STANDARD 110kV CABLE DRAWINGS
6.0m x 2.5m JOINT BAY

DRAWING No.	SHEET No.	DESCRIPTION	REVISION No.
XDC-CBL-STND-H-012	001	110kV JOINT BAY - INDEX SHEET	02
XDC-CBL-STND-H-012	002	110kV JOINT BAY - GENERAL ARRANGEMENT	02
XDC-CBL-STND-H-012	003	110kV JOINT BAY - REINSTATEMENT	02
XDC-CBL-STND-H-012	004	110kV JOINT BAY - EARTHING ARRANGEMENT	02
XDC-CBL-STND-H-012	005	110kV JOINT BAY - GENERAL ARRANGEMENT OF CABLE CLAMPING	01
XDC-CBL-STND-H-012	006	110kV JOINT BAY - PRECAST JOINT BAY TRAFFICABLE COVER SLAB	00

REV	DESC	DRAWN	CHK'D	APP'D	DATE
02	THIRD ISSUE	AS	DG	NC	05/10/2026
01	UPDATED REVISION	AECOM	DG	NC	31/10/2023
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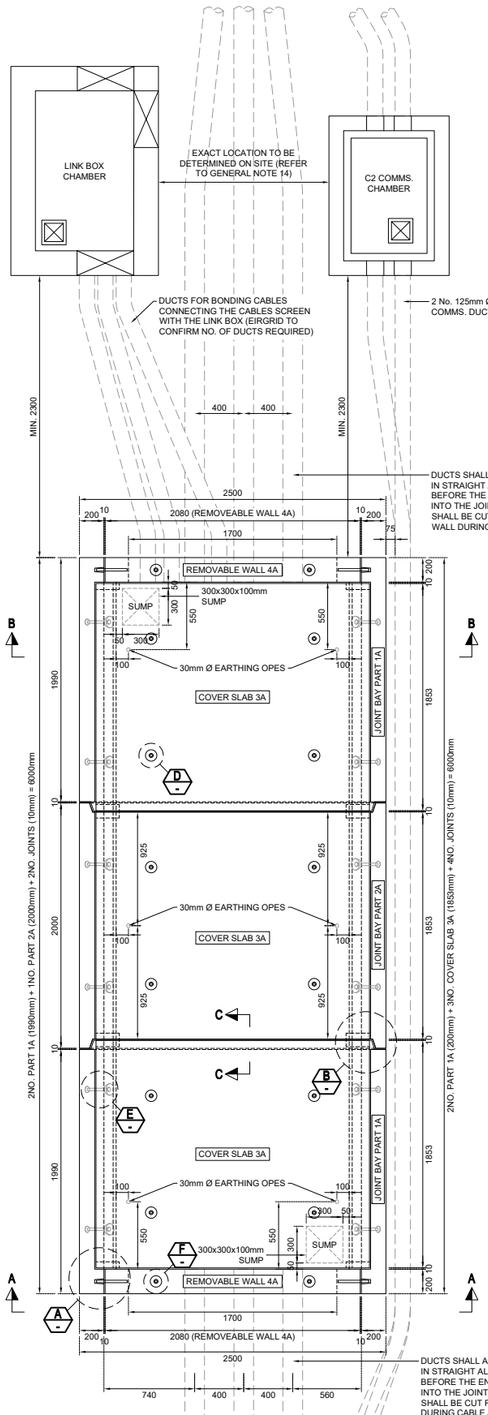
PROJECT
STANDARD 110 kV CABLE DRAWINGS

DRAWING TITLE
110 kV JOINT BAY
INDEX SHEET

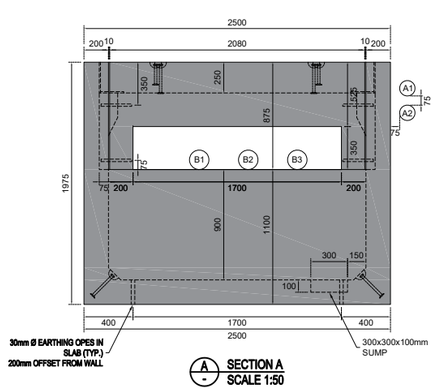
No of Shts 6 | SIZE A3 | SCALE NTS

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XDC-CBL-STND-H-012

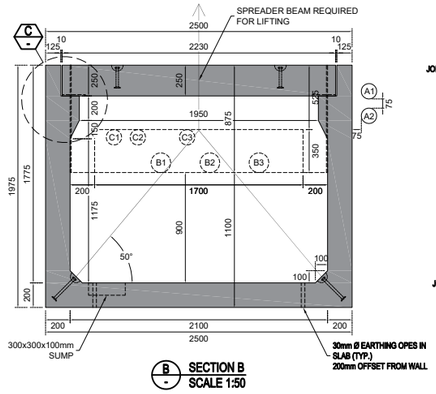
SHEET 001 | REV 02



TYPICAL PLAN OF JOINT BAY
SCALE 1:50

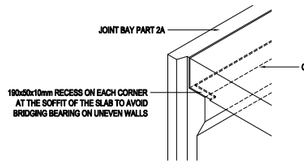


A SECTION A
SCALE 1:50

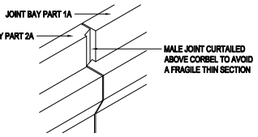


B SECTION B
SCALE 1:50

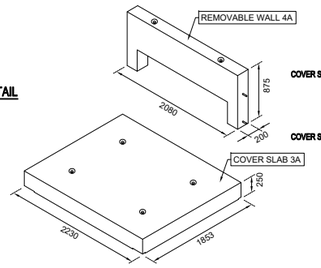
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B = 125/160mm OD HDPE DUCT (POWER)
C = 125mm OD HDPE DUCT (BONDING)

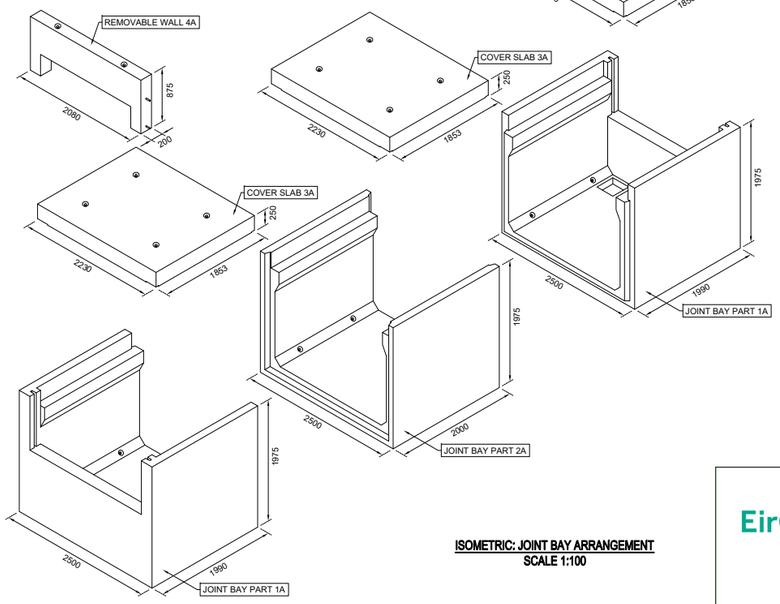


ISOMETRIC: COVER SLAB RECESS DETAIL
SCALE 1:50

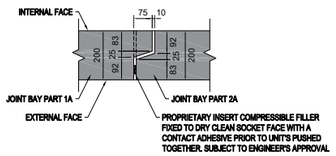


ISOMETRIC: MALE JOINT DETAIL
SCALE 1:50

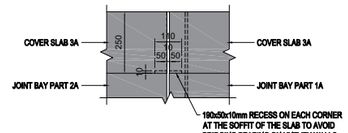




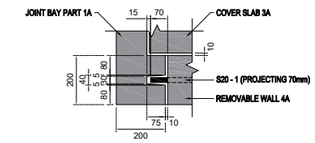
ISOMETRIC: JOINT BAY ARRANGEMENT
SCALE 1:100



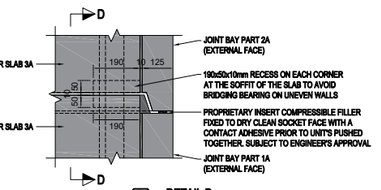
C SECTION C - CULVERT JOINT
SCALE 1:25



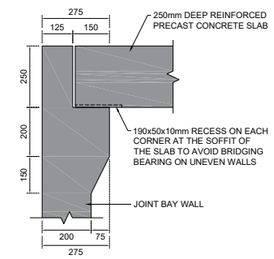
D SECTION D
SCALE 1:25



A DETAIL A - REMOVABLE WALL 4A JOINT
SCALE 1:25



B DETAIL B
SCALE 1:25



C DETAIL C - CORBEL DETAIL
SCALE 1:25



D DETAIL D - COVER SLAB 5T PIN ANCHOR
SCALE 1:25



E DETAIL E - PART 1A & 2A 5T PIN ANCHOR
SCALE 1:25



F DETAIL F - REMOVABLE WALL 5T PIN ANCHOR
SCALE 1:25

GENERAL NOTES

1. ALL PRECAST CONCRETE ELEMENTS TO BE MANUFACTURED TO B.S. EN 13369:2004 "COMMON RULES FOR PRECAST CONCRETE PRODUCTS"
2. 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" AND AS PER MANUFACTURES GUIDELINES.
3. SPECIFIED LIFTING INSERTS HAVE A S.W.L. OF 5 TONNE.
4. LOCATION AND SPECIFICATION OF LIFTING INSERTS ARE ASSUMED TO FACILITATE DEMOULDING AND HANDLING IN PRECAST MANUFACTURING FACTORY. IT IS THE RESPONSIBILITY OF THE DEVELOPER 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.
5. CONCRETE TO HAVE A MINIMUM STRENGTH OF 30 N/mm^2 PRIOR TO HANDLING OF DEMOULDING.
6. DEVELOPER 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.
7. A MINIMUM LIFTING SLING ANGLE OF 50° TO THE HORIZONTAL IS REQUIRED.
8. A LIFTING SYSTEM WHICH ENSURES ALL LIFTING POINTS TAKE ON AN EQUAL LOAD IS REQUIRED.
9. FORMWORK FINISHES TO BE IN ACCORDANCE WITH TII CC-SPW-01700. REFER TO TABLE 1 BELOW.
10. COVER TO REINFORCEMENT TO BE 40mm.
11. CONCRETE TO BE GRADE C40/50 AS SPECIFIED IN TABLE 1.
12. ALL CONCRETE TO BE IN ACCORDANCE WITH I.S. EN 206-1:2013 WITH THE MIX DESIGNS SHOWN IN TABLE 1.
13. THE JOINT BAY PRECAST UNITS ARE TO BE INSTALLED IN HORIZONTAL POSITION. THE TOP OF THE WALL SHOULD BE 600mm BELOW THE LOWEST POINT OF THE FINISHED ROAD LEVEL. INCREASES IN DEPTH OF COVER DUE TO CAMBER OR SLOPE OF THE ROAD SHOULD BE MADE UP IN THE UGM A BACKFILL LAYER.
14. WHERE POSSIBLE, THE LINK BOX & C2 COMMS. CHAMBERS ARE TO BE POSITIONED OFF THE WHEEL TRACK ZONE OF CARRIAGEWAYS. THE FINAL POSITIONS ARE TO BE AGREED WITH EIRGRID & THE ROADS AUTHORITY PRIOR TO INSTALLATION.
15. ALLOWABLE BEARING PRESSURE TO BE AT LEAST 210kPa.
16. FOR HIGHLY AGGRESSIVE ENVIRONMENTS, TABLE 1 IS NOT APPLICABLE. CONSULT WITH EIRGRID FOR BESPOKE DESIGN.
17. JOINT BAY TO BE UNIFORMLY BACKFILLED IN LAYERS NOT EXCEEDING 300mm THICK.
18. 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.
19. DEVELOPER IS RESPONSIBLE FOR ALL TRAFFIC MANAGEMENT INCLUDING WHERE NECESSARY SAFETY BARRIERS, AS PER D.R.A.
20. GROUND CONDITIONS TO BE ASSESSED AND STABILISED AS REQUIRED ON A SITE SPECIFIC BASIS BY A CHARTERED GEOTECHNICAL ENGINEER.
21. PERMISSIBLE TOLERANCES IN ACCORDANCE WITH IS EN 1992 FOR ALL JOINTS SHOULD BE CONSIDERED IN THE DESIGN, MANUFACTURING AND INSTALLATION OF ALL PRECAST REINFORCED CONCRETE JOINT BAY AND COVER SLAB UNITS.
22. JOINT BAYS IN NATIONAL (N) AND MOTORWAY (M) ROADS TO HAVE WATERPROOFING APPLIED TO THE JOINT BAY SECTIONS AND COVER SLABS AS PER CURRENT TII SPECIFICATIONS. JOINT BAYS IN ALL OTHER ROADS, UNLESS OTHERWISE AGREED, SHALL HAVE NO WATERPROOFING REQUIREMENTS.

TABLE 1

CONCRETE SPECIFICATION TO I.S. EN 206-1		
	BLINDING & MASS CONCRETE, DRAINAGE PIPE & MANHOLE SURROUNDINGS	FOUNDATIONS & WALLS
EXPOSURE CLASS	XD	XC2, XA2
MIN. CEMENT CONTENT (kg/m^3)	240	380
MAX. WATER/CEMENT RATIO	-	0.45
CEMENT TYPE TO I.S. EN 197-1	CEM I N	CEM II
CHLORIDE CONTENT CLASS	Cl. 1.0	Cl. 0.40
MAX. AGGREGATE	10	20
MIN. COVER (CMin) (mm)	-	40
*COMPRESSIVE STRENGTH CLASS	C16/20	C40/50

NOTES
1. *C16/20 TO BE READ AS FOLLOWS: 16 - REFERS TO MIN. CHARACTERISTIC CYLINDER STRENGTH (N/mm^2). 20 - REFERS TO MIN. CHARACTERISTIC CUBE STRENGTH (N/mm^2).
2. DESIGN LIFE TO BE 120 YEARS MINIMUM.
3. FINISHES (REFER TO NOTE 9 ABOVE):
   - BURIED UNFORMED FINISHES - U2
   - BURIED FORMED SURFACE - F2
4. REFER TO XDC-CBL-STND-H-012-006 (TABLE 1) FOR THE PRECAST JOINT BAY TRAFFICABLE COVER SLABS' CONCRETE SPECIFICATION.

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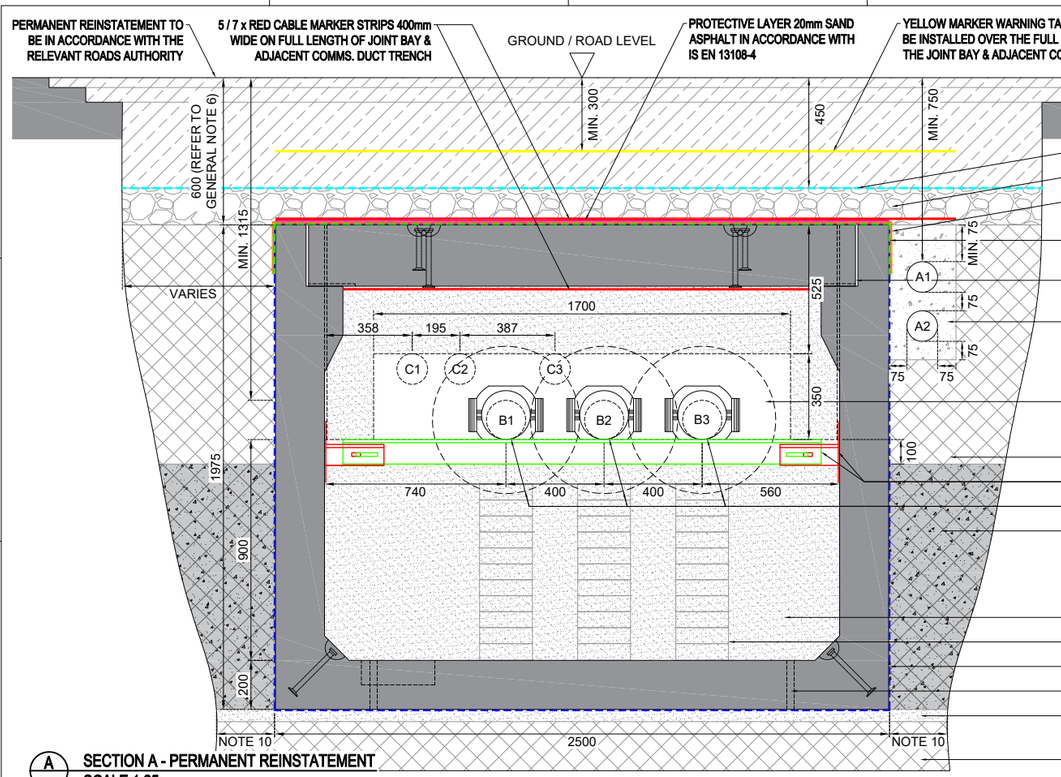
PROJECT
STANDARD 110 kV CABLE DRAWINGS

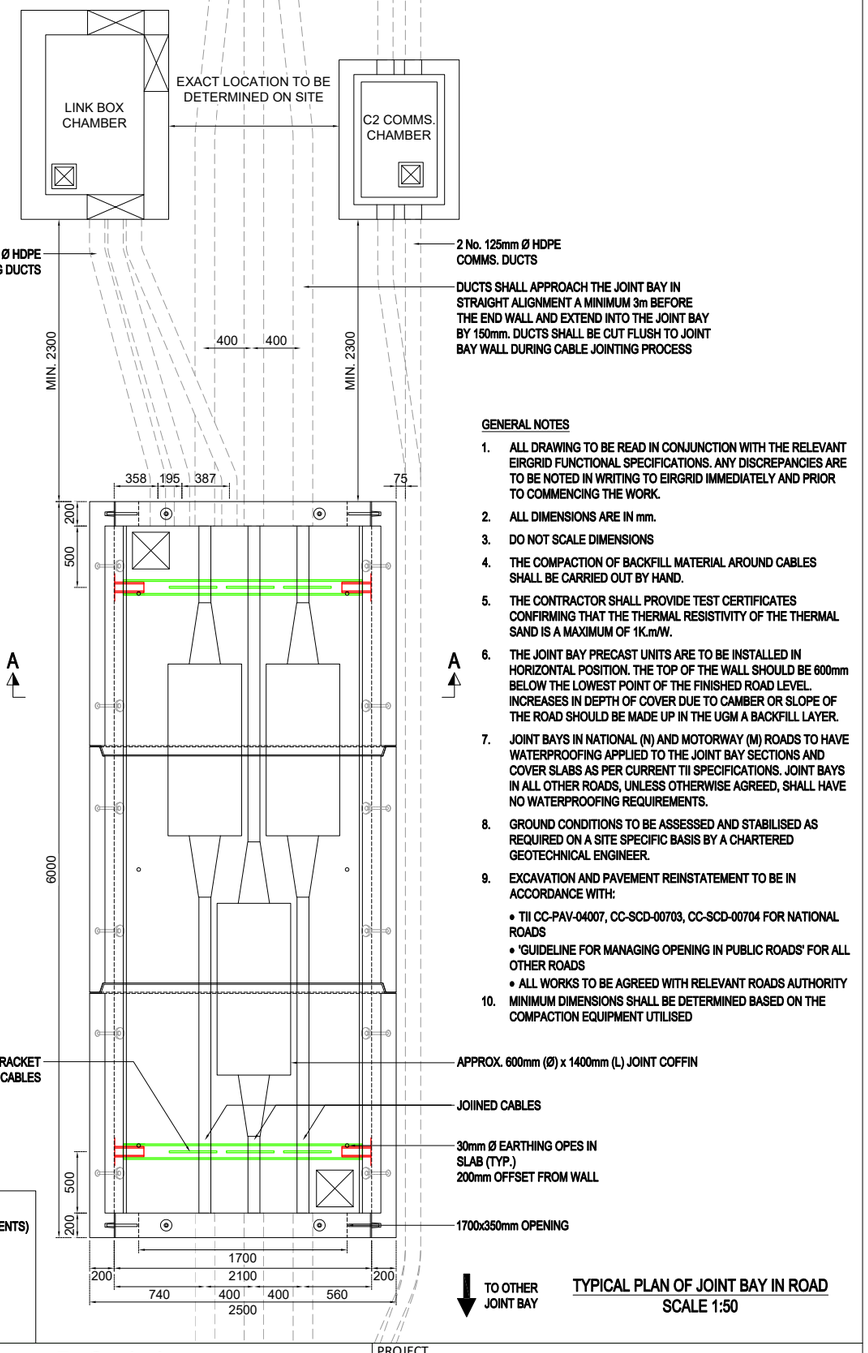
DRAWING TITLE
110 kV JOINT BAY
GENERAL ARRANGEMENT

No of Shts 6 | SIZE A3 | SCALE AS SHOWN

DRAWING NUMBER
XDC-CBL-STND-H-012

SHEET 002 | REV 02





GENERAL NOTES

1. ALL DRAWING TO BE READ IN CONJUNCTION WITH THE RELEVANT EIRGRID FUNCTIONAL SPECIFICATIONS. ANY DISCREPANCIES ARE TO BE NOTED IN WRITING TO EIRGRID IMMEDIATELY AND PRIOR TO COMMENCING THE WORK.
2. ALL DIMENSIONS ARE IN mm.
3. DO NOT SCALE DIMENSIONS
4. THE COMPACTION OF BACKFILL MATERIAL AROUND CABLES SHALL BE CARRIED OUT BY HAND.
5. THE CONTRACTOR SHALL PROVIDE TEST CERTIFICATES CONFIRMING THAT THE THERMAL RESISTIVITY OF THE THERMAL SAND IS A MAXIMUM OF 1K.m/W.
6. THE JOINT BAY PRECAST UNITS ARE TO BE INSTALLED IN HORIZONTAL POSITION. THE TOP OF THE WALL SHOULD BE 600mm BELOW THE LOWEST POINT OF THE FINISHED ROAD LEVEL. INCREASES IN DEPTH OF COVER DUE TO CAMBER OR SLOPE OF THE ROAD SHOULD BE MADE UP IN THE UGM A BACKFILL LAYER.
7. JOINT BAYS IN NATIONAL (N) AND MOTORWAY (M) ROADS TO HAVE WATERPROOFING APPLIED TO THE JOINT BAY SECTIONS AND COVER SLABS AS PER CURRENT TII SPECIFICATIONS. JOINT BAYS IN ALL OTHER ROADS, UNLESS OTHERWISE AGREED, SHALL HAVE NO WATERPROOFING REQUIREMENTS.
8. GROUND CONDITIONS TO BE ASSESSED AND STABILISED AS REQUIRED ON A SITE SPECIFIC BASIS BY A CHARTERED GEOTECHNICAL ENGINEER.
9. EXCAVATION AND PAVEMENT REINSTATEMENT TO BE IN ACCORDANCE WITH:
   - TII CC-PAV-04007, CC-SCD-00703, CC-SCD-00704 FOR NATIONAL ROADS
   - 'GUIDELINE FOR MANAGING OPENING IN PUBLIC ROADS' FOR ALL OTHER ROADS
   - ALL WORKS TO BE AGREED WITH RELEVANT ROADS AUTHORITY
10. MINIMUM DIMENSIONS SHALL BE DETERMINED BASED ON THE COMPACTION EQUIPMENT UTILISED

NOTE: A PRECAST CONCRETE SLAB DESIGNED TO TAKE TRAFFIC LOADS MAY BE USED AS A TEMPORARY COVER TO THE JOINT BAYS INSTEAD OF UGM A_C BACKFILL.

A = 125mm OD HDPE DUCT (COMMS)
B = 125/160mm OD HDPE DUCT (POWER)
C = 125mm OD HDPE DUCT (BONDING)

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PROJECT
STANDARD 110 kV CABLE DRAWINGS

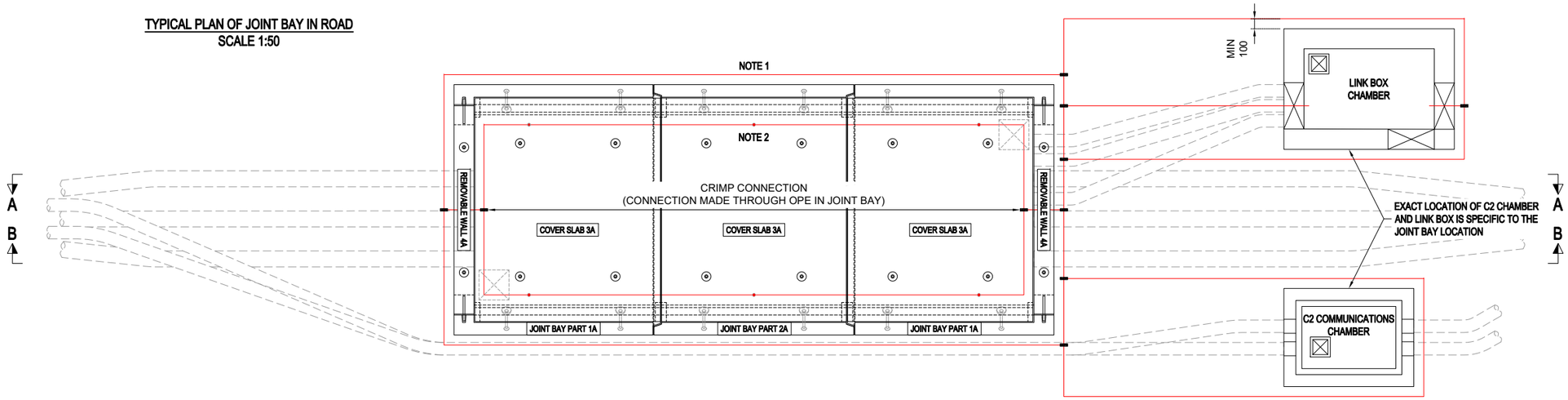
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110 kV JOINT BAY REINSTATEMENT

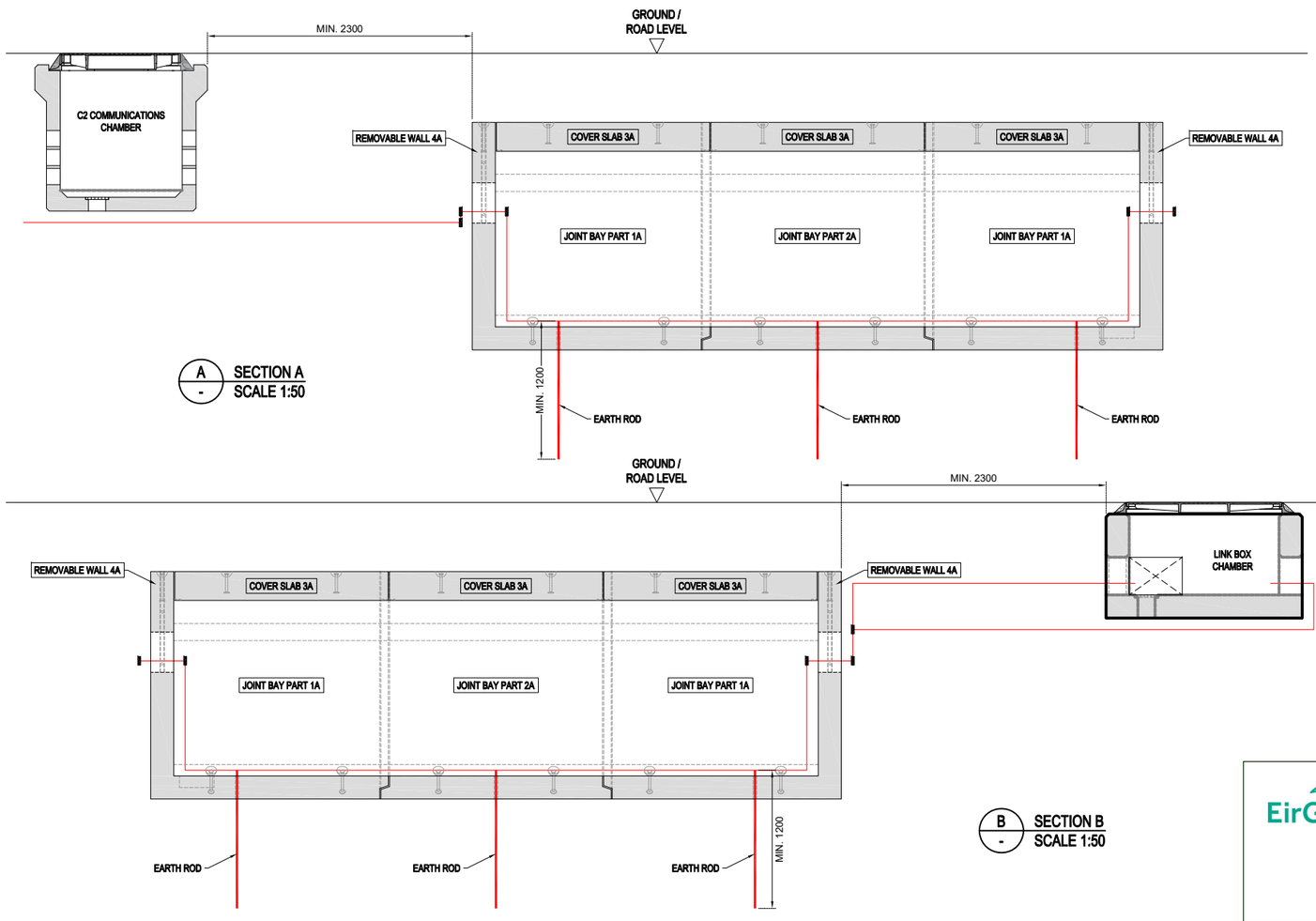
No of Shts	SIZE	SCALE
6	A3	AS SHOWN

DRAWING NUMBER
XDC-CBL-STND-H-012

SHEET	REV
003	02

TYPICAL PLAN OF JOINT BAY IN ROAD
SCALE 1:50





GENERAL NOTES:

1. FOR EARTH GRID SURROUNDING JOINT BAY AND CHAMBERS AREA, INSTALL A SINGLE LOOP OF 95mm² BARE Cu CONDUCTOR, EARTH GRID APPROX 500mm BELOW GROUND SURFACE LEVEL.
2. FOR EARTH GRID WITHIN THE JOINT BAY, INSTALL A SINGLE LOOP OF 95mm² BARE Cu CONDUCTOR RUNNING ALONG THE FLOOR OF THE JB CHAMBER. EARTH GRID APPROX 2375mm BELOW GROUND LEVEL.
3. EARTH RODS SHALL BE 1mm THICK COPPER-CLAD STEEL 1200mm LONG, 20mm Ø IN ACCORDANCE WITH ENA TS 43-94. THE EARTH CONNECTION TO THE EARTH ROD SHALL BE MOISTURE PROTECTED USING DENSO TAPE OVER THE COMPLETED CONNECTION.
4. EARTH RODS SHALL BE SUPPLIED COMPLETE WITH LUGS, BOLTS, HARDENED TIP, SCREW-ON STEEL DRIVING CAP, AND WITH THE APPROVED MEANS OF CONNECTING THE REQUIRED EARTHING LEADS.
5. EARTH RODS NOT LESS THAN 1.2m LONG TO BE INSTALLED VERTICALLY, ONE IN EACH CORNER OF THE JOINT BAY.
6. THE JOINT BAY EARTH RESISTANCE, WITH THIS ARRANGEMENT, SHOULD HAVE A MAXIMUM VALUE OF 10Ω. IF THIS VALUE CANNOT BE ACHIEVED, ADDITIONAL MEASURES WILL BE REQUIRED. IF REQUIRED, A COUNTERPOISE OF ADEQUATE LENGTH INSTALLED WITHIN THE HV CABLE TRENCH AND CONNECTED TO THE JOINT BAY EARTH RING SHOULD BE CONSIDERED.
7. STEP VOLTAGE AND TRANSFERRED VOLTAGE TO OTHER METALLIC OBJECTS INSTALLED IN THE VICINITY OF THE JOINT BAY SHALL BE CALCULATED AND CHECKED AS PER LATEST EIRGRID SPECIFICATION XDS-GFS-12-001.
8. FOR REQUIRED SHORT CIRCUIT RATING REFER TO EIRGRID FUNCTIONAL SPECIFICATION XDS-GFS-00-001

LEGEND

- 95mm² Cu BARE CONDUCTOR
- EARTH ROD
- C CRIMP

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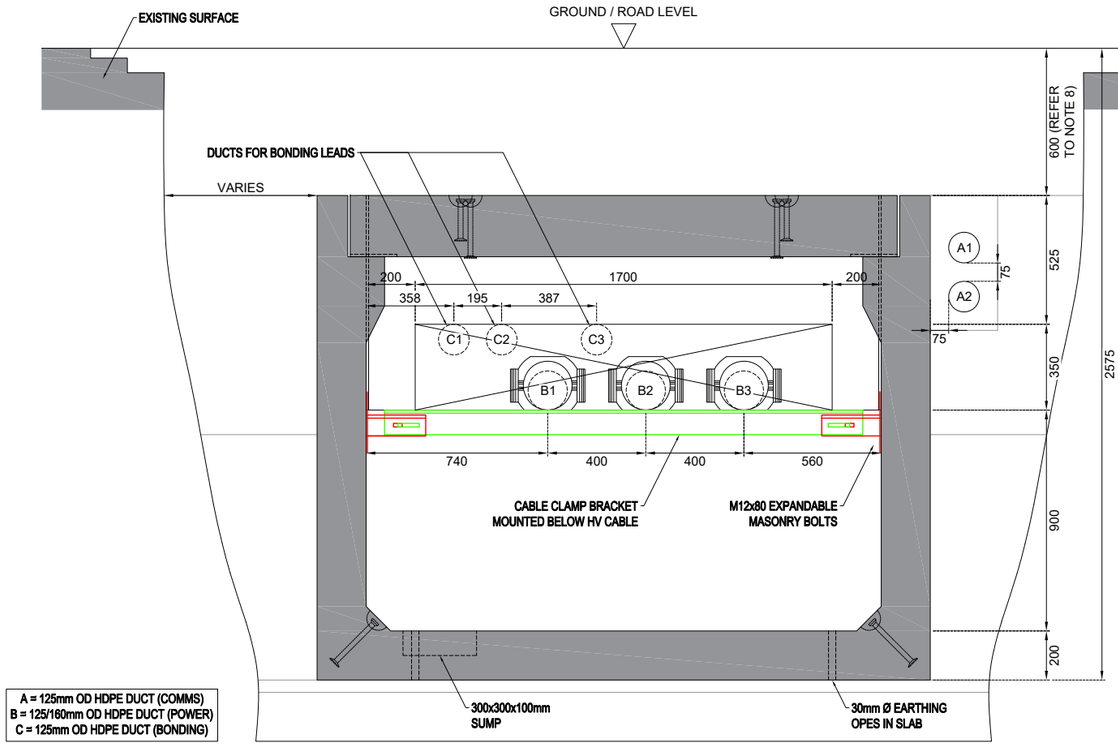
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PROJECT
STANDARD 110 kV CABLE DRAWINGS

DRAWING TITLE
110 kV JOINT BAY
TYPICAL EARTHING ARRANGEMENT

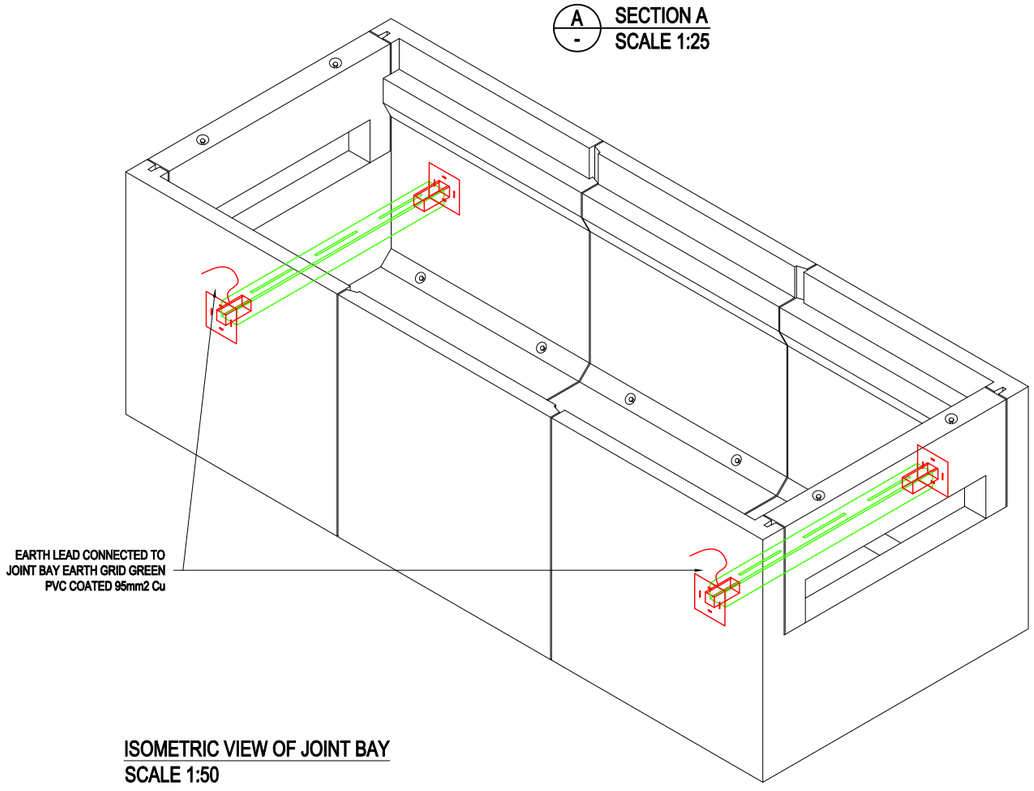
No of Shts 6 | SIZE A3 | SCALE AS SHOWN

DRAWING NUMBER XDC-CBL-STND-H-012 | SHEET 004 | REV 02

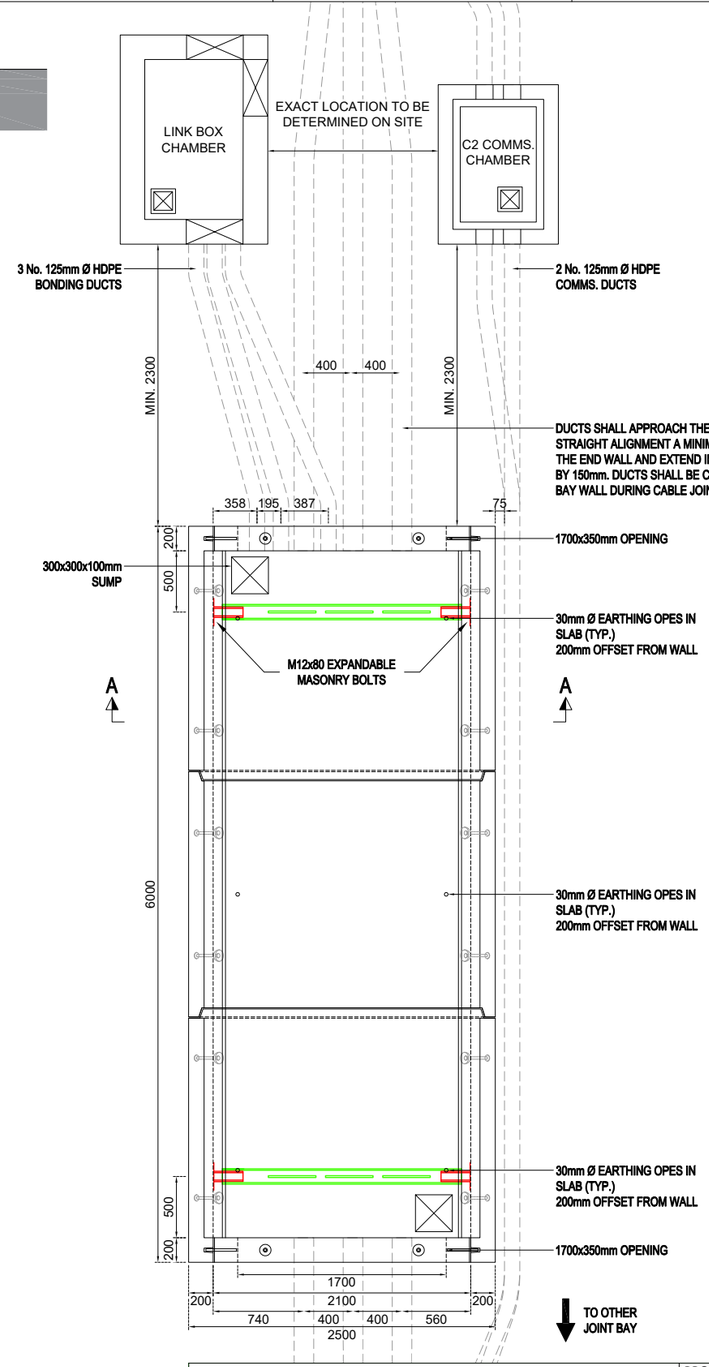


A = 125mm OD HDPE DUCT (COMMS)
B = 125/160mm OD HDPE DUCT (POWER)
C = 125mm OD HDPE DUCT (BONDING)

A
-
SECTION A
SCALE 1:25



ISOMETRIC VIEW OF JOINT BAY
SCALE 1:50



TYPICAL PLAN OF JOINT BAY IN ROAD
SCALE 1:50

NOTES

1. THE BAR SHOULD BE PUT INTO THE JOINT BAY BEFORE THE CABLES ARE PULLED AND LEFT ON THE FLOOR (ACROSS THE JOINT BAY AT THE END IT IS TO BE INSTALLED). (IT WILL REMAIN THERE UNTIL JOINTING IS COMPLETE, THEN IT WILL BE MOUNTED IN POSITION AND THE CABLES CLAMPED TO IT).
2. WHEN THE CABLES ARE PULLED IN, A TEMPORARY CLAMP WILL BE FITTED TO THE CABLE, TIGHT TO THE END OF THE DUCT. THIS WILL PROVIDE MAXIMUM SPACE IN THE JOINT BAY DURING JOINTING AND WILL ALSO ALLOW THE REQUIRED CABLE MOVEMENT DURING JOINTING.
3. THE CLAMP WILL BE FITTED AT THE END OF THE JOINT BAY WHERE THE CABLE LEAVES THE JOINT BAY GOING DOWN HILL.
4. THE BRACKET BAR WILL BE FITTED ~500mm FROM THE END WALL. THE EXACT POSITION "MAY" BE DICTATED BY THE BONDING LEADS.
5. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE RELEVANT EIRGRID FUNCTIONAL SPECIFICATIONS. ANY DISCREPANCIES ARE TO BE NOTED IN WRITING TO EIRGRID IMMEDIATELY.
6. ALL DIMENSIONS ARE IN MM.
7. DO NOT SCALE DIMENSIONS.
8. THE JOINT BAY PRECAST UNITS ARE TO BE INSTALLED IN HORIZONTAL POSITION. THE TOP OF THE WALL SHOULD BE 600mm BELOW THE LOWEST POINT OF THE FINISHED ROAD LEVEL. INCREASES IN DEPTH OF COVER DUE TO CAMBER OR SLOPE OF THE ROAD SHOULD BE MADE UP IN THE UGM A BACKFILL LAYER.

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PROJECT
STANDARD 110 kV CABLE DRAWINGS

DRAWING TITLE
110kV JOINT BAY
GENERAL ARRANGEMENT
OF CABLE CLAMPING

No of Shts 6 | SIZE A3 | SCALE AS SHOWN

DRAWING NUMBER XDC-CBL-STND-H-012 | SHEET 005 | REV 01

DRAWING IS NOT TO SCALE - IF IN DOUBT, ASK

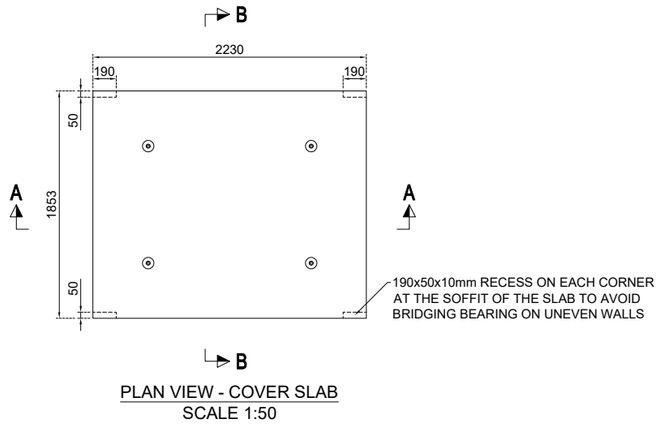
TABLE 1

CONCRETE SPECIFICATION TO I.S. EN 206:2013 & TII DESIGN FOR DURABILITY DN-STR-03012 (SEP 2024)	
	COVER SLAB
EXPOSURE CLASS	XD3 TOP, XD1 BOTTOM
MIN. CEMENT CONTENT (kg/m³)	400
MAX. WATER/CEMENT RATIO	0.45
CEMENT TYPE TO I.S. EN 197-1	CEM 1 N
CHLORIDE CONTENT CLASS	Cl. 0.40
GGBS CONTENT	> 50%
MAX. AGGREGATE (mm)	20
MIN. COVER (CMin) (mm)	60 TOP, 45 BOTTOM & 35 SIDES
*COMPRESSIVE STRENGTH CLASS	C50/60

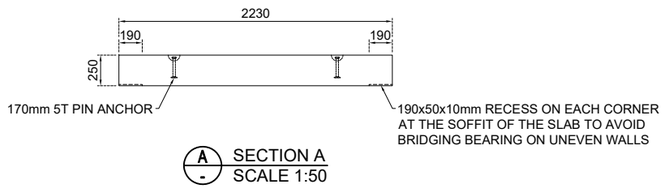
NOTES
1. *C50/60 TO BE READ AS FOLLOWS: 50 - REFERS TO MIN. CHARACTERISTIC CYLINDER STRENGTH (N/mm²). 60 - REFERS TO MIN. CHARACTERISTIC CUBE STRENGTH (N/mm²).
2. DESIGN LIFE TO BE 120 YEARS MINIMUM.

GENERAL NOTES:

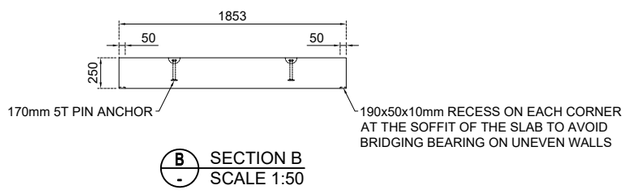
1. ALL PRECAST CONCRETE ELEMENTS TO BE MANUFACTURED TO B.S. EN 13369:2004 "COMMON RULES FOR PRECAST CONCRETE PRODUCTS"
2. LIFTING INSERTS TO BE DESIGNED & INSTALLED TO PD CEN/TR 15728:2008 "DESIGN AND USE OF INSERTS FOR LIFTING AND HANDLING OF PRECAST CONCRETE ELEMENTS" AND AS PER MANUFACTURER'S GUIDELINES.
3. SPECIFIED LIFTING INSERTS HAVE A S.W.L. OF 5 TONNE.
4. LOCATION AND SPECIFICATION OF LIFTING INSERTS ARE ASSUMED TO FACILITATE DEMOULDING AND HANDLING IN PRECAST MANUFACTURING FACTORY. IT IS THE RESPONSIBILITY OF THE DEVELOPER 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.
5. CONCRETE TO HAVE A MINIMUM STRENGTH OF 30 N/mm² PRIOR TO HANDLING OF DEMOULDING.
6. DEVELOPER 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.
7. A MINIMUM LIFTING SLING ANGLE OF 50° TO THE HORIZONTAL IS REQUIRED.
8. A LIFTING SYSTEM WHICH ENSURES ALL LIFTING POINTS TAKE ON AN EQUAL LOAD IS REQUIRED.
9. FORMWORK FOR PRECASTING SHALL BE F2 FOR FORMED SURFACES AND U3 FOR UNFORMED SURFACES.
10. COVER TO REINFORCEMENT SHALL BE AS PER TABLE 1.
11. ALL CONCRETE TO BE IN ACCORDANCE WITH I.S. EN 206-1:2013 WITH THE MIX DESIGNS SHOWN IN TABLE 1.
12. JOINT BAYS IN NATIONAL (N) AND MOTORWAY (M) ROADS TO HAVE WATERPROOFING APPLIED TO THE JOINT BAY SECTIONS AND COVER SLABS AS PER CURRENT TII SPECIFICATIONS. JOINT BAYS IN ALL OTHER ROADS, UNLESS OTHERWISE AGREED, SHALL HAVE NO WATERPROOFING REQUIREMENTS.
13. PERMISSIBLE TOLERANCES IN ACCORDANCE WITH IS EN 1992 FOR ALL JOINTS SHOULD BE CONSIDERED IN THE DESIGN, MANUFACTURING AND INSTALLATION OF ALL PRECAST REINFORCED CONCRETE JOINT BAY AND COVER SLAB UNITS.
14. STEEL REINFORCEMENT TO B.S. 4449-05 (GRADE B500B).



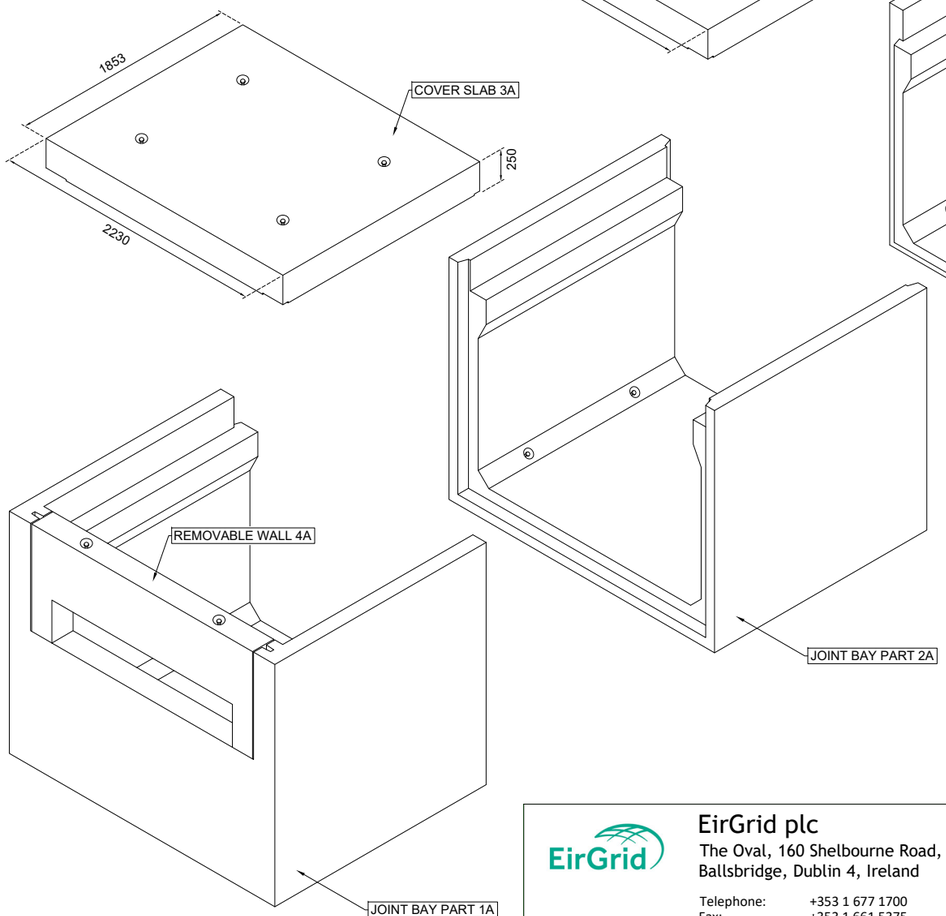
PLAN VIEW - COVER SLAB
SCALE 1:50



A - SECTION A
SCALE 1:50



B - SECTION B
SCALE 1:50



ISOMETRIC VIEW - JOINT BAY ARRANGEMENT
SCALE 1:100

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REV	DESC	DRAWN	CHK'D	APP'D	DATE
00	FIRST ISSUE	AS	DG	NC	05/10/2026

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PROJECT
STANDARD 110 kV CABLE DRAWINGS

DRAWING TITLE
110kV JOINT BAY
PRECAST JOINT BAY TRAFFICABLE COVER SLAB

No of Shts	SIZE	SCALE
6	A3	AS SHOWN

DRAWING NUMBER	SHEET	REV
XDC-CBL-STND-H-012	006	00