

LEGEND	
LM	LIGHTNING MAST
SA	SURGE ARRESTER
VT	VOLTAGE TRANSFORMER
CT	CURRENT TRANSFORMER, SINGLE PHASE
PI	POST INSULATOR
LT	LINE TRAP (TYPICALLY R & T PHASES)
DL/DE	LINE/EARTH DISCONNECT
DT/DEM4	TRAF0/EARTH DISCONNECT
CB	CIRCUIT BREAKER
DA DB	BUSBAR DISCONNECT
SA1/SA2 SB1/SB2	SECTIONALISER DISCONNECT
CSE	CABLE SEALING END

- NEW C-TYPE STATION
 - FUTURE RING STATION (SPACE ONLY)
- NOTE 1:**
THIS IS A CONCEPTUAL DESIGN FOR GUIDANCE ONLY. ALL DIMENSIONS AND REFERENCES GIVEN ARE INDICATIVE ONLY. LAYOUT TO BE FURTHER OPTIMISED DURING DETAILED DESIGN PENDING SPECIFIC EQUIPMENT SUPPLIER AND SITE DETAILS.
- NOTE 2:**
RELOCATION OR ADDITIONAL POST INSULATORS MAY BE REQUIRED, SUBJECT TO DETAIL DESIGN. NOT SHOWN FOR CLARITY.
- NOTE 3:**
VEHICULAR ACCESS TO ALL HV PLANT SHALL BE PERMITTED WITHOUT THE NEED FOR UNNECESSARY PROXIMITY OUTAGES. CONSIDERATION OF LV CABLE TRENCH LAYOUTS AND TRAFFIC-BEARING TRENCH COVERS SHALL BE CONSIDERED DURING DETAILED DESIGN.
- NOTE 4:**
LIGHTNING MAST, LV TRENCH DUCT ROUTES, MARSHALLING/INTERFACE CABINETS AND LIGHTING FIXTURES SHALL BE CONSIDERED DURING DETAIL DESIGN.
- NOTE 5 (AS ILLUSTRATED ON DRAWING):**
TWO PHASES OF THE LOW LEVEL BAY CONDUCTORS ARE ARRANGED CLOSER TOGETHER TO AVOID UNNECESSARY PROXIMITY OUTAGES ON ADJACENT BAYS. TO BE REPEATED FOR ALL BAYS.
- NOTE 6 (AS ILLUSTRATED ON DRAWING):**
INDEPENDENT SUPPORTED SPAN ON LOW LEVEL BAY CONDUCTORS BETWEEN DA AND DB. THE CONNECTION AT THE PI SHOULD BE ABLE TO BE BROKEN TO ALLOW THE LINK BETWEEN DA AND DB TO BE DISCONNECTED. PI AND SPAN TO BE INSTALLED ON ALL FUTURE BAYS IN THE C-TYPE (PHASE 1) STATION.
- NOTE 7 (AS ILLUSTRATED ON DRAWING):**
DISTANCE BETWEEN CT AND CB ON WING COUPLER TO BE A MINIMUM OF 6500mm FROM THE BUSBAR SIDE OF THE OPEN DISCONNECT. DISTANCE BETWEEN DISCONNECT AND ADJACENT LOW LEVEL BAY CONDUCTOR TO BE A MINIMUM OF 6500mm.
- NOTE 8 (AS ILLUSTRATED ON DRAWING):**
6500mm DISTANCE REQUIRED BETWEEN BUSBAR AND CB ON EACH BAY.
- NOTE 9 (AS ILLUSTRATED ON DRAWING):**
DIESEL GENERATOR AND STATION RURAL FEEDING ARRANGEMENT SHALL BE IN LINE WITH EIRGRID STATION AUXILIARY POWER SUPPLIES SPECIFICATION.
- NOTE 10:**
THIS LAYOUT RELATES PRIMARILY TO NEW SUBSTATIONS AND SIGNIFICANT EXTENSIONS PROJECTS. OTHER DEVELOPMENT OF EXISTING SUBSTATIONS (BROWN-FIELD) SHALL MAKE ALL REASONABLE EFFORTS TO BRING THE ARRANGEMENT IN LINE WITH THIS STANDARD (INCREASED CLEARANCES, NEW WRAP-AROUND COUPLER, AND SECTIONALISER CONFIGURATION). THE DEVELOPMENT SHALL NOT WORSEN ANY EXISTING O&M CLEARANCES WHICH MAY NOT BE IN ACCORDANCE WITH THIS STANDARD LAYOUT.
- NOTE 11 (AS ILLUSTRATED ON DRAWING):**
REQUIREMENT FOR SURGE ARRESTERS IN CUSTOMER COMPOUND TO BE DETERMINED BASED ON INSULATION CO-ORDINATION STUDY.
- NOTE 12:**
MINIMUM ELECTRICAL CLEARANCES SHALL COMPLY AS OUTLINED IN EIRGRID GENERAL REQUIREMENTS SPECIFICATION XDS-GFS-00-001.
- NOTE 13:**
BAY CONDUCTOR PHASING TO BE AGREED BASED ON PARTICULAR PROJECT REQUIREMENTS.
- NOTE 14 (AS ILLUSTRATED ON DRAWING):**
A DETAILED ARRANGEMENT TO PREVENT PROPERTY BOUNDARY BEING USED AS A CLIMBING AID TO BE AGREED WITH EIRGRID.

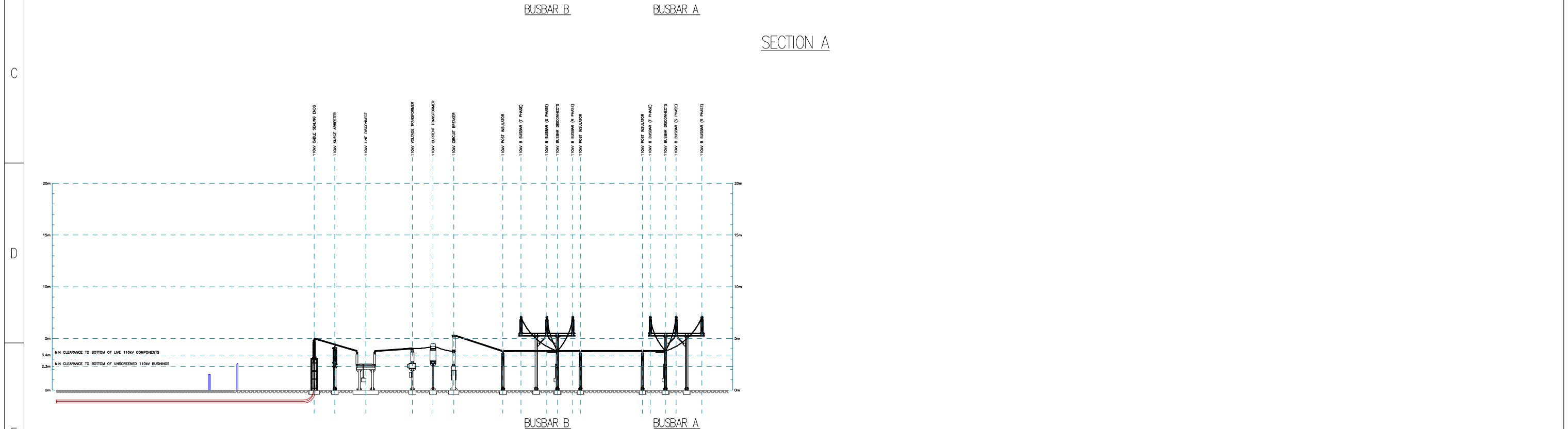
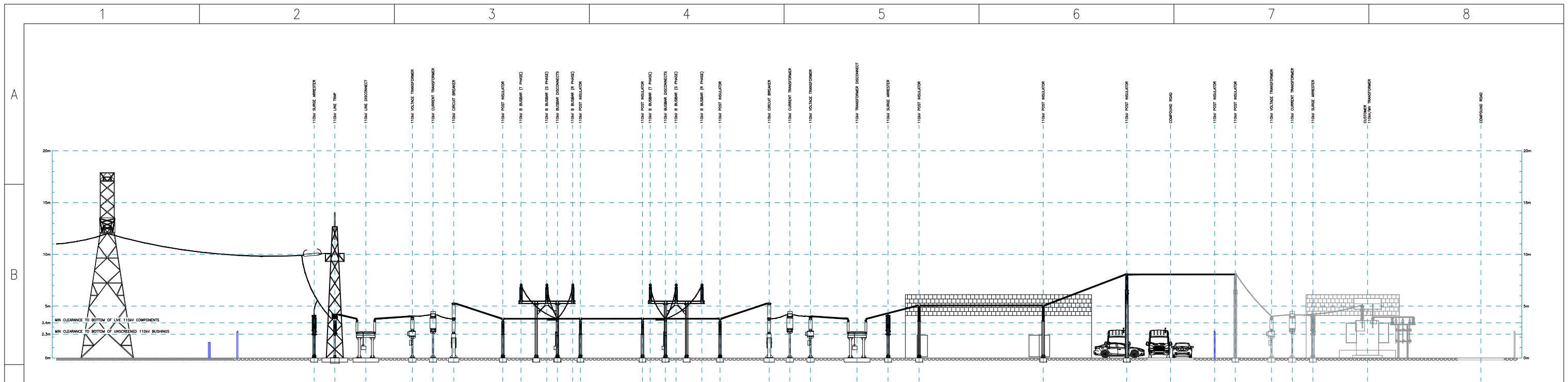
REV	DESC	DRAWN	CHECKED	APPROVED	DATE
07	REQUIREMENT FOR INDEPENDENT SPAN (NOTE 6) UPDATED; INDICATIVE CABLE BAY ADDED; CUSTOMER BAY MODIFIED; ROAD ARRANGEMENT MODIFIED; BOUNDARY FENCE MODIFIED; CONTROL BUILDING UPDATED; SHEET 02 ADDED;	JD	KMcG	CF	22/08/2019
06	SECTIONALISER BAY CHANGED AND WING COUPLERS ADDED; CONTROL ROOM ENLARGED; ADDITIONAL NOTES ADDED; FEEDER BAY CB CLEARANCE FROM MAIN BUSBAR INCREASED; BUSBAR TO BUSBAR DISTANCE INCREASED; DISCONNECTOR TYPES CHANGED	JD	RB	CF	20/11/2018
05	CONTROL ROOM RESIZED, CT & VT ADDED TO CUSTOMER COMPOUND & NOTE 2 ADDED	JB	RB	PM	17/02/2014
REV	DESC	DRAWN	CHECKED	APPROVED	DATE

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PROJECT		110kV STATION DESIGN STANDARD AIS LOOP STATION	
DRAWING TITLE		INITIAL C-TYPE 110kV STATION AND FUTURE ENHANCED RING STATION PLAN VIEW	
No of Shts	2	SIZE	A3
DRAWING NUMBER	XDN-LAY-ELV-STND-H-001	SCALE	NTS
SHEET	001	REV	07



F	07	REQUIREMENT FOR INDEPENDENT SPAN (NOTE 6) UPDATED; INDICATIVE CABLE BAY ADDED; CUSTOMER BAY MODIFIED; ROAD ARRANGEMENT MODIFIED; BOUNDARY FENCE MODIFIED; CONTROL BUILDING UPDATED; SHEET 02 ADDED;	JD	KMcG	CF	22/08/2019
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PROJECT 110kV STATION DESIGN STANDARD AIS LOOP STATION		
DRAWING TITLE INITIAL C-TYPE 110kV STATION AND FUTURE ENHANCED RING STATION ELEVATION VIEW A		
No of Shts 2	SIZE A3	SCALE NTS
DRAWING NUMBER XDN-LAY-ELV-STND-H-001	SHEET 002	REV 07