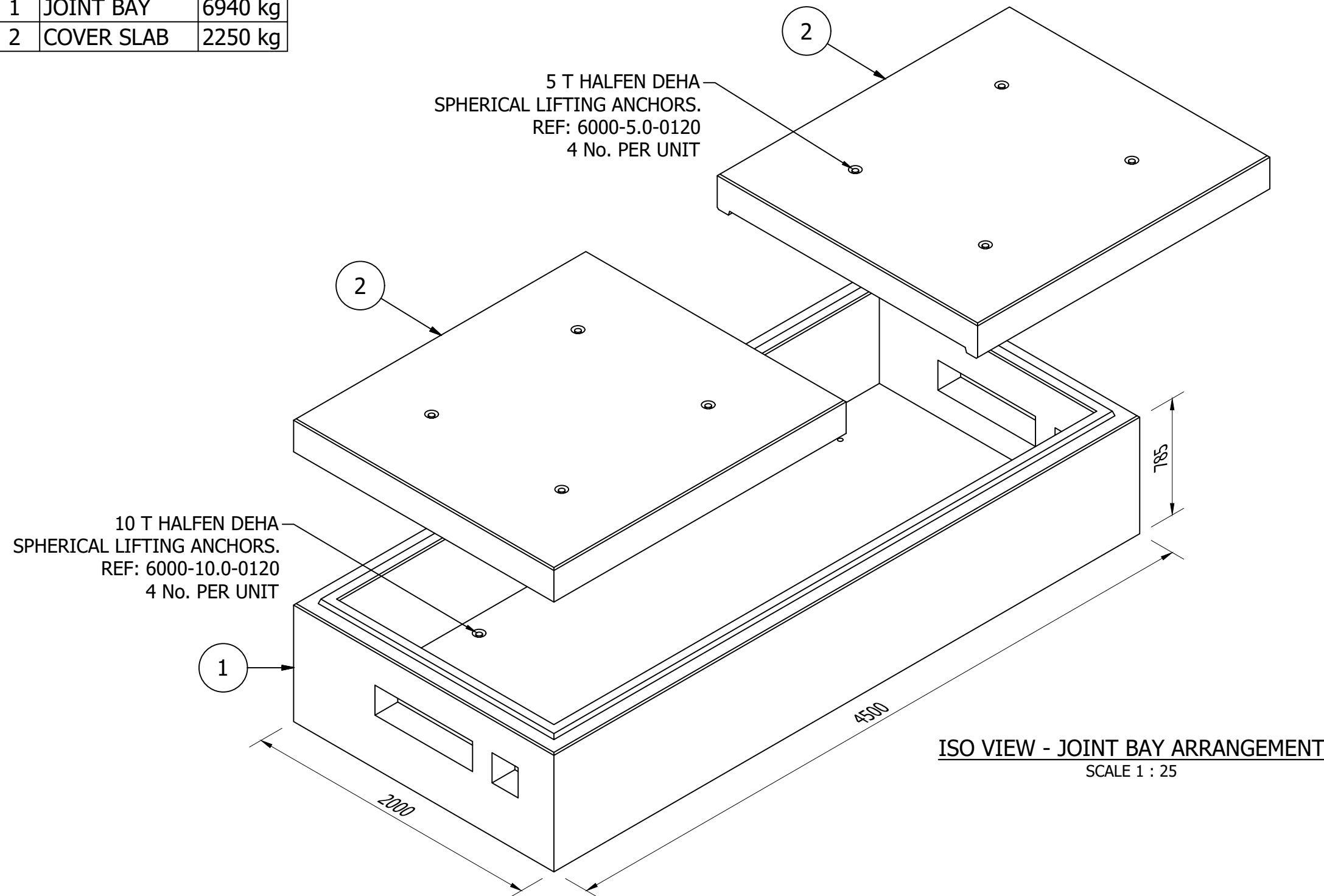
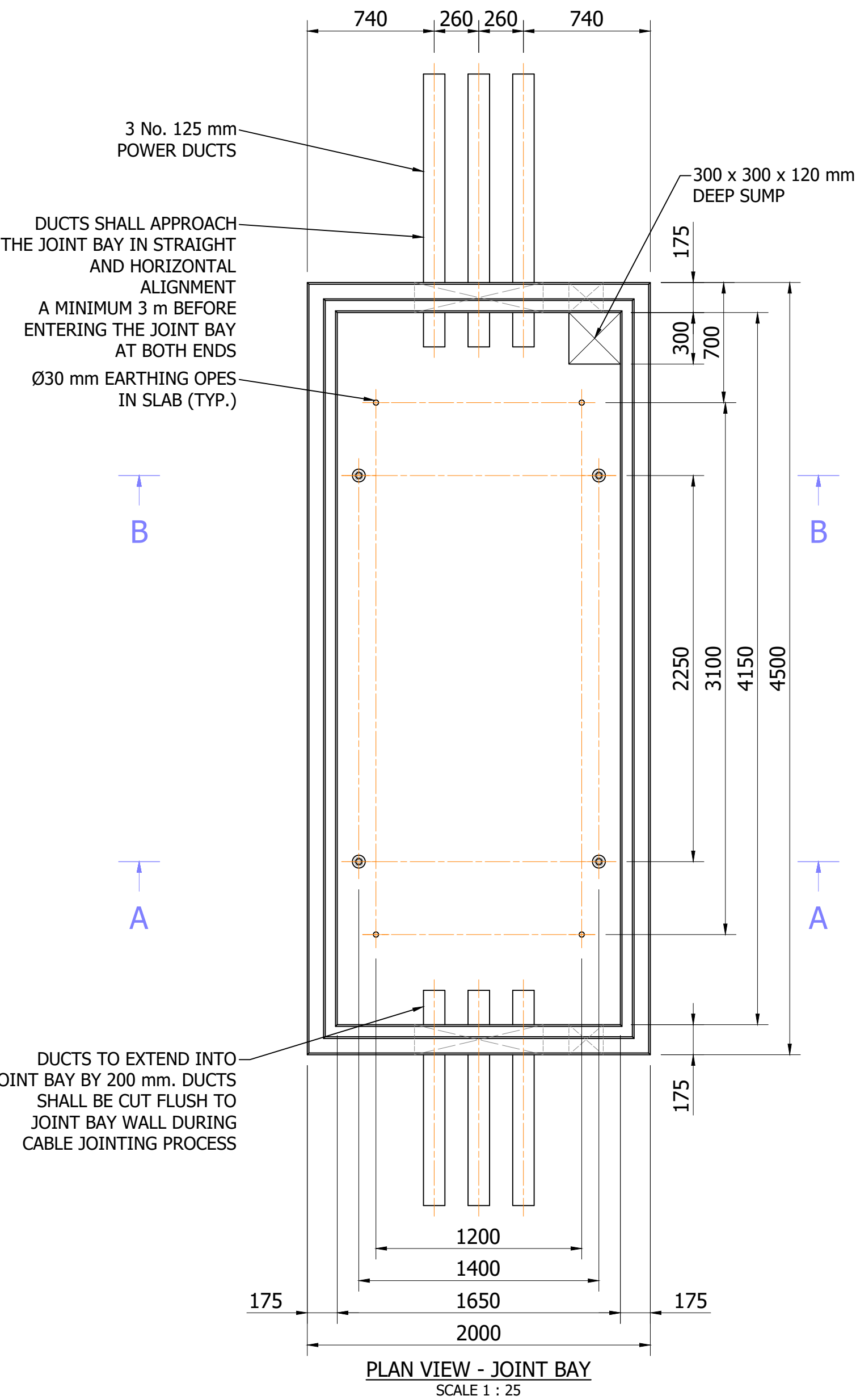


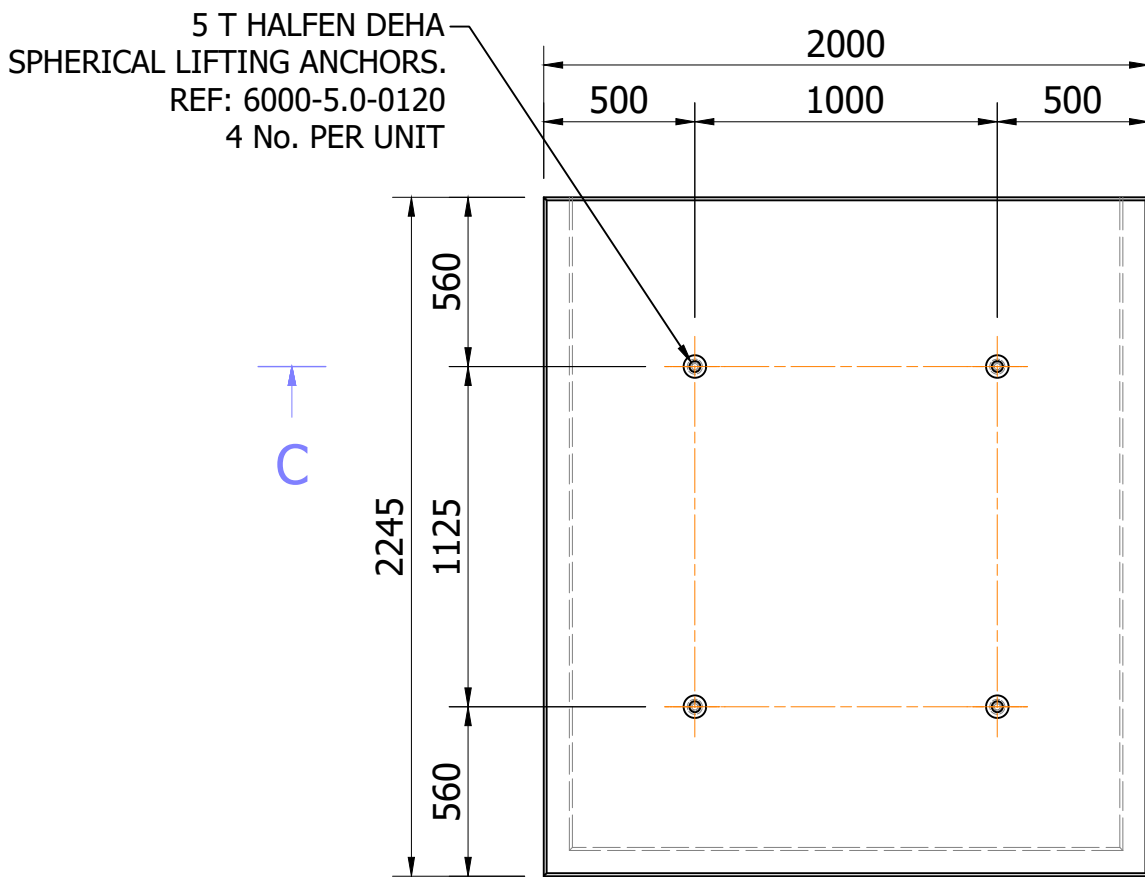
PARTS LIST			
ITEM	QTY	PART NUMBER	MASS
1	1	JOINT BAY	6940 kg
2	2	COVER SLAB	2250 kg



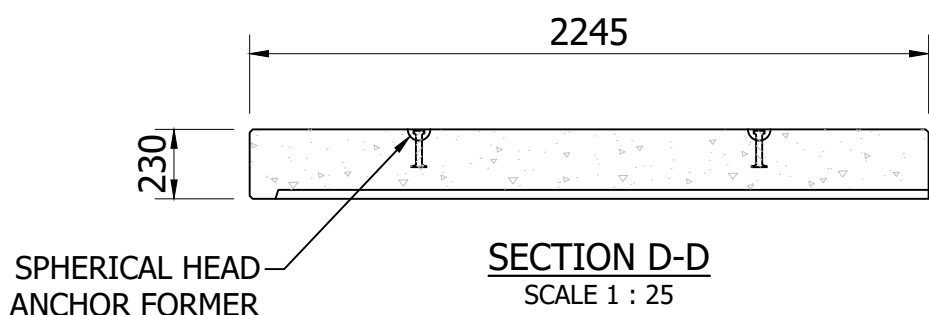
ISO VIEW - JOINT BAY ARRANGEMENT
SCALE 1 : 25



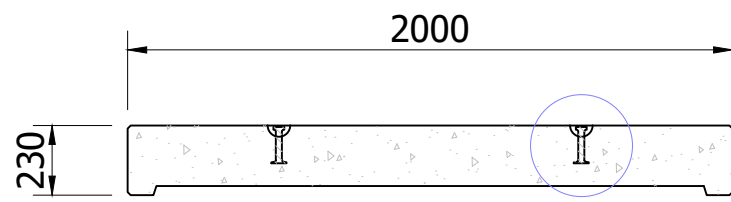
PLAN VIEW - JOINT BAY
SCALE 1 : 25



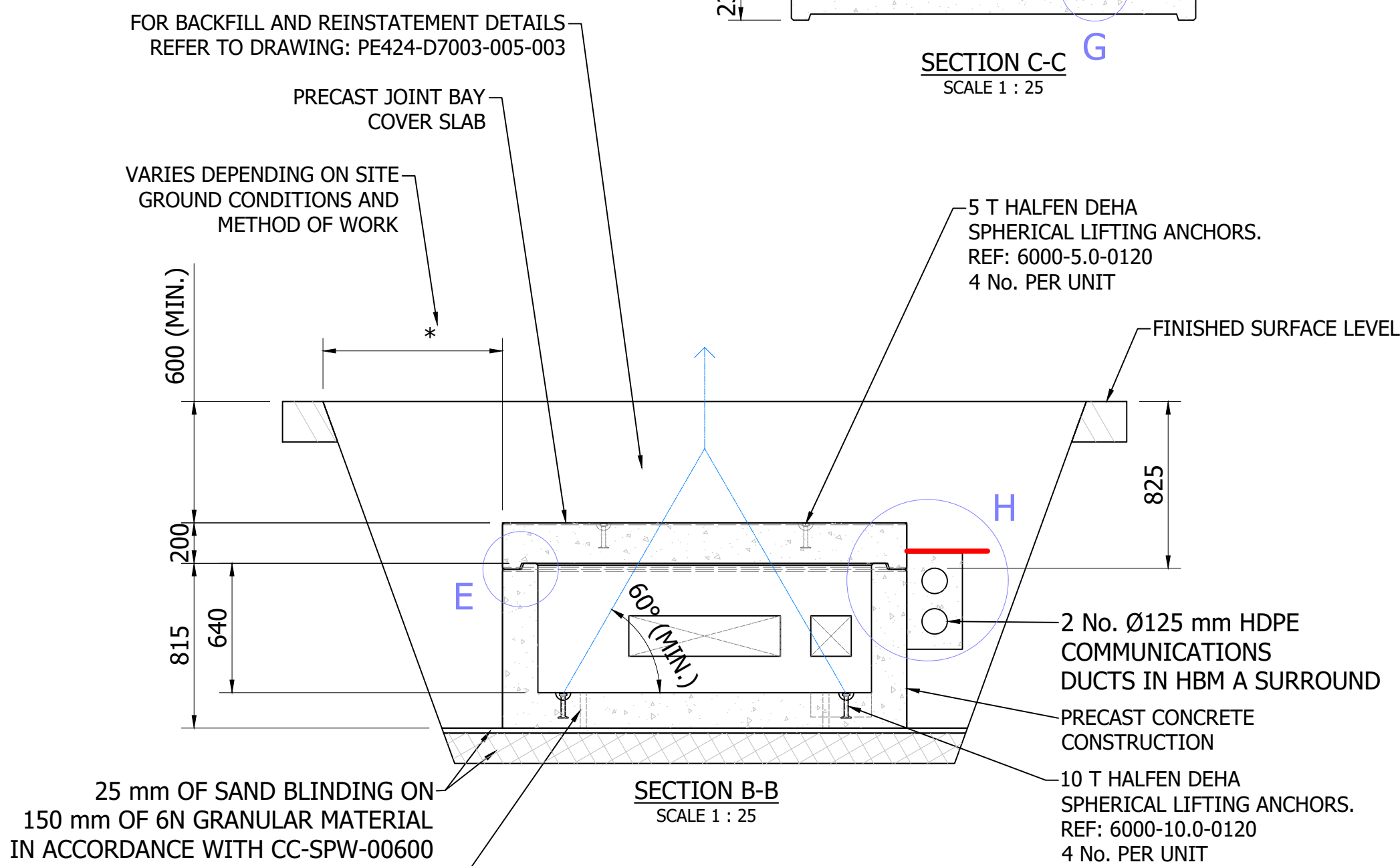
PLAN VIEW - COVER SLAB
SCALE 1 : 25



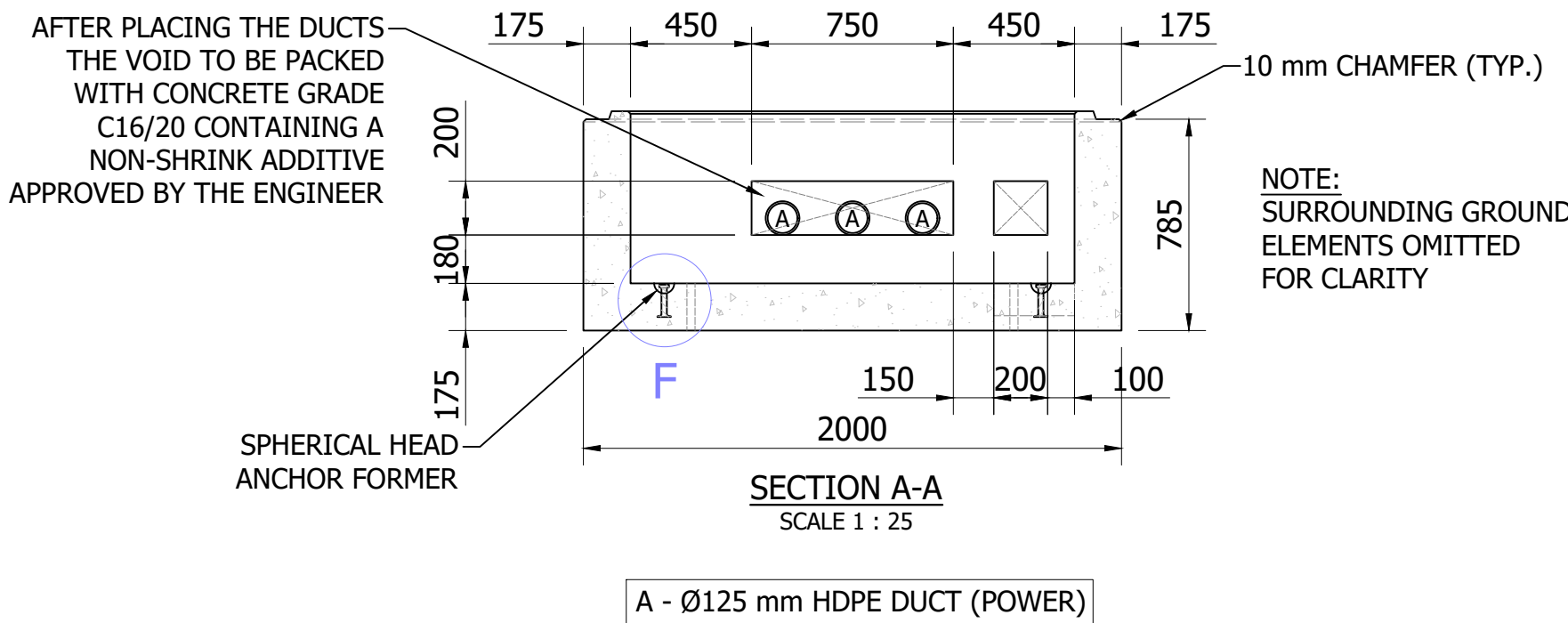
SECTION D-D
SCALE 1 : 25



SECTION C-C
SCALE 1 : 25

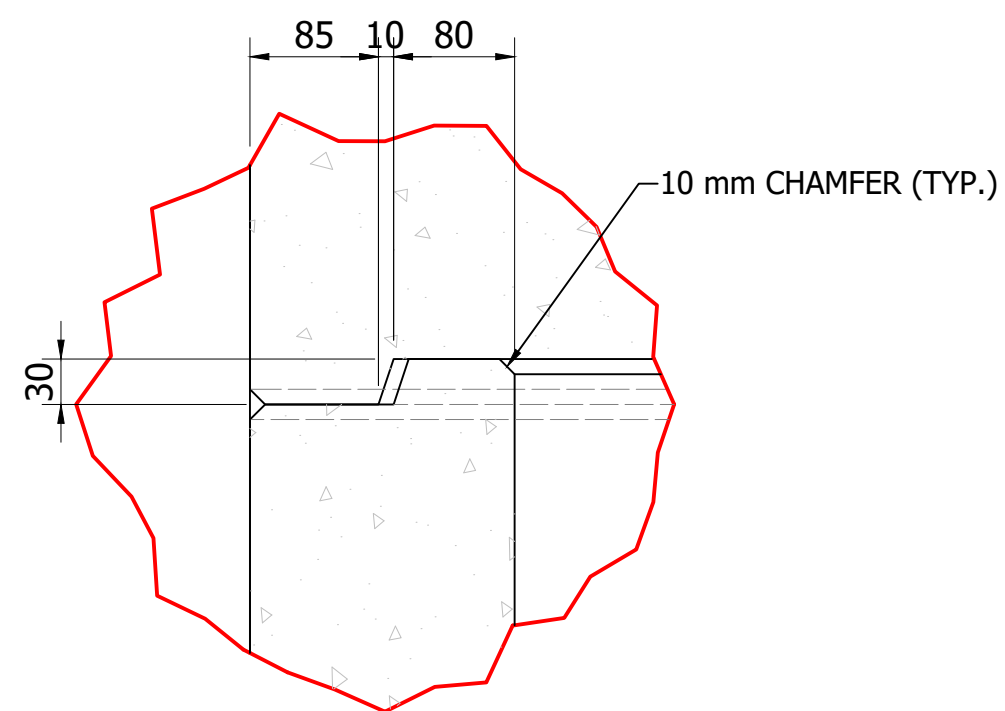


SECTION B-B
SCALE 1 : 25

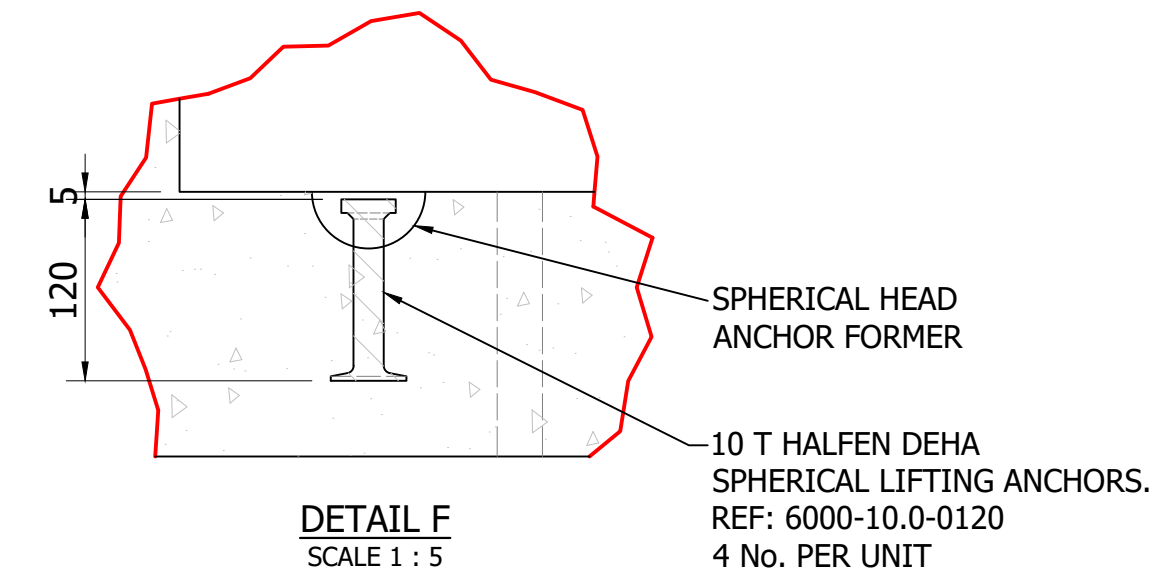


SECTION A-A
SCALE 1 : 25

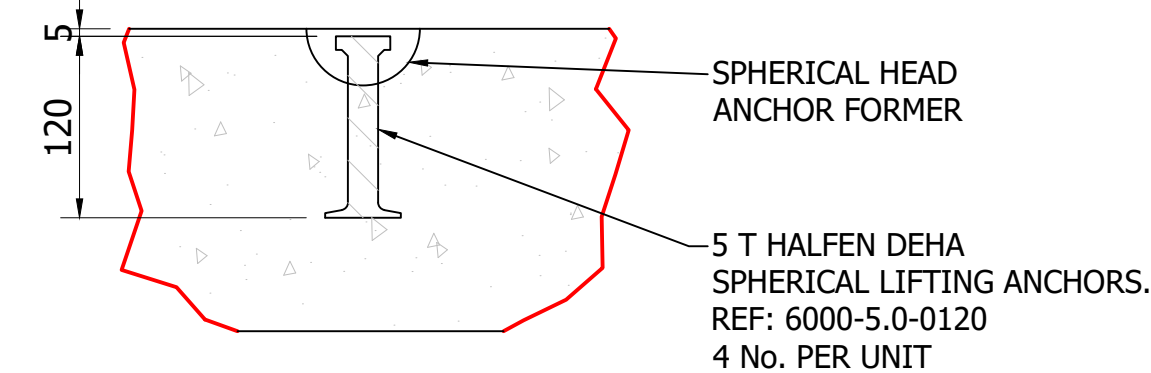
A - Ø125 mm HDPE DUCT (POWER)



DETAIL E
SCALE 1 : 5



DETAIL F
SCALE 1 : 5



DETAIL G
SCALE 1 : 5

- PRECAST CONCRETE NOTES:
- ALL PRECAST CONCRETE ELEMENTS TO BE MANUFACTURED TO B.S. EN 13369:2013 "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".
 - WEIGHT OF JOINT BAY PRECAST CONCRETE UNIT = 6.94 T. SPECIFIED LIFTING INSERTS HAVE A S.W.L. OF 10 T. ACCOUNTING FOR DYNAMIC LOADING.
 - WEIGHT OF COVER SLAB PRECAST CONCRETE UNIT = 2.25 T. SPECIFIED LIFTING INSERTS HAVE A S.W.L. OF 5 T. ACCOUNTING FOR DYNAMIC LOADING.
 - LOCATION & SPECIFICATION OF LIFTING INSERTS ARE ASSUMED TO FACILITATE DEMOULDING AND HANDLING IN PRECAST MANUFACTURING FACTORY. IT IS THE RESPONSIBILITY OF THE PRECAST MANUFACTURER TO NOTIFY THE ESB ENGINEER IF THESE ARE UNSUITABLE FOR THE MANUFACTURING METHODOLOGY. ESB ENGINEER 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 OR DEMOULDING.
 - MAIN CONTRACTOR TO ENSURE THAT A METHOD STATEMENT AND RISK ASSESSMENT INCLUDING LIFTING PLAN, ARE PRODUCED FOR INSTALLATION AND ARE AVAILABLE TO ESB ENGINEER FOR REVIEW IF REQUESTED.
 - LIFTING TO BE AS PER MANUFACTURERS INSTRUCTIONS. HALFEN DEHA SPHERICAL LIFTING ANCHORS TO BE USED AS SPECIFIED.
 - A LIFTING SYSTEM WHICH ENSURES ALL LIFTING POINTS TAKE ON AN EQUAL LOAD IS REQUIRED. FORMWORK FOR PRECASTING SHALL BE F2 FOR FORMED SURFACES AND U3 FOR UNFORMED SURFACES.
 - UNITS TO BE FITTED TOGETHER BY PRECAST CONCRETE MANUFACTURER PRIOR TO DELIVERY ON SITE TO ENSURE FIT.
 - ALL CONCRETE TO BE IN ACCORDANCE WITH I.S. EN 206-1:2013 WITH THE MIX DESIGNS SHOWN IN TABLE 1.
 - ALL EXPOSED CONCRETE EDGES TO BE CHAMFERED AS SHOWN.

GENERAL NOTES:

- THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ENGINEER'S, ARCHITECT'S AND ESB NETWORKS DRAWINGS & SPECIFICATIONS.
- ALL DIMENSIONS ARE IN mm.
- DO NOT SCALE DIMENSIONS.
- THE CONTRACTOR SHALL CHECK ALL DIMENSIONS PRIOR TO CONSTRUCTION, ANY DISCREPANCIES TO BE NOTIFIED TO ESB IMMEDIATELY.
- CONTRACTOR / PSCS TO ASSESS, DESIGN AND IMPLEMENT ANY TEMPORARY WORKS REQUIRED TO MAINTAIN GROUND STABILITY AROUND THE JOINT BAY PERIMETER DURING INSTALLATION AND SUBSEQUENT ACCESS TASKS TO THE JOINT BAY.
- MAIN CONTRACTOR TO MAKE AVAILABLE TO ESB ON REQUEST A METHOD STATEMENT AND RISK ASSESSMENT FOR THE JOINT BAY EXCAVATION AND INSTALLATION WORKS.
- THE CONSTRUCTION, AS SHOWN, IS APPLICABLE ONLY WHERE THE SUBSOIL AT FORMATION LEVEL EXCEEDS 100 kN/m² BEARING CAPACITY.
- JOINT BAYS LOCATED WITHIN NATIONAL (N) AND MOTORWAY (M) ROADS SHALL BE WATERPROOFED. JOINT BAYS LOCATED WITHIN REGIONAL (R), LOCAL (L) OR OTHER ROADS SHALL NOT REQUIRE WATERPROOFING UNLESS REQUIRED BY THE RELEVANT ROADS AUTHORITY. PLEASE REFER TO PE424-D7003-005-003 LATEST REVISION.

002	JOINT BAY DESIGN REVISED AND PRECAST COVER ADDED						
001	30/05/25	TITLE BLOCK UPDATED	K.D.	K.D.	P.ON.	J.M.	
000	03/10/16	ISSUED FOR CONSTRUCTION	G.R.	G.R.	M.A.	T.S.	
REV	DATE	REVISION DESCRIPTION	DRN	PROD	VER	APP	

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PURPOSE OF ISSUE - PRELIMINARY UNLESS INDICATED
CLIENT APPROVAL ☐ PLANNING ☐ TENDER ☐ CONSTRUCTION ☒ AS-BUILT ☐

CLIENT
ESB NETWORKS

PROJECT
38 kV Cables Standards

CONTRACT
38 kV CABLE STANDARDS

DRAWING TITLE
38 kV SINGLE CIRCUIT PRECAST JOINT BAY
GENERAL ARRANGEMENT

PRODUCTION UNIT
Transmission and Distribution Delivery



DRAWN E.Mans	PRODUCED E.Mans	VERIFIED O.Canty	APPROVED J.Martin	APPROVAL DATE 02/10/2026
CLIENT REF TC216286	NO. OF SHTS 1	SIZE A1	SCALE AS SHOWN	

DRAWING NUMBER
PE424-D7003-005-002-002

CONCRETE SPECIFICATION TO I.S. EN 206:2013 & TII DESIGN FOR DURABILITY DN-STR-03012 (SEP 2024)		
	COVER SLAB 38 kV JOINT BAY	WALLS AND FOUNDATION BASE 38 kV JOINT BAYS
EXPOSURE CLASS	XD3 TOP & SIDES, XD1 BOTTOM FACE	XD2
MIN. CEMENT CONTENT (kg/m ³)	400	400
MAX. WATER / CEMENT RATIO	0.45	0.45
CEMENT TYPE TO I.S. EN 197-1	CEM I N & CEM IIB-S	CEM I N & CEM IIB-S
CHLORIDE CONTENT CLASS	CL 0,40	CL 0,40
GGBS CONTENT	>30%	>30%
MAX. AGGREGATE (mm)	20	20
MIN. COVER (Cmin) (mm)	50mm TOP & SIDES, 40mm BOTTOM	45mm
*COMPRESSIVE STRENGTH CLASS	C50/60	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 working life to be 120 years minimum.