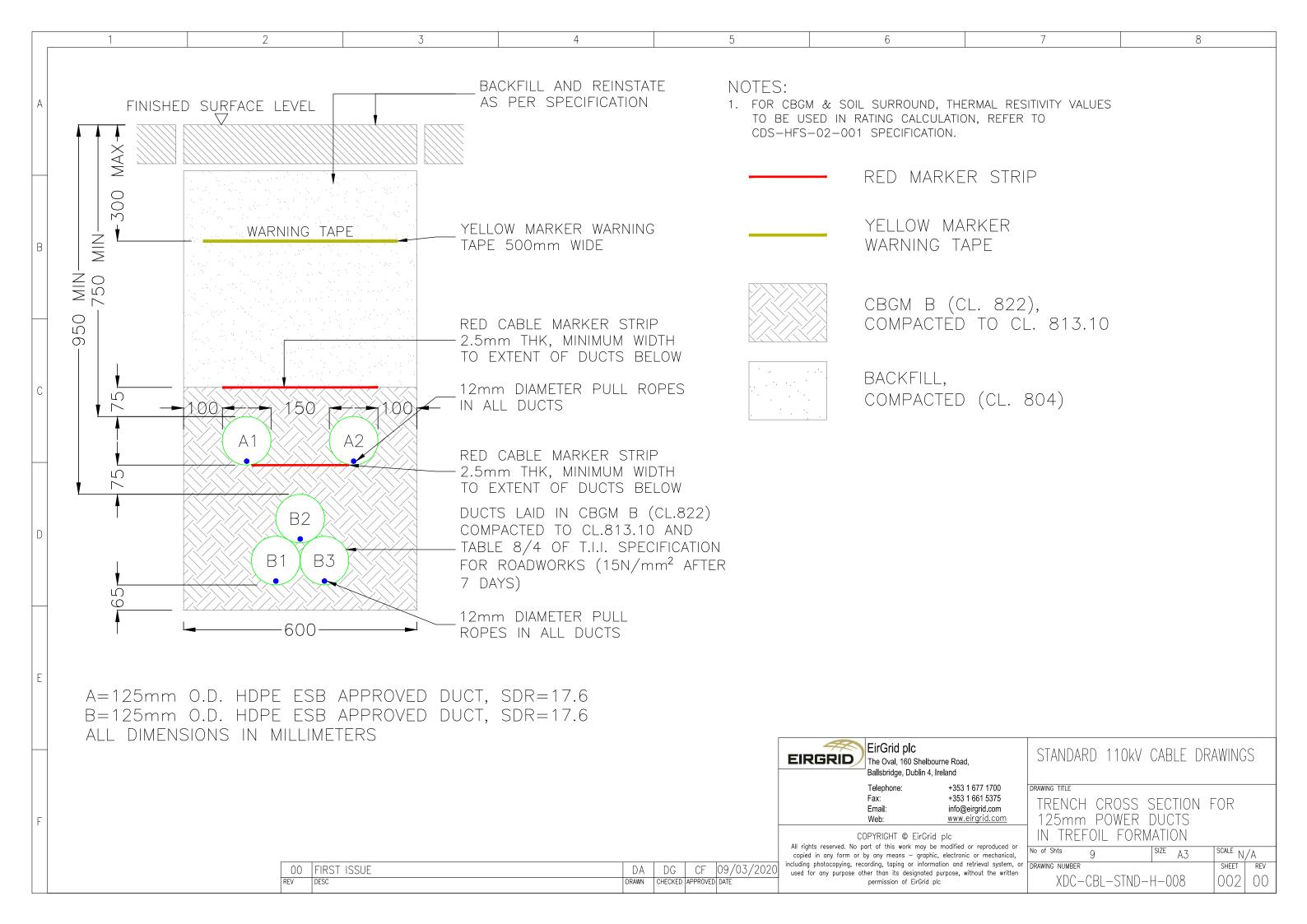


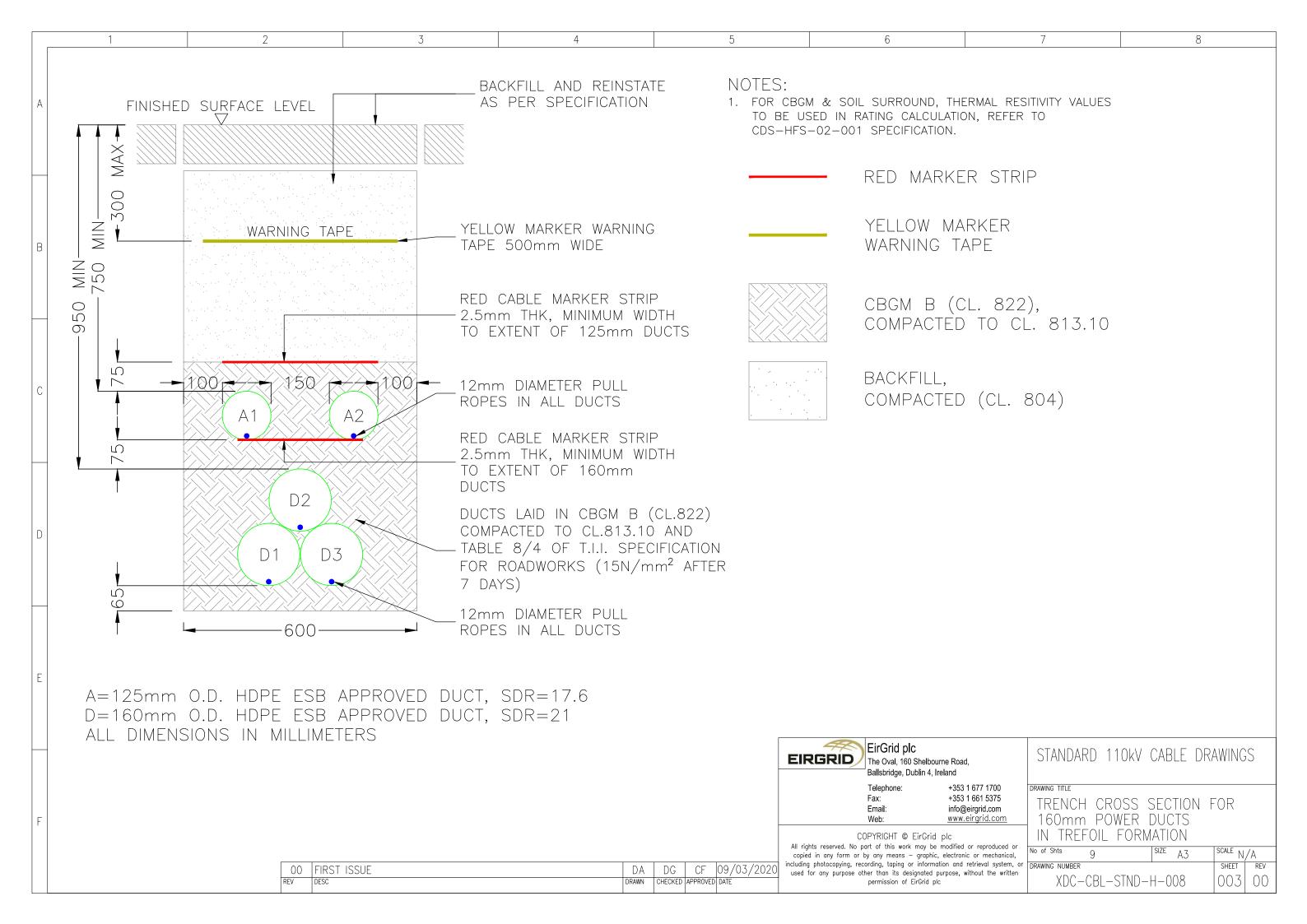
NOTES: 1. BASE COURSE AND WEARING COURSE TO BE IN ACCORDANCE WITH TII (NRA) SPECIFICATION FOR ROADWORKS SERIES 900. 2. ALL PRODUCTS AND MATERIALS TO BE UTILISED DURING CONSTRUCTION TO COMPLY WITH EIRGRID FUNCTIONAL SPECIFICATION, TII SPECIFICATION FOR ROAD WORKS AND ALL RELEVANT IRISH (EUROPEAN) AND BRITISH STANDARDS. 3. DRAWING IS INDICATIVE ONLY, TO BE USED TO AID IN THE DESIGN OF THE RELEVANT INFRASTRUCTURE. 4. FOR DETAILS OF CABLE TRENCH LAYOUT, REFER TO XDC-CBL-STND-H-008. 5. THIS IS A TYPICAL CROSS SECTION DETAIL FOR SHALLOW PEAT INSTALLATION. SPECIFIC CONSTRUCTION DESIGN SHALL COMPLY WITH CDS-HFS-01-001. BASE COURSE WITH WEARING COURSE-SERVICE CORRIDOR -DRAINAGE DITCH EXISTING GROUND NEW FLOATING ROAD FOR DETAILS REFER TO STANDARD 125mm DIAMETER -FXISTING GROUND 3m MINIMUM WIDTH CABLE CROSS SECTION DRAWING COMMS DUCTS 160mm DIAMETER THV CABLE DUCTS PEAT LEGEND: THERMAL RESISTIVITY OF BUILD-UP GEOTEXTILE MATERIAL TO BE MAXIMUM 1.2km/W GEOGRID ALL ROAD BUILDUP MATERIALS TO BE USED TO COMPLY PEAT RED MARKER STRIP 600 WITH TII (NRA) SPECIFICATION FOR ROADWORKS SERIES 600 STANDARD YELLOW MARKER TREFOIL TRENCH WARNING TAPE SECTION THROUGH CABLE TRENCH BUILT TO SOLID (FLOATING ROAD) PEAT DEPTH < 2.5m SCALE 1:50 EirGrid plc STANDARD 110kV CABLE DRAWINGS EIRGRID The Oval, 160 Shelbourne Road, Ballsbridge, Dublin 4, Ireland DRAWING TITLE +353 1 677 1700 Telephone: Fax: +353 1 661 5375 TYPICAL SECTION THROUGH SOLID info@eirgrid.com Email: CABLE TRENCH (FLOATING ROAD) Web: www.eirgrid.com PEAT DEPTH < 2.5m COPYRIGHT © EirGrid plc All rights reserved. No part of this work may be modified or reproduced or No of Shts SCALE N/A 4 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 00 FIRST ISSUE DG CF 09/03/2020 XDC-CBL-STND-H-007 002 00 DRAWN CHECKED APPROVED DATE permission of EirGrid plc

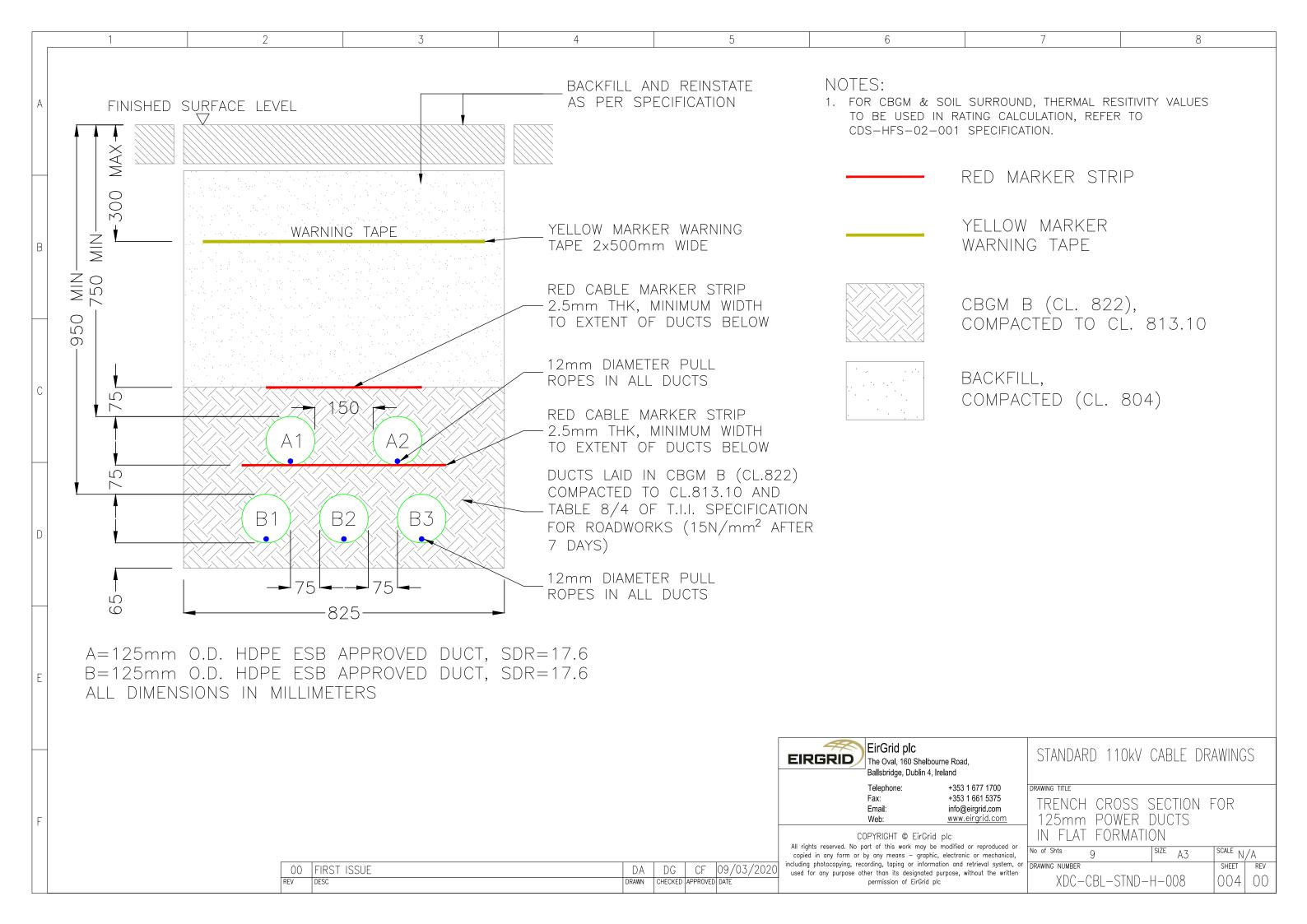
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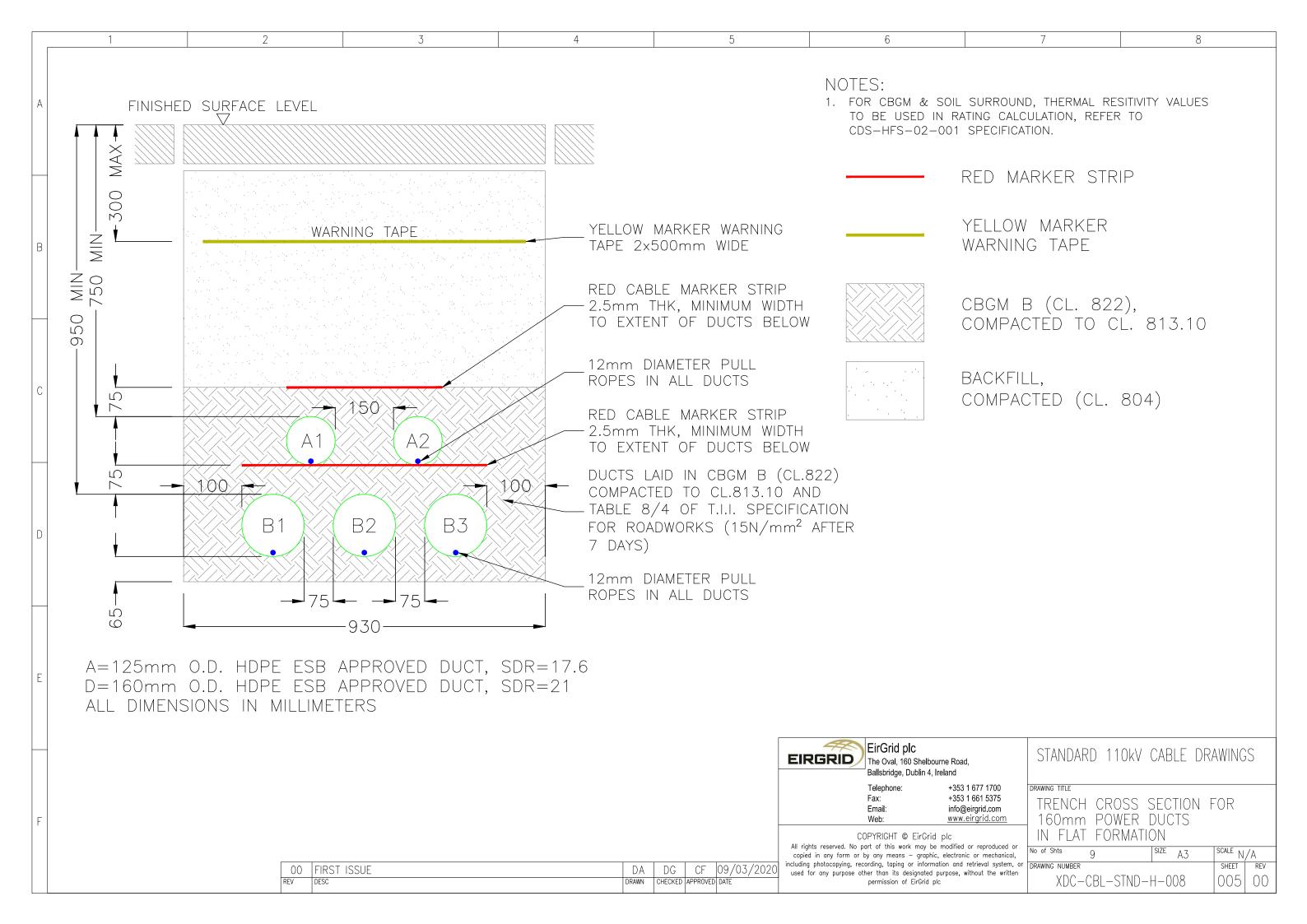
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AS ILLUSTRATED EXISTING ROAD & NEW TRENCH FOR DETAILS REFER TO ALL ROAD BUILDUP MATERIALS TO YELLOW MARKER BASE COURSE WITH WEARING COURSE-STANDARD CABLE CROSS SECTION DRAWING BE USED TO COMPLY WITH TII (NRA) SPECIFICATION FOR ROADWORKS SERIES 600 AND 800 NEW ROAD LEVEL DRAINAGE DITCH--DRAINAGE DITCH -EXISTING GROUND MIN LAP MIN LAP EXISTING GROUND-EXISTING ROAD LEVEL LEGEND: GEOTEXTILE EXISTING FLOATING ROAD BUILD-UP GEOGRID RED MARKER STRIP 600 125mm DIAMETER_ COMMS DUCTS LOGS ARE NOT TO BE YELLOW MARKER -STANDARD TREFOIL TRENCH PEAT WARNING TAPE 160mm DIAMETER HV CABLE DUCTS BASE WEARING COARSE NEW ROAD BUILT-UP MATERIAL BOTTOM OF PEAT EXISTING MATERIAL SECTION THROUGH UPGRADED FLOATING ROAD LOGS PEAT DEPTH >2.5m SCALE 1:50 PEAT EirGrid plc STANDARD 110kV CABLE DRAWINGS EIRGRID The Oval, 160 Shelbourne Road, Ballsbridge, Dublin 4, Ireland DRAWING TITLE Telephone: +353 1 677 1700 Fax: +353 1 661 5375 TYPICAL SECTION THROUGH FLOATING ROAD info@eirgrid.com Email: PEAT DEPTH >2.5m Web: www.eirgrid.com COPYRIGHT © EirGrid plc All rights reserved. No part of this work may be modified or reproduced or No of Shts SCALE N/A 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 SHEET REV 00 FIRST ISSUE DG | CF |09/03/2020 XDC-CBL-STND-H-007 004 | 00 DRAWN CHECKED APPROVED DATE permission of EirGrid plc

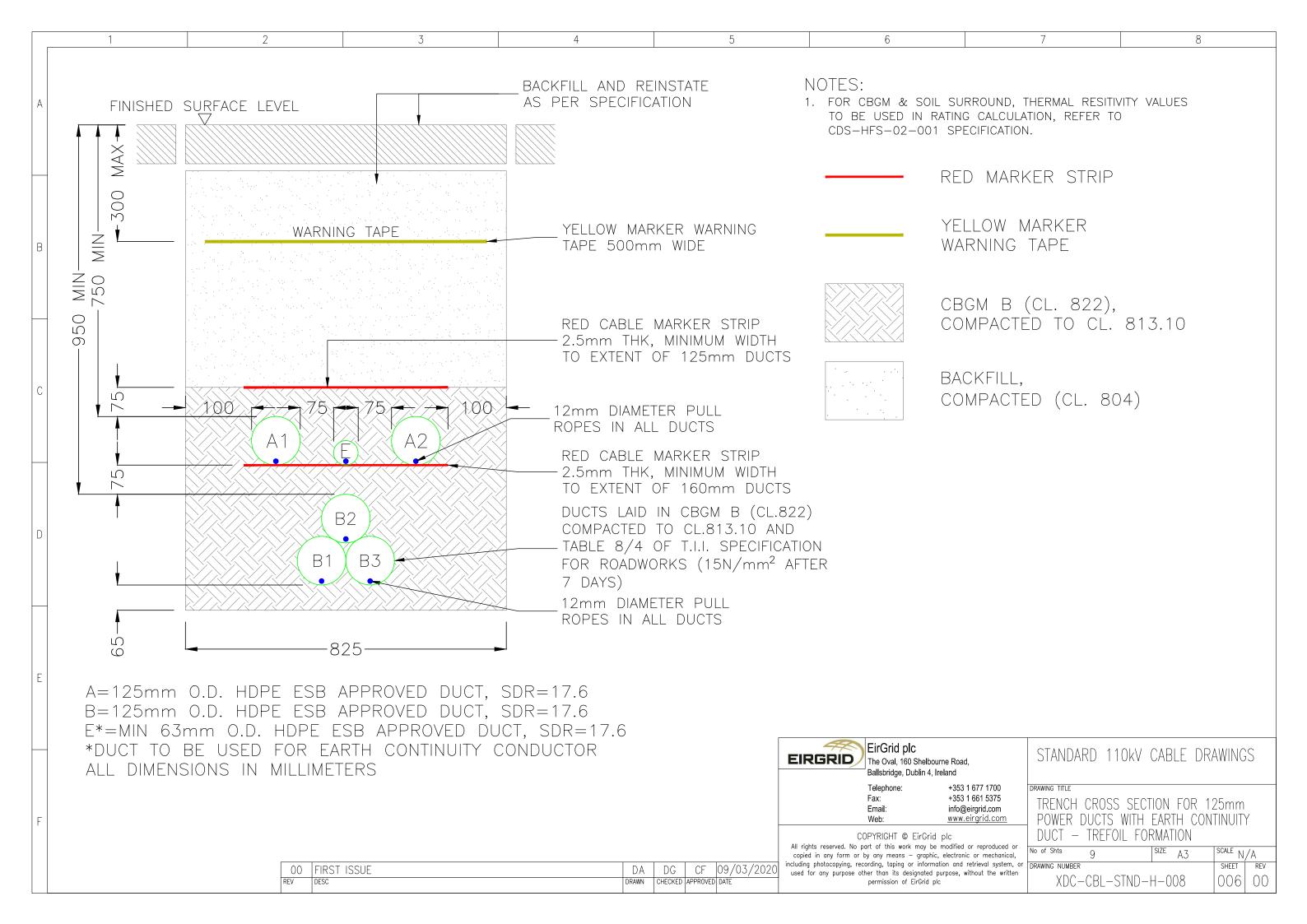
STANDARD 110kV CABLE DRAWINGS STANDARD CROSS SECTIONS 125mm AND 160mm DUCTS DESCRIPTION DRAWING No. SHEET No. REVISION No. XDC-CBL-STND-H-008 001 STANDARD CROSS SECTIONS INDEX SHEET 00 XDC-CBL-STND-H-008 002 TRENCH CROSS SECTION FOR 125mm POWER DUCTS IN TREFOIL FORMATION 00 XDC-CBL-STND-H-008 003 TRENCH CROSS SECTION FOR 160mm POWER DUCTS IN TREFOIL FORMATION 00 XDC-CBL-STND-H-008 004 TRENCH CROSS SECTION FOR 125mm POWER DUCTS IN FLAT FORMATION 00 XDC-CBL-STND-H-008 TRENCH CROSS SECTION FOR 160mm POWER DUCTS IN FLAT FORMATION 005 00 XDC-CBL-STND-H-008 006 TRENCH CROSS SECTION FOR 125mm POWER DUCTS WITH EARTH CONTINUITY DUCT - TREFOIL FORMATION 00 XDC-CBL-STND-H-008 007 TRENCH CROSS SECTION FOR 160mm POWER DUCTS WITH EARTH CONTINUITY DUCT - TREFOIL FORMATION 00 XDC-CBL-STND-H-008 800 TRENCH CROSS SECTION FOR 125mm POWER DUCTS WITH EARTH CONTINUITY DUCT - FLAT FORMATION 00 XDC-CBL-STND-H-008 TRENCH CROSS SECTION FOR 160mm POWER DUCTS WITH EARTH CONTINUITY DUCT - FLAT FORMATION 00 EirGrid plc STANDARD 110kV CABLE DRAWINGS EIRGRID The Oval, 160 Shelbourne Road, Ballsbridge, Dublin 4, Ireland DRAWING TITLE Telephone: +353 1 677 1700 Fax: +353 1 661 5375 STANDARD CROSS SECTIONS Email: info@eirgrid.com INDEX SHEET Web: COPYRIGHT © EirGrid plc All rights reserved. No part of this work may be modified or reproduced or SCALE N/A No of Shts 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 SHEET REV 00 FIRST ISSUE DG | CF |09/03/2020 001 00 XDC-CBL-STND-H-008 DRAWN CHECKED APPROVED DATE permission of EirGrid plc

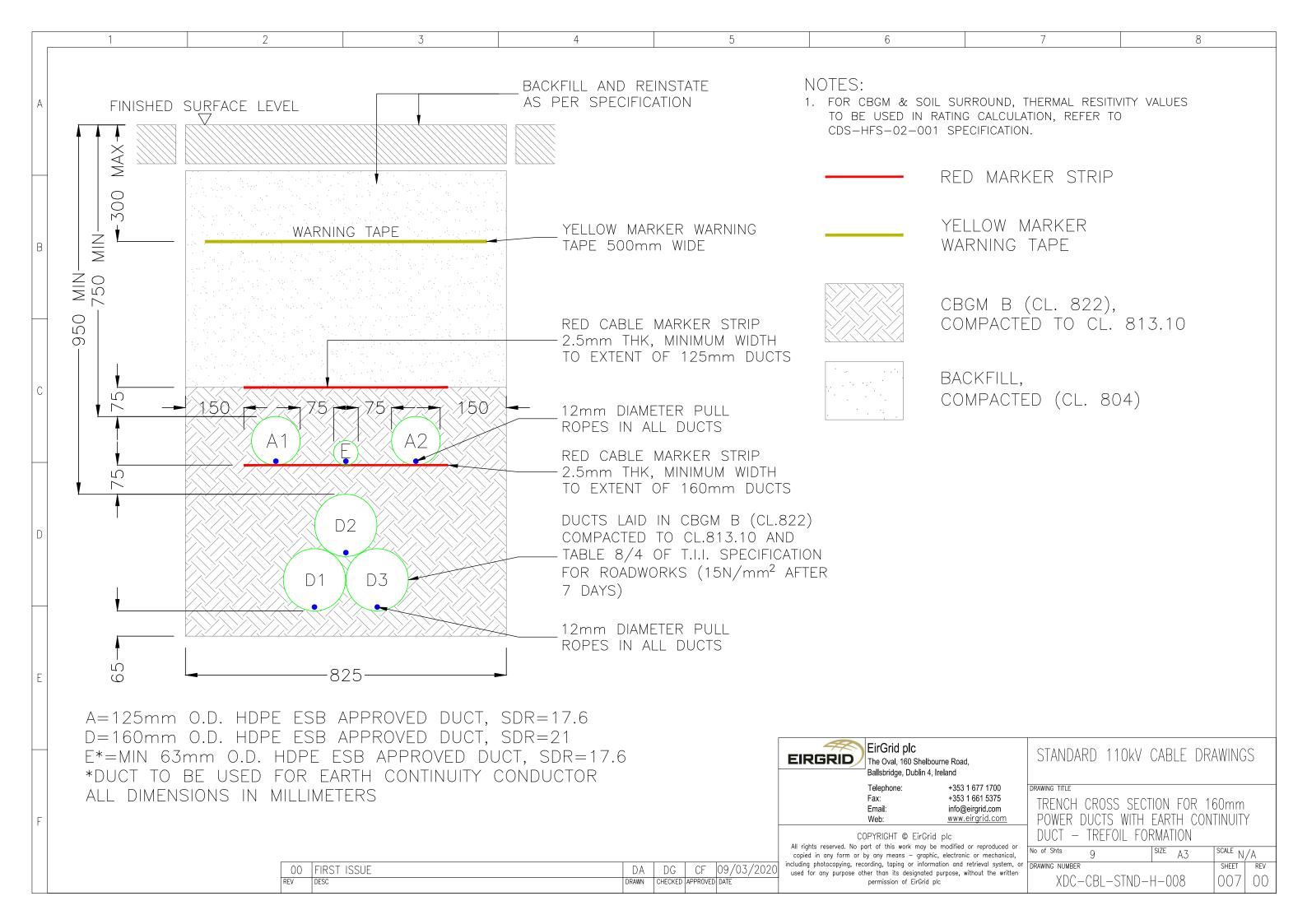


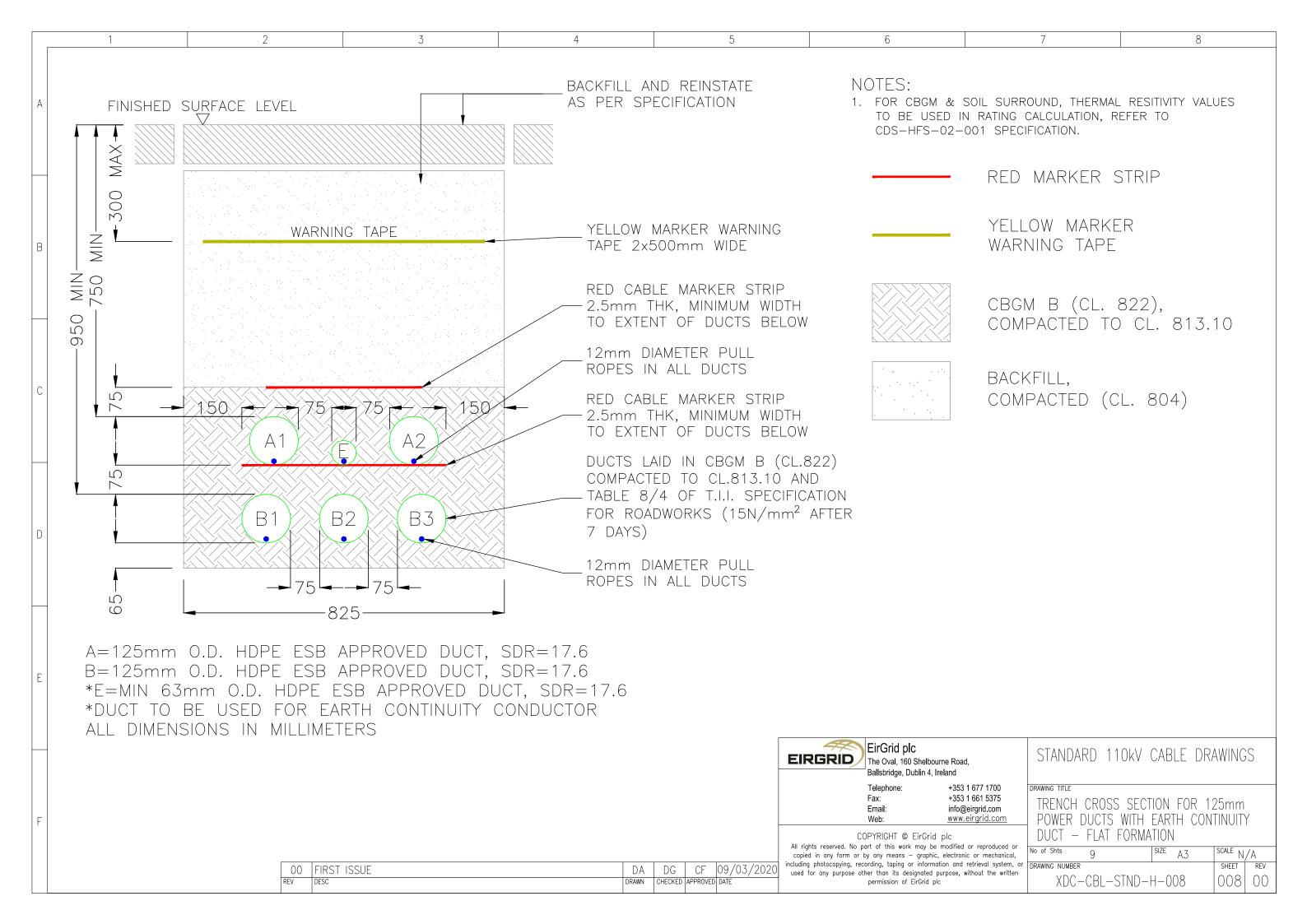


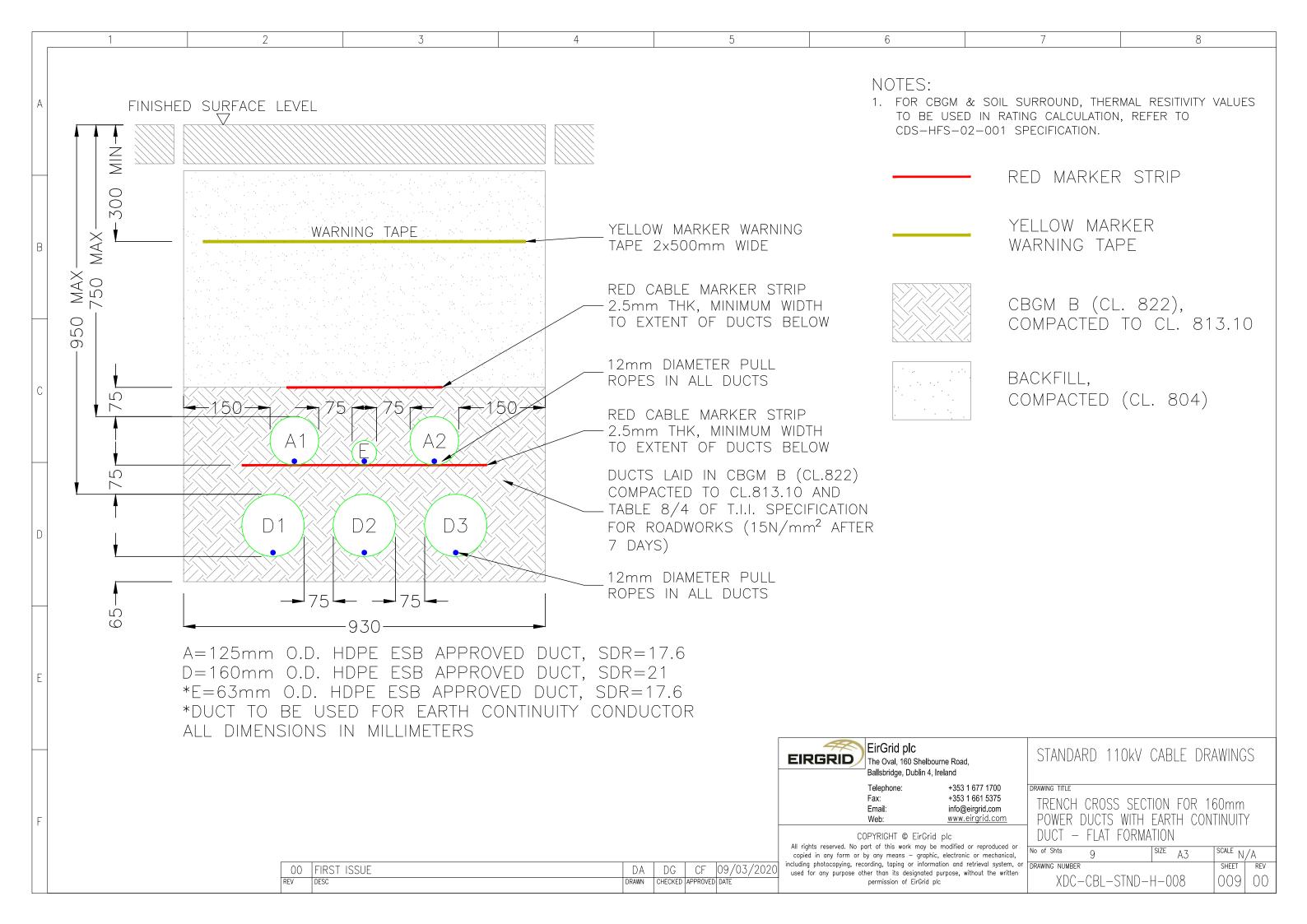


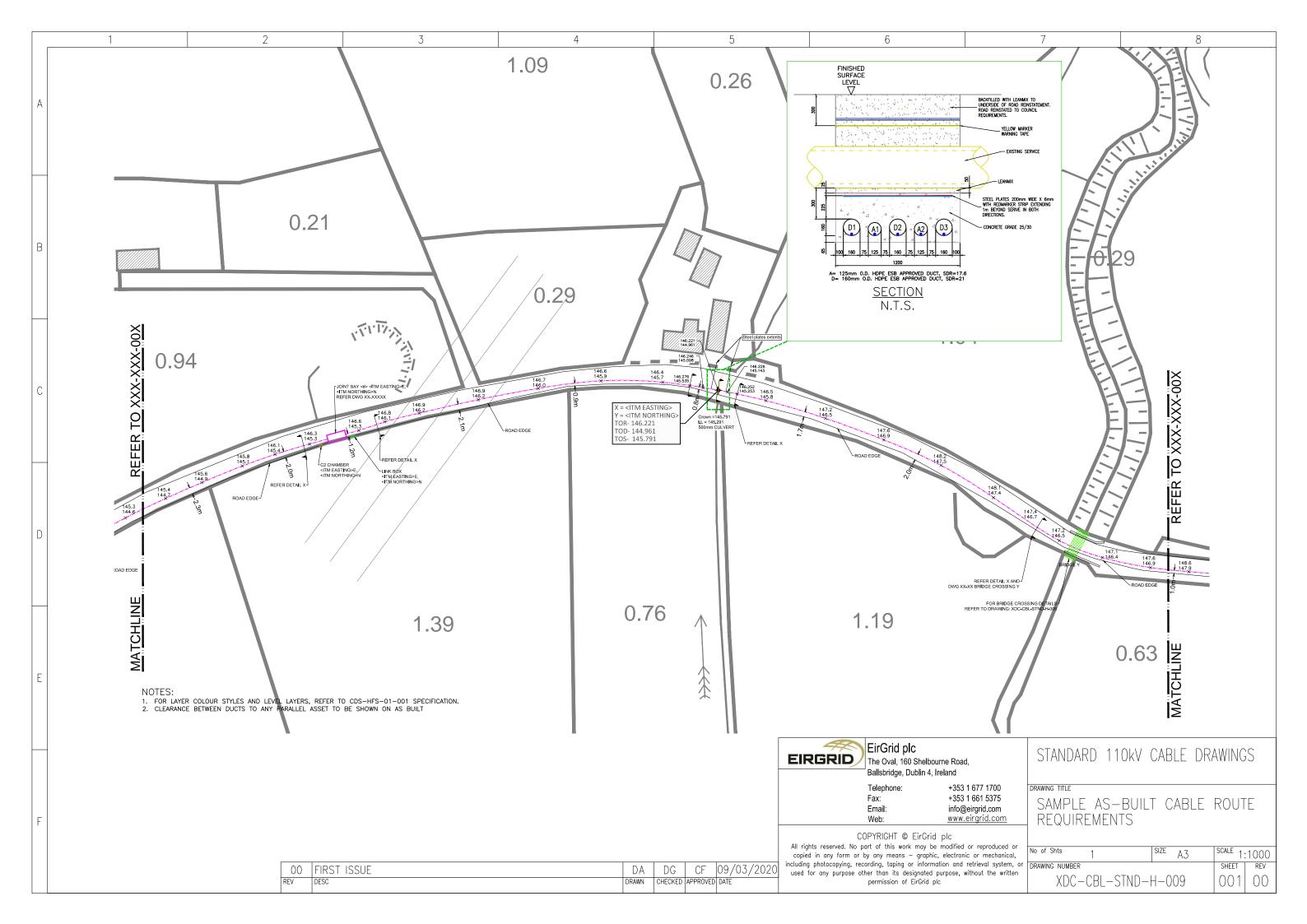


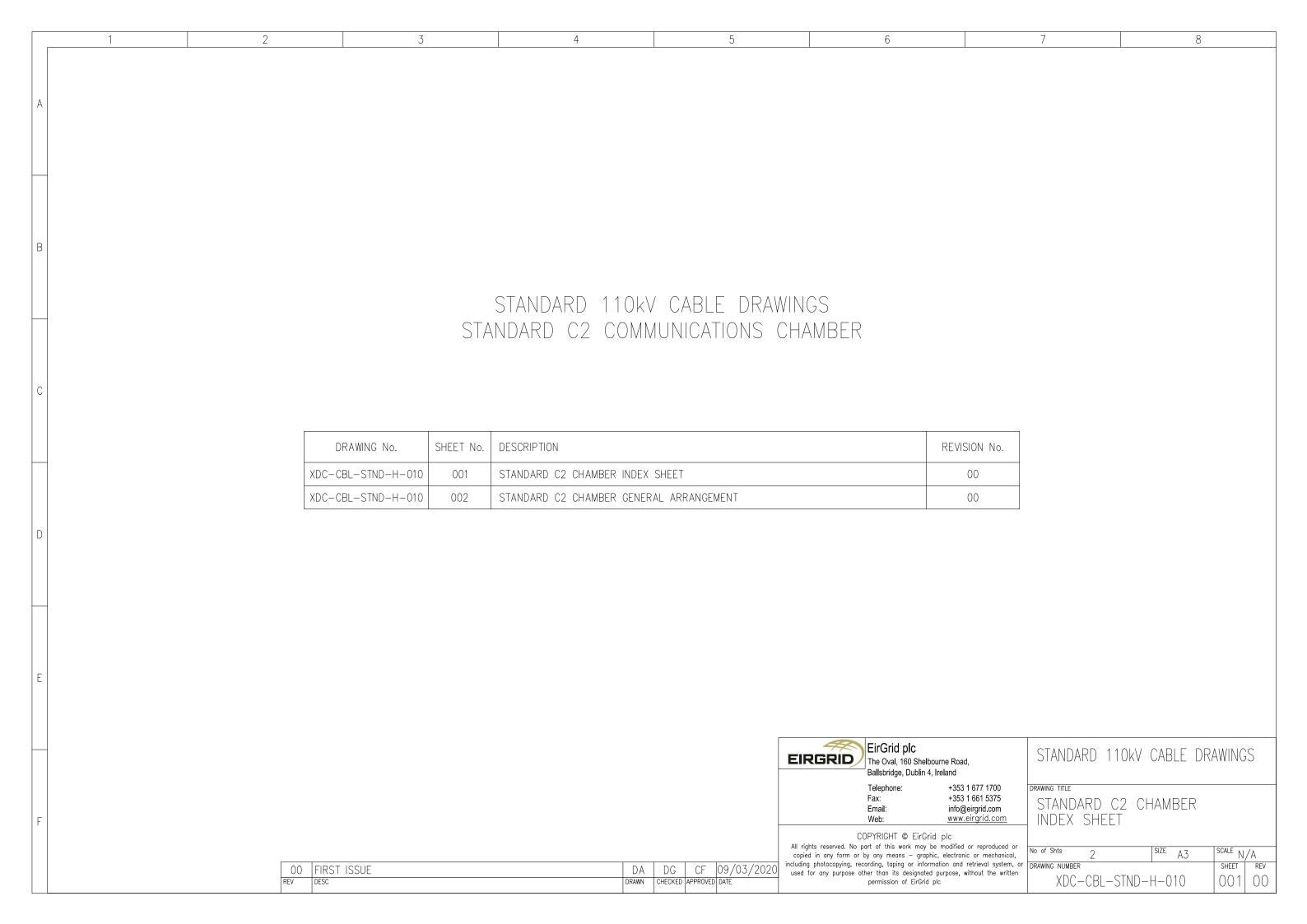


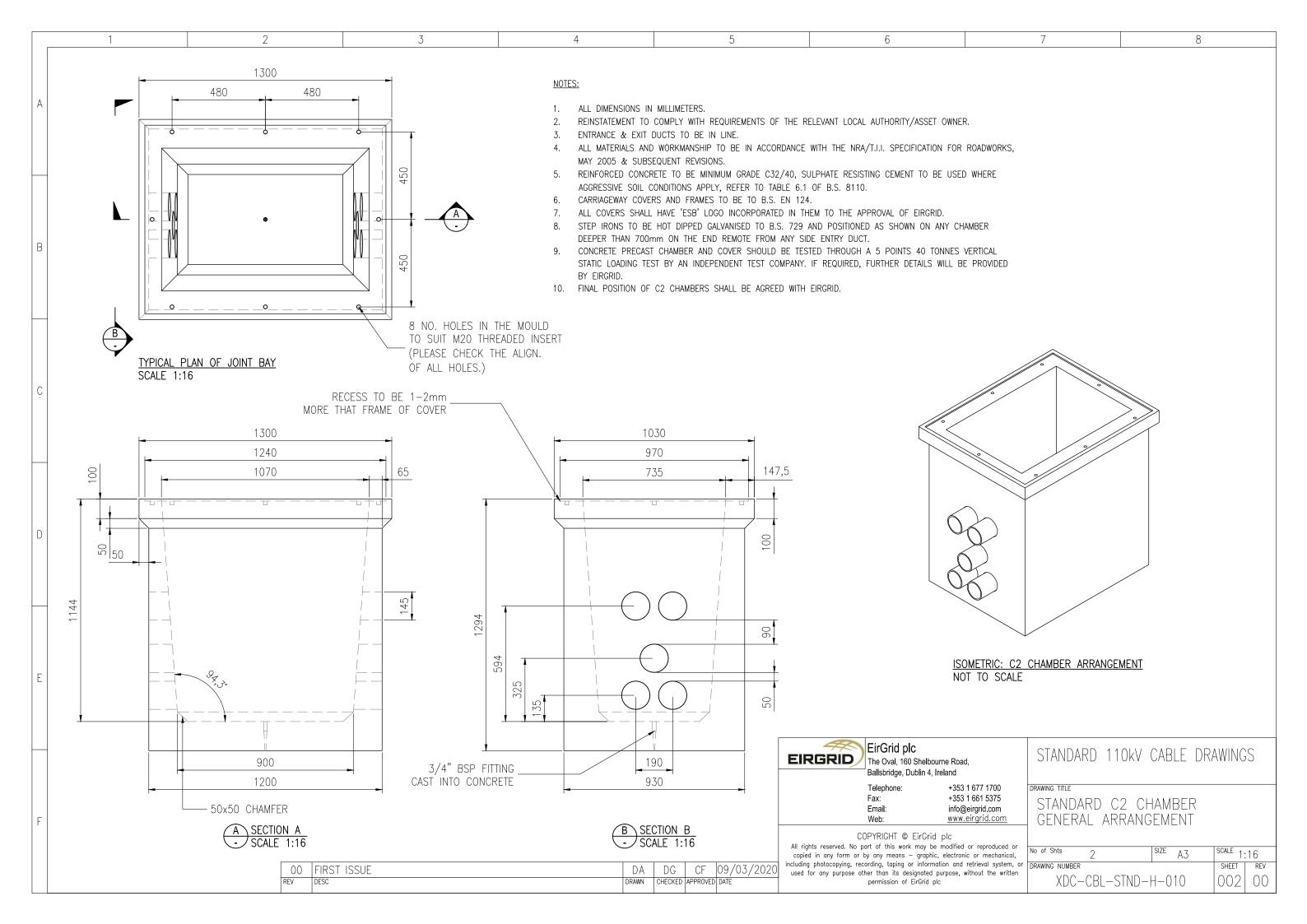


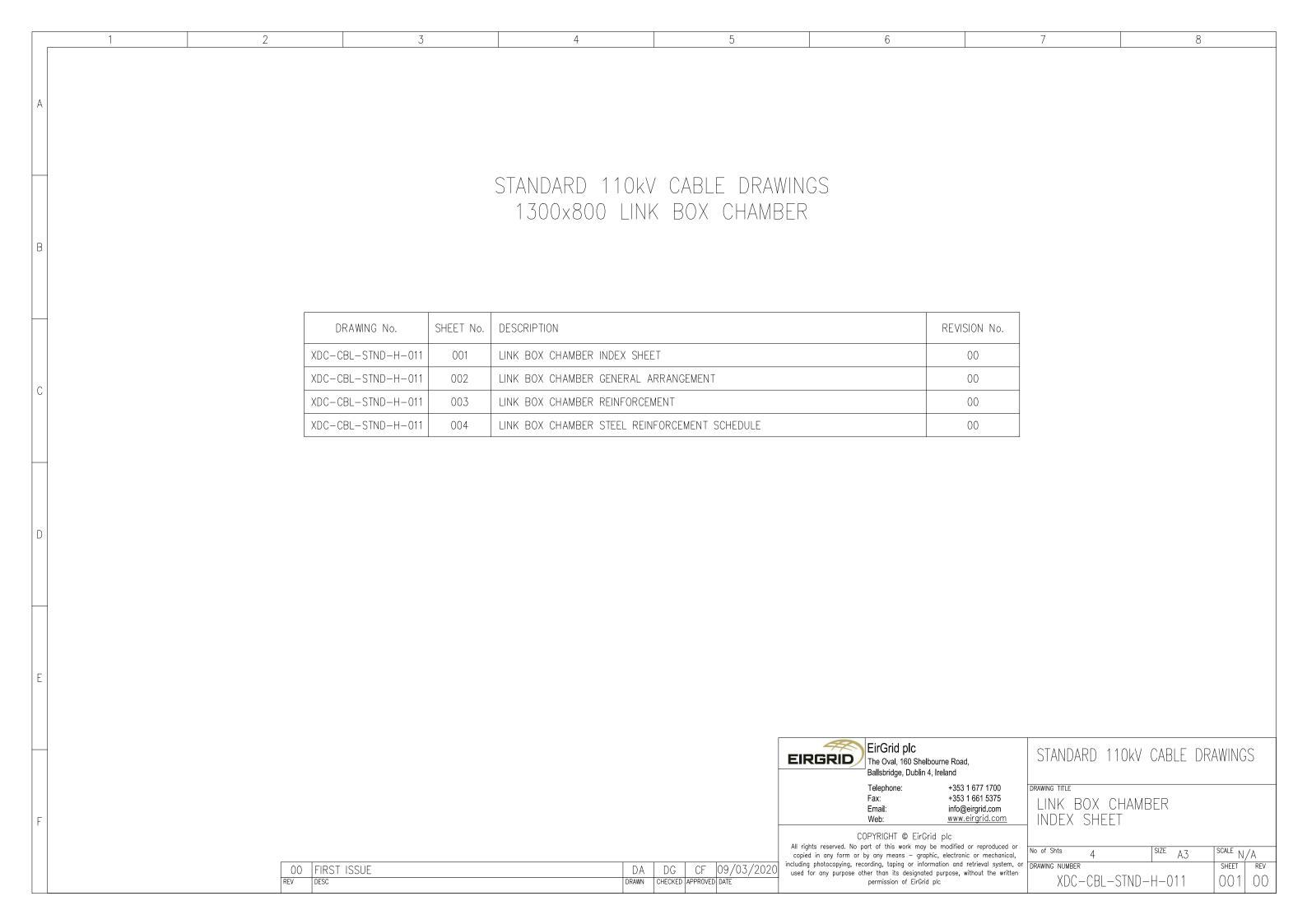


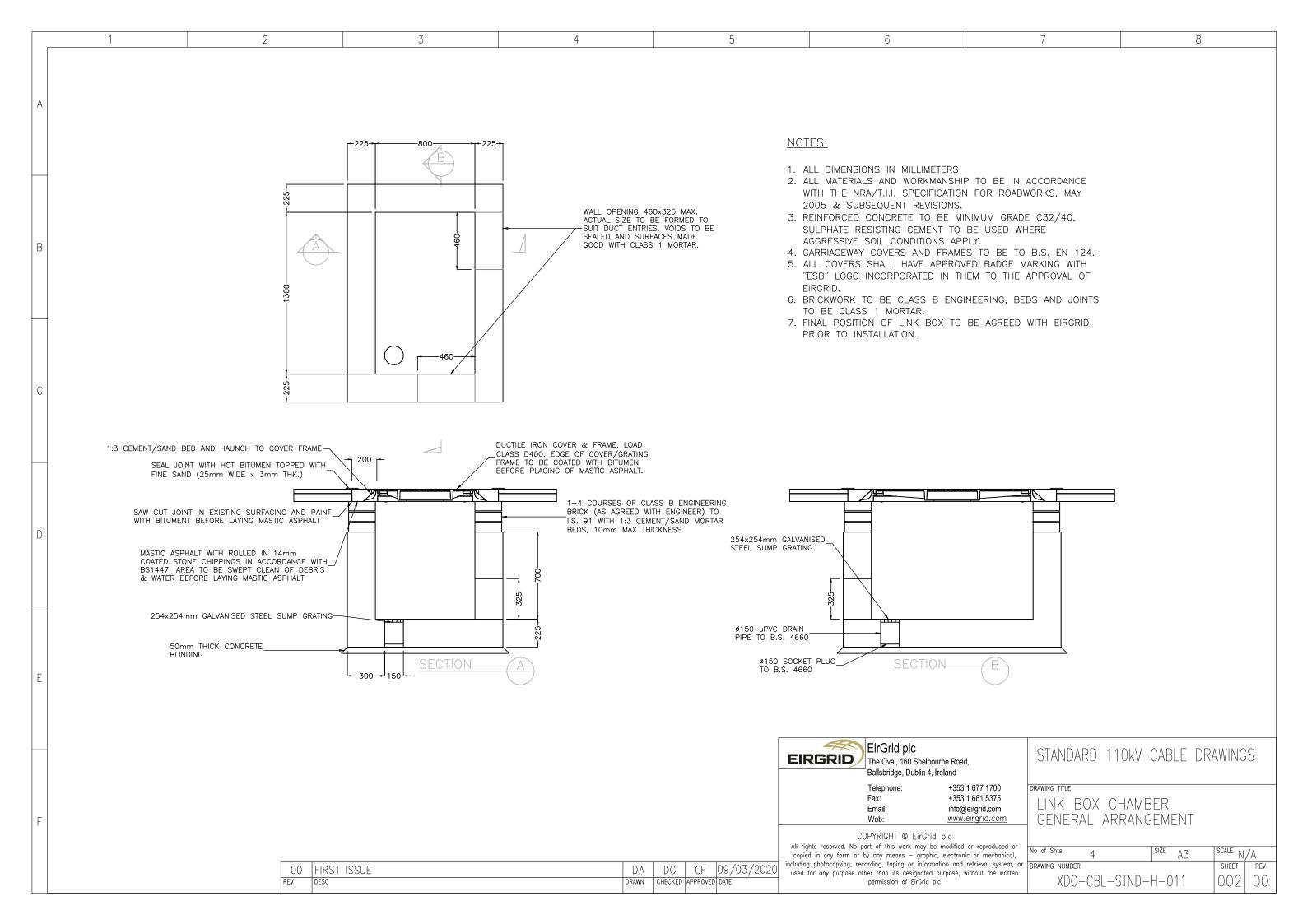


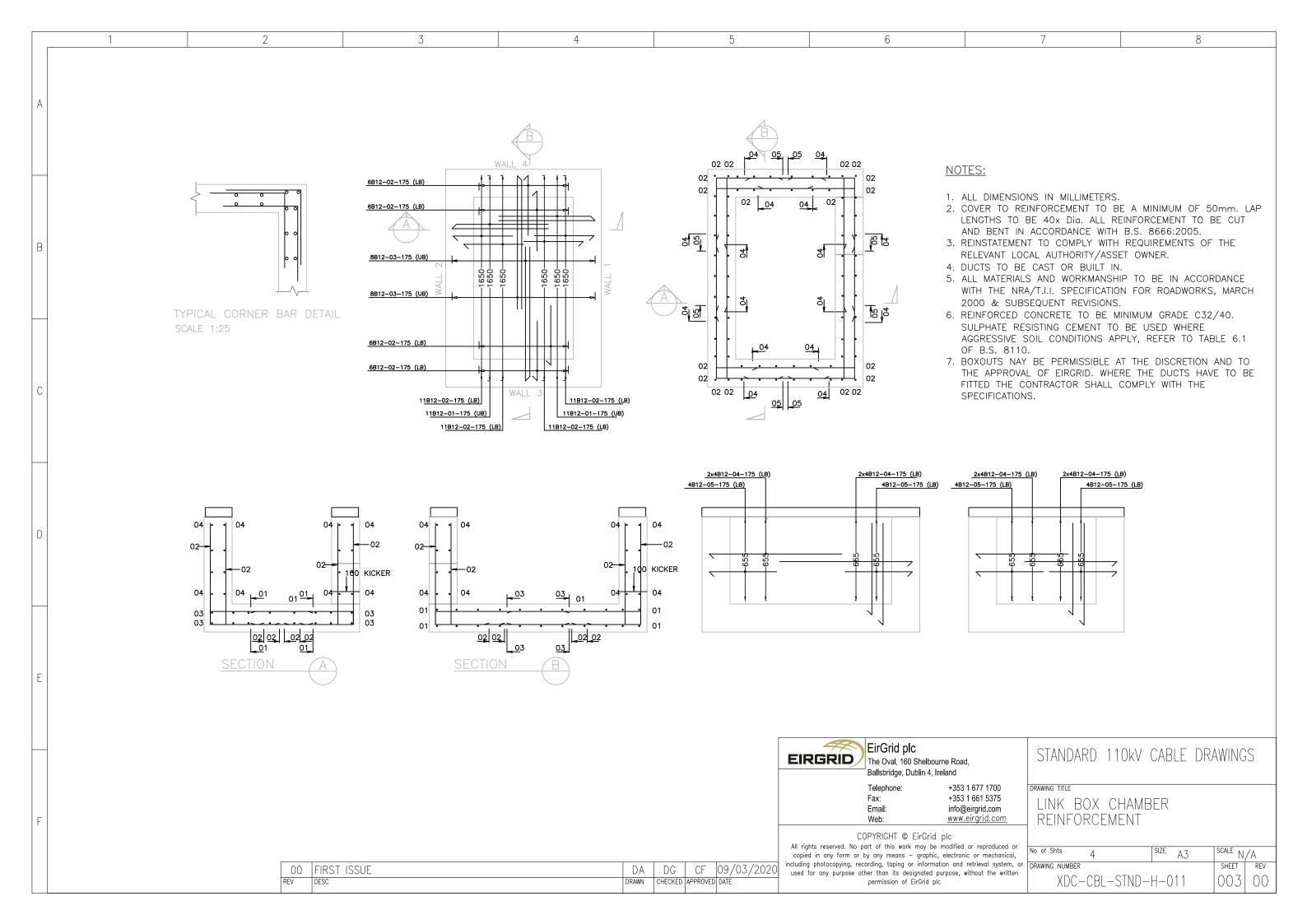


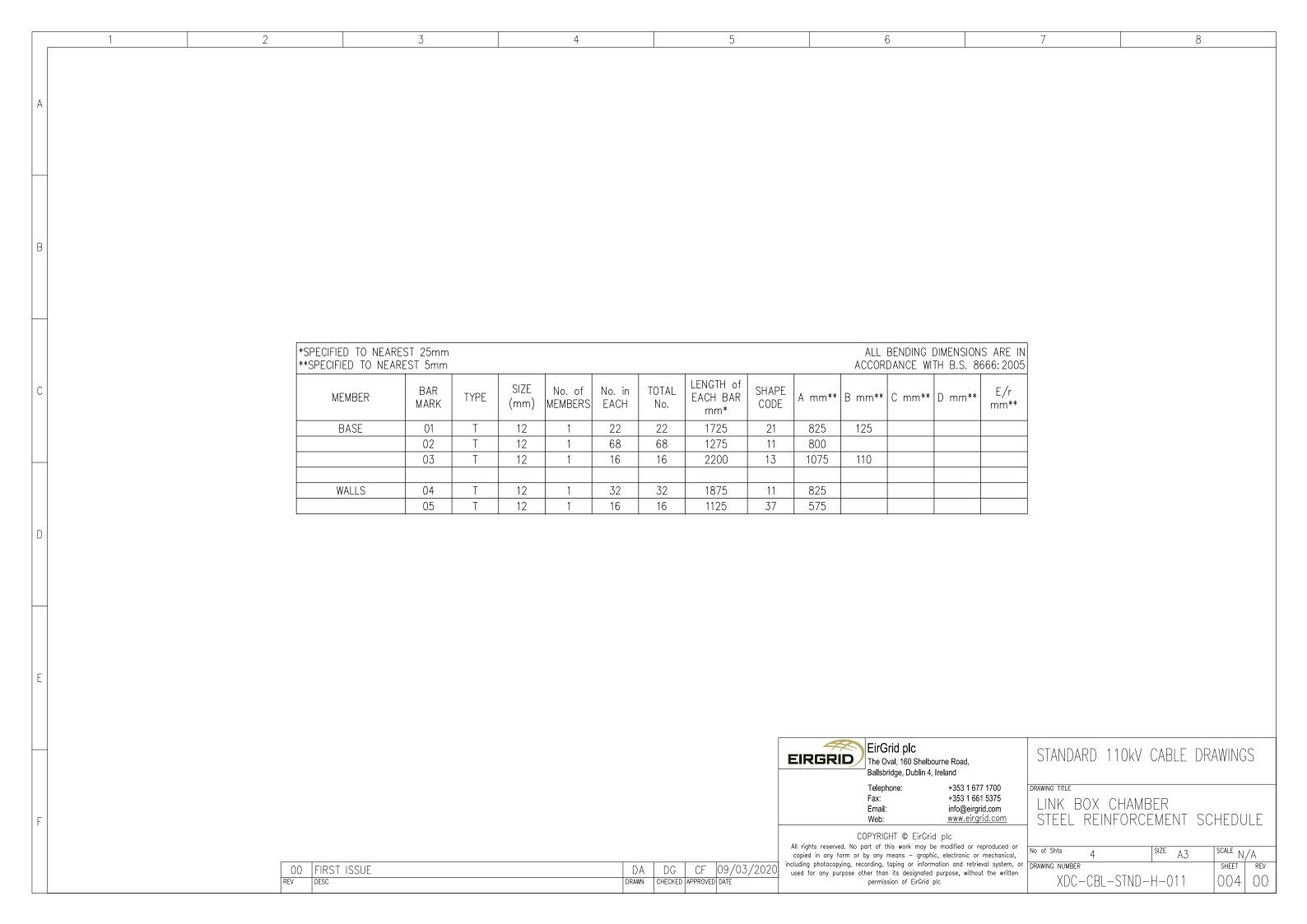




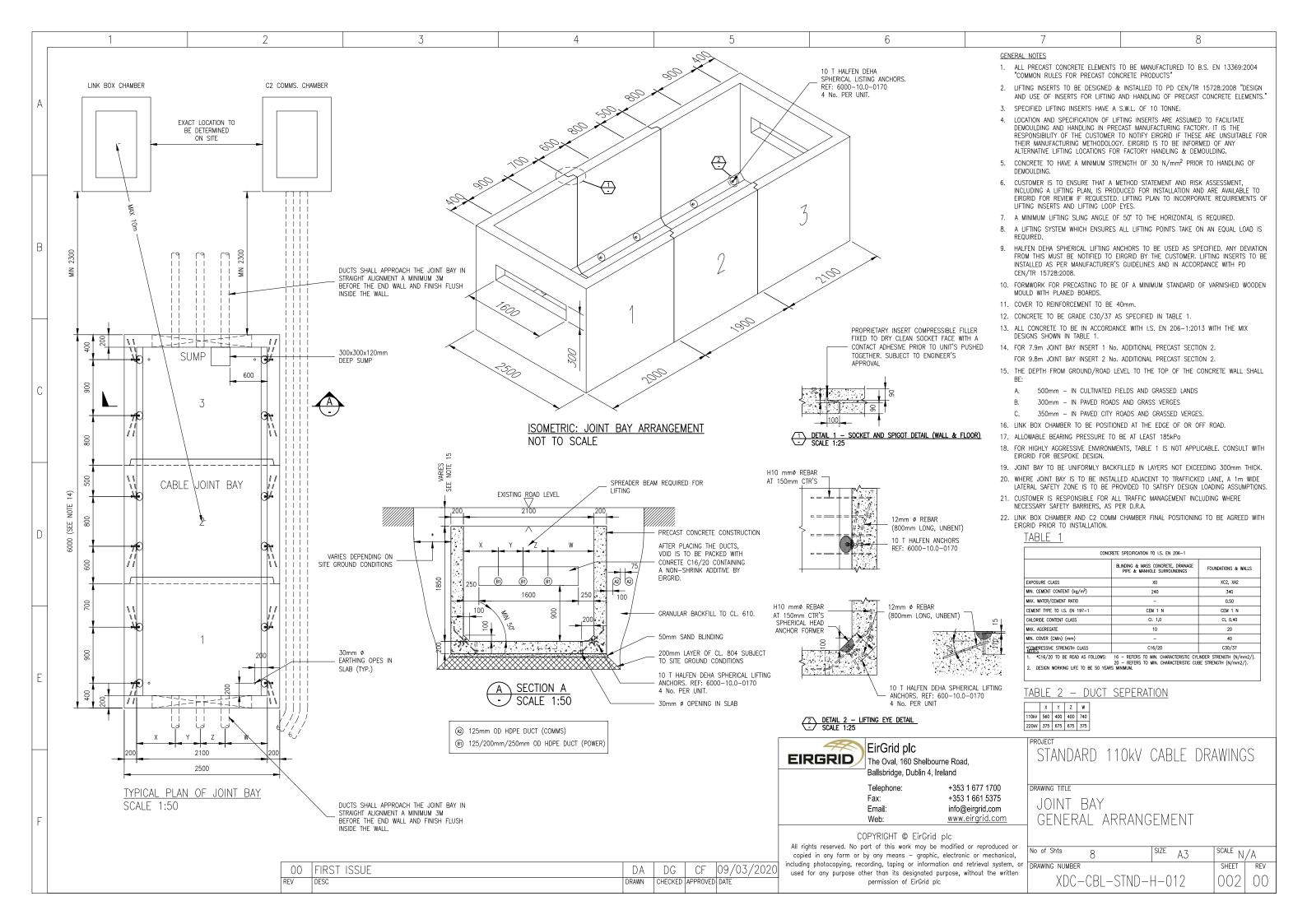


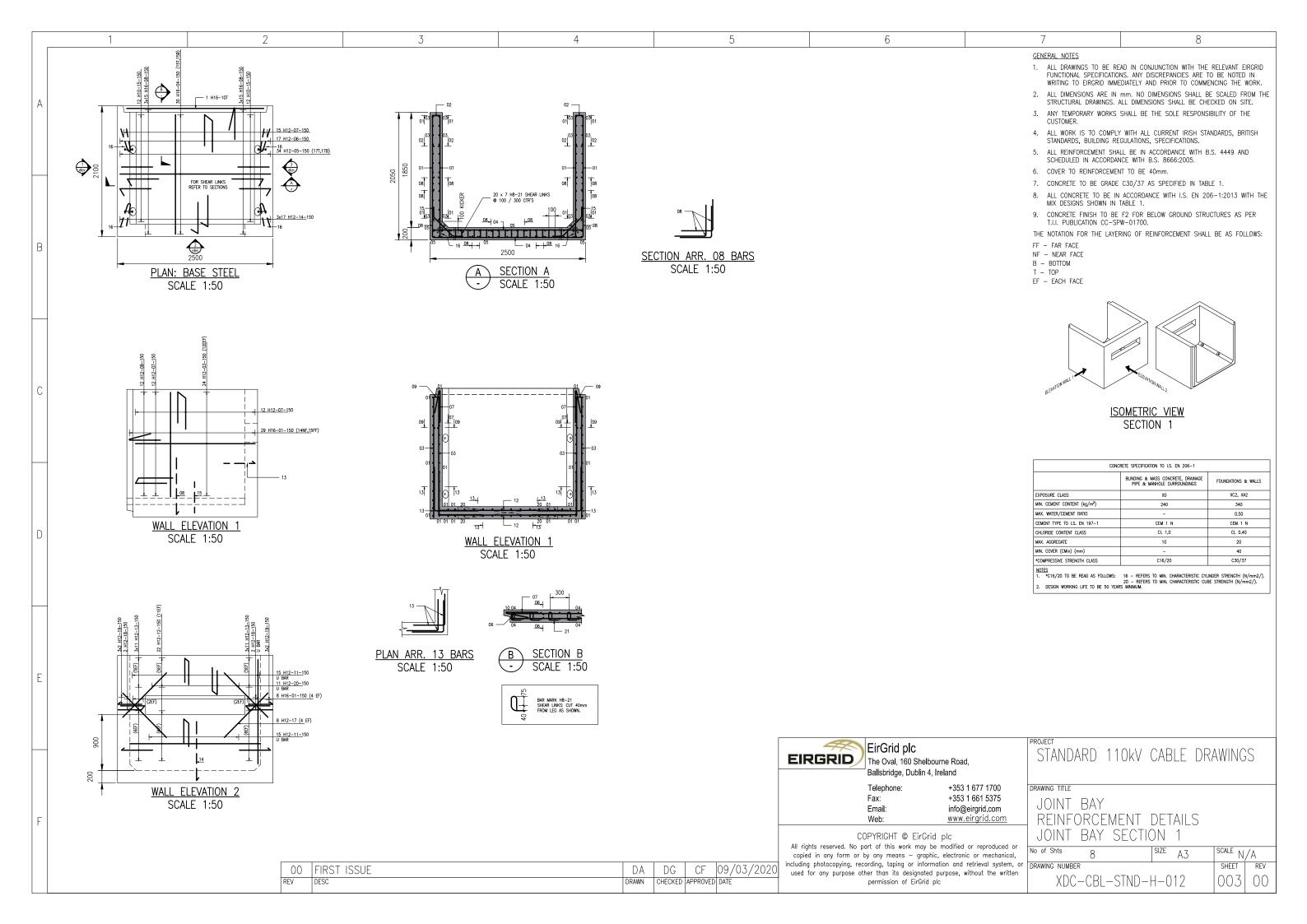


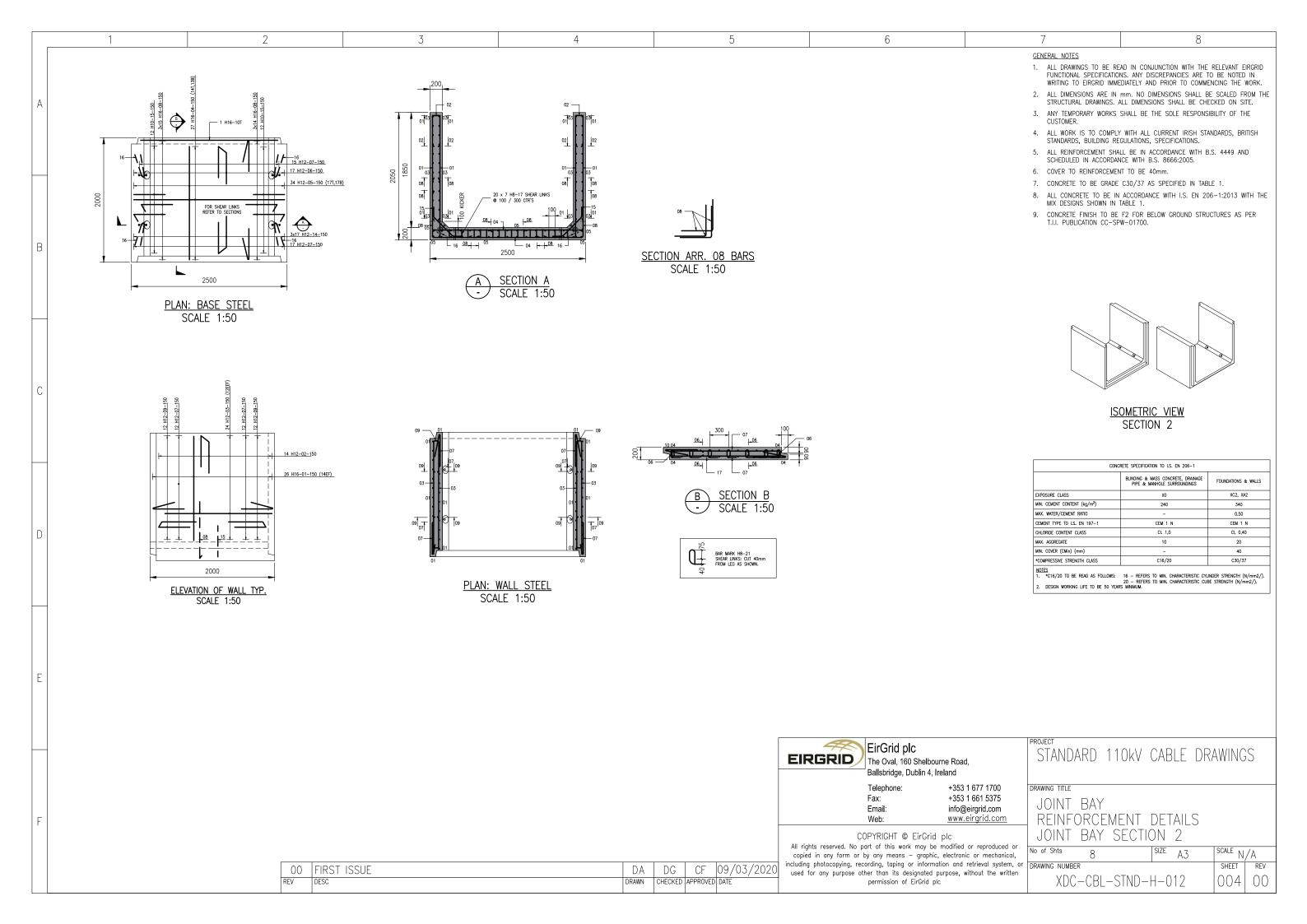




STANDARD 110kV CABLE DRAWINGS 6mx2.5m JOINT BAY DRAWING No. SHEET No. DESCRIPTION REVISION No. XDC-CBL-STND-H-012 001 JOINT BAY INDEX SHEET 00 XDC-CBL-STND-H-012 00 002 JOINT BAY GENERAL ARRANGEMENT XDC-CBL-STND-H-012 003 PRECAST JOINT BAY DETAILS SECTION 1 00 XDC-CBL-STND-H-012 004 PRECAST JOINT BAY DETAILS SECTION 2 00 00 XDC-CBL-STND-H-012 005 PRECAST JOINT BAY DETAILS SECTION 3 00 XDC-CBL-STND-H-012 006 JOINT BAY REBAR SCHEDULE 00 XDC-CBL-STND-H-012 007 JOINT BAY REINSTATEMENT XDC-CBL-STND-H-012 800 JOINT BAY EARTHING ARRANGEMENT 00 EirGrid plc STANDARD 110kV CABLE DRAWINGS EIRGRID The Oval, 160 Shelbourne Road, Ballsbridge, Dublin 4, Ireland DRAWING TITLE Telephone: +353 1 677 1700 Fax: +353 1 661 5375 JOINT BAY Email: info@eirgrid.com INDEX SHEET Web: COPYRIGHT © EirGrid plc All rights reserved. No part of this work may be modified or reproduced or SCALE N/A No of Shts 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 00 FIRST ISSUE DG | CF |09/03/2020 001 00 XDC-CBL-STND-H-012 DRAWN CHECKED APPROVED DATE permission of EirGrid plc







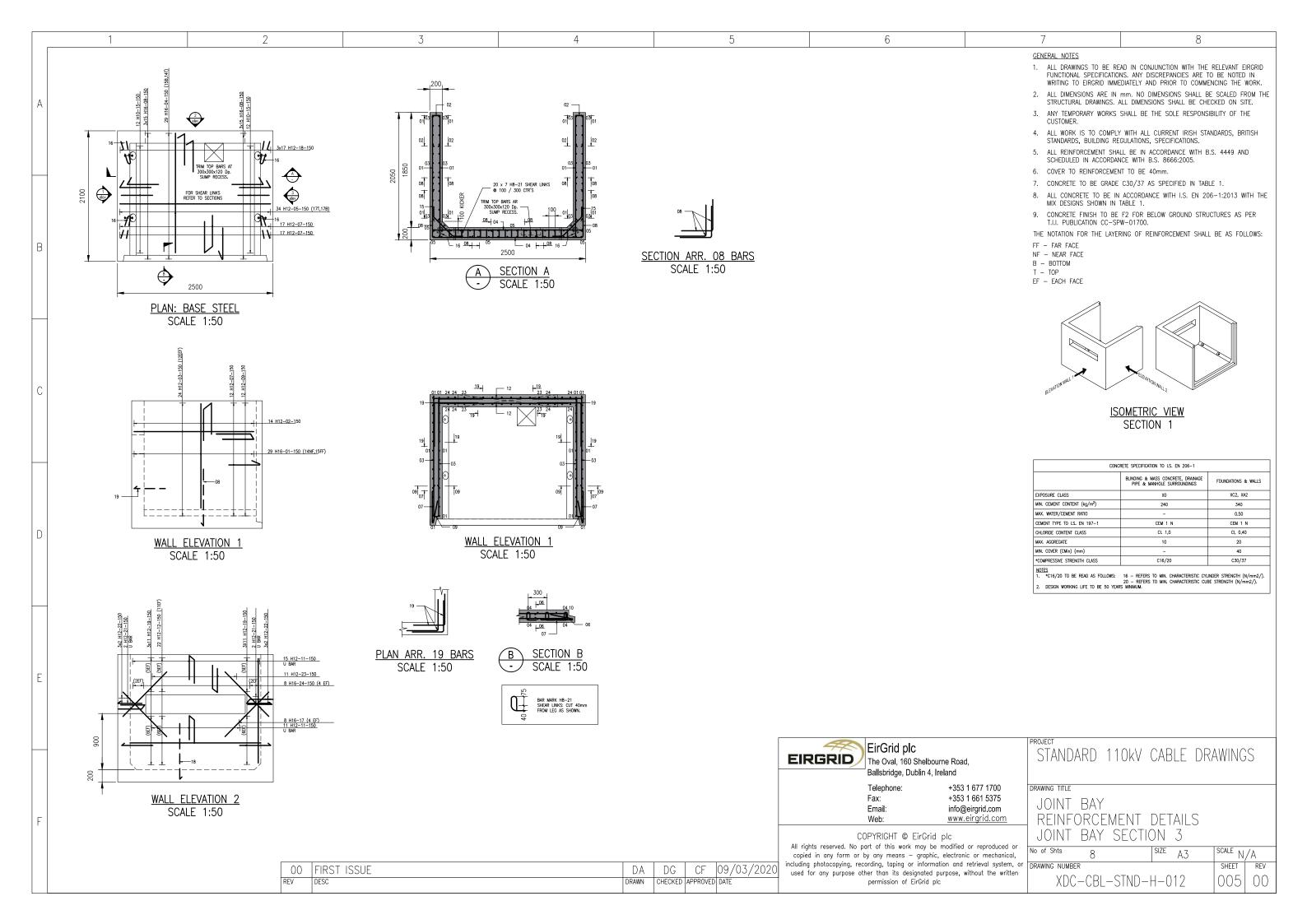
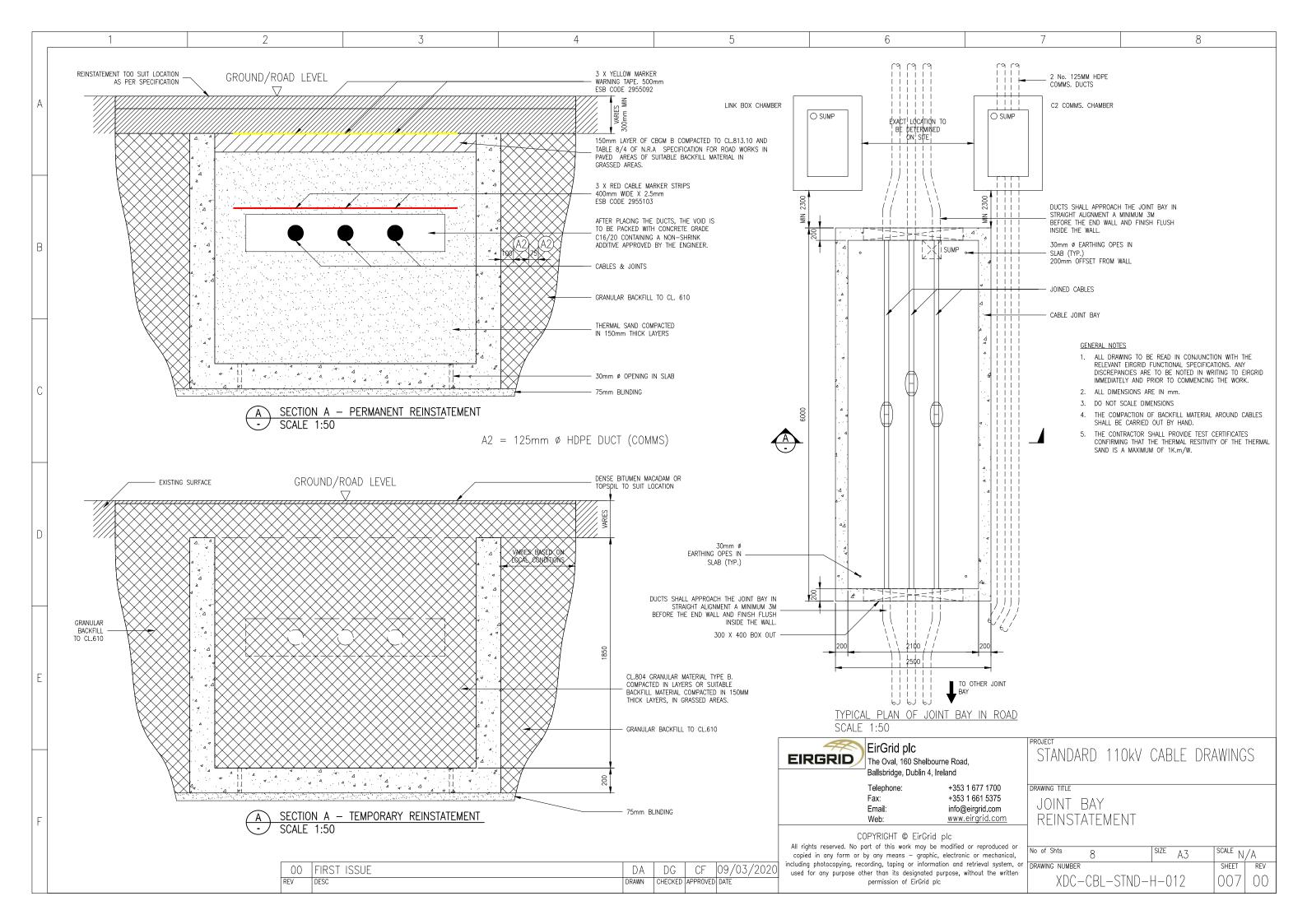


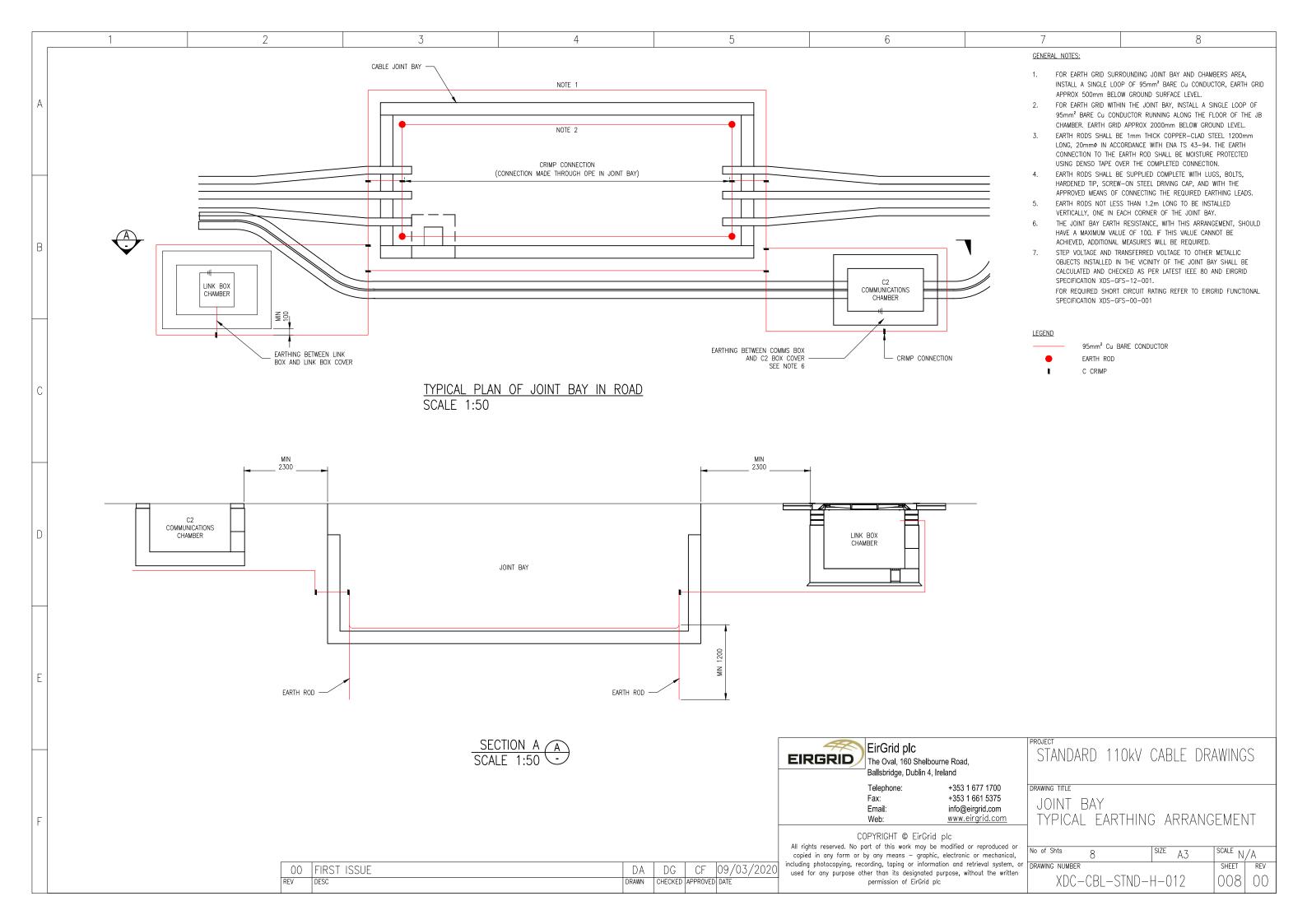
TABLE 2: JOINT BAY R.C. DETAIL - SECTION 2 TABLE 1: JOINT BAY R.C. DETAIL - SECTION 1 TABLE 3: JOINT BAY R.C. DETAIL - SECTION 3 * - SPECIFIED TO NEAREST 5mm + - SPECIFIED TO NEAREST 25mm * - SPECIFIED TO NEAREST 5mm + - SPECIFIED TO NEAREST 25mm * - SPECIFIED TO NEAREST 5mm + - SPECIFIED TO NEAREST 25mm ALL BENDING DIMENSIONS ARE IN ALL BENDING DIMENSIONS ARE IN ACCORDANCE WITH B.S. 8666: 2005 ALL BENDING DIMENSIONS ARE IN ACCORDANCE WITH B.S. 8666: 2005 TYPE SIZE No. OF No. IN (mm) MBRS EACH TOTAL LENGTH OF SHAPE No. (mm) CODE TYPE SIZE No. OF No. IN TOTAL EARGIN OF EACH BAR CODE (mm) MBRS EACH No. (mm) CODE TYPE SIZE No. OF No. IN TOTAL EACH BAR SHAPE (mm) MBRS EACH No. (mm) (mm) MEMBER A* mm B* mm C* mm D* mm MEMBER MEMBER (mm) (mm) (mm) H 16 2 29 58 1675 00 01 H 16 2 29 58 1675 00 H 16 2 28 56 1675 00 SIDE WALLS SIDE WALLS SIDE WALLS 01 01 14 1075 21 H 12 1075 1075 21 28 2 14 28 02 12 2 14 28 500 02 H 12 2 120 02 21 500 110 120 500 12 2 24 48 1900 00 H 12 2 24 48 1900 00 12 2 24 48 1900 00 12 2 12 24 930 350 85 560 H 12 2 24 48 930 14 350 85 560 12 12 24 930 14 350 85 560 09 H 12 2 12 24 1000 13 480 80 H 12 2 24 48 1000 21 480 80 12 2 12 24 1000 13 480 80 BASE 04 H 16 1 30 30 2400 00 BASE H 16 1 27 27 2400 00 BASE н 8 1 140 140 350 22 115 120 50 115 05 H 12 1 34 34 1900 00 H 12 1 34 34 1900 H 16 1 29 29 2400 00 06 H 12 1 17 17 1025 13 500 80 H 12 1 34 34 1025 21 500 110 H 12 1 34 34 1900 00 14 350 85 560 14 350 85 560 1025 07 H 12 1 15 15 930 H 12 1 32 32 930 H 12 1 17 17 13 500 80 H 16 1 84 1600 1600 960 11 960 17 930 14 350 85 560 08 H 16 1 90 90 11 84 12 1 17 2200 H 16 2200 1600 960 16 1 00 _1_ | 1 16 1 | 90 | 90 1 1 00 11 1250 800 24 200 400 200 800 200 400 200 1 24 24 24 24 42 10 1 24 24 800 24 200 400 200 285 H 12 1 4 4 800 00 BEND ON SITE 12 4 4 800 00 BEND ON SITE 1 140 140 350 22 115 120 50 115 H 12 1 4 4 800 00 BEND ON SITE 17 H 8 12 51 51 1375 11 Shear Links 900 21 H 8 1 140 140 Shear Links 350 22 115 120 50 115 12 1 26 26 1050 21 475 120 END WALL 01 H 16 1 8 8 1675 00 H 12 1 22 22 2075 00 475 120 11 H 12 1 26 26 1050 21 475 120 19 H 12 1 66 66 1375 11 700 1000 2075 00 00 700 H 12 1 22 22 12 1 8 8 66 1375 12 4 4 775 13 375 H 12 1 66 11 75 12 1 8 8 1000 00 12 12 12 675 11 350 18 H 12 1 4 775 13 375 12 1 11 11 1175 21 550 120 19 H 12 1 12 H 16 1 8 8 675 11 12 350 1675 00 20 H 12 1 11 11 1175 21 550 120 EirGrid plc STANDARD 110kV CABLE DRAWINGS EIRGRID The Oval, 160 Shelbourne Road, Ballsbridge, Dublin 4, Ireland DRAWING TITLE Telephone: +353 1 677 1700 Fax: +353 1 661 5375 JOINT BAY Fmail: info@eirgrid.com REBAR SCHEDULE Web: www.eirgrid.com COPYRIGHT © EirGrid plc All rights reserved. No part of this work may be modified or reproduced or No of Shts SCALE N/A 8 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 SHEET REV 00 FIRST ISSUE DA DG | CF |09/03/2020 006 00 XDC-CBL-STND-H-012 DRAWN CHECKED APPROVED DATE DESC permission of EirGrid plc

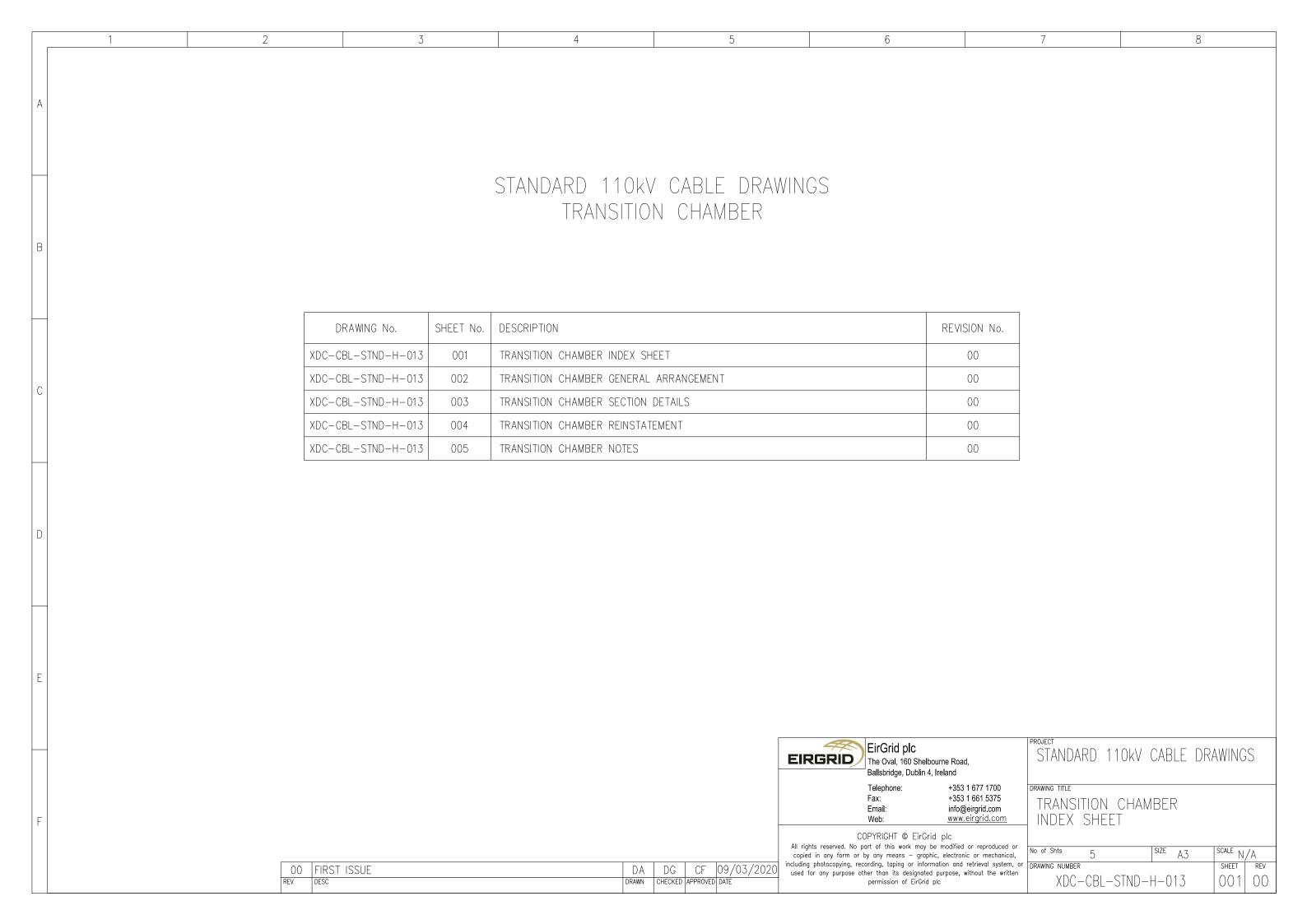
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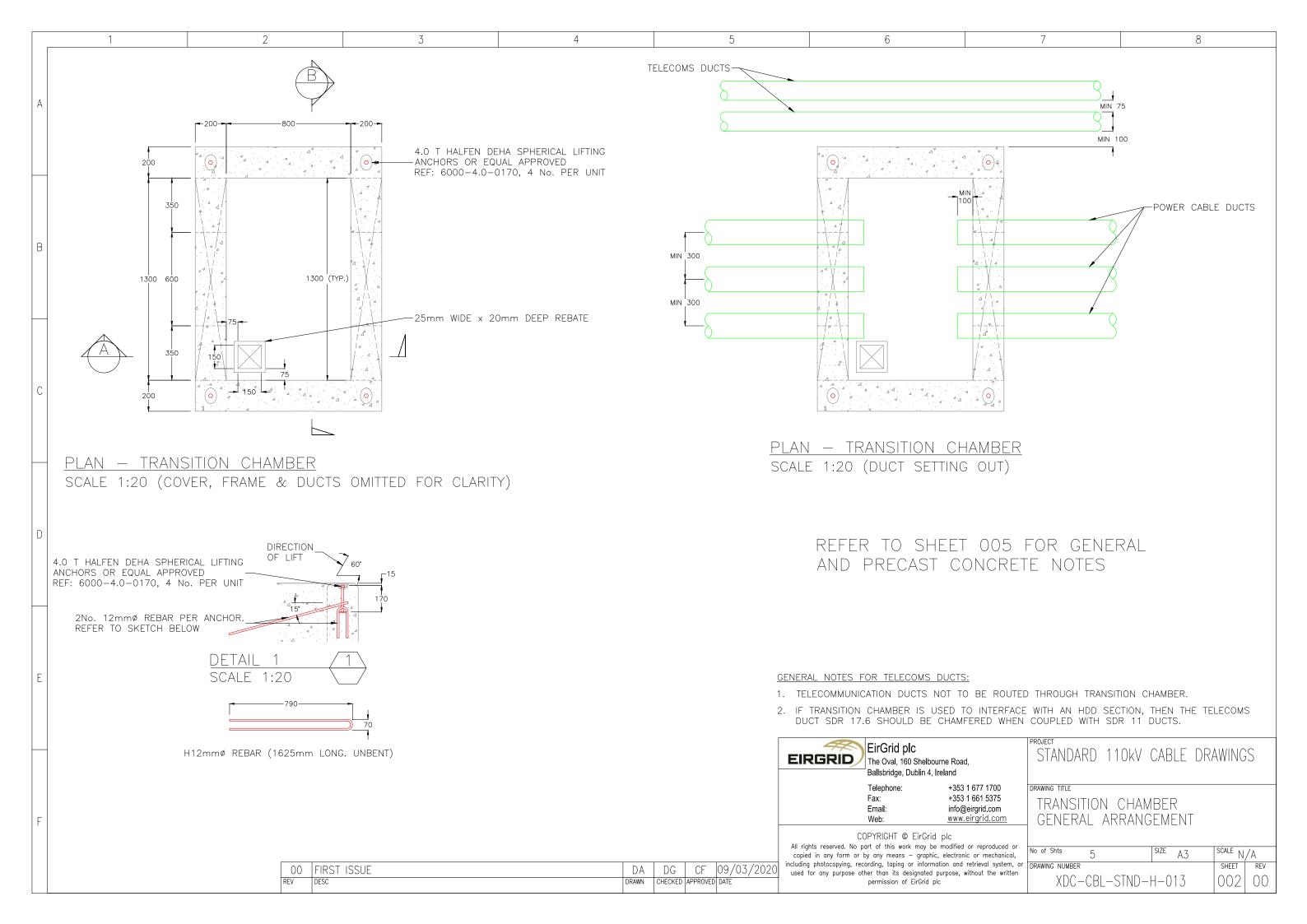
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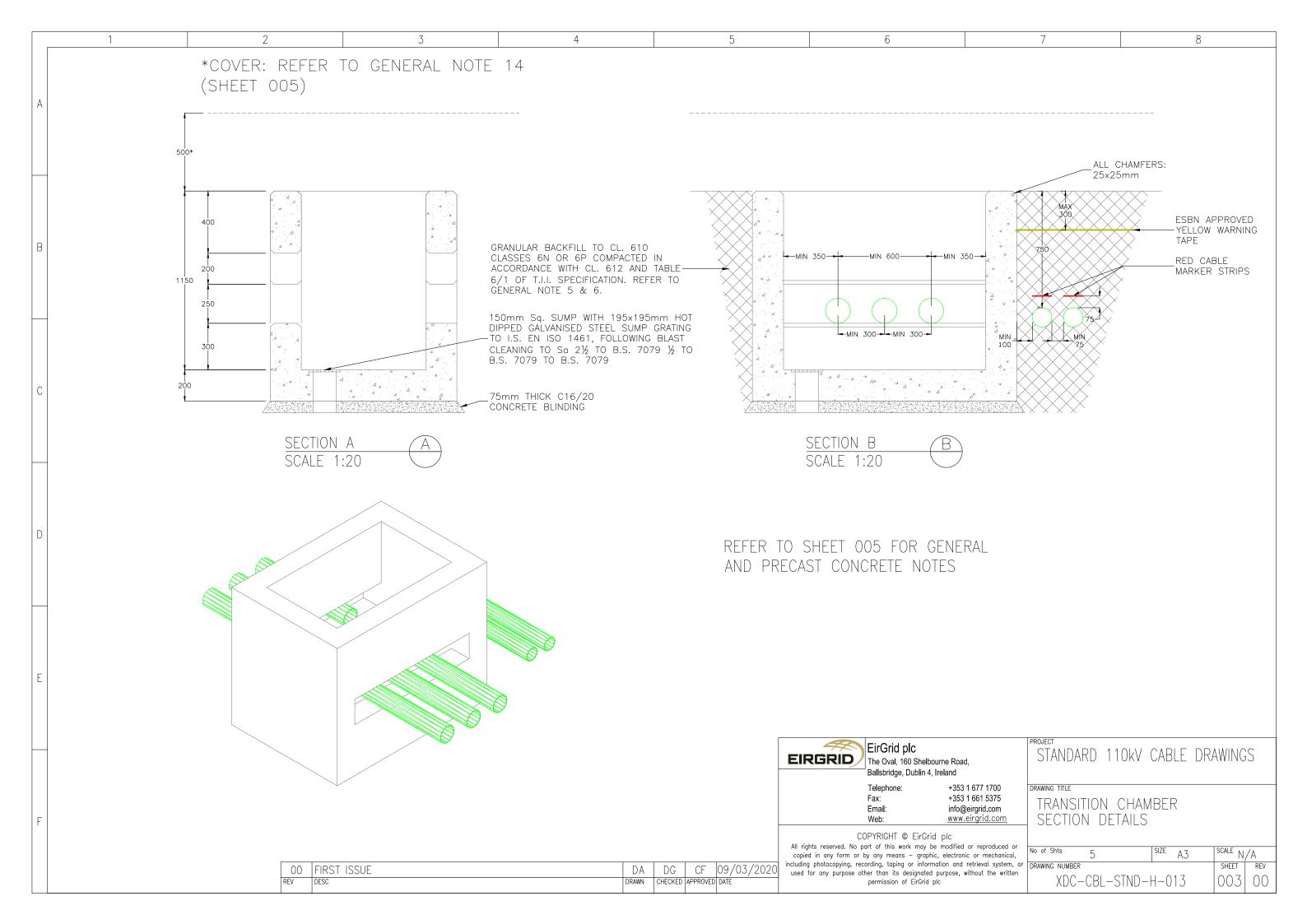
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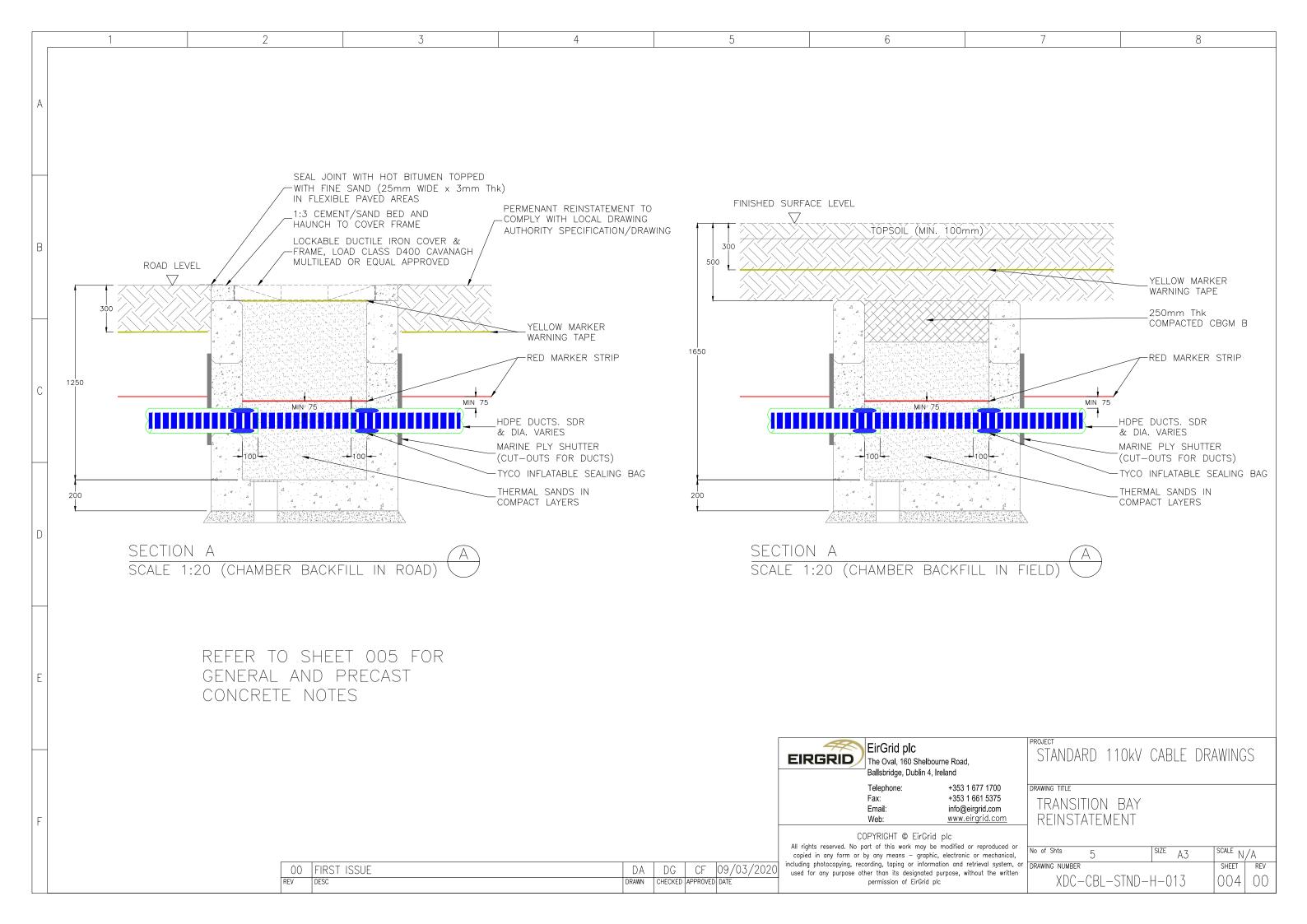












2 3 4 5 6 TABLE 1 - CONCRETE SPECIFICATION TO I.S. EN 206-1 GENERAL NOTES: PRECAST CONCRETE NOTES: 1. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL 1. ALL PRECAST CONCRETE ELEMENTS TO BE MANUFACTURED TO GROUND BEAMS. BLINDING & MASS RELEVANT ENGINEER'S, ARCHITECT'S AND ESB NETWORKS B.S. EN 13369:2013 "COMMON RULES FOR PRECAST FOUNDATIONS & ELEMENT CONCRETE. DRAINAGE PIPE DRAWINGS & SPECIFICATIONS. CONCRETE PRODUCTS". PITS/CHAMBERS & MANHOLE SURROUNDS 2. ALL DIMENSIONS ARE IN mm. 2. LIFTING INSERTS TO BE DESIGNED & INSTALLED TO PD EXPOSURE CLASS CEN/TR 15728:2008 "DESIGN AND USE OF INSERTS FOR MIN. BINDER (CEMENT+GGBS) 3. DO NOT SCALE DIMENSIONS. 220 LIFTING AND HANDLING OF PRECAST CONCRETE ELEMENTS". CONTENT (kg/m³) 4. THE CONTRACTOR SHALL CHECK ALL DIMENSIONS PRIOR TO GGBS TO EN 15167-1 3. WEIGHT OF PRECAST CONCRETE UNIT $(1.382 \text{ m}^3) = 3.31 \text{ T}.$ CONSTRUCTION, ANY DISCREPANCIES TO BE NOTIFIED TO 0 SPECIFIED LIFTING INSERTS HAVE A S.W.L. OF 4 T. THIS OFFICE IN WRITING IMMEDIATELY. (kg/m³)ACCOUNTING FOR DYNAMIC LOADING. CEM II/A-L TO I.S. EN 5. TEMPORARY SUPPORTS TO THE SIDES OF THE EXCAVATION 220 4. LOCATION & SPECIFICATION OF LIFTING INSERTS ARE MAY BE REQUIRED DEPENDENT ON SUBSOIL, METHOD OF 197-1 (kg/m³) ASSUMED TO FACILITATE DEMOULDING AND HANDLING IN WORK AND SITE CONSTRAINTS, AND ARE TO BE AGREED MAX. WATER/CEMENT RATIO ___ WITH THE ESBI ENGINEER PRIOR TO COMMENCEMENT OF PRECAST MANUFACTURING FACTORY. IT IS THE RESPONSIBILITY CHLORIDE CONTENT CLASS CI. 1.0 EXCAVATION. SIDE SLOPES OF AN UNSUPPORTED EXCAVATION OF THE PRECAST MANUFACTURER TO NOTIFY THE ESBI ENGINEER IF THESE ARE UNSUITABLE FOR HIS DEPENDENT UPON SUBSOIL AND SHALL BE AGREED WITH MAX. AGGREGATE (mm) 10 MANUFACTURING METHODOLOGY. ESBI ENGINEER TO BE ESBI ENGINEER. MIN. COVER (CMin) (mm) ___ INFORMED OF ANY ALTERNATIVE LIFTING LOCATIONS FOR 6. MAIN CONTRACTOR TO PROVIDE A METHOD STATEMENT AND FACTORY HANDLING & DEMOULDING. *COMPRESSIVE STRENGTH C16/20RISK ASSESSMENT FOR THE EXCAVATION WORKS FOR THE CLASS @ 28 DAYS ESBI ENGINEER TO REVIEW. 5. CONCRETE TO HAVE A MINIMUM STRENGTH OF 30 N/mm² NOTES: PRIOR TO HANDLING OR DEMOULDING. 7. THE CONSTRUCTION, AS SHOWN, IS APPLICABLE ONLY *C16/20 TO BE READ AS FOLLOWS: WHERE THE SUBSOIL AT FORMATION LEVEL EXCEEDS 100 6. MAIN CONTRACTOR TO ENSURE THAT A METHOD STATEMENT 16 = MIN. CYLINDER STRENGTH (N/mm²)AND RISK ASSESSMENT INCLUDING A LIFTING PLAN. ARE kN/m² BEARING CAPACITY. PRODUCED FOR INSTALLATION AND ARE AVAILABLE TO ESBI 20 = MIN. CUBE STRENGTH (N/mm²)8. SUITABILITY OF THE COVER AND CHAMBER TO BE ASSESSED ENGINEER FOR REVIEW IF REQUESTED. LIFTING PLAN TO DESIGN WORKING LIFE TO BE 50 YEARS MINIMUM BY THE PROJECT ENGINEER IN CIRCUMSTANCES OF HIGH INCORPORATE REQUIREMENTS OF LIFTING INSERTS AND LIFTING TRAFFIC LOADING IN ACCORDANCE WITH THE LOOP EYES. RECOMMENDATIONS OF T.I.I. DESIGN MANUAL FOR ROADS 7. A MINIMUM LIFTING SLING ANGLE OF 60° TO THE HORIZONTAL AND BRIDGES ADDENDUM TO HA 104/09. IS REQUIRED. 9. COVER AND FRAME TO B.S. EN 124. 8. A LIFTING SYSTEM WHICH ENSURES ALL LIFTING POINTS TAKE D 10. COVER SHALL HAVE APPROVED BADGED MARKING ON AN EQUAL LOAD IS REQUIRED. INCORPORATED TO THE APPROVAL OF THE ESBI ENGINEER. 9. TRANSPORT THE CHAMBER BY TRAILER WHEN TRAVELING OVER 11. ALL MATERIALS AND WORKMANSHIP TO BE IN ACCORDANCE ROUGH TERRAIN TO AVOID DAMAGE TO LIFTING ANCHORS.

WITH THE T.I.I. SPECIFICATION FOR ROADWORKS.

12. THE CENTER LINE OF THE DUCTS ENTERING THE CHAMBER SHALL BE ALIGNED WITH THE DUCTS ON THE OPPOSITE SIDE, SO THAT THE CABLE IS PULLED IN A STRAIGHT LINE.

13. DUCTS SHALL APPROACH THE CHAMBER IN STRAIGHT ALIGNMENT (HORIZONTAL & VERTICAL) FOR A MINIMUM OF 3 METERS BEFORE THE WALL OPENING.

14. * THE DEPTH FROM GROUND LEVEL TO TOP OF CONCRETE WALL SHALL BE 500 mm IN CULTIVATED FIELDS & GRASSED LANDS.

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DESC

- 10. HALFEN DEHA SPHERICAL LIFTING ANCHORS TO BE USED AS SPECIFIED. ANY DEVIATION FROM THIS MUST BE NOTIFIED TO ESBI ENGINEER BY PRECAST MANUFACTURER.
- 11. FORMWORK FOR PRECASTING TO BE OF A MINIMUM STANDARD OF VARNISHED WOODEN MOULD WITH PLANED BOARDS.
- 12. CONCRETE TO BE GRADE C32/40, AS SPECIFIED IN TABLE 1.

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			EIRGRID EirGrid plc The Oval, 160 Shelbourne Road, Ballsbridge, Dublin 4, Ireland		STANDARD 110kV CABLE DRAWINGS						
			Telepho Fax: Email: Web:	Fax: +353 1 661 5375 Email: info@eirgrid.com			TRANSITION CHAMBER NOTES				
				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,			No of Shts	5	size A3	SCALE N	/A
	G CKED	CF approved	09/03/2020 date	acca for any purpose enter than		purpose, without the written	DRAWING NUMBER	CBL-STND-I	H-013	SHEET 005	REV

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XC4

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C32/40