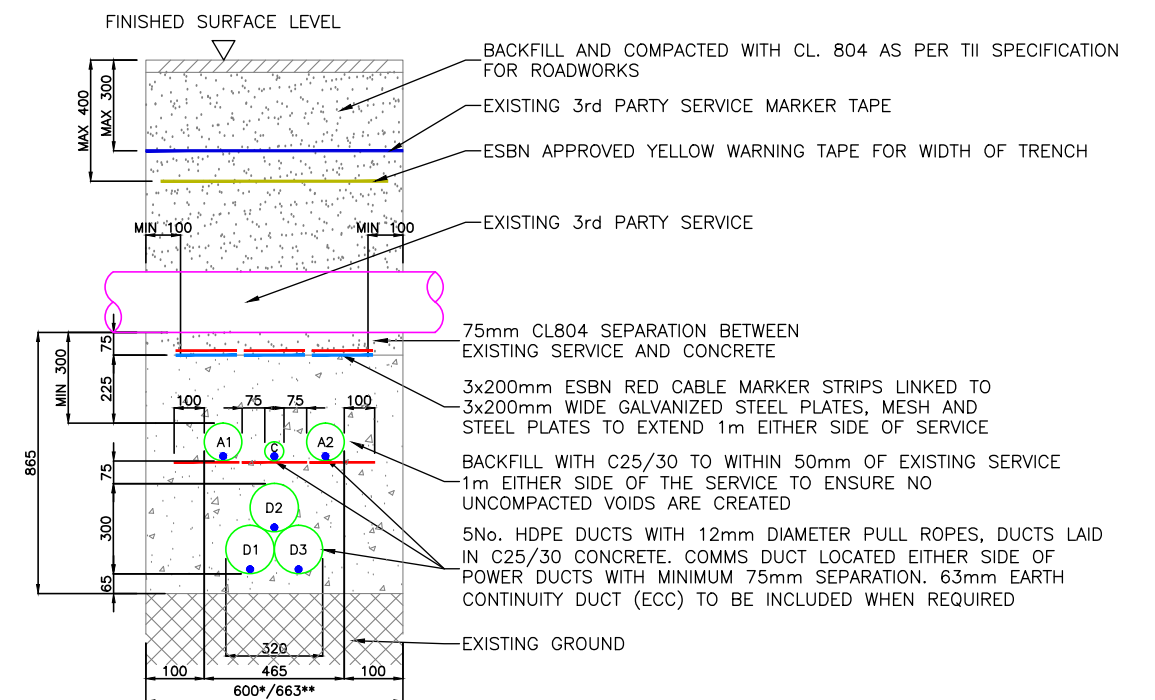


NOTES:

1. ALL PRODUCTS AND MATERIALS TO BE UTILISED DURING CONSTRUCTION TO COMPLY WITH EIRGRID FUNCTIONAL SPECIFICATION, ESBN STANDARDS, TII SPECIFICATION FOR ROAD WORKS AND ALL RELEVANT IRISH (EUROPEAN) AND BRITISH STANDARDS.
2. 300mm MINIMUM VERTICAL AND HORIZONTAL CLEARANCES TO BE OBSERVED BETWEEN CABLE DUCTS AND THIRD PARTY SERVICES (e.g. GAS PIPES, WATER MAINS, CULVERTS, etc.) IN THE CASE OF HIGH RISK 3rd PARTY SERVICES, GREATER CLEARANCES MAY BE REQUIRED. DESIGNER TO CONSULT EIRGRID AND 3rd PARTY SERVICE OWNERS FOR GUIDANCE.
3. STEEL PLATES MUST COVER DUCTS. NO OVERLAP IS REQUIRED HOWEVER STANDARD DIMENSIONS MAY RESULT IN AN OVERLAP. SPACING OF 10mm TO BE MAINTAINED BETWEEN STEEL PLATES TO PREVENT THE TRANSFER OF STRAY CURRENT.
4. THE MINIMUM CLEARANCE BETWEEN ALL HV AND COMMUNICATION DUCTS IS 75mm, (CABLE RATING CALCULATIONS TO BE PROVIDED FOR ACCEPTANCE).
5. DRAWING IS INDICATIVE ONLY, TO BE USED TO AID IN THE DESIGN OF THE RELEVANT INFRASTRUCTURE.
6. TEMPLATES ARE TO BE USED AT 5m INTERVALS DURING DUCT INSTALLATION IN CBGM. PRE-MADE 75mm WIDE CONCRETE SPACERS TO BE USED DURING DUCT INSTALLATION IN WET CONCRETE.
7. MINIMUM SPACING BETWEEN POWER DUCTS TO BE CONFIRMED WITH RATING CALCULATION.
8. HAND DIG WITHIN 500mm OF EXISTING SERVICE.
9. WHERE AN EARTH CONTINUITY CONDUCTOR (ECC) IS REQUIRED, A MIN 63mm DUCT TO BE INSTALLED OUTSIDE OF PHASE DUCT.
10. IF EXISTING SERVICE MARKER TAPE IS NOT PRESENT, THE ESBN YELLOW MARKER TAPE SHOULD BE INSTALLED AT MAXIMUM 300mm BELOW FINISHED SURFACE LEVEL.

- | | |
|---|---|
|  | RED MARKER STRIP |
|  | 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 |

TREFOIL FORMATION FOR CROSSING
BELOW 3RD PARTY SERVICE



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

* MIN 600mm WHERE ECC NOT REQUIRED
** SEE NOTE 9

00	FIRST ISSUE	DA	DG	CF	09/03/2020
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 EirGrid plc The Oval, 160 Shelbourne Road, Ballsbridge, Dublin 4, Ireland	STANDARD 110kV CABLE DRAWINGS					
	DRAWING TITLE					
Telephone: +353 1 677 1700 Fax: +353 1 661 5375 Email: info@eirgrid.com Web: www.eirgrid.com	STANDARD 3rd PARTY CROSSING 160mm BELOW IN TREFOIL FORMATION					
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	DRAWING NUMBER				SHEET	REV
	XDC-CBL-STND-H-004				003	00

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A								
B								
C								
D								
E								
F								

STANDARD 110kV CABLE DRAWINGS
STANDARD CROSSING BELOW
RIVERBED FOR 125mm & 160mm DUCTS

DRAWING No.	SHEET No.	DESCRIPTION	REVISION No.
XDC-CBL-STND-H-005	001	STANDARD RIVERBED CROSSING INDEX SHEET	00
XDC-CBL-STND-H-005	002	STANDARD RIVERBED CROSSING 125mm RIVERBED CROSSING	00
XDC-CBL-STND-H-005	003	STANDARD RIVERBED CROSSING 160mm RIVERBED CROSSING	00

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STANDARD 110kV CABLE DRAWINGS

DRAWING TITLE
STANDARD RIVERBED CROSSING
INDEX SHEET

No of Shts3

SIZEA3

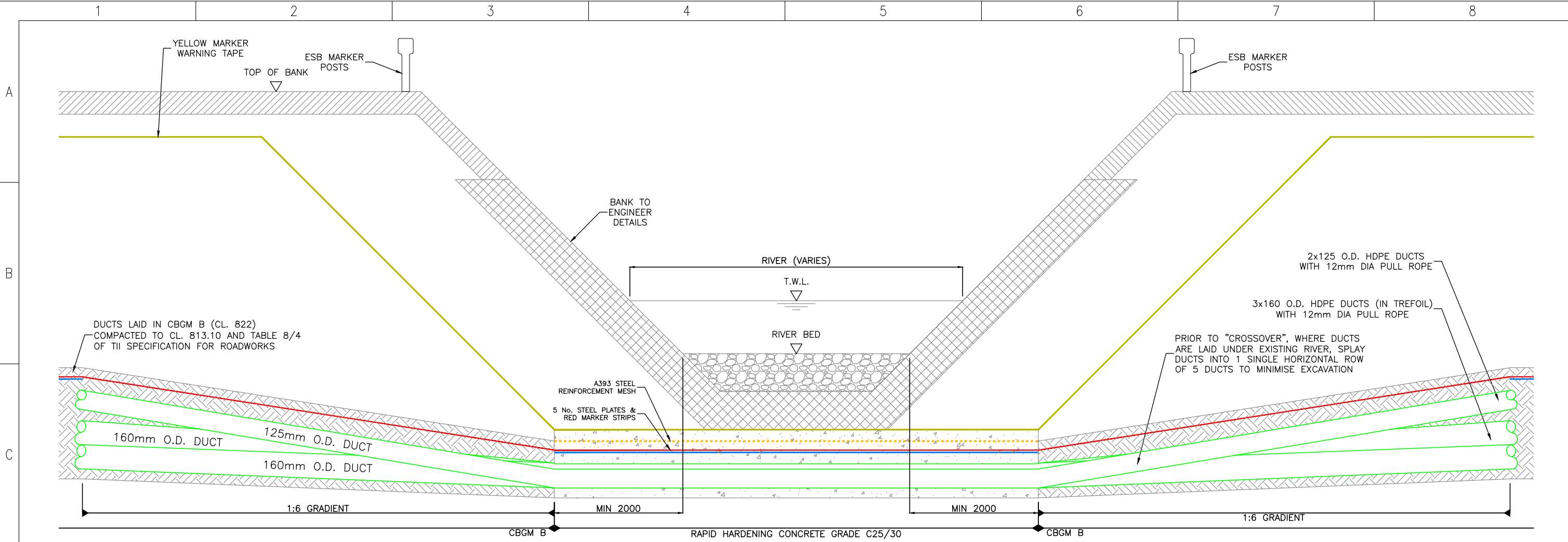
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DRAWING NUMBER
XDC-CBL-STND-H-005

SHEET
001

REV
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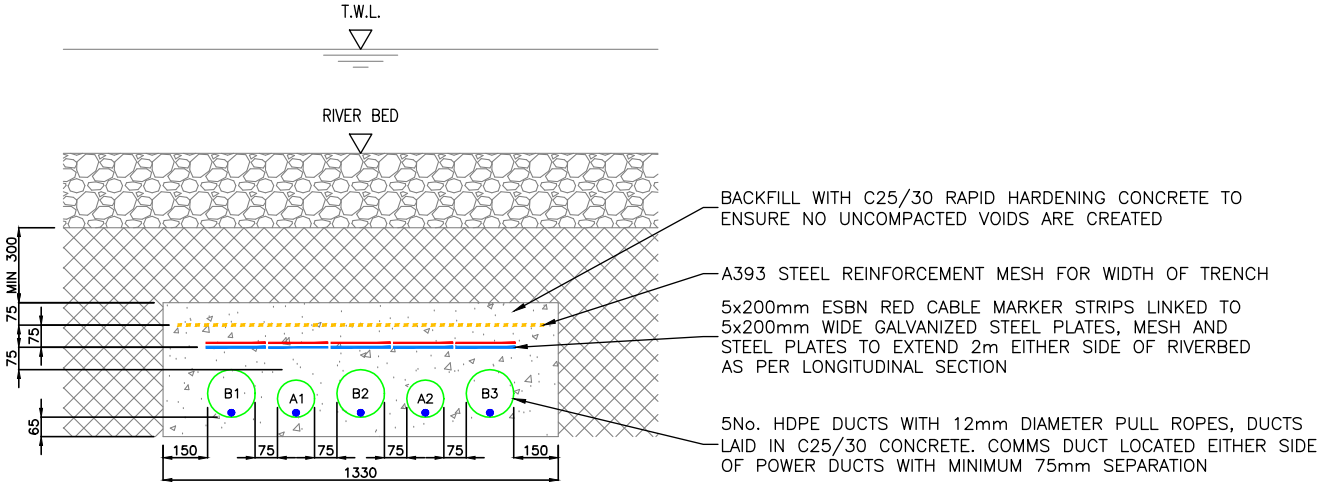
00	FIRST ISSUE	DA	DG	CF	09/03/2020
REV	DESC	DRAWN	CHECKED	APPROVED	DATE



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1. ALL PRODUCTS AND MATERIALS TO BE UTILISED DURING CONSTRUCTION TO COMPLY WITH EIRGRID FUNCTIONAL SPECIFICATION, ESNB STANDARDS, TII SPECIFICATION FOR ROAD WORKS AND ALL RELEVANT IRISH (EUROPEAN) AND BRITISH STANDARDS.
2. 300mm MINIMUM VERTICAL AND HORIZONTAL CLEARANCES TO BE OBSERVED BETWEEN CABLE DUCTS AND THIRD PARTY SERVICES (e.g. GAS PIPES, WATER MAINS, CULVERTS, etc.) IN THE CASE OF HIGH RISK 3rd PARTY SERVICES, GREATER CLEARANCES MAY BE REQUIRED. DESIGNER TO CONSULT EIRGRID AND 3rd PARTY SERVICE OWNERS FOR GUIDANCE.
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4. THE MINIMUM CLEARANCE BETWEEN ALL HV AND COMMUNICATION DUCTS IS **75mm**, BUT INCREASED SPACING MAY BE REQUIRED IN ORDER TO ACHIEVE THE CABLE RATING (CABLE RATING CALCULATIONS TO BE PROVIDED FOR ACCEPTANCE).
5. DRAWING IS INDICATIVE ONLY, TO BE USED TO AID IN THE DESIGN OF THE RELEVANT INFRASTRUCTURE.
6. TEMPLATES ARE TO BE USED AT 5m INTERVALS DURING DUCT INSTALLATION IN CBGM. PRE-MADE 75mm WIDE CONCRETE SPACERS TO BE USED DURING DUCT INSTALLATION IN WET CONCRETE.
7. MINIMUM SPACING BETWEEN POWER DUCTS TO BE CONFIRMED WITH RATING CALCULATION.
8. MINIMUM CLEARANCE BETWEEN CABLE TRENCH CONCRETE AND RIVER BED TO BE AGREED WITH RELEVANT AUTHORITY.
9. STANDARD ESB MARKER POSTS TO BE INSTALLED AT EITHER SIDE OF RIVER CROSSING.

- RED MARKER STRIP
- YELLOW MARKER WARNING TAPE
- A393 STEEL REINFORCEMENT MESH
- 6mm GALVANISED STEEL PLATE
- RAPID HARDENING WET CONCRETE C25/30
- CBGM B (CL. 822), COMPACTED TO CL. 813.10
- EXISTING GROUND
- REINSTATED RIVERBED



A= 125mm O.D. HDPE DUCT FOR COMMUNICATIONS
B= 160mm O.D. HDPE DUCT FOR HV CABLE

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STANDARD 110kV CABLE DRAWINGS

DRAWING TITLE
STANDARD RIVERBED CROSSING
160mm RIVERBED CROSSING

No of Shts3

SIZEA3

SCALEN/A

DRAWING NUMBER
XDC-CBL-STND-H-005

SHEET003

REV00

1

2

3

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E

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STANDARD 110kV CABLE DRAWINGS
STANDARD BRIDGE CROSSING

DRAWING No.	SHEET No.	DESCRIPTION	REVISION No.
XDC-CBL-STND-H-006	001	BRIDGE CROSSING INDEX SHEET	00
XDC-CBL-STND-H-006	002	BRIDGE CARRIAGEWAY STANDARD 110kV CABLE TRENCH	00

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STANDARD 110kV CABLE DRAWINGS

DRAWING TITLE
BRIDGE CROSSING
INDEX SHEET

No of Shts2

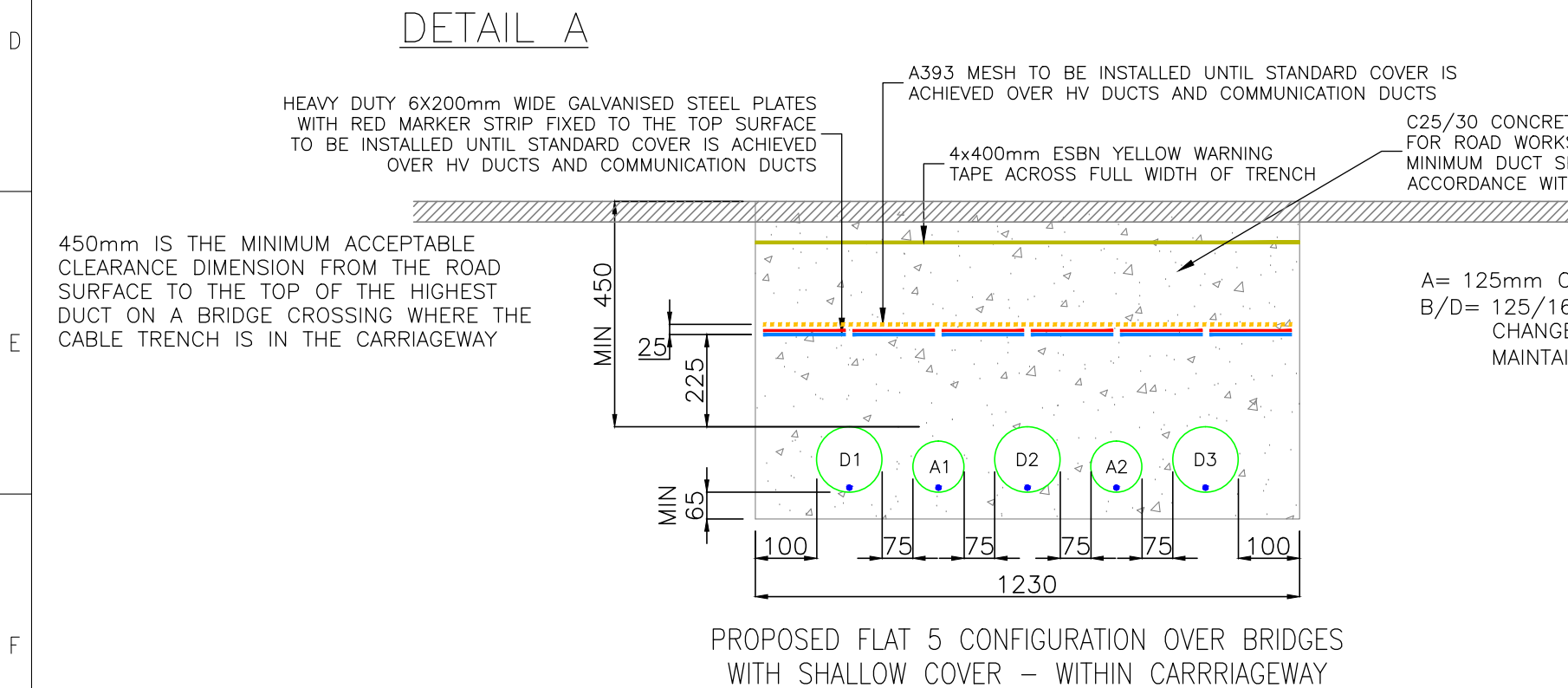
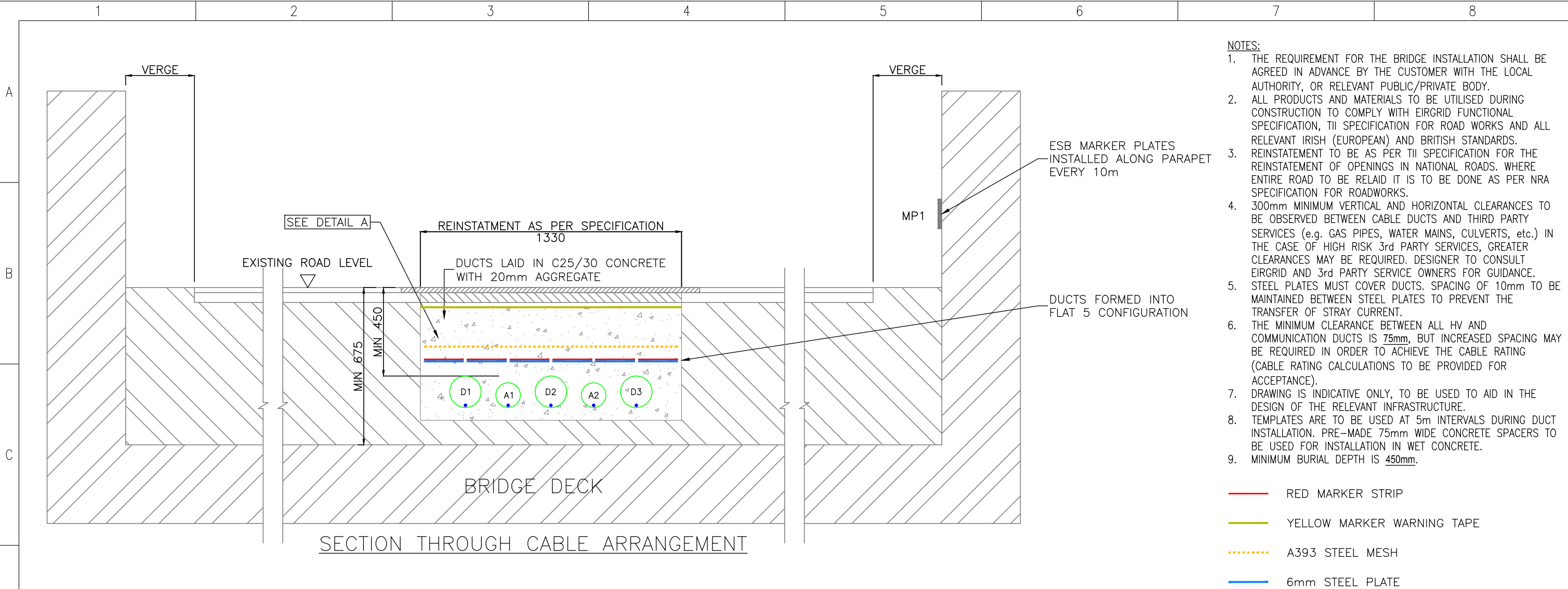
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SCALEN/A

DRAWING NUMBER
XDC-CBL-STND-H-006

SHEET001

REV00



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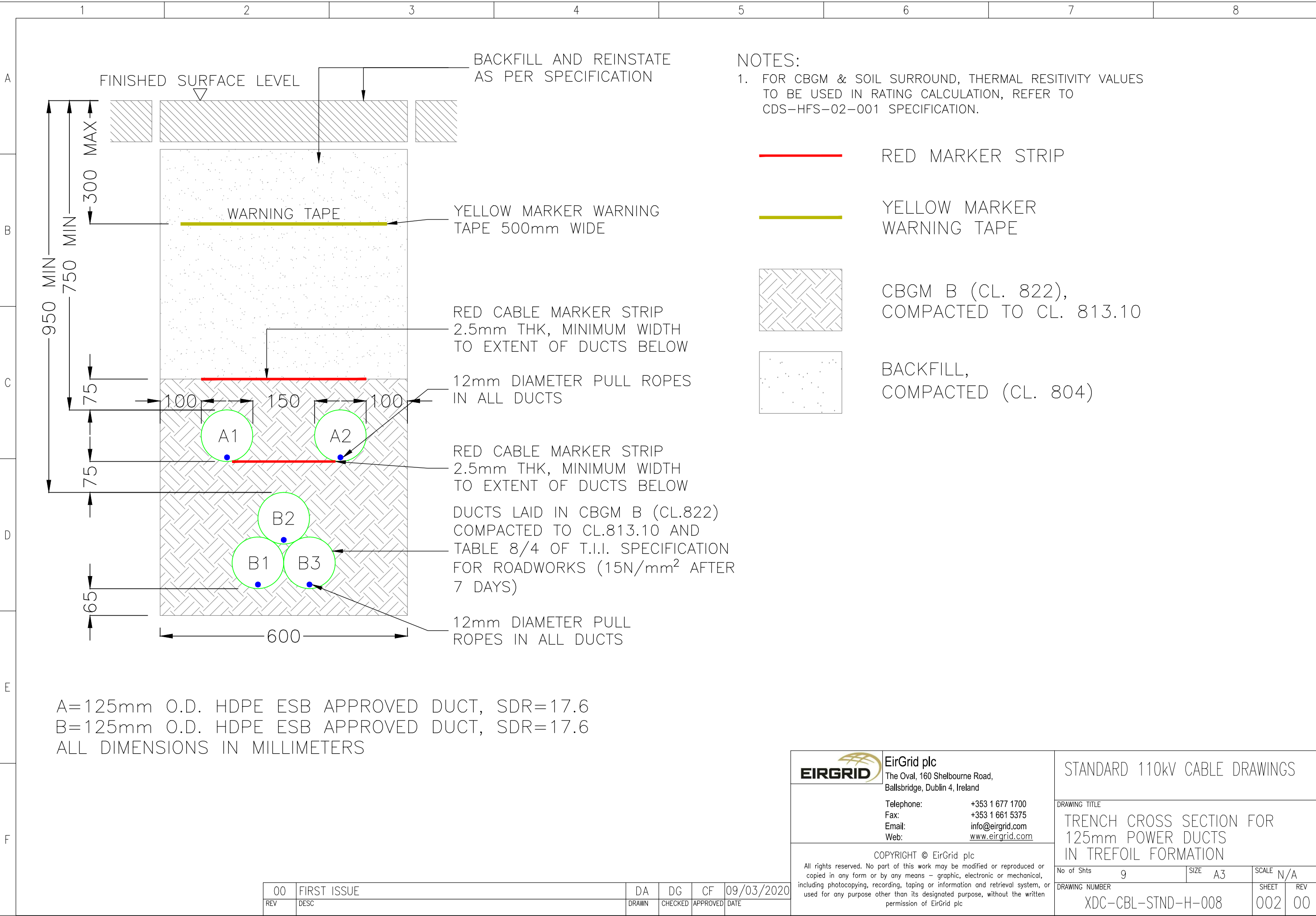
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Email: info@eirgrid.com
Web: www.eirgrid.com

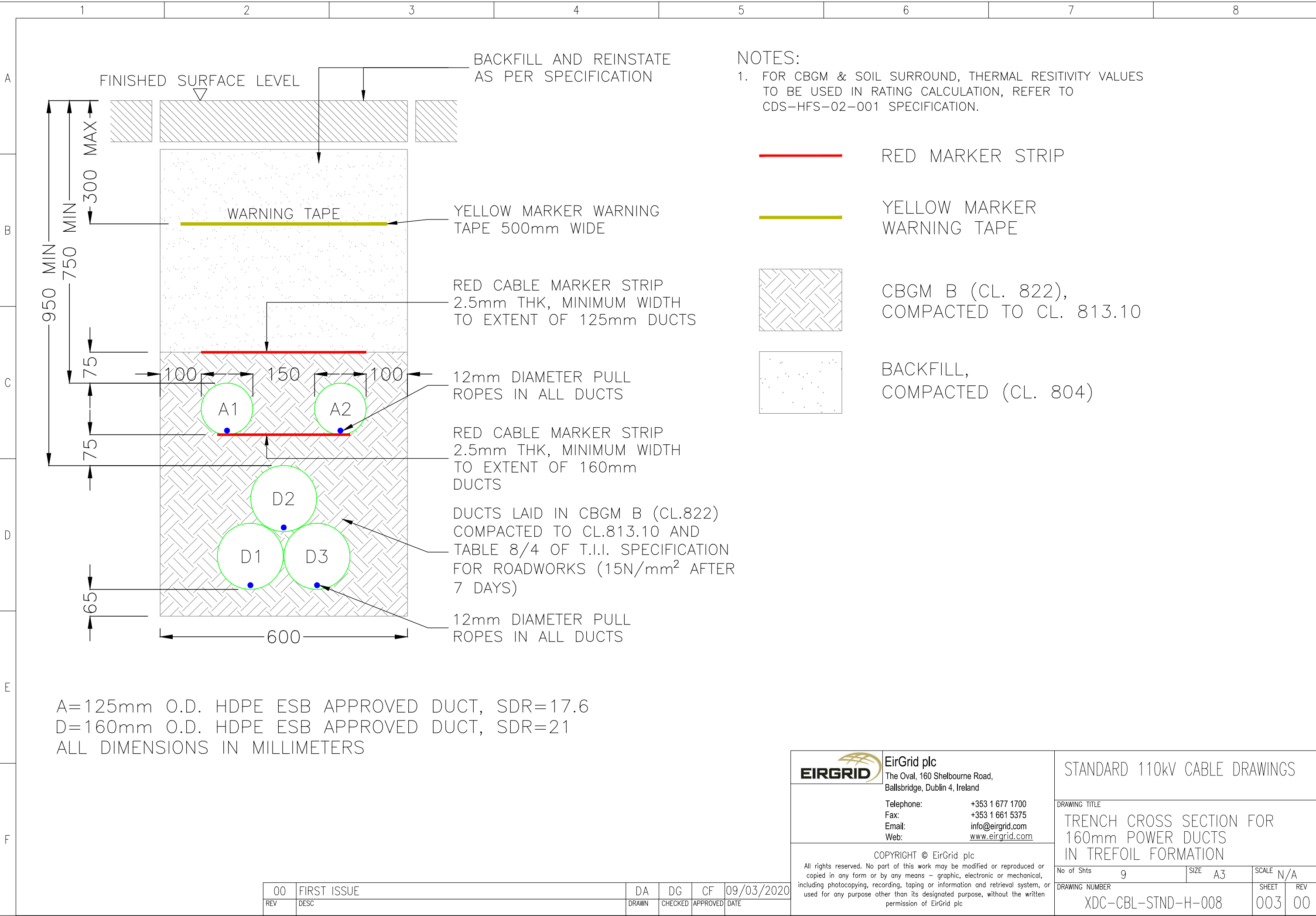
STANDARD 110kV CABLE DRAWINGS

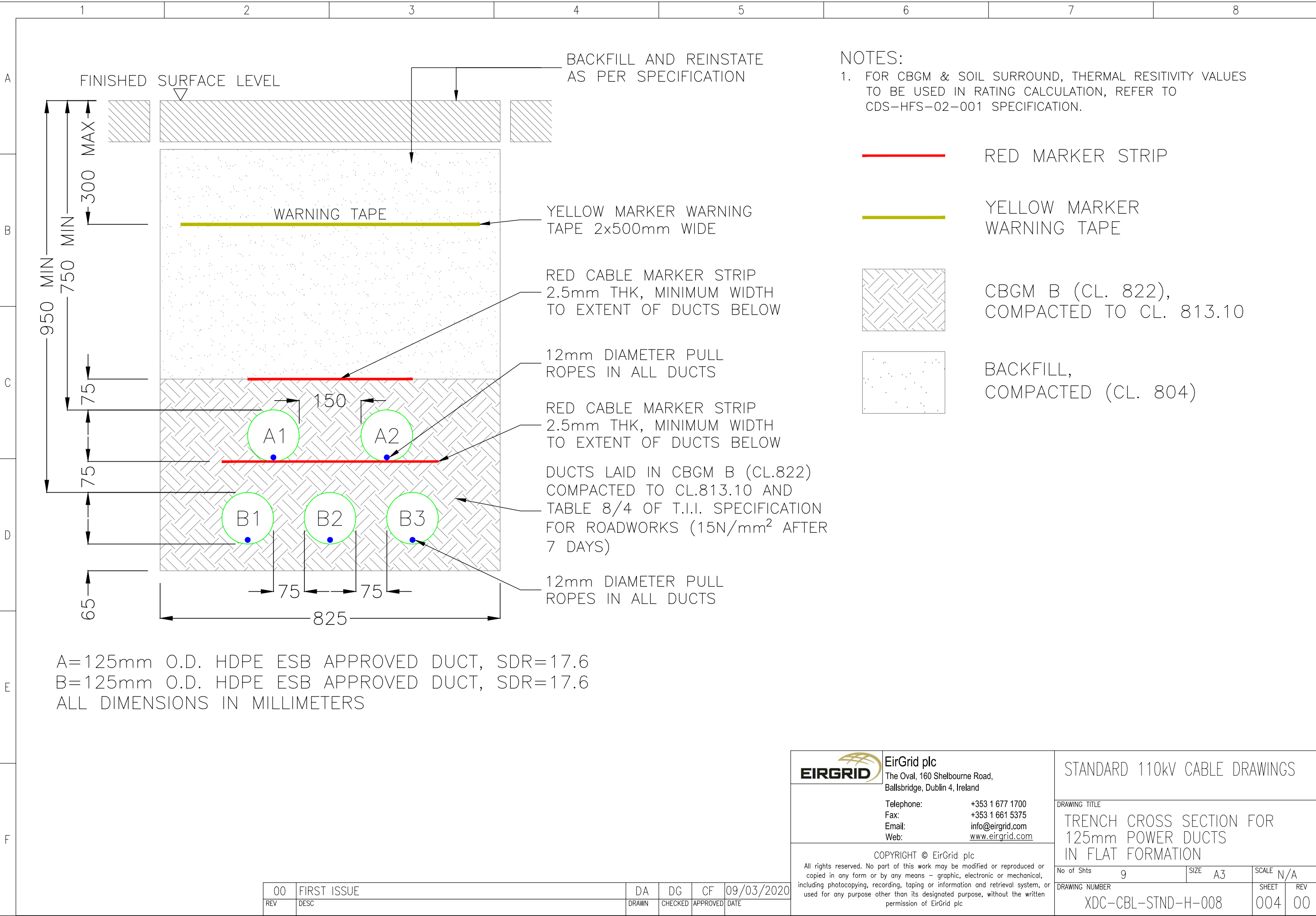
DRAWING TITLE
BRIDGE CARRIAGEWAY
STANDARD 110kV CABLE TRENCH

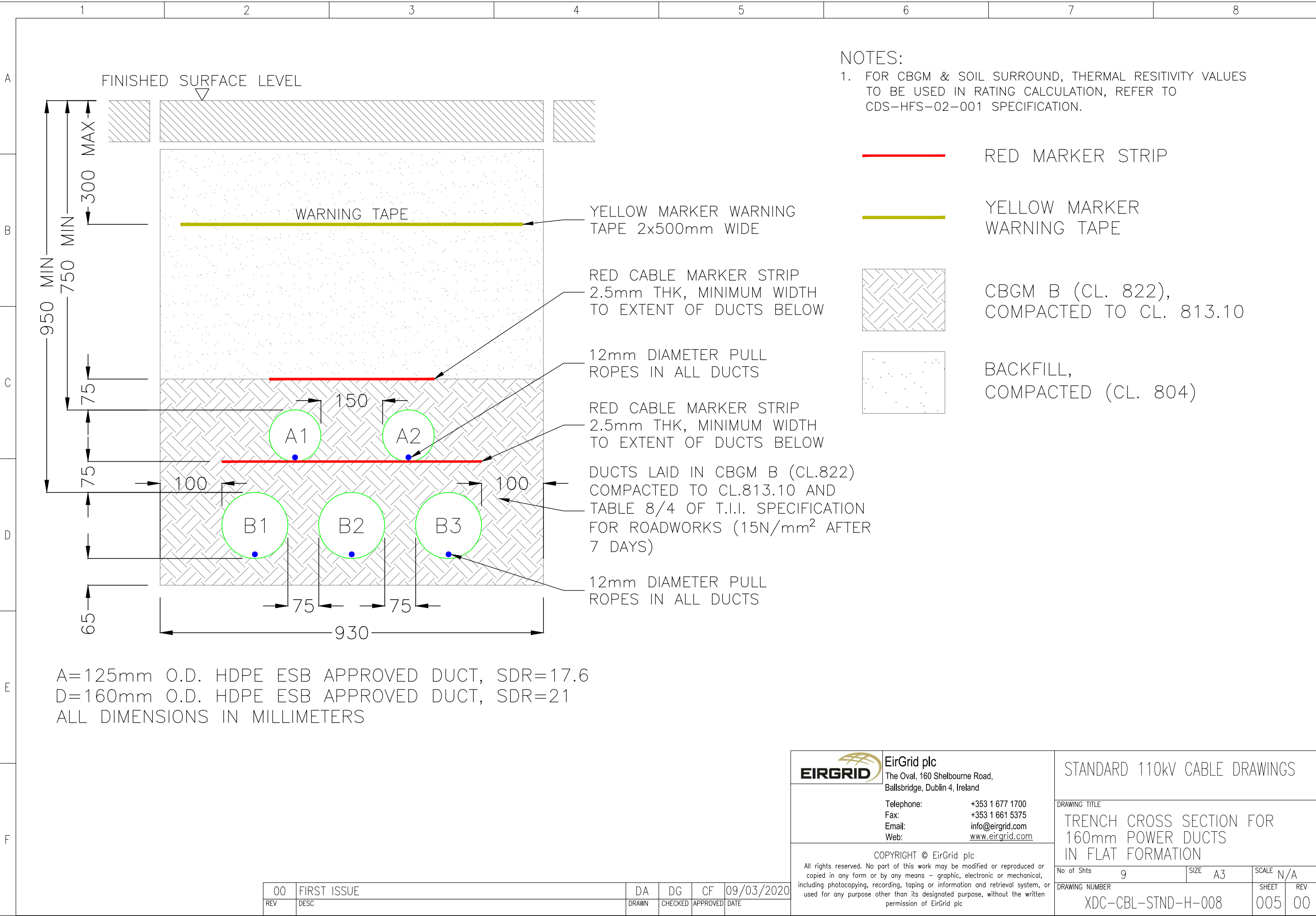
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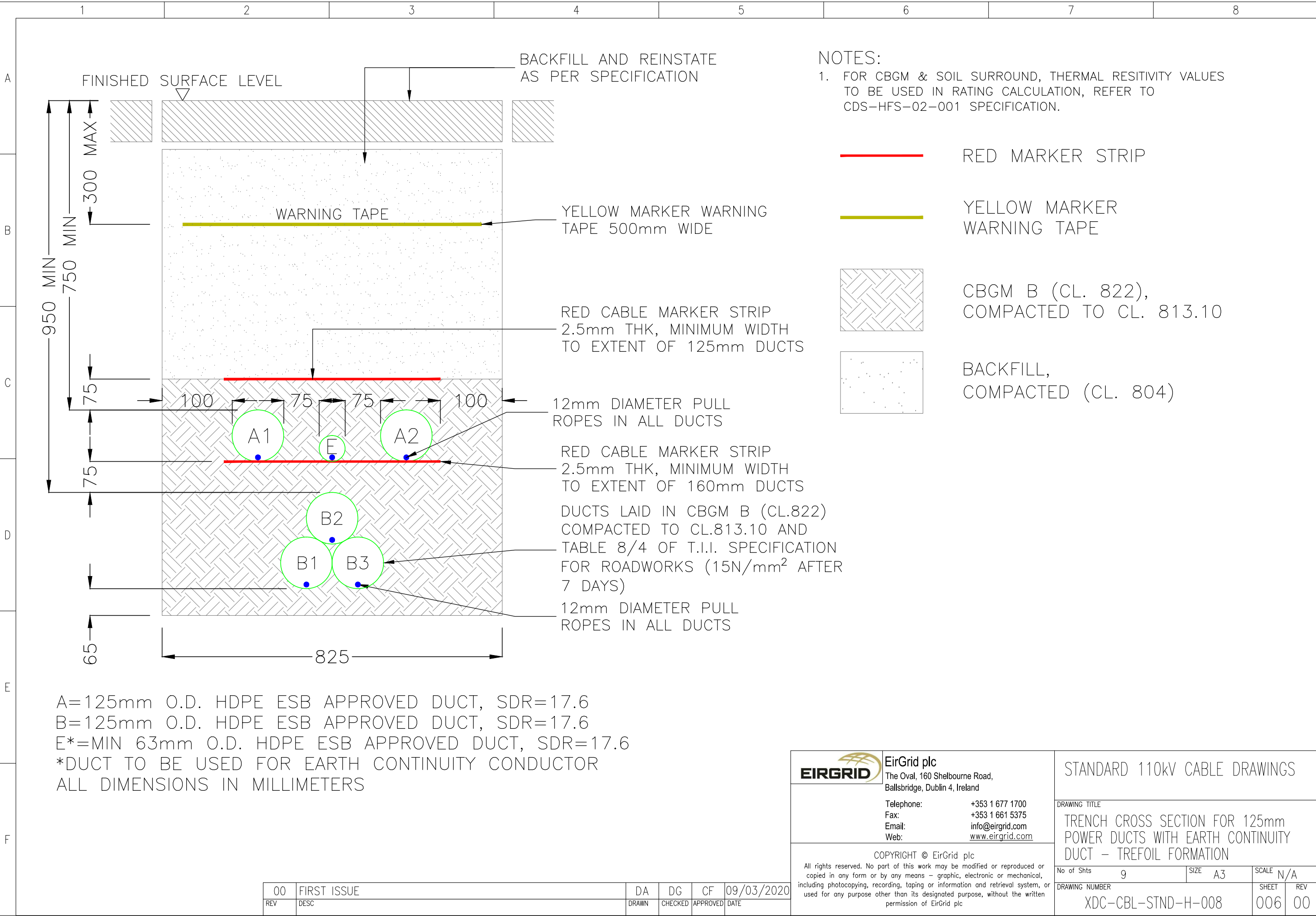
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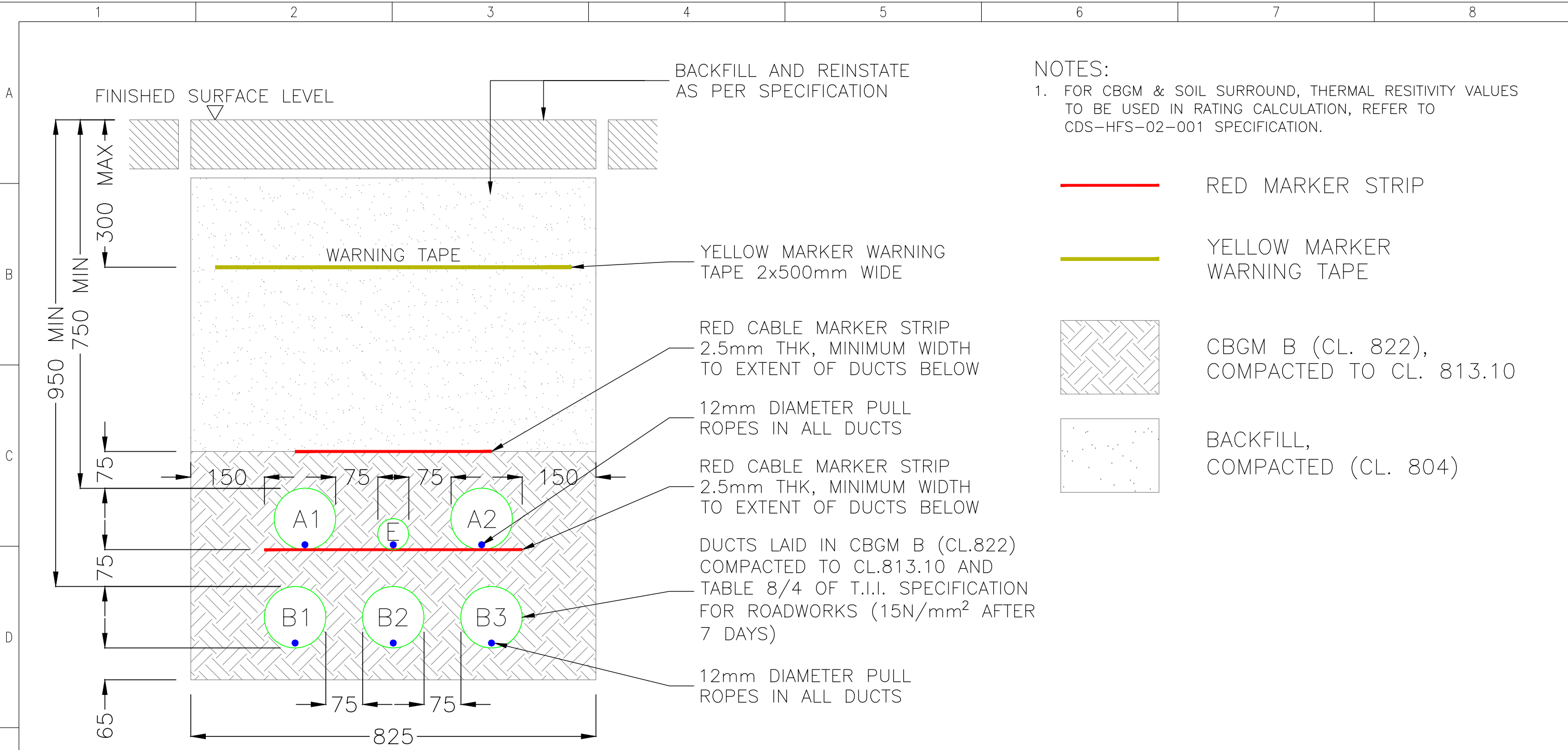












NOTES:
1. FOR CBGM & SOIL SURROUND, THERMAL RESITIVITY VALUES TO BE USED IN RATING CALCULATION, REFER TO CDS-HFS-02-001 SPECIFICATION.

A=125mm O.D. HDPE ESB APPROVED DUCT, SDR=17.6
B=125mm O.D. HDPE ESB APPROVED DUCT, SDR=17.6
*E=MIN 63mm O.D. HDPE ESB APPROVED DUCT, SDR=17.6
*DUCT TO BE USED FOR EARTH CONTINUITY CONDUCTOR
ALL DIMENSIONS IN MILLIMETERS

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STANDARD 110kV CABLE DRAWINGS

DRAWING TITLE

TRENCH CROSS SECTION FOR 125mm POWER DUCTS WITH EARTH CONTINUITY DUCT – FLAT FORMATION

No of Shts9

SIZEA3

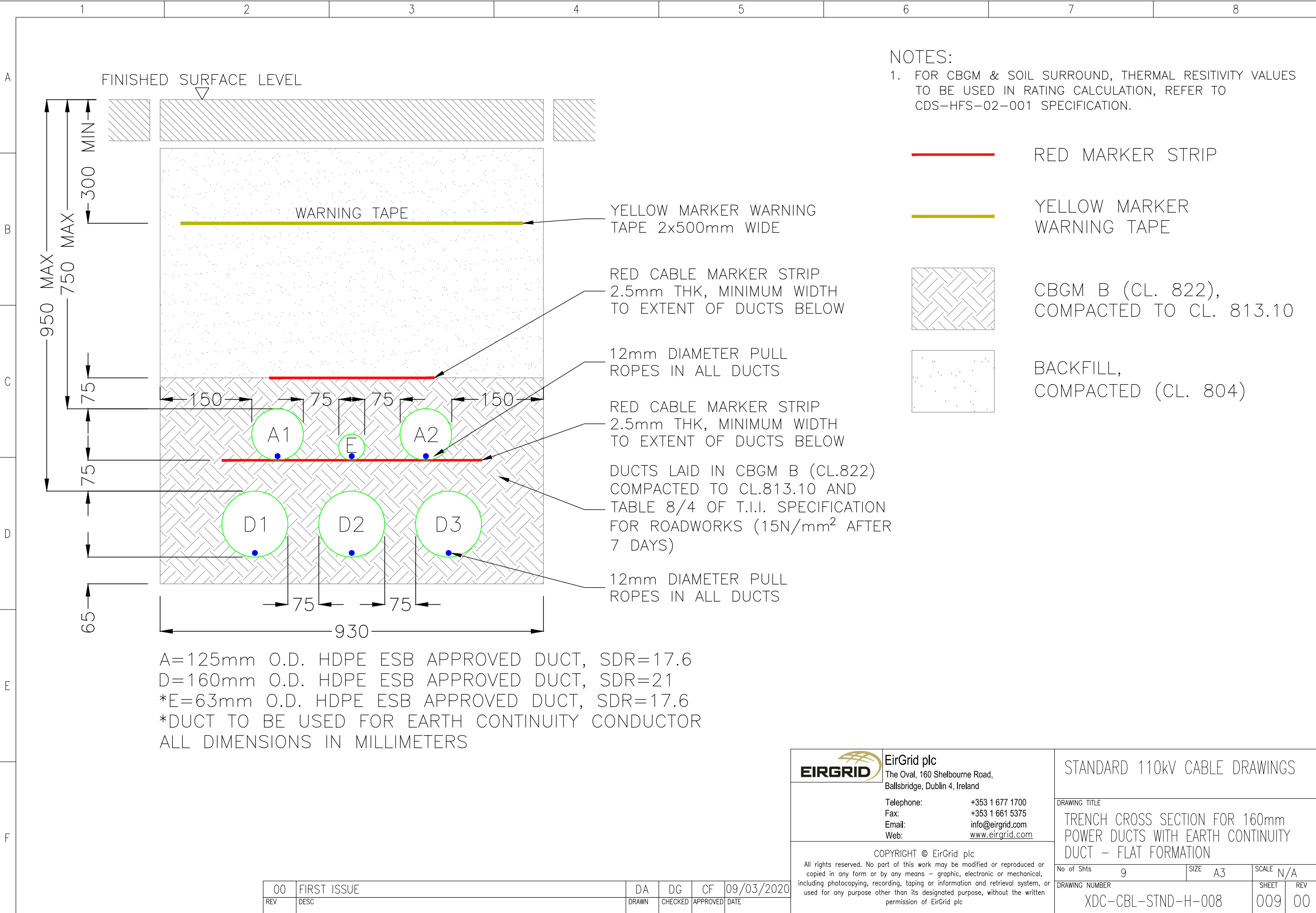
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DRAWING NUMBER

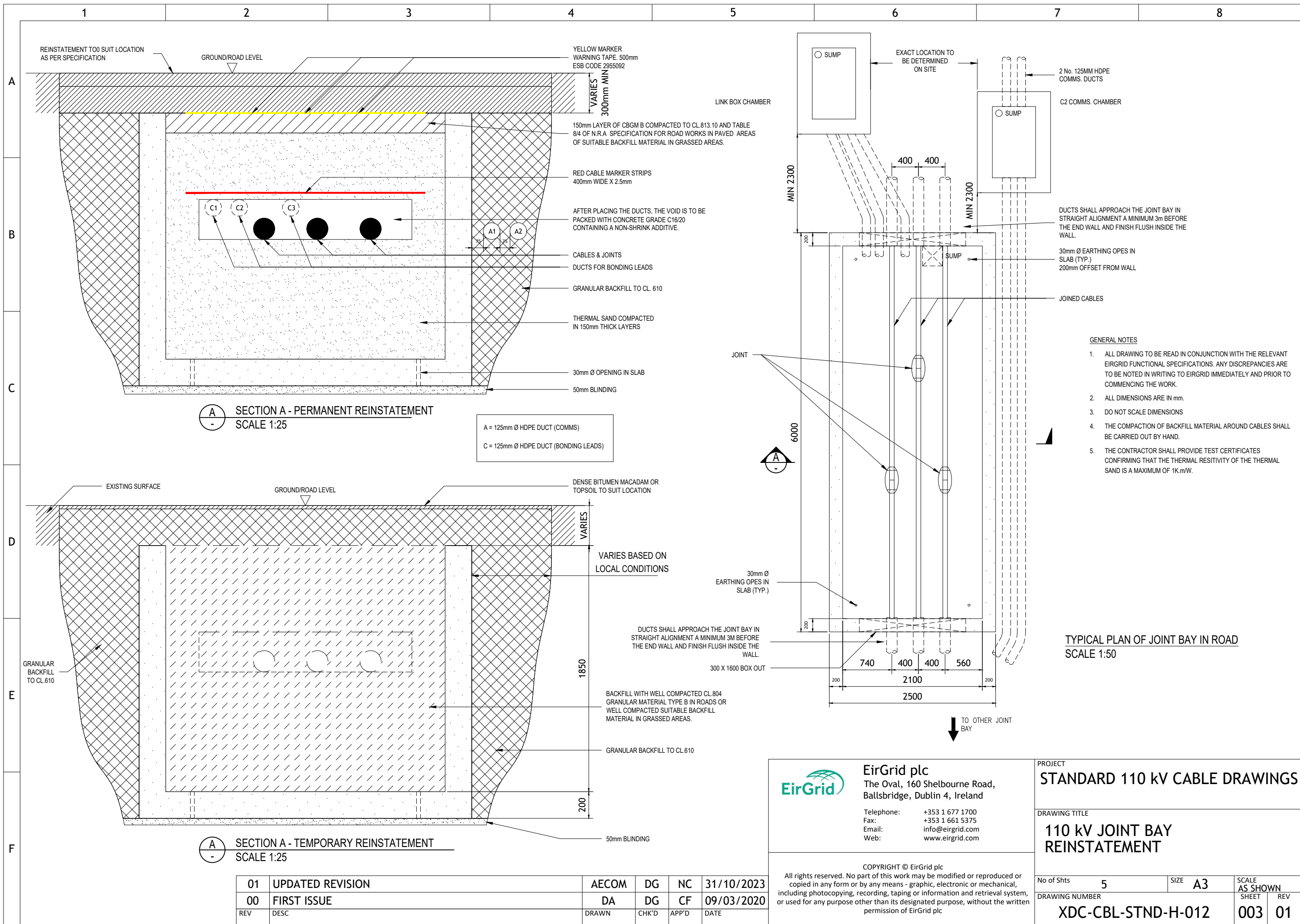
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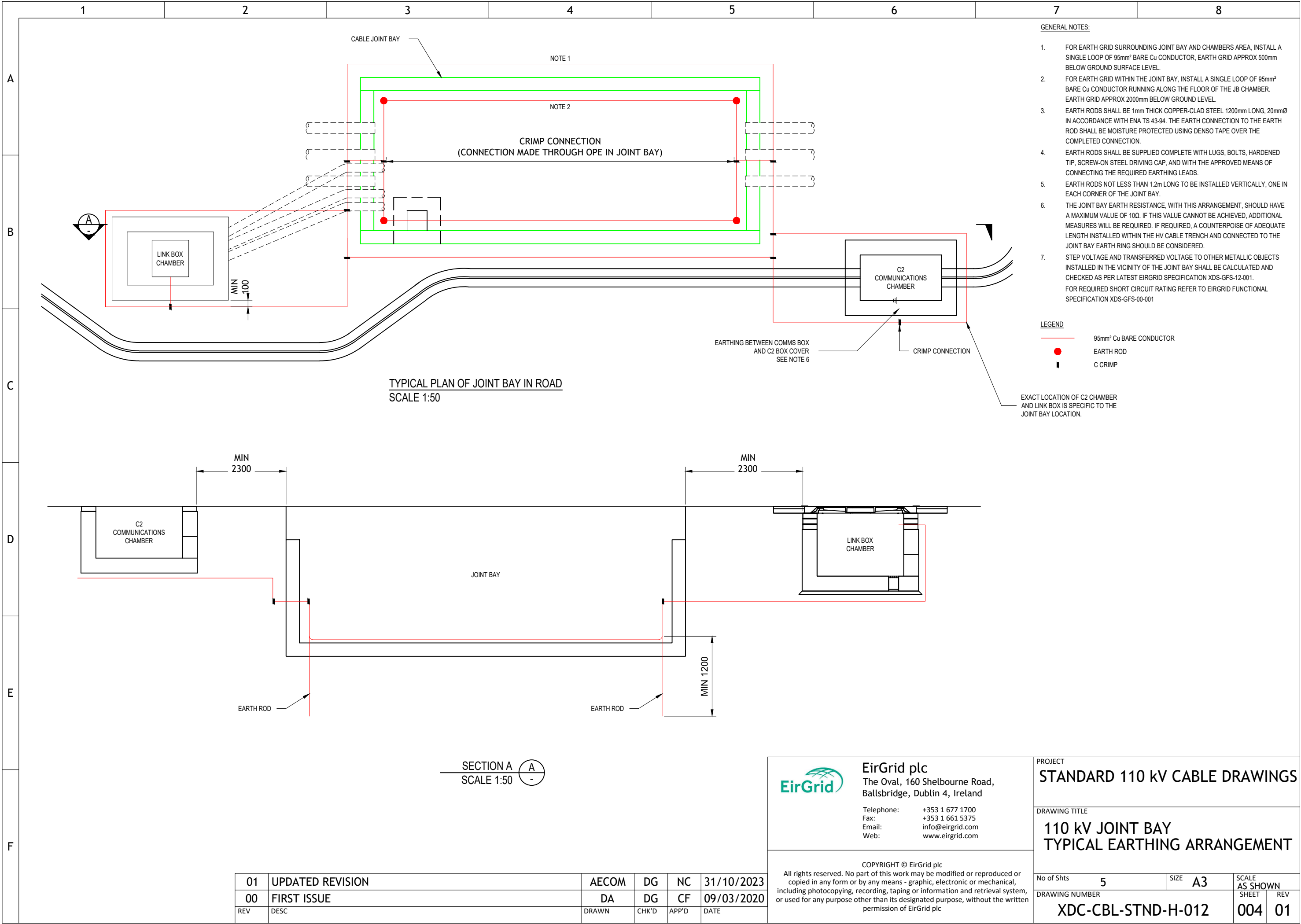
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REV00

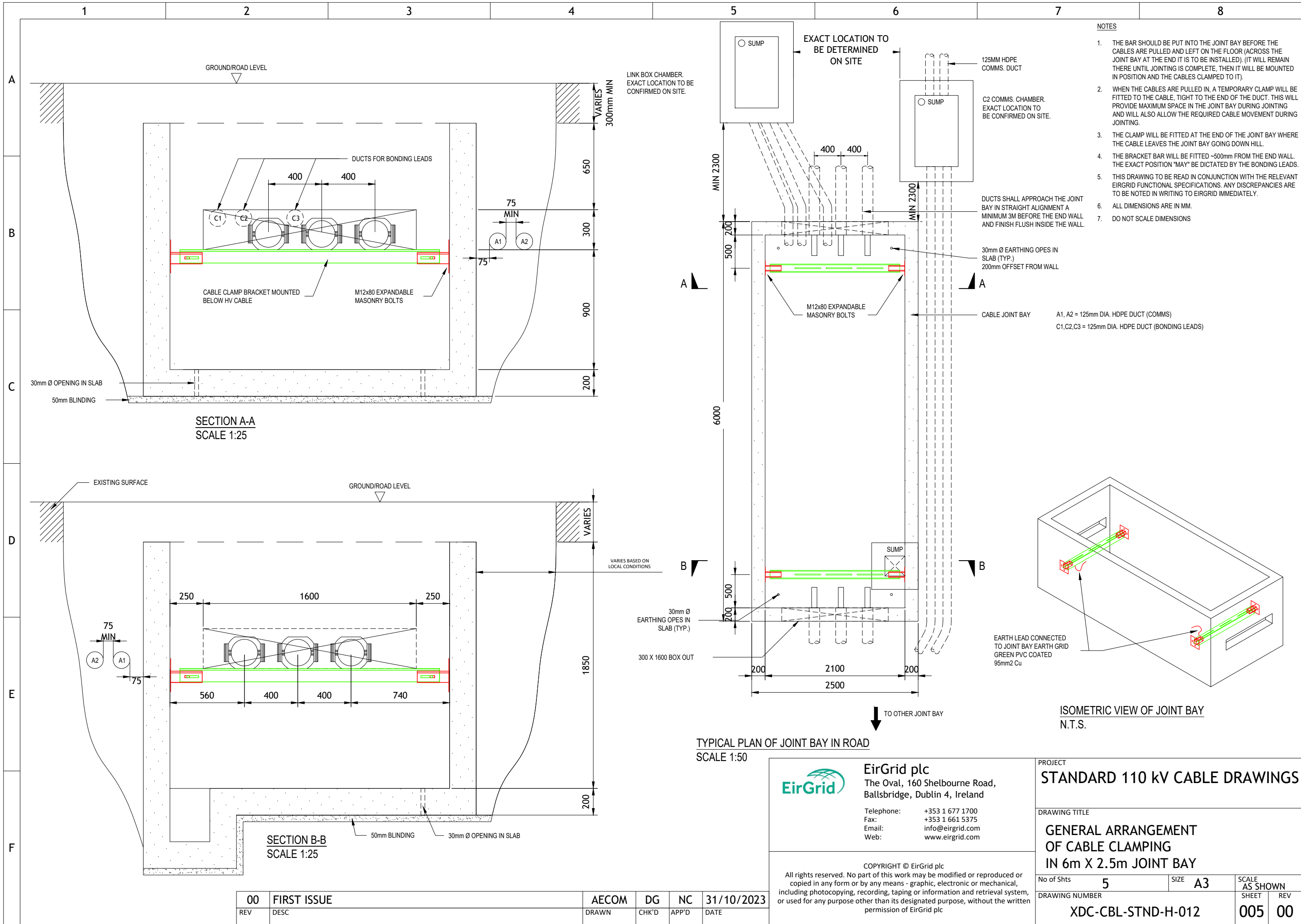


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A																																																		
B																																																		
C	STANDARD 110kV CABLE DRAWINGS 6mx2.5m JOINT BAY <table><thead><tr><th>DRAWING No.</th><th>SHEET No.</th><th>DESCRIPTION</th><th>REVISION No.</th></tr></thead><tbody><tr><td>XDC-CBL-STND-H-012</td><td>001</td><td>JOINT BAY INDEX SHEET</td><td>01</td></tr><tr><td>XDC-CBL-STND-H-012</td><td>002</td><td>JOINT BAY GENERAL ARRANGEMENT</td><td>01</td></tr><tr><td>XDC-CBL-STND-H-012</td><td>003</td><td>JOINT BAY REINSTATEMENT</td><td>01</td></tr><tr><td>XDC-CBL-STND-H-012</td><td>004</td><td>JOINT BAY EARTHING ARRANGEMENT</td><td>01</td></tr><tr><td>XDC-CBL-STND-H-012</td><td>005</td><td>JOINT BAY GENERAL ARRANGEMENT OF CABLE CLAMPING</td><td>00</td></tr></tbody></table>								DRAWING No.	SHEET No.	DESCRIPTION	REVISION No.	XDC-CBL-STND-H-012	001	JOINT BAY INDEX SHEET	01	XDC-CBL-STND-H-012	002	JOINT BAY GENERAL ARRANGEMENT	01	XDC-CBL-STND-H-012	003	JOINT BAY REINSTATEMENT	01	XDC-CBL-STND-H-012	004	JOINT BAY EARTHING ARRANGEMENT	01	XDC-CBL-STND-H-012	005	JOINT BAY GENERAL ARRANGEMENT OF CABLE CLAMPING	00																		
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XDC-CBL-STND-H-012	005	JOINT BAY GENERAL ARRANGEMENT OF CABLE CLAMPING	00																																															
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F	<table><tr><td>01</td><td>UPDATED REVISION</td><td>AECOM</td><td>DG</td><td>NC</td><td>31/10/2023</td></tr><tr><td>00</td><td>FIRST ISSUE</td><td>DA</td><td>DG</td><td>CF</td><td>09/03/2020</td></tr><tr><td>REV</td><td>DESC</td><td>DRAWN</td><td>CHK'D</td><td>APP'D</td><td>DATE</td></tr></table>  EirGrid plc The Oval, 160 Shelbourne Road, Ballsbridge, Dublin 4, Ireland Telephone: +353 1 677 1700 Fax: +353 1 661 5375 Email: info@eirgrid.com Web: www.eirgrid.com COPYRIGHT © EirGrid plc All rights reserved. No part of this work may be modified or reproduced or copied in any form or by any means - graphic, electronic or mechanical, including photocopying, recording, taping or information and retrieval system, or used for any purpose other than its designated purpose, without the written permission of EirGrid plc <table><tr><td colspan="2">PROJECT</td><td colspan="2">STANDARD 110 kV CABLE DRAWINGS</td></tr><tr><td colspan="4">DRAWING TITLE</td></tr><tr><td colspan="4">110 kV JOINT BAY INDEX SHEET</td></tr><tr><td>No of Shts</td><td>5</td><td>SIZE</td><td>A3</td></tr><tr><td colspan="2">DRAWING NUMBER</td><td>SHEET</td><td>REV</td></tr><tr><td colspan="2">XDC-CBL-STND-H-012</td><td>001</td><td>01</td></tr></table>								01	UPDATED REVISION	AECOM	DG	NC	31/10/2023	00	FIRST ISSUE	DA	DG	CF	09/03/2020	REV	DESC	DRAWN	CHK'D	APP'D	DATE	PROJECT		STANDARD 110 kV CABLE DRAWINGS		DRAWING TITLE				110 kV JOINT BAY INDEX SHEET				No of Shts	5	SIZE	A3	DRAWING NUMBER		SHEET	REV	XDC-CBL-STND-H-012		001	01
01	UPDATED REVISION	AECOM	DG	NC	31/10/2023																																													
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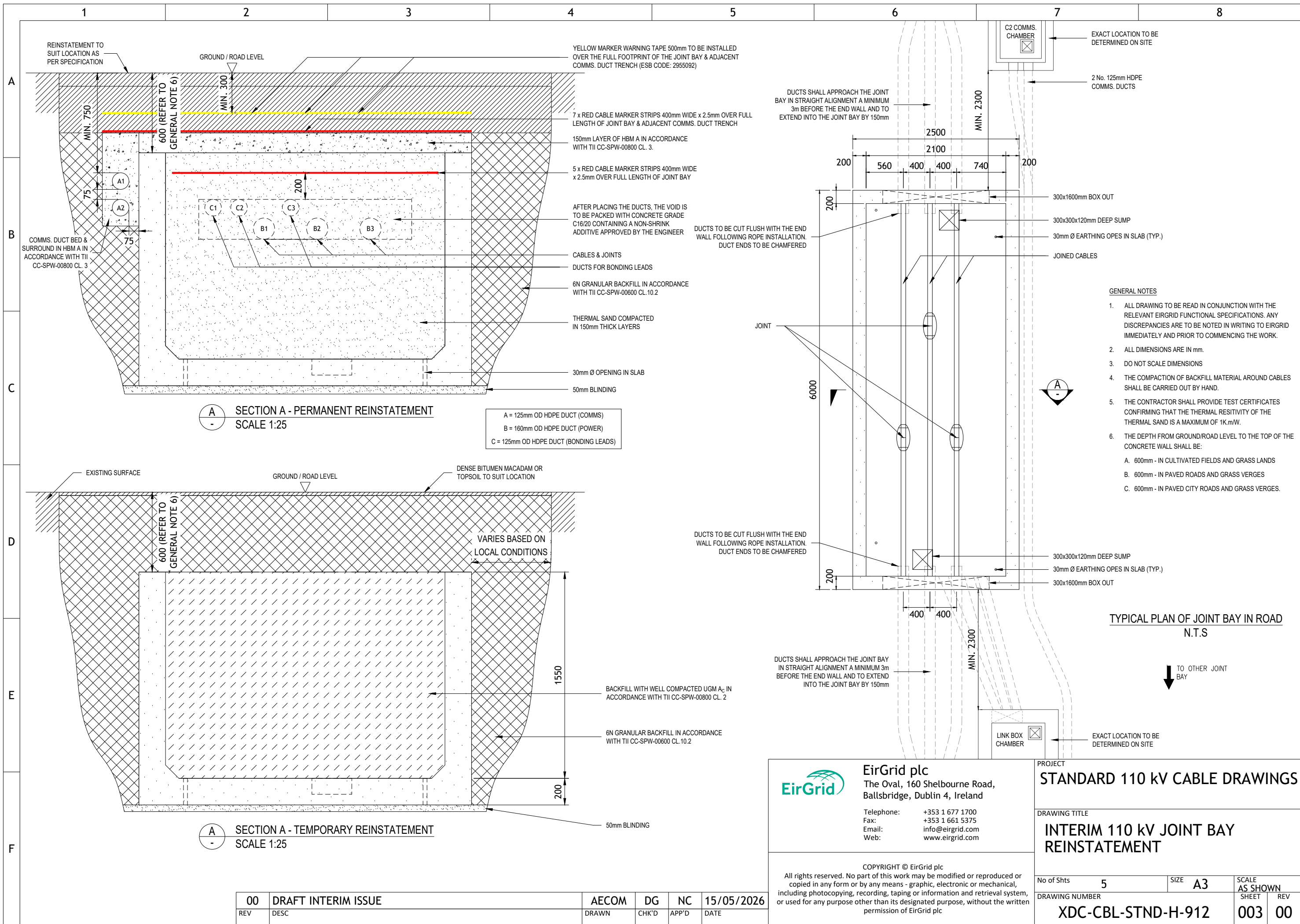




DRAWING IS NOT TO SCALE - IF IN DOUBT, ASK



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DRAWING IS NOT TO SCALE - IF IN DOUBT, ASK

