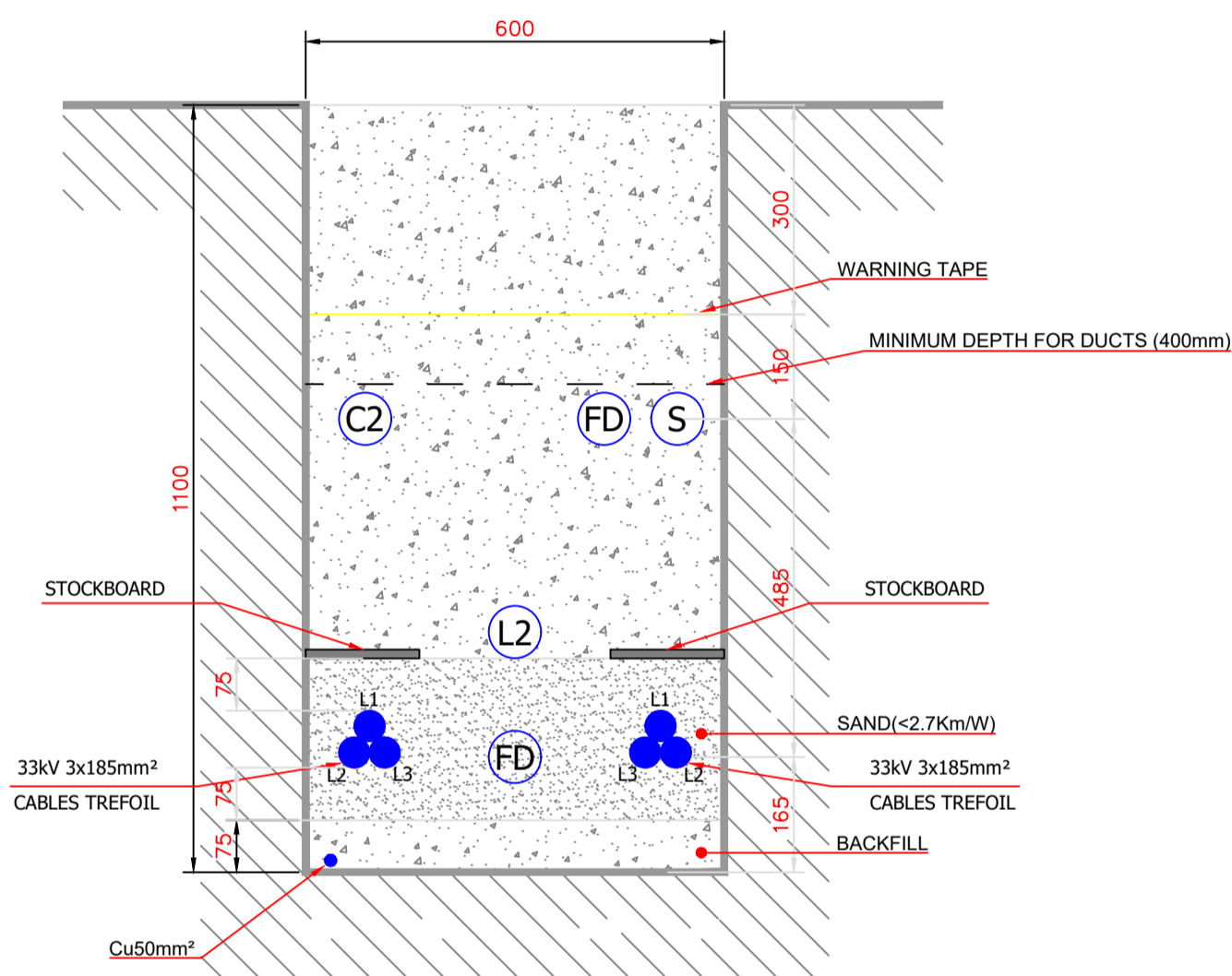
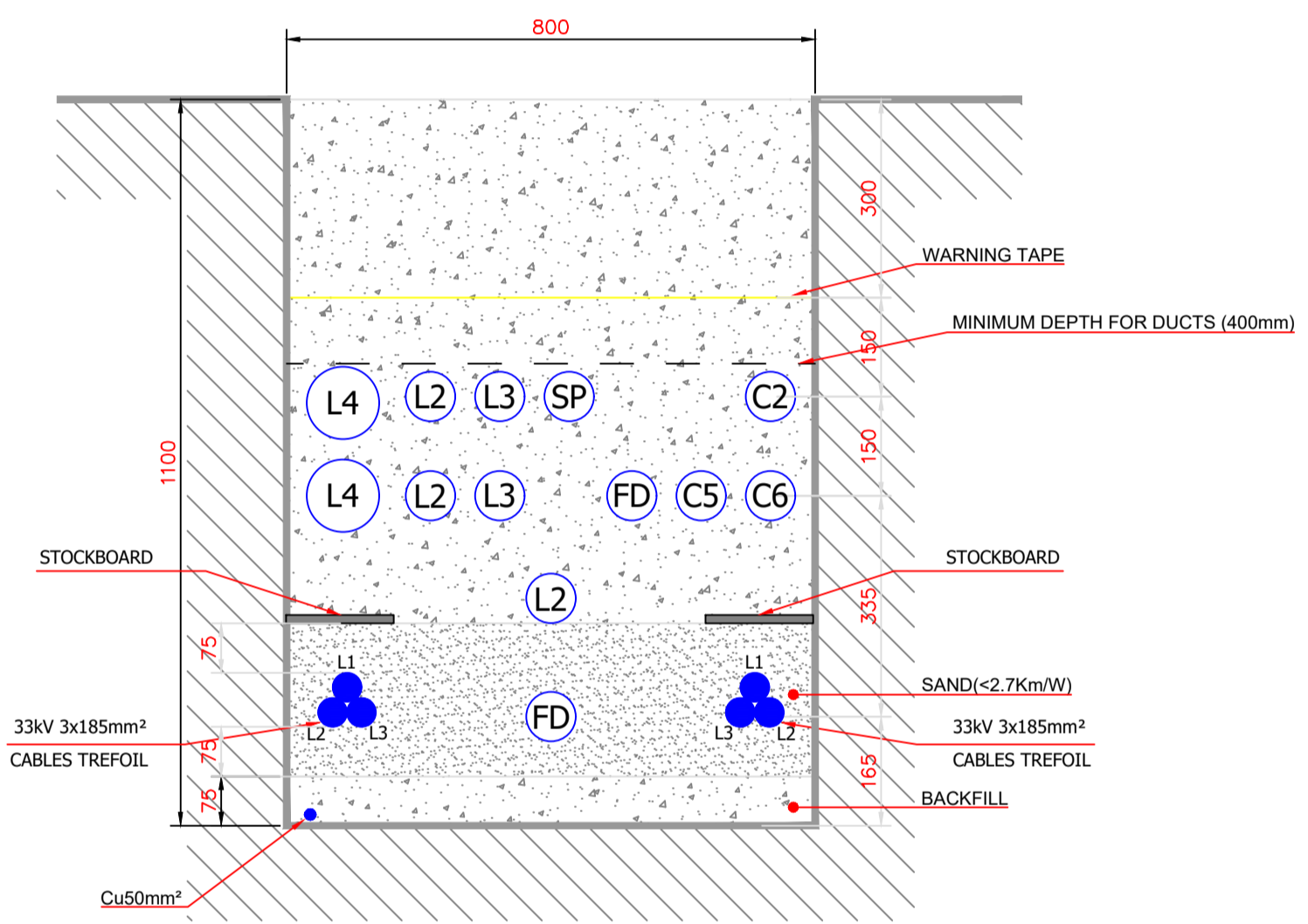


TYPICAL HV TRENCH SECTION HV1  
SCALE 1:10



TYPICAL HV TRENCH SECTION HV2  
SCALE 1:10



TYPICAL HV TRENCH SECTION HV3  
SCALE 1:10

LEGEND		
DUCT SYMBOLS	DUCT TYPE	CABLE TYPE
(S)	DUCT Ø75 FOR SOLAR CABLES FROM PV MODULES SERIES TO NEAREST STRING INVERTER	SOLAR CABLE 2x1x6mm² PER STRING (UP TO 8 CIRCUITS PER DUCT)
(L1)	DUCT Ø110 FOR LOW VOLTAGE POWER CABLES FROM LVS TO DNO	FG7OR 3x185mm²
(L2)	DUCT Ø75 FOR LOW VOLTAGE POWER CABLES FROM LVS TO PSUs	FG7OR 3x50mm²
(L3)	DUCT Ø75 FOR LOW VOLTAGE POWER CABLES FROM LVS TO SPARE PARTS CONTAINERS	FG7OR 3x4mm²
(L4)	DUCT Ø110 FOR LV POWER CABLES FROM AUX. TRANSFORMER TO TRANSFER SWITCH INSIDE NORTH SPC AND BACK TO LVDB	FG7OR 4x185mm²
(LS)	DUCT Ø75 FOR LOW VOLTAGE POWER CABLE AND FIBER OPTIC CABLE FOR INACCESS CONTROL PANEL	FG7OR 3x4mm² AND 4' F.O. CABLE SM 9/125
(FD)	DUCT Ø75 FOR 2x FIBER OPTIC CABLES (PSU LOOP)	2 x 4' F.O. CABLE SM 9/125
(C1)	DUCT Ø75 FOR FOR INTERCONNECTION DATA CABLE BETWEEN STRING INVERTERS AND PSUs	DATA CABLE 2x2x0.75mm²
(C2)	DUCT Ø75 FOR INTERCONNECTION DATA CABLE BETWEEN STs AND PSUs	FTP Cat.6 CABLE
(C3)	DUCT Ø75 FOR SIGNALS COMMUNICATION CABLE BETWEEN CSS AND DNO	COMMUNICATION CABLE 18 x 2.5mm²
(C4)	DUCT Ø75 FOR UP TO 3 INTERCONNECTION DATA CABLES BETWEEN PSUs AND SENSORS	DATA CABLE LICY 4x2x0.5mm²
(C5)	DUCT Ø75 FOR INTERCONNECTION DATA CABLES FOR BATTERIES MONITORING BETWEEN CSS AND NORTH SPC	DATA CABLE LICY 4x2x0.5mm²
(C6)	DUCT Ø75 FOR FTP CABLE FOR PTZ CAMERA OF NORTH SPC	S/FTP CABLE
(SP)	DUCT Ø75 SPARE FOR FUTURE USE	

REVISION	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED
A02	03/10/23	FIRST ISSUE	N.K.	I.M.	V.T.

OWNER <b>Innova</b>	DESIGNER <b>GEMEC</b> 393 LORDSHIP LANE, N17 6AE, LONDON, UK
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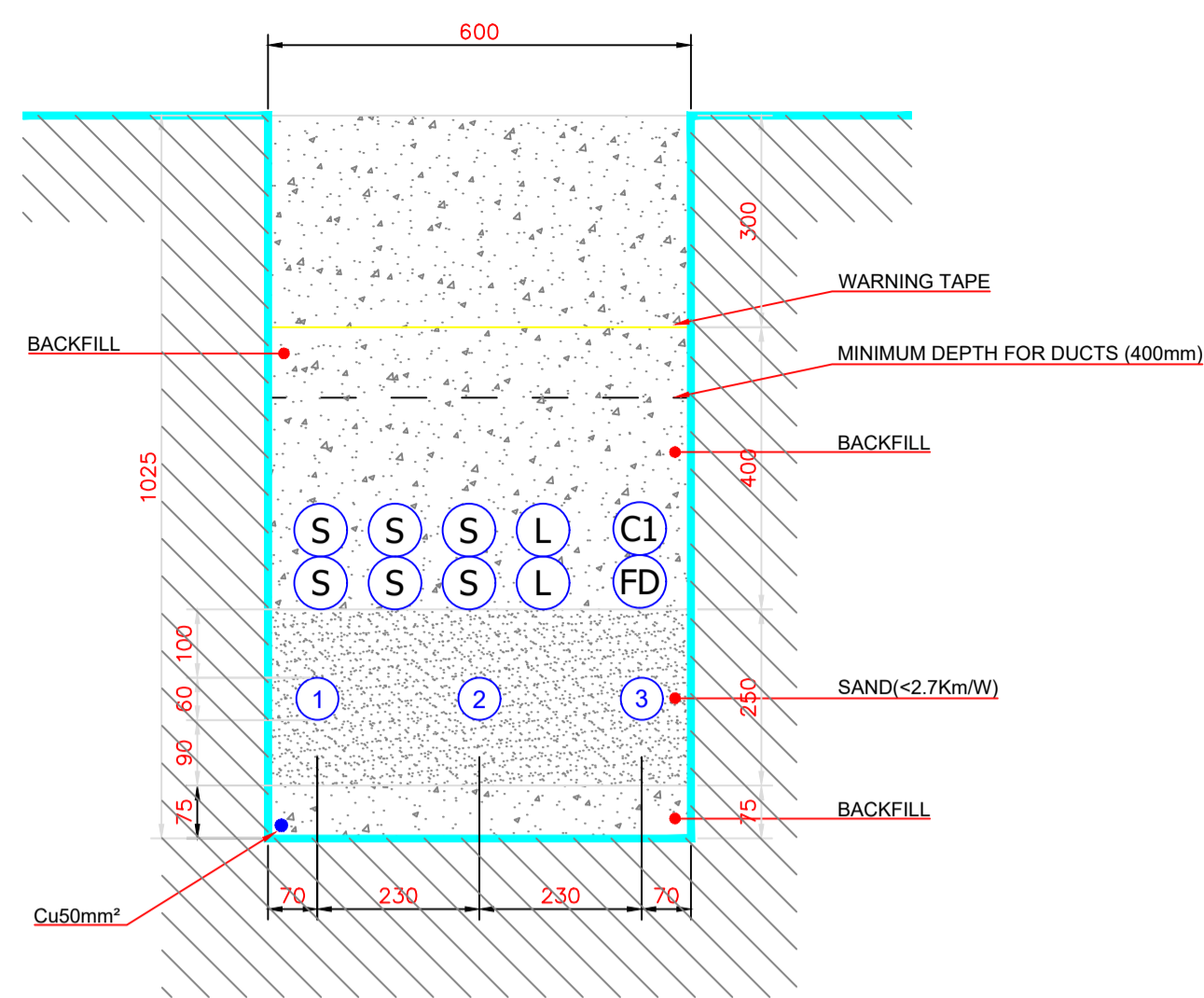
ISSUED FOR PLANT PROJECT: ELMS FARM SOLAR PLANT

DWG TITLE <b>CABLE TRENCHES SECTIONS (HV)</b>	DWG NUMBER <b>ELM-CW-09</b>
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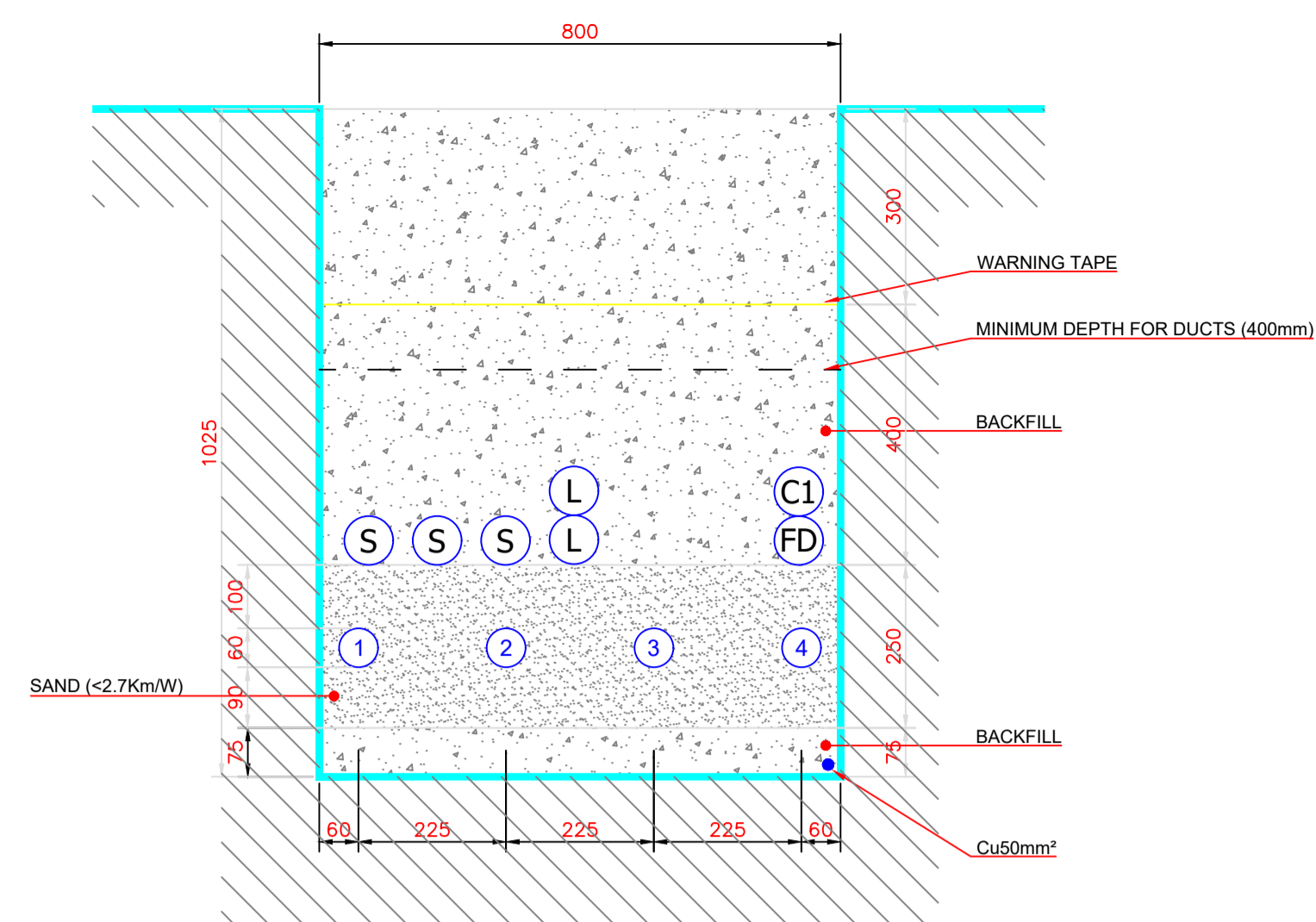
DESIGN PHASE				FILE NAME	CLASSIFICATION	SHEET	SCALE
DATE	PREPARED	CHECKED	APPROVED			A1	1:10
OCT 2022	S.T.	I.M.	V.T.				

SIGNATURES & STAMPS

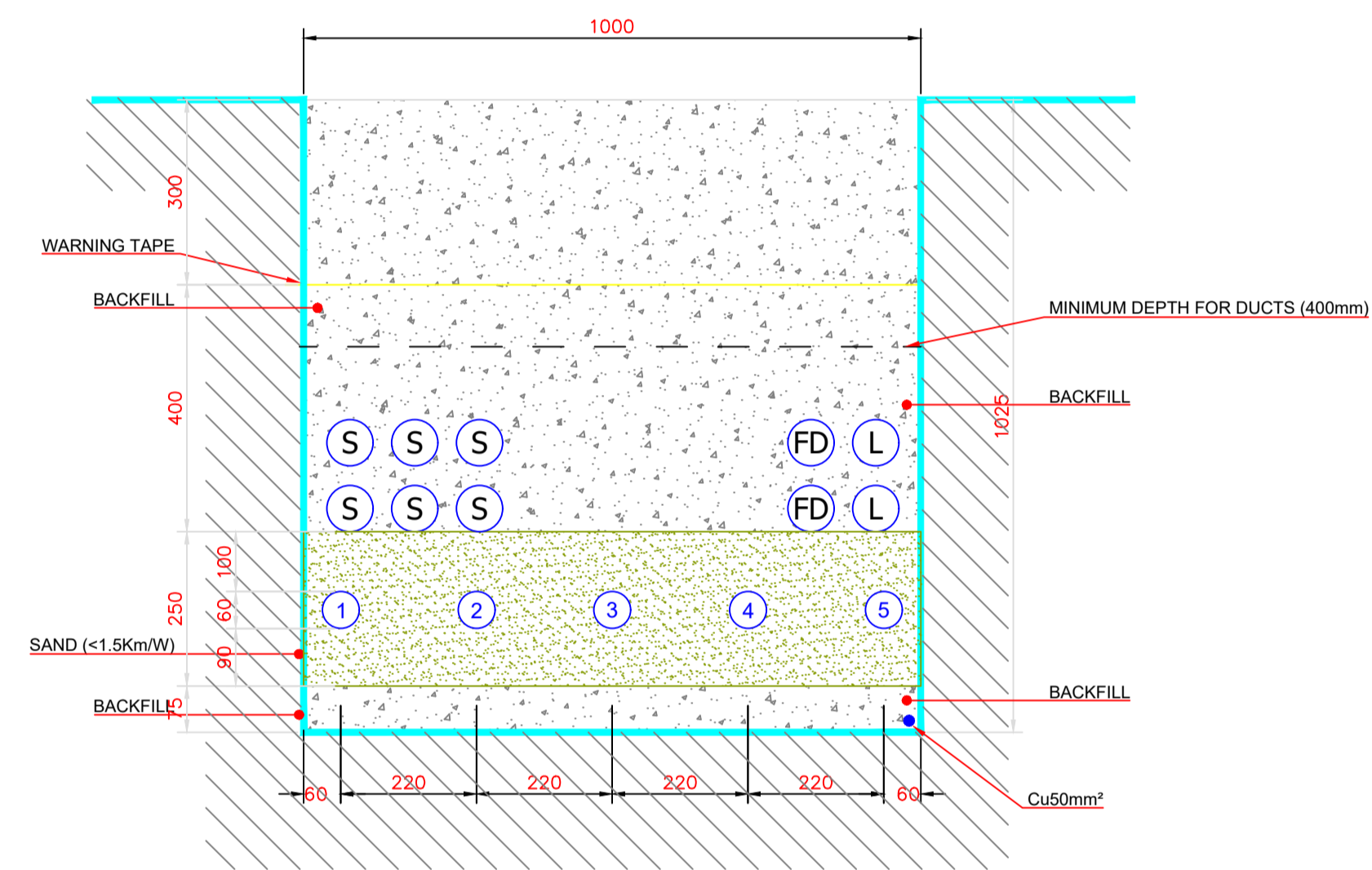




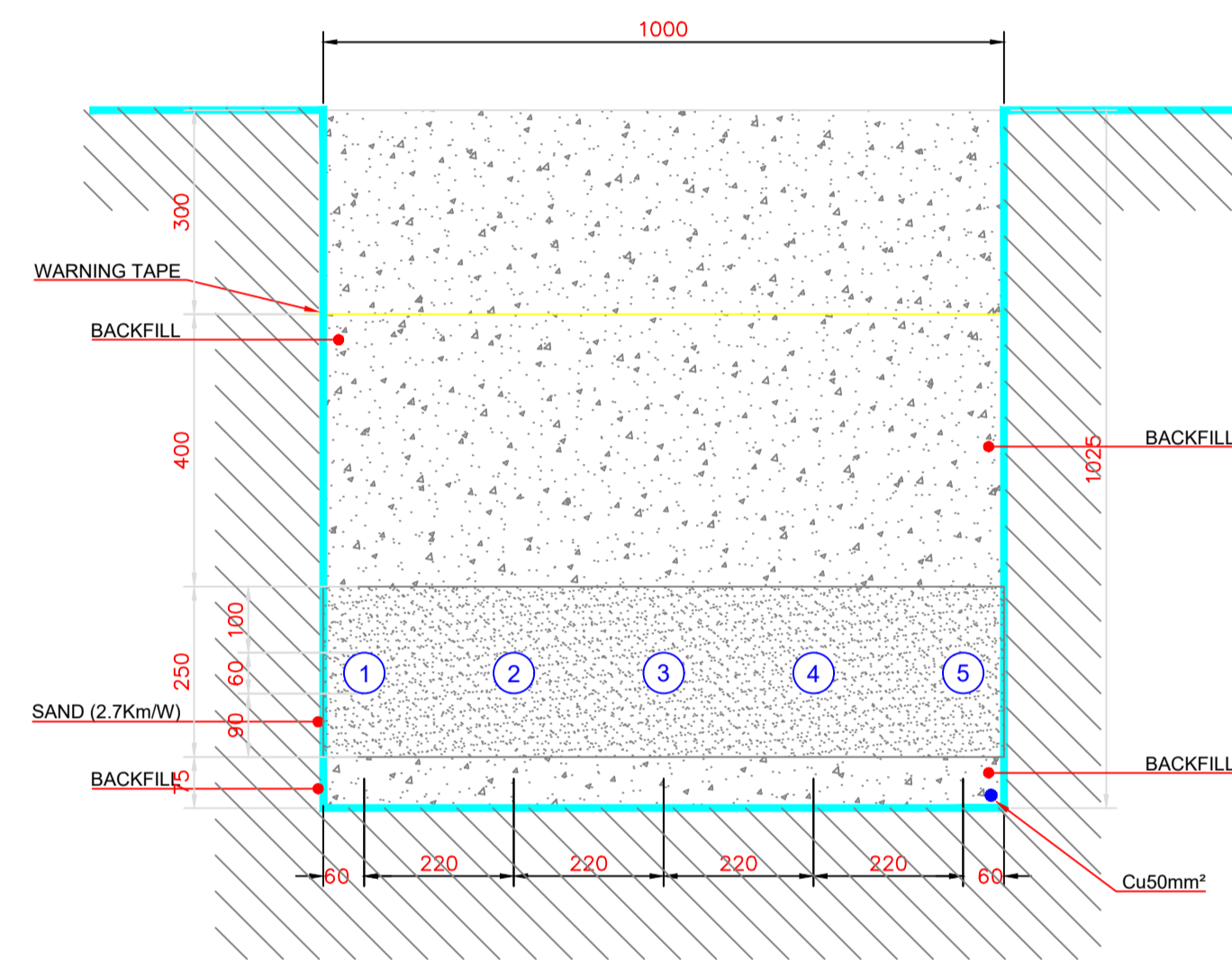
TYPICAL AC TRENCH SECTION  
SCALE 1:10 (1/2/3AC)



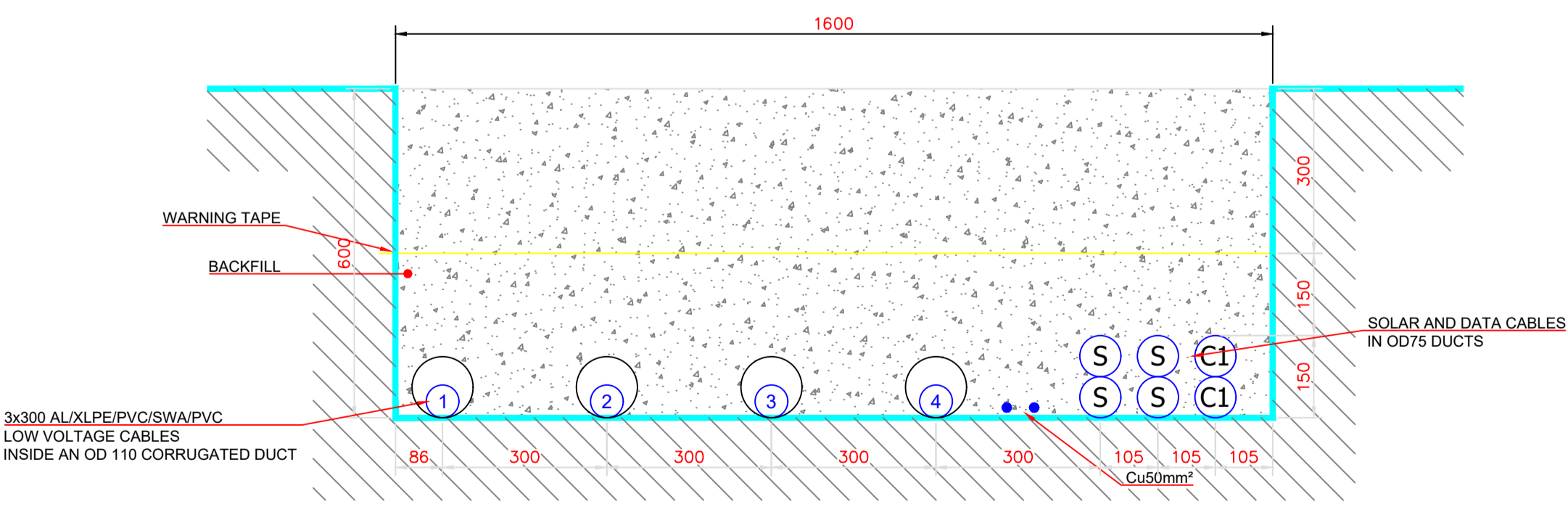
TYPICAL AC TRENCH SECTION  
SCALE 1:10 (4AC)



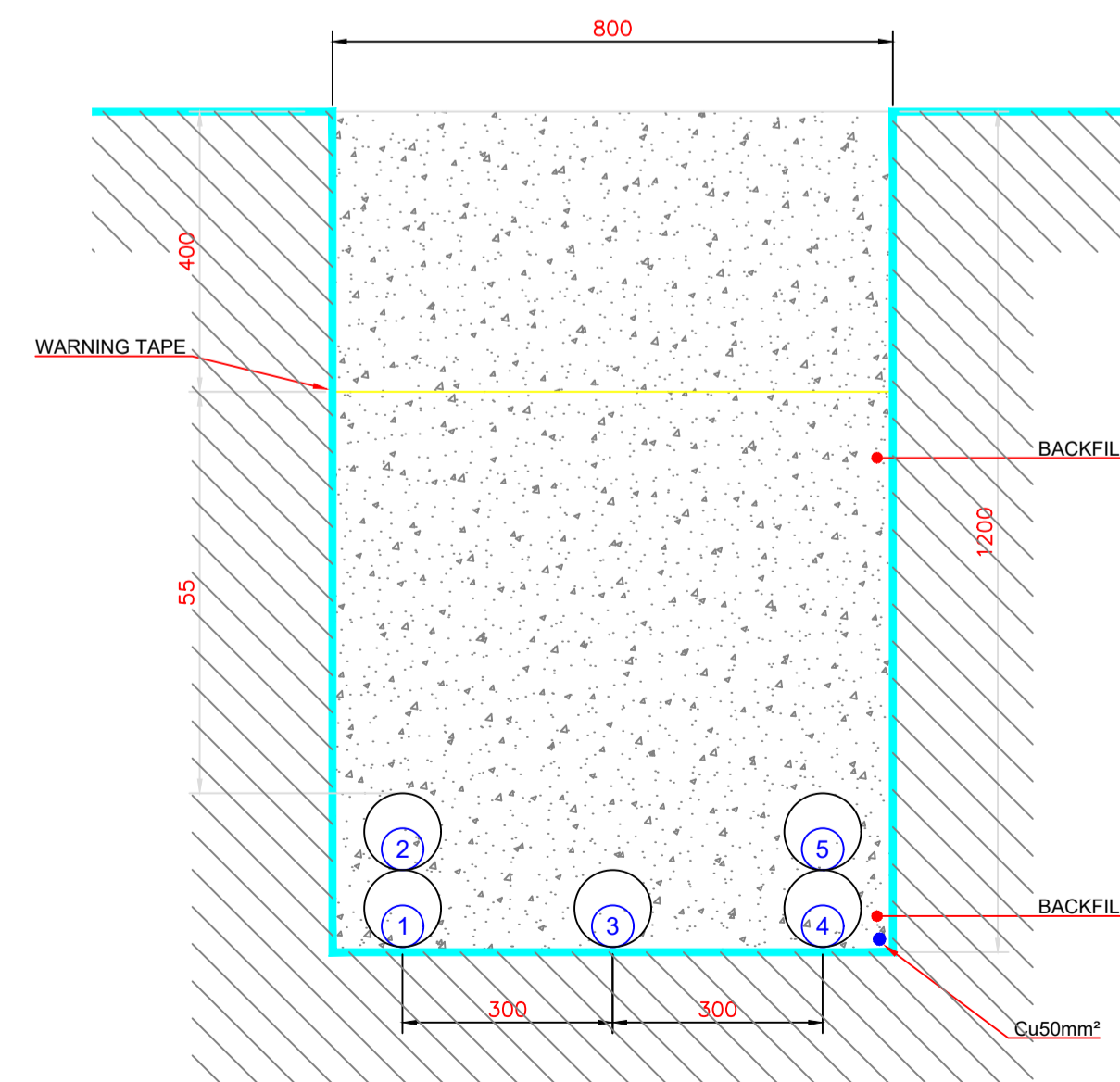
TYPICAL AC TRENCH SECTION  
SCALE 1:10 (5AC)



TYPICAL AC TRENCH SECTION  
SCALE 1:10 (5AC-0)



CROSS SECTION NEAR TRIAL PIT B  
SCALE 1:10 (4AC-GC)



AC ROAD CROSSING  
SCALE 1:10 (5AC-RC)

LEGEND		
DUCT SYMBOLS	DUCT TYPE	CABLE TYPE
⊙	MAIN LV CABLE FROM STRING INVERTER TO MVS. NUMBER INDICATES THE SEQUENCE WITH WHICH THE CABLES ENTER THE TRENCH	AL/XLPE/PVC/SWA/PVC 1.8/3kV 3x300mm²
S	DUCT Ø75 FOR SOLAR CABLES FROM PV MODULES SERIES TO NEAREST STRING INVERTER	SOLAR CABLE 2x1x6mm² PER STRING (UP TO 6 CIRCUITS PER DUCT)
L2	DUCT Ø75 FOR LOW VOLTAGE POWER CABLES FROM LVS TO PSUs	FG7OR 3x50mm²
LF	DUCT Ø75 FOR LOW VOLTAGE POWER CABLE AND FIBER OPTIC CABLE FOR CAMERAS CONNECTION	FG7OR 3x4mm² AND 4' F.O. CABLE MM 50/125
FD	DUCT Ø75 FOR 2x FIBER OPTIC CABLES (PSU LOOP)	2 x 4' F.O. CABLE SM 9/125
C1	DUCT Ø75 FOR FOR INTERCONNECTION DATA CABLE BETWEEN STRING INVERTERS AND PSUs	DATA CABLE 2x2x0.75mm²
C2	DUCT Ø75 FOR INTERCONNECTION DATA CABLE BETWEEN STSs AND PSUs	FTP Cat.6 CABLE
C4	DUCT Ø75 FOR UP TO 3 INTERCONNECTION DATA CABLES BETWEEN PSUs AND SENSORS	DATA CABLE LICY 4x2x0.5mm²
SP	DUCT Ø75 SPARE FOR FUTURE USE	

REVISION	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED
A02	03/10/23	FIRST ISSUE	N.K.	I.M.	V.T.

OWNER: **Innova** DESIGNER: **GEMEC**  
383 LORDSHIP LANE, N17 6AE, LONDON, UK

ISSUED FOR PLANT PROJECT: **ELMS FARM SOLAR PLANT**

DWG TITLE: **CABLE TRENCHES SECTIONS (MAIN AC)** DWG NUMBER: **ELM-CW-09**

DATE	PREPARED	CHECKED	APPROVED	FILE NAME	CLASSIFICATION	SHEET	SCALE
OCT 2022	S.T.	I.M.	V.T.			A1	1:10

SIGNATURES & STAMPS



