



1. This drawing should be read in conjunction with other design documentation and all other supporting technical information.
2. This drawing is based on the Existing hospital drawings received on 22/06/2020.
3. All dimensions in mm unless otherwise stated.
4. Do not scale from this drawing.
5. This drawing forms part of the BSRIA Work Stage 4A Technical Design Part 1 package.
6. This drawing is to be read in conjunction with Major Plant Item Procurement Specification 21315-ARP-DZ-XX-SP-E-0001 and MEP Particular Specification 21315-ARP-DZ-XX-SP-E-0002
7. The cable runnings from the LV Switchboards and containerised generator shall be in a 3x trefoil arrangement. The cables shall be properly cleated on the cable ladders.
8. Sub-mains cables, or SWA/LSOH cables supplying final equipment and installed on ladder shall be installed in groups of 8 or fewer.
9. Outside Substation 14 compound, the cable ladders shall be installed on big feet in order to provide a stable foundation.
10. All the cable ladders shall be properly ladded.
11. Contractor shall ensure that the use of force in the existing communication duct from Block C to Substation 14 compound. To route the fibre cables and provide buried ducts from the Comms cabinet C1 and C2, the contractor shall co-ordinate and agree with NMGH IMT team.
12. All services installed on external plant screen shall be wired in galvanised steel conduit.
13. All cable ladders shall include a 100mm ELV tray (fixed to the cable ladder) for ELV cabling.
14. All installation heights and setting-out dimensions are indicative only, for verification on site by the Contractor.

	LV Cable Ladder
	LV Busbar
	Comms Duct
	LV Cable Tray
	2-compartment ELV Basket
	HV Duct
	Spare Duct
	Isolator
	End Feed Unit
	LV Switchboard
	Comms Cabinet
	Area to be designed by others
	BWIC Required
	Trench Required
	LV Cable Ladders routed within floor void

P01	RIBA Stage 4	22/11/24	MG	TW
REV.	DESCRIPTION	DATE	DRW.	CHK.

 Manchester University NHS Foundation Trust			
APPOINTED PARTY LOGO/INFORMATION			
		6th Floor, 3 Piccadilly Place Manchester M1 3BN Tel:44(0)161 228 2331 www.arup.com	
PROJECT North Manchester General Hospital WP06 - Relocation of Substation 10			
TITLE Electrical Services K Block Substation 14 External Distribution			
STATUS S2	PURPOSE OF ISSUE Suitable For Information		
DRAWN BY MG		CHECKED BY TW	DATE 22/11/24
SCALE (@A1) 1 : 100		PROJECT NUMBER 276353	
FILE DRAWING NUMBER 21315-ARP-ZZ-XX-DR-E-15002			REV. P01