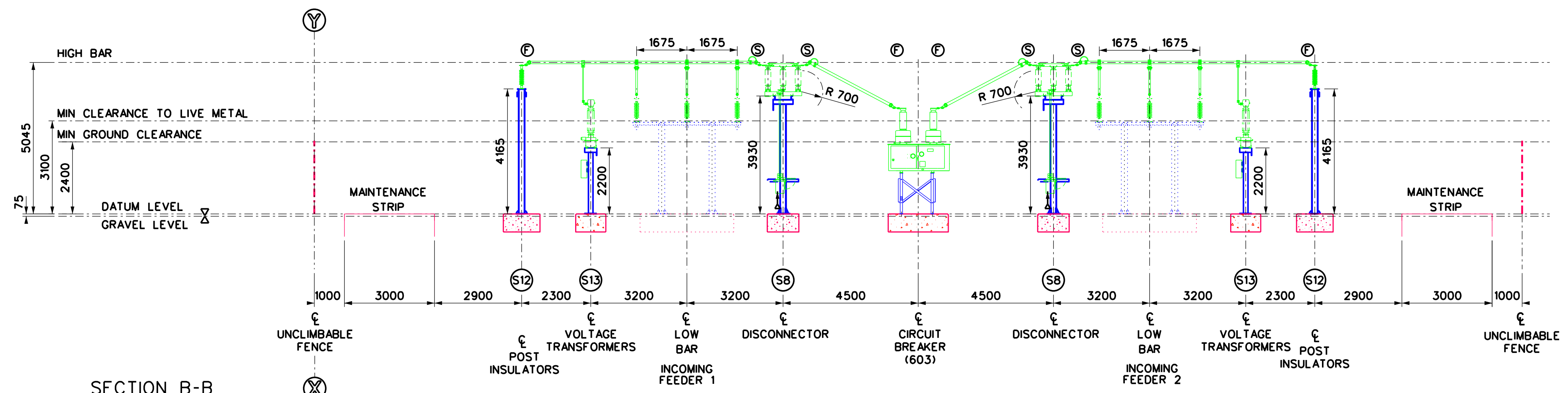


SECTION A-A



SECTION B-B

SCHEDULE OF EQUIPMENT		
NO REQD	DESCRIPTION	REMARKS
9	66kV SELF SUPPORTING SEALING ENDS	LOW BAR
2	66kV DISCONNECTOR - NO EARTH BLADES	HIGH BAR
2	66kV CIRCUIT BREAKER	-
3	66kV DISCONNECTOR - EARTH BLADES (LHS)	LOW BAR
1	66kV DISCONNECTOR - NO EARTH BLADES	LOW BAR
9	VOLTAGE TRANSFORMERS	-
9	POST INSULATORS	HIGH/LOW BAR

NOTE

ALL SWITCHGEAR OUTLINES ARE TYPICAL ONLY.
 ALL SETTING OUT DIMENSIONS SHOULD BE VERIFIED WHEN SPECIFIC SWITCHGEAR DETAILS ARE AVAILABLE.
 LOCATION MARKS SHOWN THUS ⊗
 MAIN MECHANISM BOX SHOWN THUS ➤
 EARTH BLADE MECHANISM BOX SHOWN THUS ○
 DENOTES FIXED CONNECTION ⊕
 DENOTES SLIDING CONNECTION ⊙
 STANDARD STRUCTURE REFERENCE No. (S1) TO (S19)
 (REFER TO STANDARD 66kV STRUCTURE SCHEDULE C1072723 SHEET 1 & C1072724 SHEET 2 FOR DETAILS)

CONDUIT DUTY

E EARTHING.
 M MULTICORE CABLES.
 P 66kV POWER CABLES.
 S SPARE/HEATING & LIGHTING.
 A AUXILIARY TRANSFORMER CABLE.

KEY TO CONDUITS

STRAIGHT
 TREFOIL GROUP
 ALL CONDUITS TO BE 150mm BORE LAID AT 250mm CENTRES, UNLESS OTHERWISE STATED.
 ALL CONDUITS TO BE SUITABLY SEALED OFF AFTER LAYING OF CABLES.

FLOODLIGHTS MOUNTED ON 3m POLE

SETTING OUT DETAILS

SETTING OUT DETAILS TO BE PERMANENTLY MARKED OUT ON SITE.
 ⊗ SETTING OUT LINE X - X TO BE ESTABLISHED ALONG CIRCUIT CENTRELINE
 ⊙ SETTING OUT LINE Y - Y TO BE ESTABLISHED ALONG CIRCUIT CENTRELINE

CLEARANCES

NOMINAL SYSTEM VOLTAGE 66kV
 STANDARD BUSBAR CENTRES 1675mm
 PHASE TO EARTH 700mm
 PHASE TO PHASE 780mm
 SAFETY CLEARANCE (TO LIVE METAL) 3100mm
 INSULATION HEIGHT (PEDESTRIAN ACCESS) 2400mm
 HORIZONTAL DESIGN CLEARANCES:
 ALLOWING FOR HYDRAULIC PLATFORM 66kV 7500mm
 ALLOWING FOR PORTABLE ACCESS EQUIPMENT 3500mm
 ALLOWANCE FOR NO ACCESS EQUIPMENT 3250mm
 DELINEATED BARRIER CLEARANCE 2500mm

BUSBAR TYPE	CONTINUOUS CURRENT RATING (Amp)	MAX UNSUPPORTED SPAN (mm)	APPROXIMATE WEIGHT PER METRE (kg)
HARD DRAWN BARE COPPER (HDBC) ALUMINIUM (Al)			
NEW INSTALLATIONS			
Al. 90mm Dia, 6mm WALL THICKNESS	2000A	10400 or 6000*	4.320
Al. 60mm Dia, 4mm WALL THICKNESS	1200A	6700 or 3500*	1.950

*RESTRICTION DUE TO END FIXING TYPE (SEE TABLE 5.1 of ENATS 41-11)

SCHEDULE OF DRAWINGS TO C969471

		Lloyds Court, 78 Grey Street, Newcastle Upon Tyne, NE1 6AF	
Sheet No. _____ Scale 1:100		STANDARD 66kV CUSTOMER CONNECTIONS SECTIONS THROUGH COMPOUND FOR TWO SWITCH METERING SUBSTATION FOR LOOP IN CONNECTION	
Prepared By G COLES		Document Details CONSTRUCTION STANDARDS	
Modified 23.06.2017		Drawing No. INTERNAL_C1026295	
Created 16.08.2013		Historic Drawing No. Y017S2117	
Checked by S. WILKINSON		Revision A	