STANDARD 110kV CABLE DRAWINGS
STANDARD CROSS SECTIONS
125mm AND 160mm DUCTS

DRAWING No.	SHEET No.	DESCRIPTION	REVISION No.
XDC-CBL-STND-H-008	001	STANDARD CROSS SECTIONS INDEX SHEET	02
XDC-CBL-STND-H-008	002	TRENCH CROSS SECTION FOR 125mm POWER DUCTS IN TREFOIL FORMATION	02
XDC-CBL-STND-H-008	003	TRENCH CROSS SECTION FOR 160mm POWER DUCTS IN TREFOIL FORMATION	02
XDC-CBL-STND-H-008	004	TRENCH CROSS SECTION FOR 125mm POWER DUCTS IN FLAT FORMATION	02
XDC-CBL-STND-H-008	005	TRENCH CROSS SECTION FOR 160mm POWER DUCTS IN FLAT FORMATION	02
XDC-CBL-STND-H-008	006	TRENCH CROSS SECTION FOR 125mm POWER DUCTS WITH EARTH CONTINUITY DUCT - TREFOIL FORMATION	02
XDC-CBL-STND-H-008	007	TRENCH CROSS SECTION FOR 160mm POWER DUCTS WITH EARTH CONTINUITY DUCT - TREFOIL FORMATION	02
XDC-CBL-STND-H-008	008	TRENCH CROSS SECTION FOR 125mm POWER DUCTS WITH EARTH CONTINUITY DUCT - FLAT FORMATION	02
XDC-CBL-STND-H-008	009	TRENCH CROSS SECTION FOR 160mm POWER DUCTS WITH EARTH CONTINUITY DUCT - FLAT FORMATION	02

DRAWING IS NOT TO SCALE - IF IN DOUBT, ASK

REV	DESC	DRAWN	CHK'D	APP'D	DATE
02	UPDATED TII REFERENCE FOR HBM	AS	DG	NC	12/10/2026
01	DEPTH OF TRENCHES REVISED	AECOM	DG	NC	17/08/2026
00	FIRST ISSUE	DA	DG	CF	09/03/2020

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

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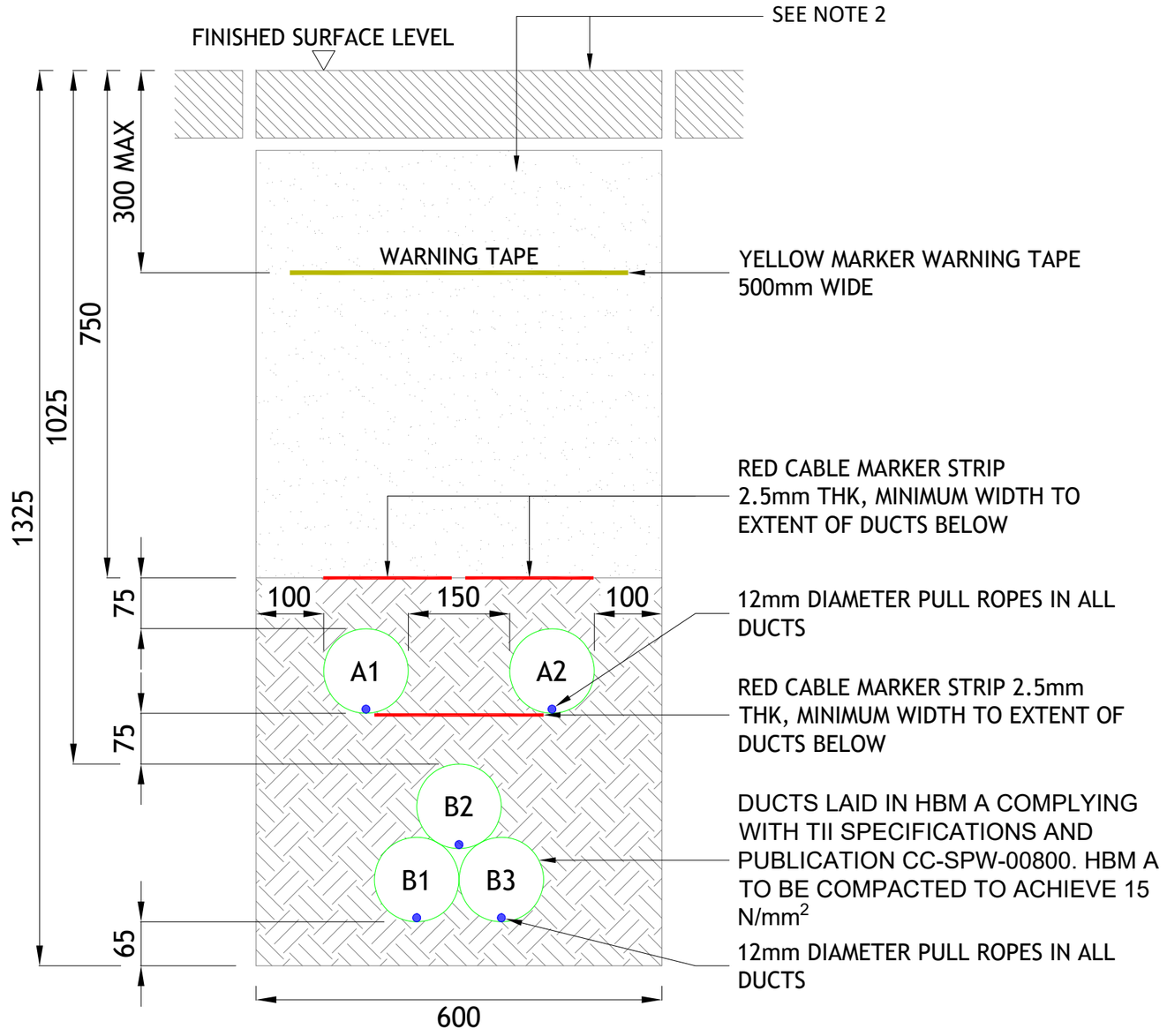
PROJECT
STANDARD 110kV CABLE DRAWINGS

DRAWING TITLE
STANDARD CROSS SECTIONS
INDEX SHEET

No of Shts 9 | SIZE A3 | SCALE N/A

DRAWING NUMBER
XDC-CBL-STND-H-008

SHEET 001 | REV 02



NOTE 1:
FOR HBM & SOIL SURROUND, THERMAL RESITIVITY VALUES TO BE USED IN RATING CALCULATION, REFER TO CDS-GFS-01-001 SPECIFICATION.

NOTE 2:
BACKFILL AND REINSTATEMENT TO BE IN ACCORDANCE WITH THE CURRENT VERSION OF DEPARTMENT OF TRANSPORT PUBLICATIONS 'GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS' AND 'INTERIM GUIDANCE TO ROAD AUTHORITIES REGARDING THE PROPOSED PLACEMENT OF MEDIUM OR HIGH VOLTAGE ELECTRICITY ASSETS, INCLUDING DUCTS, CABLES, AND ASSOCIATED INFRASTRUCTURE UNDER PUBLIC ROADS'

RED MARKER STRIP

YELLOW MARKER WARNING TAPE

HBM A COMPLIES WITH TII SPECIFICATIONS AND PUBLICATION CC-SPW-00800. HBM A TO BE COMPACTED TO ACHIEVE 15 N/mm^2

BACKFILL MATERIAL AND LAYERS TO BE IN ACCORDANCE WITH THE CURRENT VERSION OF DEPARTMENT OF TRANSPORT PUBLICATIONS 'GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS' AND 'INTERIM GUIDANCE TO ROAD AUTHORITIES REGARDING THE PROPOSED PLACEMENT OF MEDIUM OR HIGH VOLTAGE ELECTRICITY ASSETS, INCLUDING DUCTS, CABLES, AND ASSOCIATED INFRASTRUCTURE UNDER PUBLIC ROADS'

A=125mm O.D. HDPE ESB APPROVED DUCT, SDR=17.6
B=125mm O.D. HDPE ESB APPROVED DUCT, SDR=17.6
ALL DIMENSIONS IN MILLIMETERS

REV	DESC	DRAWN	CHK'D	APP'D	DATE
02	UPDATED TII REFERENCE FOR HBM	AS	DG	NC	12/10/2026
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EirGrid plc
The Oval, 160 Shelbourne Road,
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Telephone: +353 1 677 1700
Fax: +353 1 661 5375
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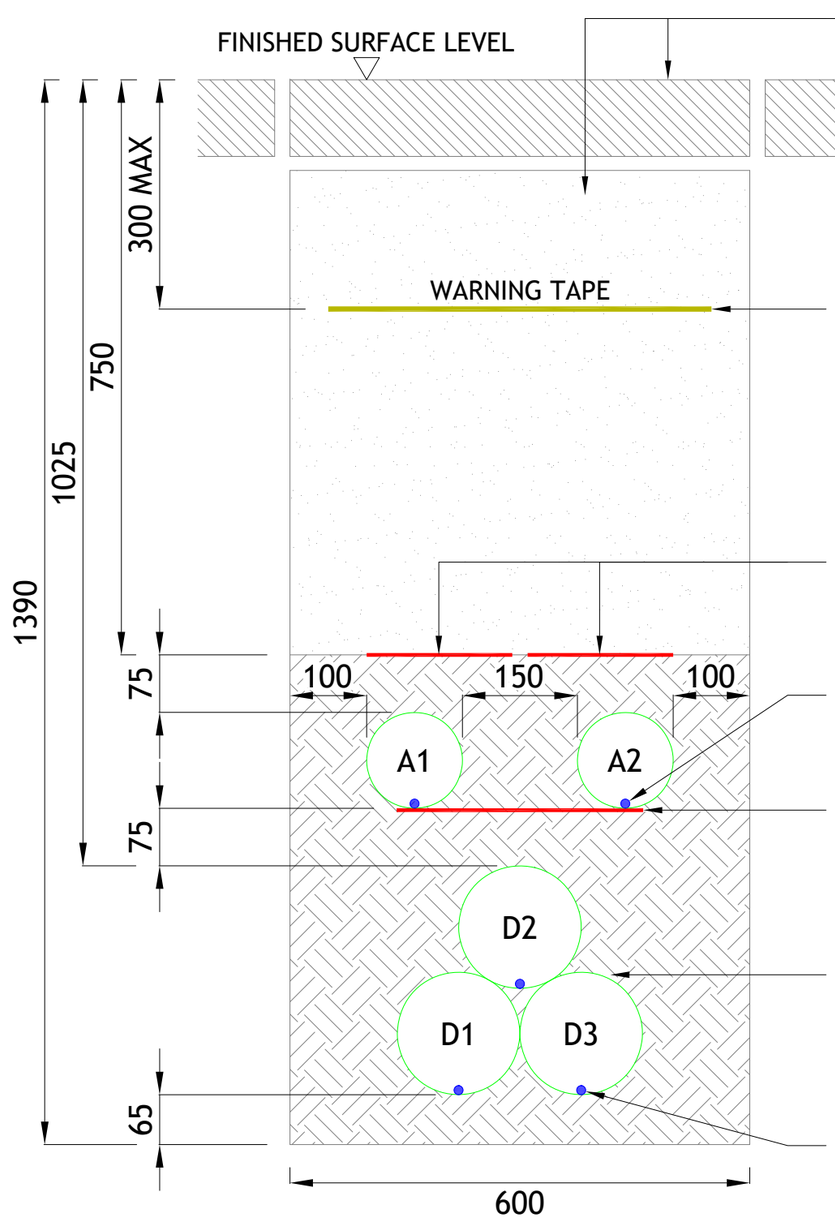
PROJECT
STANDARD 110kV CABLE DRAWINGS

DRAWING TITLE
TRENCH CROSS SECTION FOR
125mm POWER DUCTS
IN TREFOIL FORMATION

No of Shts 9 | SIZE A3 | SCALE N/A

DRAWING NUMBER XDC-CBL-STND-H-008 | SHEET 002 | REV 02

DRAWING IS NOT TO SCALE - IF IN DOUBT, ASK



NOTE 1:
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NOTE 2:
BACKFILL AND REINSTATEMENT TO BE IN ACCORDANCE WITH THE CURRENT VERSION OF DEPARTMENT OF TRANSPORT PUBLICATIONS 'GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS' AND 'INTERIM GUIDANCE TO ROAD AUTHORITIES REGARDING THE PROPOSED PLACEMENT OF MEDIUM OR HIGH VOLTAGE ELECTRICITY ASSETS, INCLUDING DUCTS, CABLES, AND ASSOCIATED INFRASTRUCTURE UNDER PUBLIC ROADS'

RED MARKER STRIP

YELLOW MARKER WARNING TAPE

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A=125mm O.D. HDPE ESB APPROVED DUCT, SDR=17.6
D=160mm O.D. HDPE ESB APPROVED DUCT, SDR=21
ALL DIMENSIONS IN MILLIMETERS

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EirGrid plc
The Oval, 160 Shelbourne Road,
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Telephone: +353 1 677 1700
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PROJECT
STANDARD 110kV CABLE DRAWINGS

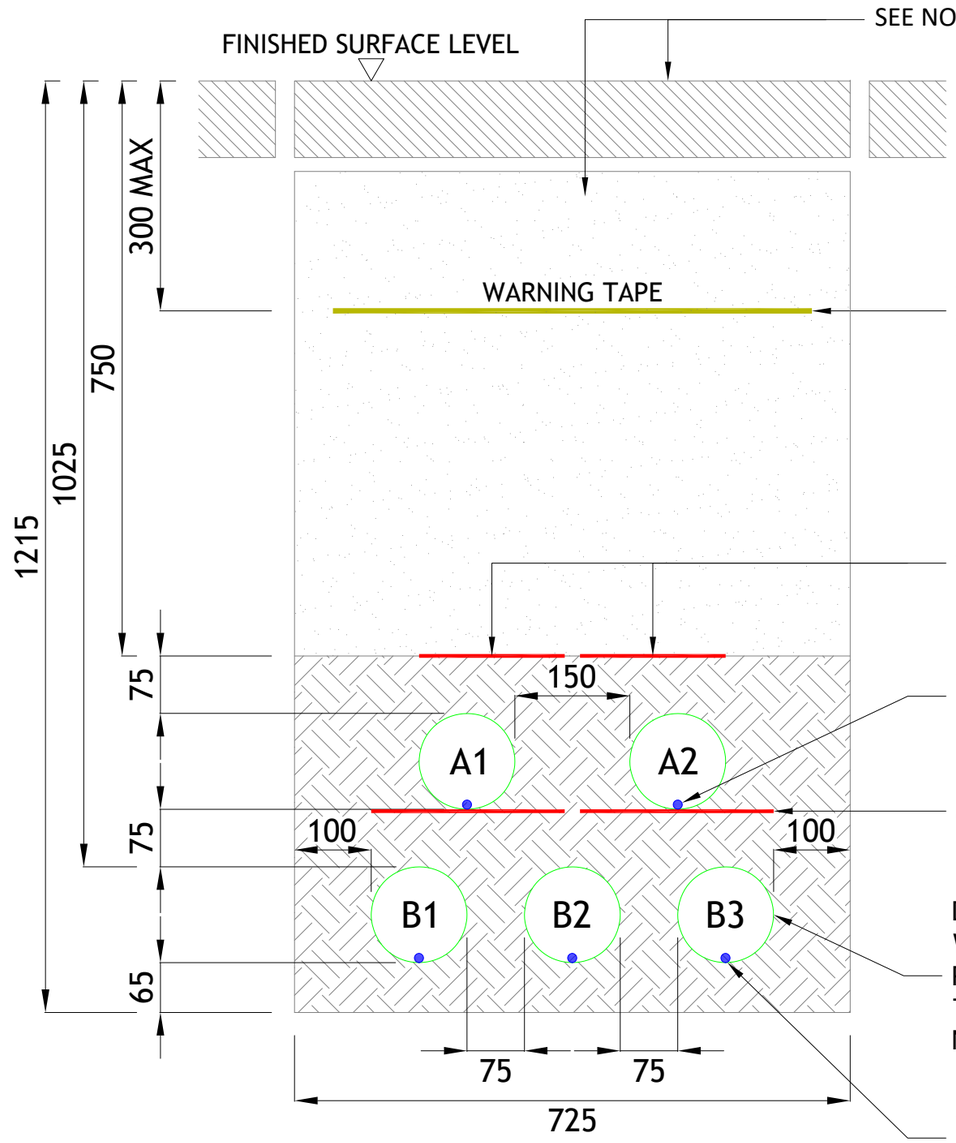
DRAWING TITLE
TRENCH CROSS SECTION FOR
160mm POWER DUCTS
IN TREFOIL FORMATION

No of Shts 9 | SIZE A3 | SCALE N/A

DRAWING NUMBER
XDC-CBL-STND-H-008

SHEET 003 | REV 02

DRAWING IS NOT TO SCALE - IF IN DOUBT, ASK



NOTE 1:
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NOTE 2:
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RED MARKER STRIP

YELLOW MARKER WARNING TAPE

HBM A COMPLIES WITH TII SPECIFICATIONS AND PUBLICATION CC-SPW-00800. HBM A TO BE COMPACTED TO ACHIEVE 15 N/mm^2

BACKFILL MATERIAL AND LAYERS TO BE IN ACCORDANCE WITH THE CURRENT VERSION OF DEPARTMENT OF TRANSPORT PUBLICATIONS 'GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS' AND 'INTERIM GUIDANCE TO ROAD AUTHORITIES REGARDING THE PROPOSED PLACEMENT OF MEDIUM OR HIGH VOLTAGE ELECTRICITY ASSETS, INCLUDING DUCTS, CABLES, AND ASSOCIATED INFRASTRUCTURE UNDER PUBLIC ROADS'

A=125mm O.D. HDPE ESB APPROVED DUCT, SDR=17.6
B=125mm O.D. HDPE ESB APPROVED DUCT, SDR=17.6
ALL DIMENSIONS IN MILLIMETERS

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EirGrid plc
The Oval, 160 Shelbourne Road,
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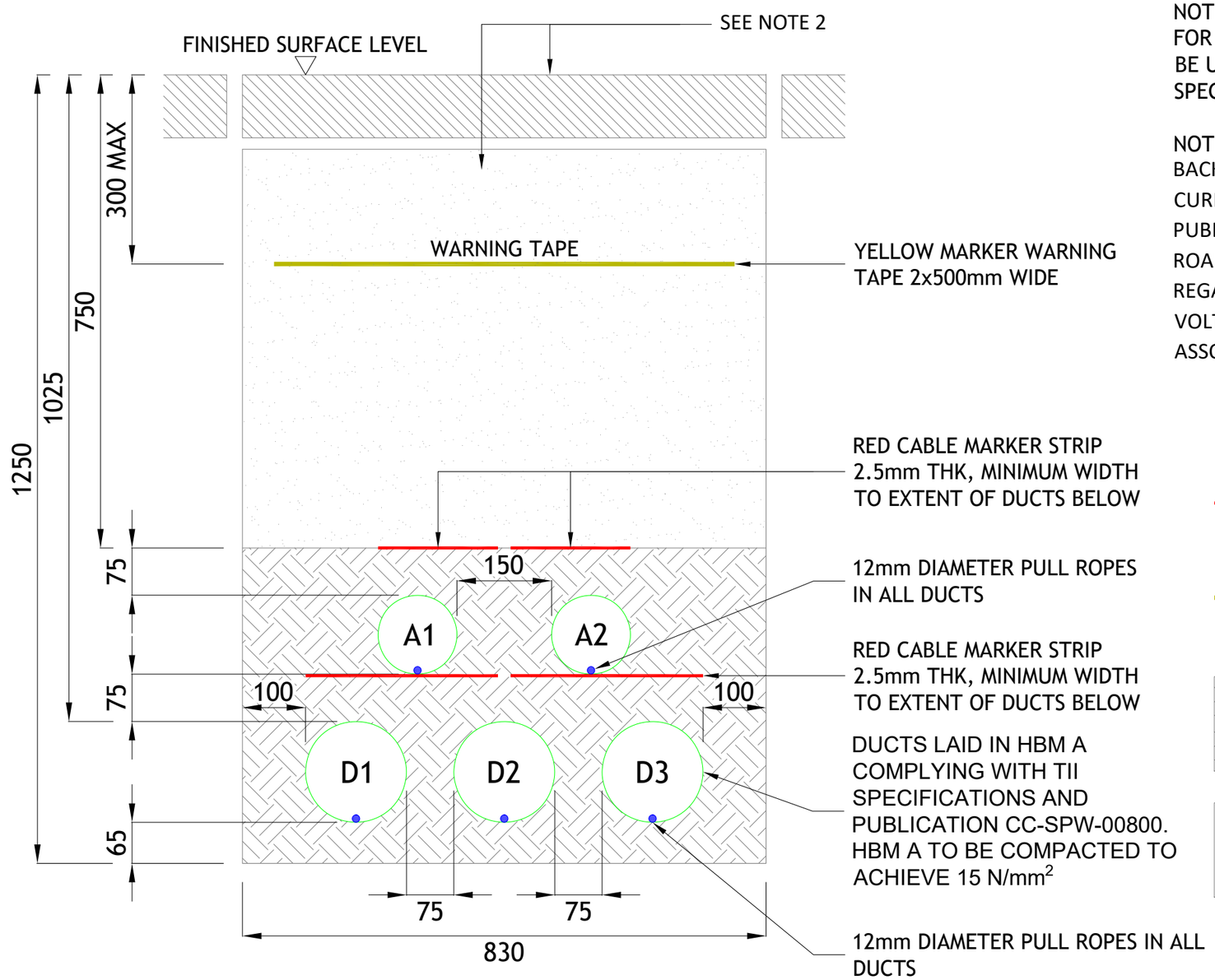
PROJECT
STANDARD 110kV CABLE DRAWINGS

DRAWING TITLE
TRENCH CROSS SECTION FOR 125mm POWER DUCTS IN FLAT FORMATION

No of Shts 9 | SIZE A3 | SCALE N/A

DRAWING NUMBER XDC-CBL-STND-H-008 | SHEET 004 | REV 02

DRAWING IS NOT TO SCALE - IF IN DOUBT, ASK



A=125mm O.D. HDPE ESB APPROVED DUCT, SDR=17.6
D=160mm O.D. HDPE ESB APPROVED DUCT, SDR=21
ALL DIMENSIONS IN MILLIMETERS

NOTE 1:
FOR HBM & SOIL SURROUND, THERMAL RESITIVITY VALUES TO BE USED IN RATING CALCULATION, REFER TO CDS-GFS-01-001 SPECIFICATION.

NOTE 2:
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RED MARKER STRIP

YELLOW MARKER WARNING TAPE

HBM A COMPLIES WITH TII SPECIFICATIONS AND PUBLICATION CC-SPW-00800. HBM A TO BE COMPACTED TO ACHIEVE 15 N/mm^2

BACKFILL MATERIAL AND LAYERS TO BE IN ACCORDANCE WITH THE CURRENT VERSION OF DEPARTMENT OF TRANSPORT PUBLICATIONS 'GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS' AND 'INTERIM GUIDANCE TO ROAD AUTHORITIES REGARDING THE PROPOSED PLACEMENT OF MEDIUM OR HIGH VOLTAGE ELECTRICITY ASSETS, INCLUDING DUCTS, CABLES, AND ASSOCIATED INFRASTRUCTURE UNDER PUBLIC ROADS'

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EirGrid plc
The Oval, 160 Shelbourne Road,
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Telephone: +353 1 677 1700
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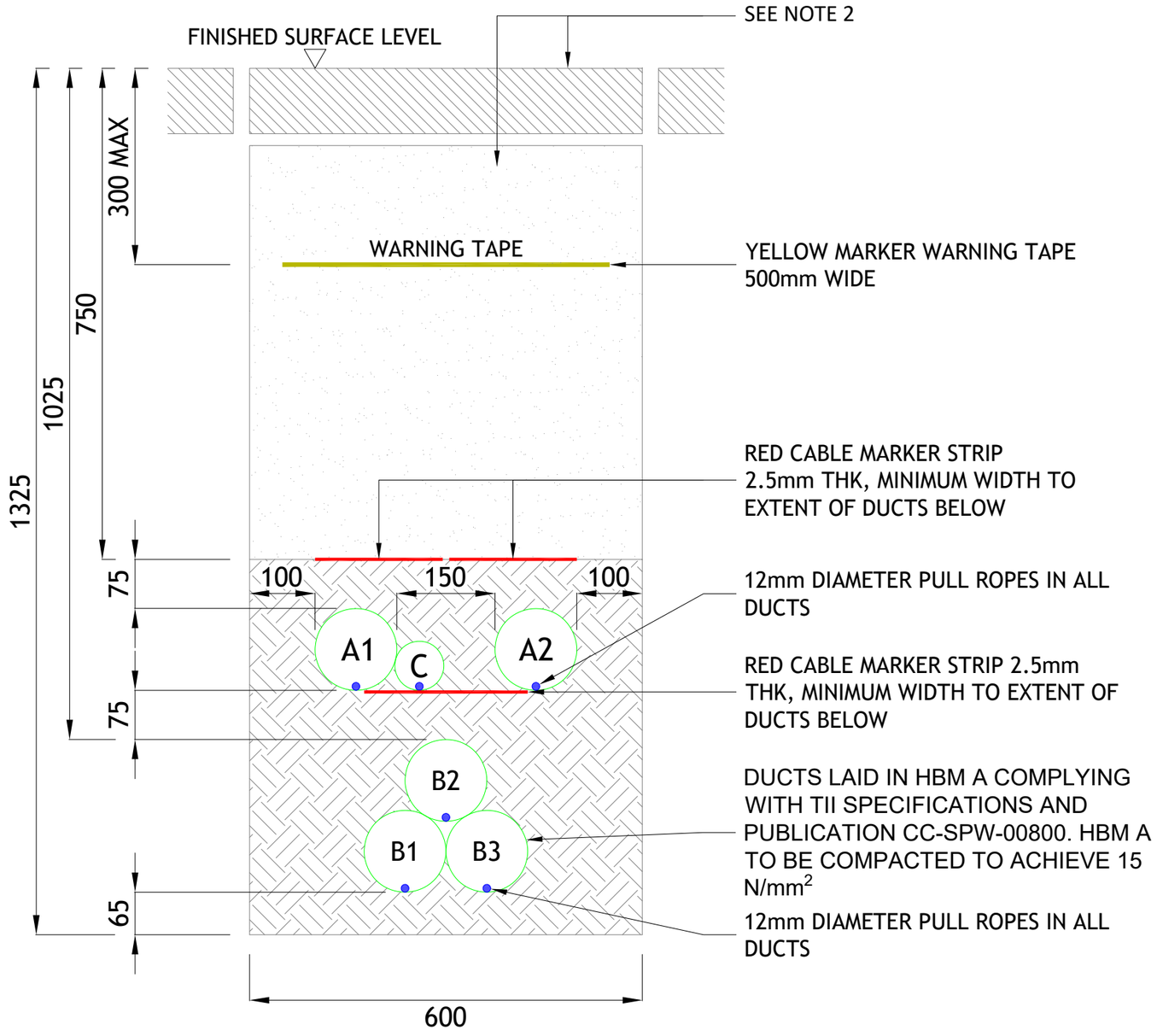
PROJECT
STANDARD 110kV CABLE DRAWINGS

DRAWING TITLE
TRENCH CROSS SECTION FOR 160mm POWER CIRCUITS IN FLAT FORMATION

No of Shts 9 | SIZE A3 | SCALE N/A

DRAWING NUMBER XDC-CBL-STND-H-008 | SHEET 005 | REV 02

DRAWING IS NOT TO SCALE - IF IN DOUBT, ASK



NOTE 1:
FOR HBM & SOIL SURROUND, THERMAL RESITIVITY VALUES TO BE USED IN RATING CALCULATION, REFER TO CDS-GFS-01-001 SPECIFICATION.

NOTE 2:
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RED MARKER STRIP

YELLOW MARKER WARNING TAPE

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A=125mm O.D. HDPE ESB APPROVED DUCT, SDR=17.6
B=125mm O.D. HDPE ESB APPROVED DUCT, SDR=17.6
C=75mm O.D. HDPE ESB APPROVED DUCT, SDR=17.6
ALL DIMENSIONS IN MILLIMETERS

REV	DESC	DRAWN	CHK'D	APP'D	DATE
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EirGrid plc
The Oval, 160 Shelbourne Road,
Ballsbridge, Dublin 4, Ireland
Telephone: +353 1 677 1700
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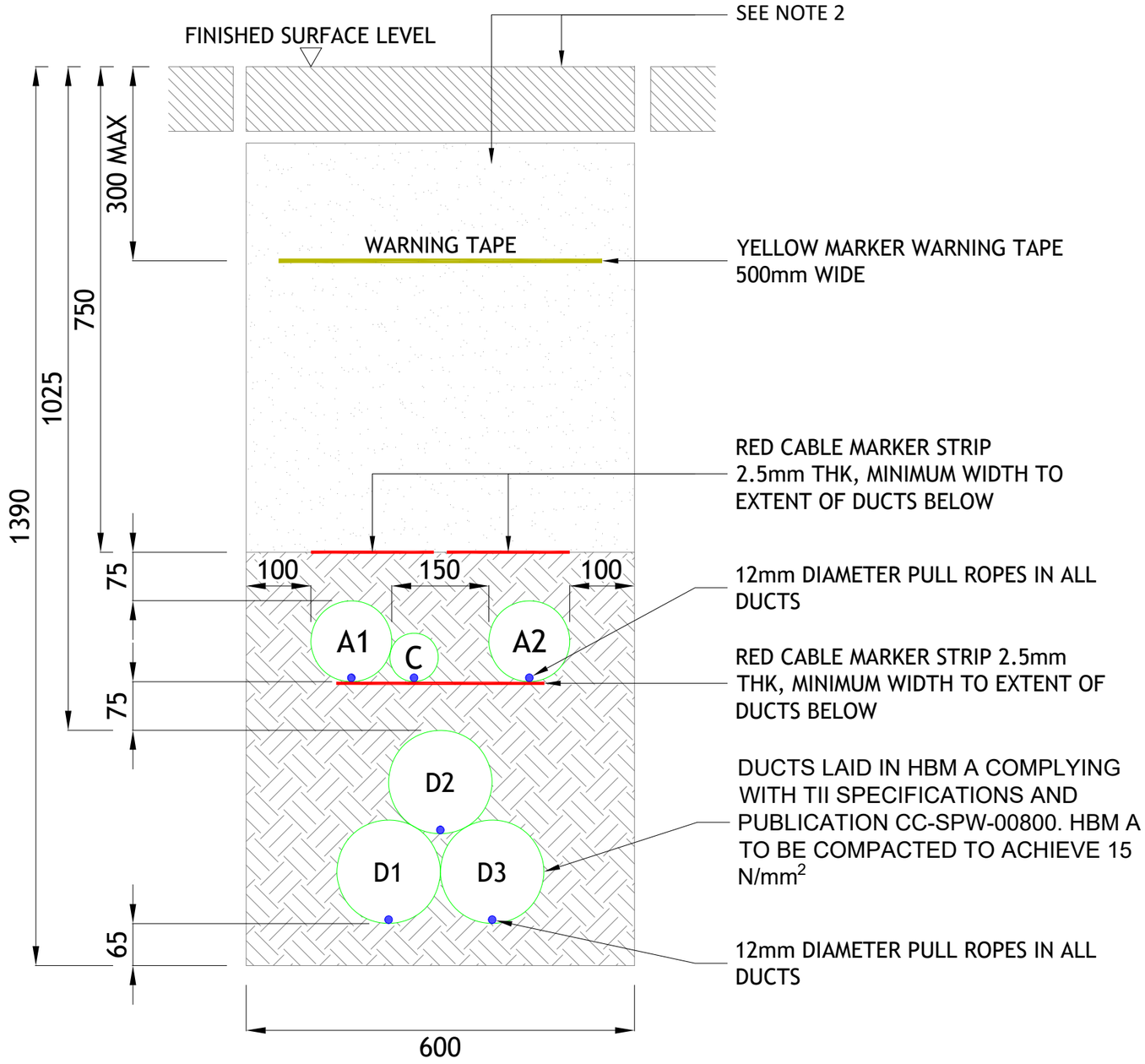
PROJECT
STANDARD 110kV CABLE DRAWINGS

DRAWING TITLE
TRENCH CROSS SECTION FOR 125mm POWER DUCTS WITH EARTH CONTINUITY DUCT - TREFOIL FORMATION

No of Shts 9 | SIZE A3 | SCALE N/A

DRAWING NUMBER XDC-CBL-STND-H-008 | SHEET 006 | REV 02

DRAWING IS NOT TO SCALE - IF IN DOUBT, ASK



NOTE 1:
FOR HBM & SOIL SURROUND, THERMAL RESITIVITY VALUES TO BE USED IN RATING CALCULATION, REFER TO CDS-GFS-01-001 SPECIFICATION.

NOTE 2:
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RED MARKER STRIP

YELLOW MARKER WARNING TAPE

HBM A COMPLIES WITH TII SPECIFICATIONS AND PUBLICATION CC-SPW-00800. HBM A TO BE COMPACTED TO ACHIEVE 15 N/mm^2

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A=125mm O.D. HDPE ESB APPROVED DUCT, SDR=17.6
D=160mm O.D. HDPE ESB APPROVED DUCT, SDR=21
C=75mm O.D. HDPE ESB APPROVED DUCT, SDR=17.6
ALL DIMENSIONS IN MILLIMETERS

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Telephone: +353 1 677 1700
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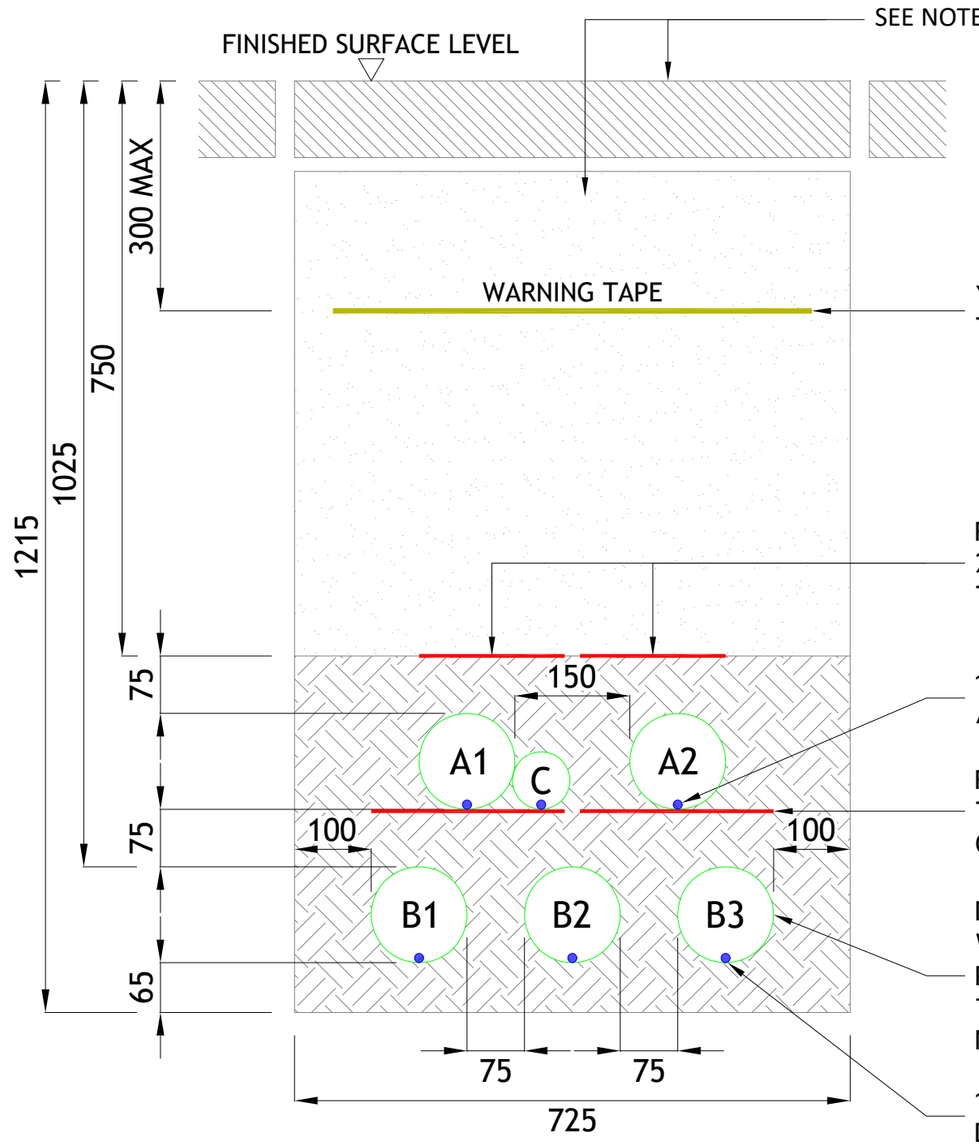
PROJECT
STANDARD 110kV CABLE DRAWINGS

DRAWING TITLE
TRENCH CROSS SECTION FOR 160mm POWER DUCTS WITH EARTH CONTINUITY DUCT - TREFOIL FORMATION

No of Shts 9 | SIZE A3 | SCALE N/A

DRAWING NUMBER XDC-CBL-STND-H-008 | SHEET 007 | REV 02

DRAWING IS NOT TO SCALE - IF IN DOUBT, ASK



A=125mm O.D. HDPE ESB APPROVED DUCT, SDR=17.6
B=125mm O.D. HDPE ESB APPROVED DUCT, SDR=17.6
C=75mm O.D. HDPE ESB APPROVED DUCT, SDR=17.6
ALL DIMENSIONS IN MILLIMETERS

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RED MARKER STRIP

YELLOW MARKER WARNING TAPE

HBM A COMPLIES WITH TII SPECIFICATIONS AND PUBLICATION CC-SPW-00800. HBM A TO BE COMPACTED TO ACHIEVE 15 N/mm^2

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EirGrid plc
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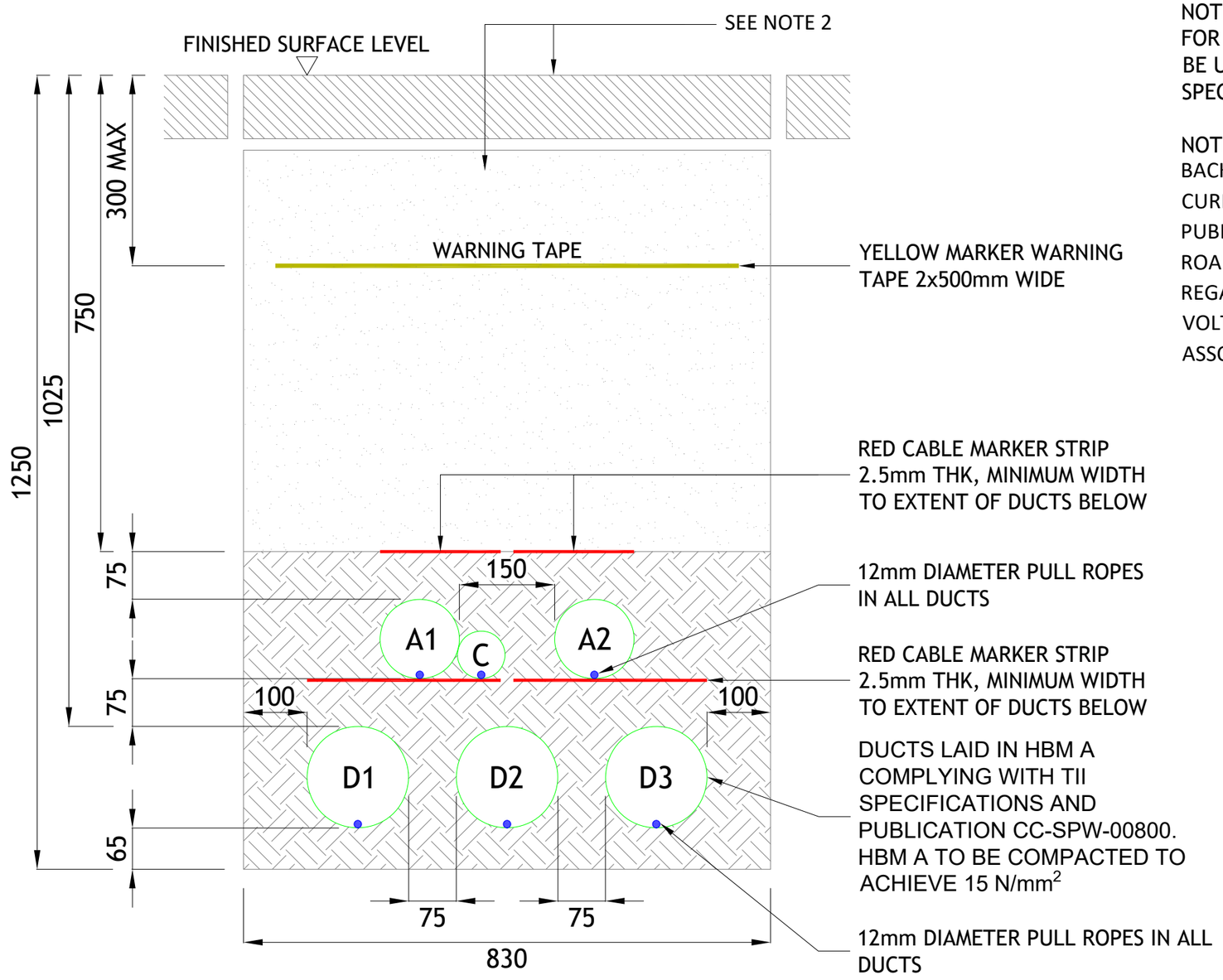
PROJECT
STANDARD 110kV CABLE DRAWINGS

DRAWING TITLE
TRENCH CROSS SECTION FOR 125mm POWER DUCTS WITH EARTH CONTINUITY DUCT - FLAT FORMATION

No of Shts 9 | SIZE A3 | SCALE N/A

DRAWING NUMBER XDC-CBL-STND-H-008 | SHEET 008 | REV 02

DRAWING IS NOT TO SCALE - IF IN DOUBT, ASK



A=125mm O.D. HDPE ESB APPROVED DUCT, SDR=17.6
D=160mm O.D. HDPE ESB APPROVED DUCT, SDR=21
C=75mm O.D. HDPE ESB APPROVED DUCT, SDR=17.6
ALL DIMENSIONS IN MILLIMETERS

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RED MARKER STRIP

YELLOW MARKER WARNING TAPE

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EirGrid plc
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PROJECT
STANDARD 110kV CABLE DRAWINGS

DRAWING TITLE
TRENCH CROSS SECTION FOR 160mm POWER DUCTS WITH EARTH CONTINUITY DUCT - FLAT FORMATION

No of Shts 9 | SIZE A3 | SCALE N/A

DRAWING NUMBER XDC-CBL-STND-H-008 | SHEET 009 | REV 01

DRAWING IS NOT TO SCALE - IF IN DOUBT, ASK