

Bijlage 4 - Electrical Drawing Package

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Note: Indien er een document als 'voorbeeld' genoemd staat betekend dit dat de lay-out van het document gevolgd dient te worden en de inhoud geüpdate moet worden met de HKWB informatie.

Appendix 4.1 - Voorbeeld Inhoudsopgave

REV.	SHT NO.	DESCRIPTION	REV.	SHT NO.	DESCRIPTION	REV.	SHT NO.	DESCRIPTION
	121	SPARE	0	161	SCHEM. DIAGRAM 230VAC PANEL LIGHTING #HKW=T001AAZ01UC105-UC001	0	201	SCHEM. DIAGRAM R06-RWS-PPL-1-65 #HKW=T001AAZ01UC106-UC001
	122	SPARE		162	SPARE		202	SPARE
	123	SPARE	0	163	SCHEM. DIAGRAM 230VAC UPS PWR. SUPPLY 5-PDU-1 #HKW=T001AAZ01UC105-UC001		203	SPARE
	124	SPARE	0	164	SCHEM. DIAGRAM 230VAC UPS PWR. SUPPLY 5-SO-1 OUTLET #HKW=T001AAZ01UC105-UC001	0	204	CONNECTION DIAGRAM PLC CONTROL #HKW=T001AAZ01UC106-UC001
	125	SPARE		165	SPARE	0	205	CONNECTION DIAGRAM PLC CONTROL #HKW=T001AAZ01UC106-UC001
	126	SPARE	0	166	SCHEM. DIAGRAM 230VAC UPS PWR. SUPPLY 5-SO-2 OUTLET #HKW=T001AAZ01UC105-UC001	0	206	CONNECTION DIAGRAM PLC CONTROL #HKW=T001AAZ01UC106-UC001
	127	SPARE	0	167	SCHEMATIC DIAGRAM 230VAC SERVICE OUTLET 5-SO-10 OUTLET #HKW=T001AAZ01UC105-UC101	0	207	CONNECTION DIAGRAM PLC CONTROL #HKW=T001AAZ01UC106-UC001
	128	SPARE		168	SPARE		208	SPARE
	129	SPARE	0	169	SCHEM. DIAGRAM R05-RWS-PPL-1-54 #HKW=T001AAZ01UC105-UC001	0	209	SCHEMATIC DIAGRAM AIS SYSTEM #HKW=T001AAZ01UC106-UC001
0	130	SCHEM. DIAGRAM 230VAC PANEL LIGHTING #HKW=T001AAZ01UC104-UC001	0	170	SCHEM. DIAGRAM R05-RWS-PPL-1-56 #HKW=T001AAZ01UC105-UC001	0	210	SCHEMATIC DIAGRAM SDNS (LVNL) SYSTEM #HKW=T001AAZ01UC106-UC001
	131	SPARE		171	SPARE		211	SPARE
0	132	SCHEM. DIAGRAM 230VAC UPS PWR. SUPPLY 4-PDU-1 #HKW=T001AAZ01UC104-UC001	0	172	SCHEM. DIAGRAM NETWORK MODULE NDZ-HKWA-SWD5-001 #HKW=T001AAZ01UC105-UC001		212	SPARE
0	133	SCHEM. DIAGRAM 230VAC UPS PWR. SUPPLY 4-SO-1 OUTLET #HKW=T001AAZ01UC104-UC001	0	173	SCHEM. DIAGRAM NETWORK SWITCH NDZ-HKWA-SWA32-001 #HKW=T001AAZ01UC105-UC001	0	213	SCHEMATIC DIAGRAM TTN LORA GATEWAY #HKW=T001AAZ01UC106-UC001
	134	SPARE		174	SPARE	0	214	SCHEMATIC DIAGRAM LORA CONCENTRATOR #HKW=T001AAZ01UC106-UC001
0	135	SCHEM. DIAGRAM 230VAC UPS PWR. SUPPLY 4-SO-2 OUTLET #HKW=T001AAZ01UC104-UC001		175	SPARE	0	215	SCHEMATIC DIAGRAM POE ADVANCED THERMAL CAMERA #HKW=T001AAZ01UC106-UC001
	136	SPARE	0	176	CONNECTION DIAGRAM PLC CONTROL #HKW=T001AAZ01UC105-UC001	0	216	SCHEMATIC DIAGRAM ADVANCED THERMAL CAMERA #HKW=T001AAZ01UC106-UC001
0	137	SCHEMATIC DIAGRAM 230VAC SERVICE OUTLET 4-SO-10 OUTLET #HKW=T001AAZ01UC104-UC101	0	177	CONNECTION DIAGRAM PLC CONTROL #HKW=T001AAZ01UC105-UC001	0	217	CONNECTION DIAGRAM 1X1 #HKW=T001AAZ01UC101-UC001
0	138	SCHEM. DIAGRAM R04-RWS-PPL-1-45 #HKW=T001AAZ01UC104-UC001	0	178	CONNECTION DIAGRAM PLC CONTROL #HKW=T001AAZ01UC105-UC001	0	218	CONNECTION DIAGRAM 1X2 #HKW=T001AAZ01UC101-UC001
	139	SPARE	0	179	CONNECTION DIAGRAM PLC CONTROL #HKW=T001AAZ01UC105-UC001	0	219	CONNECTION DIAGRAM 1X3 #HKW=T001AAZ01UC101-UC001
	140	SPARE		180	SPARE	0	220	CONNECTION DIAGRAM 1X4 #HKW=T001AAZ01UC101-UC001
0	141	CONNECTION DIAGRAM PLC CONTROL #HKW=T001AAZ01UC104-UC001	0	181	SCHEM. DIAGRAM LORA IOT GATEWAY #HKW=T001AAZ01UC105-UC001	0	221	CONNECTION DIAGRAM 1X6 #HKW=T001AAZ01UC101-UC001
0	142	CONNECTION DIAGRAM PLC CONTROL #HKW=T001AAZ01UC104-UC001	0	182	SCHEMATIC DIAGRAM NETPOS (TRIMBLE ALLOY) #HKW=T001AAZ01UC105-UC001	0	222	CONNECTION DIAGRAM 1X7 #HKW=T001AAZ01UC101-UC001
0	143	CONNECTION DIAGRAM PLC CONTROL #HKW=T001AAZ01UC104-UC001	0	183	SCHEM. DIAGRAM 48VDC POWER SUPPLY CAMERA #HKW=T001AAZ01UC105-UC001	0	223	CONNECTION DIAGRAM 1X8 #HKW=T001AAZ01UC101-UC001
0	144	CONNECTION DIAGRAM PLC CONTROL #HKW=T001AAZ01UC104-UC001	0	184	SCHEM. DIAGRAM POE INDOOR & OUTDOOR CAMERA'S #HKW=T001AAZ01UC105-UC001	0	224	CONNECTION DIAGRAM 1X9 #HKW=T001AAZ01UC101-UC001
	145	SPARE	0	185	SCHEMATIC DIAGRAM OUTDOOR STANDARD THERMAL CAMERA #HKW=T001AAZ01UC105-UC001	0	225	CONNECTION DIAGRAM 1X10 #HKW=T001AAZ01UC101-UC001
0	146	SCHEM. DIAGRAM S07-RWS-BDS-10A (KVM SWITCH) #HKW=T001AAZ01UC104-UC001	0	186	SCHEM. DIAGRAM F.O. PATCH PANEL R05-RWS-PPL-1-5-IC #HKW=T001AAZ01UC105-UC001	0	226	CONNECTION DIAGRAM 1X11 #HKW=T001AAZ01UC101-UC001
0	147	SCHEM. DIAGRAM S07-RWS-BDS-19 (#2 MODULE) #HKW=T001AAZ01UC104-UC001	0	187	SCHEM. DIAGRAM F.O. PATCH PANEL R05-RWS-PPL-1-52S #HKW=T001AAZ01UC105-UC001		227	SPARE
0	148	SCHEM. DIAGRAM S07-RWS-BDS-12 (VR SERVER) #HKW=T001AAZ01UC104-UC001		188	SPARE		228	SPARE
0	149	SCHEMATIC DIAGRAM S07-RWS-BDS-16 (ACQUISITION BOX) #HKW=T001AAZ01UC104-UC001		189	SPARE		229	SPARE
0	150	SCHEMATIC DIAGRAM S07-RWS-BDS-14 (FURUNO VR) #HKW=T001AAZ01UC104-UC001		190	SPARE		230	SPARE
0	151	SCHEMATIC DIAGRAM S07-RWS-BDS-11 (HR SERVER) #HKW=T001AAZ01UC104-UC001		191	SPARE	0	231	CONNECTION DIAGRAM 1X17 #HKW=T001AAZ01UC101-UC001
0	152	SCHEMATIC DIAGRAM S07-RWS-BDS-17 (ACQUISITION BOX) #HKW=T001AAZ01UC104-UC001		192	SPARE	0	232	CONNECTION DIAGRAM 1X20 #HKW=T001AAZ01UC101-UC001
0	153	SCHEM. DIAGRAM S07-RWS-BDS-15 (FURUNO HR) #HKW=T001AAZ01UC104-UC001	0	193	SCHEM. DIAGRAM 230VAC PANEL LIGHTING #HKW=T001AAZ01UC106-UC001	0	233	CONNECTION DIAGRAM 1X21 #HKW=T001AAZ01UC101-UC001
0	154	SCHEM. DIAGRAM S07-RWS-BDS-13 (DB SERVER) #HKW=T001AAZ01UC104-UC001		194	SPARE	0	234	CONNECTION DIAGRAM 1X22 #HKW=T001AAZ01UC101-UC001
0	155	SCHEM. DIAGRAM S07-RWS-BDS-18 (ROBIN RADAR UPS SYSTEM) #HKW=T001AAZ01UC104-UC001	0	195	SCHEM. DIAGRAM 230VAC UPS PWR. SUPPLY 6-PDU-1 #HKW=T001AAZ01UC106-UC001	0	235	CONNECTION DIAGRAM 1X25 #HKW=T001AAZ01UC101-UC001
0	156	SCHEM. 230VAC UPS POWER SUPPLY OUTLET (PDU-8) #HKW=T001AAZ01UC104-UC001	0	196	SCHEM. DIAGRAM 230VAC UPS PWR. SUPPLY 6-SO-1 OUTLET #HKW=T001AAZ01UC106-UC001	0	236	CONNECTION DIAGRAM 1X26 #HKW=T001AAZ01UC101-UC001
0	157	SCHEM. DIAGRAM 230VAC UPS POWER SUPPLY (PDU-10) #HKW=T001AAZ01UC104-UC001		197	SPARE	0	237	CONNECTION DIAGRAM 1X27 #HKW=T001AAZ01UC101-UC001
	158	SPARE	0	198	SCHEM. DIAGRAM 230VAC UPS PWR. SUPPLY 6-SO-2 OUTLET #HKW=T001AAZ01UC106-UC001	0	238	CONNECTION DIAGRAM 1X28 #HKW=T001AAZ01UC101-UC001
	159	SPARE	0	199	SCHEMATIC DIAGRAM 230VAC SERVICE OUTLET 6-SO-10 OUTLET #HKW=T001AAZ01UC106-UC101		239	SPARE
	160	SPARE		200	SPARE		240	SPARE

REV	DATE	DESCRIPTION	BY	APPR.	SUBJECT INDEX SHEET					
0	01-06-2022	ISSUED FOR COMMENTS	KLM		SENSING & COMMUNICATION SYSTEM #HKW=T001AAZ01UC101-UC106					
					PROJECT HOLLANDSE KUST WEST ALPHA				DWG. NO.	SHEET
					DESIGNED KLM	DATE 09-05-2022	CHECKED	DATE	HKWA1-TE-DR-069	003
					DRAWN KLM	DATE 09-05-2022	APPR.	DATE	FILENAME HKWA1-TE-DR-069-003-0	

REV.	SHT NO.	DESCRIPTION	REV.	SHT NO.	DESCRIPTION	REV.	SHT NO.	DESCRIPTION
0	241	CONNECTION DIAGRAM 1X30 #HKW=T001AAZ01UC101-UC001	0	281	CONNECTION DIAGRAM 3X30 #HKW=T001AAZ01UC103-UC001	0	321	CONNECTION DIAGRAM 6X30 #HKW=T001AAZ01UC106-UC001
0	242	CONNECTION DIAGRAM 1X31 #HKW=T001AAZ01UC101-UC001	0	282	CONNECTION DIAGRAM 3X31 #HKW=T001AAZ01UC103-UC001	0	322	CONNECTION DIAGRAM 6X31 #HKW=T001AAZ01UC106-UC001
0	243	CONNECTION DIAGRAM 1X32 #HKW=T001AAZ01UC101-UC001	0	283	CONNECTION DIAGRAM 3X32 #HKW=T001AAZ01UC103-UC001	0	323	CONNECTION DIAGRAM 6X41 #HKW=T001AAZ01UC106-UC001
	244	SPARE		284	SPARE	0	324	CONNECTION DIAGRAM 6X42 #HKW=T001AAZ01UC106-UC001
	245	SPARE	0	285	CONNECTION DIAGRAM 3X41 #HKW=T001AAZ01UC103-UC001		325	SPARE
0	246	SPARE	0	286	CONNECTION DIAGRAM 3X42 #HKW=T001AAZ01UC103-UC001	0	326	SIDE VIEW LEFT & RIGHT SIDE OF PANEL #HKW=T001AAZ01UC101-UC001
0	247	CONNECTION DIAGRAM 1X41 #HKW=T001AAZ01UC101-UC001		287	SPARE	0	327	FRONT, REAR & TOP VIEW OF PANEL #HKW=T001AAZ01UC101-UC001
0	248	CONNECTION DIAGRAM 1X42 #HKW=T001AAZ01UC101-UC001		288	SPARE	0	328	FRONT & REAR VIEW OF PANEL INSIDE #HKW=T001AAZ01UC101-UC001
0	249	CONNECTION DIAGRAM 1X43 #HKW=T001AAZ01UC101-UC001	0	289	CONNECTION DIAGRAM 4X20 #HKW=T001AAZ01UC104-UC001	0	329	DETAIL INSIDE OF PANEL #HKW=T001AAZ01UC101-UC001
0	250	CONNECTION DIAGRAM 1X44 #HKW=T001AAZ01UC101-UC001	0	290	CONNECTION DIAGRAM 4X21 #HKW=T001AAZ01UC104-UC001	0	330	SIDE VIEW LEFT & RIGHT SIDE OF PANEL #HKW=T001AAZ01UC102-UC001
0	251	CONNECTION DIAGRAM 1X45 #HKW=T001AAZ01UC101-UC001	0	291	CONNECTION DIAGRAM 4X22 #HKW=T001AAZ01UC104-UC001	0	331	FRONT, REAR & TOP VIEW OF PANEL #HKW=T001AAZ01UC102-UC001
0	252	CONNECTION DIAGRAM 1X46 #HKW=T001AAZ01UC101-UC001		292	SPARE	0	332	FRONT & REAR VIEW OF PANEL INSIDE #HKW=T001AAZ01UC102-UC001
	253	SPARE	0	293	CONNECTION DIAGRAM 4X24 #HKW=T001AAZ01UC104-UC001	0	333	DETAIL INSIDE OF PANEL #HKW=T001AAZ01UC102-UC001
0	254	CONNECTION DIAGRAM 2X20 #HKW=T001AAZ01UC102-UC001	0	294	CONNECTION DIAGRAM 4X25 #HKW=T001AAZ01UC104-UC001	0	334	SIDE VIEW LEFT & RIGHT SIDE OF PANEL #HKW=T001AAZ01UC103-UC001
0	255	CONNECTION DIAGRAM 2X21 #HKW=T001AAZ01UC102-UC001		295	SPARE	0	335	FRONT, REAR & TOP VIEW OF PANEL #HKW=T001AAZ01UC103-UC001
0	256	CONNECTION DIAGRAM 2X22 #HKW=T001AAZ01UC102-UC001		296	SPARE	0	336	FRONT & REAR VIEW OF PANEL INSIDE #HKW=T001AAZ01UC103-UC001
0	257	CONNECTION DIAGRAM 2X24 #HKW=T001AAZ01UC102-UC001	0	297	CONNECTION DIAGRAM 4X41 #HKW=T001AAZ01UC104-UC001	0	337	DETAIL INSIDE OF PANEL #HKW=T001AAZ01UC103-UC001
0	258	CONNECTION DIAGRAM 2X25 #HKW=T001AAZ01UC102-UC001	0	298	CONNECTION DIAGRAM 4X42 #HKW=T001AAZ01UC104-UC001	0	338	SIDE VIEW LEFT & RIGHT SIDE OF PANEL #HKW=T001AAZ01UC104-UC001
0	259	CONNECTION DIAGRAM 2X26 #HKW=T001AAZ01UC102-UC001		299	SPARE	0	339	FRONT, REAR & TOP VIEW OF PANEL #HKW=T001AAZ01UC104-UC001
0	260	CONNECTION DIAGRAM 2X27 #HKW=T001AAZ01UC102-UC001	0	300	CONNECTION DIAGRAM 5X20 #HKW=T001AAZ01UC105-UC001	0	340	FRONT & REAR VIEW OF PANEL INSIDE #HKW=T001AAZ01UC104-UC001
0	261	CONNECTION DIAGRAM 2X30 #HKW=T001AAZ01UC102-UC001	0	301	CONNECTION DIAGRAM 5X21 #HKW=T001AAZ01UC105-UC001	0	341	DETAIL INSIDE OF PANEL #HKW=T001AAZ01UC104-UC001
0	262	CONNECTION DIAGRAM 2X31 #HKW=T001AAZ01UC102-UC001	0	302	CONNECTION DIAGRAM 5X22 #HKW=T001AAZ01UC105-UC001	0	342	SIDE VIEW LEFT & RIGHT SIDE OF PANEL #HKW=T001AAZ01UC105-UC001
	263	SPARE	0	303	CONNECTION DIAGRAM 5X24 #HKW=T001AAZ01UC105-UC001	0	343	FRONT, REAR & TOP VIEW OF PANEL #HKW=T001AAZ01UC105-UC001
0	264	CONNECTION DIAGRAM 2X41 #HKW=T001AAZ01UC102-UC001	0	304	CONNECTION DIAGRAM 5X25 #HKW=T001AAZ01UC105-UC001	0	344	FRONT & REAR VIEW OF PANEL INSIDE #HKW=T001AAZ01UC105-UC001
0	265	CONNECTION DIAGRAM 2X43 #HKW=T001AAZ01UC103-UC001	0	305	CONNECTION DIAGRAM 5X26 #HKW=T001AAZ01UC105-UC001	0	345	DETAIL INSIDE OF PANEL #HKW=T001AAZ01UC105-UC001
	266	SPARE	0	306	CONNECTION DIAGRAM 5X27 #HKW=T001AAZ01UC105-UC001	0	346	SIDE VIEW LEFT & RIGHT SIDE OF PANEL #HKW=T001AAZ01UC106-UC001
	267	SPARE	0	307	CONNECTION DIAGRAM 5X28 #HKW=T001AAZ01UC105-UC001	0	347	FRONT, REAR & TOP VIEW OF PANEL #HKW=T001AAZ01UC106-UC001
	268	SPARE	0	308	CONNECTION DIAGRAM 5X30 #HKW=T001AAZ01UC105-UC001	0	348	FRONT & REAR VIEW OF PANEL INSIDE #HKW=T001AAZ01UC106-UC001
	269	SPARE	0	309	CONNECTION DIAGRAM 5X31 #HKW=T001AAZ01UC105-UC001	0	349	DETAIL INSIDE OF PANEL #HKW=T001AAZ01UC106-UC001
	270	SPARE	0	310	CONNECTION DIAGRAM 5X41 #HKW=T001AAZ01UC105-UC001	0	350	TYPICAL DIMENSIONS DRAWING PANEL PLINTH
	271	SPARE	0	311	CONNECTION DIAGRAM 5X43 #HKW=T001AAZ01UC105-UC001	0	351	TOP VIEW PANEL LAYOUT #HKW=T001AAZ01UC101-UC106
	272	SPARE	0	312	CONNECTION DIAGRAM 6X20 #HKW=T001AAZ01UC106-UC001		352	SPARE
	273	SPARE	0	313	CONNECTION DIAGRAM 6X21 #HKW=T001AAZ01UC106-UC001		353	SPARE
	274	SPARE	0	314	CONNECTION DIAGRAM 6X22 #HKW=T001AAZ01UC106-UC001		354	SPARE
0	275	CONNECTION DIAGRAM 3X20 #HKW=T001AAZ01UC103-UC001	0	315	CONNECTION DIAGRAM 6X24 #HKW=T001AAZ01UC106-UC001		355	SPARE
0	276	CONNECTION DIAGRAM 3X21 #HKW=T001AAZ01UC103-UC001	0	316	CONNECTION DIAGRAM 6X25 #HKW=T001AAZ01UC106-UC001		356	SPARE
0	277	CONNECTION DIAGRAM 3X22 #HKW=T001AAZ01UC103-UC001	0	317	CONNECTION DIAGRAM 6X26 #HKW=T001AAZ01UC106-UC001		357	SPARE
	278	SPARE	0	318	CONNECTION DIAGRAM 6X27 #HKW=T001AAZ01UC106-UC001		358	SPARE
0	279	CONNECTION DIAGRAM 3X24 #HKW=T001AAZ01UC103-UC001	0	319	CONNECTION DIAGRAM 6X28 #HKW=T001AAZ01UC106-UC001		359	SPARE
0	280	CONNECTION DIAGRAM 3X25 #HKW=T001AAZ01UC103-UC001	0	320	CONNECTION DIAGRAM 6X29 #HKW=T001AAZ01UC106-UC001		360	SPARE

REV	DATE	DESCRIPTION	BY	APPR.	SUBJECT INDEX SHEET					
0	01-06-2022	ISSUED FOR COMMENTS	KLM		SENSING & COMMUNICATION SYSTEM #HKW=T001AAZ01UC101 - UC106					
					PROJECT HOLLANDSE KUST WEST ALPHA				DWG. NO.	SHEET
					DESIGNED KLM	DATE 11-05-2022	CHECKED	DATE	HKWA1-TE-DR-069	004
					DRAWN KLM	DATE 11-05-2022	APPR.	DATE	FILENAME HKWA1-TE-DR-069-004-0	

REV.	SHT NO.	DESCRIPTION		SHT NO.	DESCRIPTION		SHT NO.	DESCRIPTION
	361	SPARE	0	401	INSIDE VIEW ENCLOSURE	0	441	MATERIAL LIST #HKW=T001AAZ01UC101-UC106
	362	SPARE		402	SPARE		442	SPARE
	363	SPARE	0	403	MECHANICAL MACHINING BOTTOM SIDE		443	SPARE
	364	SPARE	0	404	FRONT AND SIDE VIEW ENCLOSURE		444	SPARE
	365	SPARE		405	SPARE		445	SPARE
	366	SPARE		406	SPARE		446	SPARE
	367	SPARE		407	SPARE		447	SPARE
	368	SPARE		408	SPARE		448	SPARE
	369	SPARE		409	SPARE		449	SPARE
	370	SPARE		410	SPARE		450	SPARE
	371	SPARE		411	SPARE		451	SPARE
	372	SPARE		412	SPARE		452	SPARE
	373	SPARE		413	SPARE		453	SPARE
	374	SPARE		414	SPARE		454	SPARE
	375	SPARE		415	SPARE		455	SPARE
	376	SPARE		416	SPARE		456	SPARE
	377	SPARE		417	SPARE		457	SPARE
	378	SPARE		418	SPARE		458	SPARE
	379	SPARE		419	SPARE		459	SPARE
	380	SPARE	0	420	INSIDE VIEW ENCLOSURE		460	SPARE
	381	SPARE		421	SPARE		461	SPARE
	382	SPARE	1	422	FRONT AND SIDE VIEW ENCLOSURE		462	SPARE
	383	SPARE	0	423	FRONT VIEW ENCLOSURE		463	SPARE
	384	SPARE		424	SPARE		464	SPARE
	385	SPARE		425	SPARE		465	SPARE
	386	SPARE		426	SPARE		466	SPARE
	387	SPARE		427	SPARE		467	SPARE
	388	SPARE		428	SPARE		468	SPARE
	389	SPARE		429	SPARE		469	SPARE
	390	SPARE		430	SPARE		470	SPARE
	391	SPARE		431	SPARE		471	SPARE
	392	SPARE		432	SPARE		472	SPARE
	393	SPARE	0	433	MECHANICAL MACHINING SIDE COVERS #HKW=T001AAZ01UC101-UC106		473	SPARE
	394	SPARE	0	434	MECHANICAL MACHINING SIDE COVERS #HKW=T001AAZ01UC101-UC106		474	SPARE
	395	SPARE	0	435	MECHANICAL MACHINING SIDE COVERS #HKW=T001AAZ01UC101-UC106		475	SPARE
	396	SPARE	0	436	MATERIAL LIST #HKW=T001AAZ01UC101-UC106		476	SPARE
	397	SPARE	0	437	MATERIAL LIST #HKW=T001AAZ01UC101-UC106		477	SPARE
	398	SPARE	0	438	MATERIAL LIST #HKW=T001AAZ01UC101-UC106		478	SPARE
	399	SPARE	0	439	MATERIAL LIST #HKW=T001AAZ01UC101-UC106		479	SPARE
	400	SPARE	0	440	MATERIAL LIST #HKW=T001AAZ01UC101-UC106		480	SPARE

REV		DESCRIPTION	BY	APPR.	SUBJECT INDEX SHEET					
0	01-06-2022	ISSUED FOR COMMENTS	KLM		SENSING & COMMUNICATION SYSTEM #HKW=T001AAZ01UC101 - UC106					
					PROJECT HOLLANDSE KUST WEST ALPHA				DWG. NO.	SHEET
					DESIGNED KLM	DATE 28-04-2022	CHECKED	DATE	HKWA1-TE-DR-069	005
					DRAWN KLM	DATE 28-04-2022	APPR.	DATE	FILENAME HKWA1-TE-DR-069-005-0	

Appendix 4.2 - Block Diagram vastgesteld voor HKWB

COVER SHEET

SENSING & COMMUNICATION SYSTEM

#HKW=T002 AAZ0 1UC101–UC001

UP TO AND INCLUDING

#HKW=T002 AAZ01 UC108–UC001

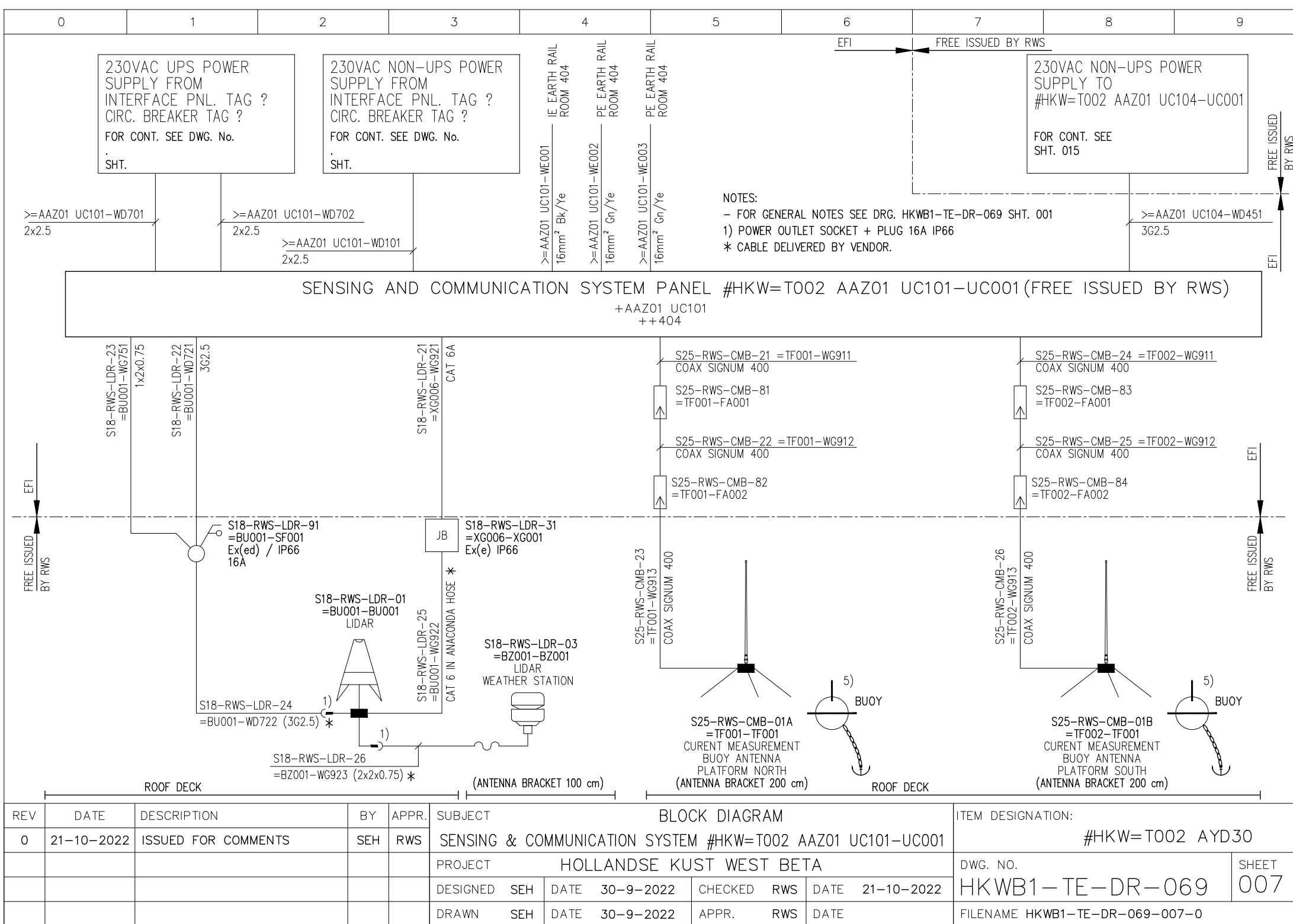
GENERAL NOTES:

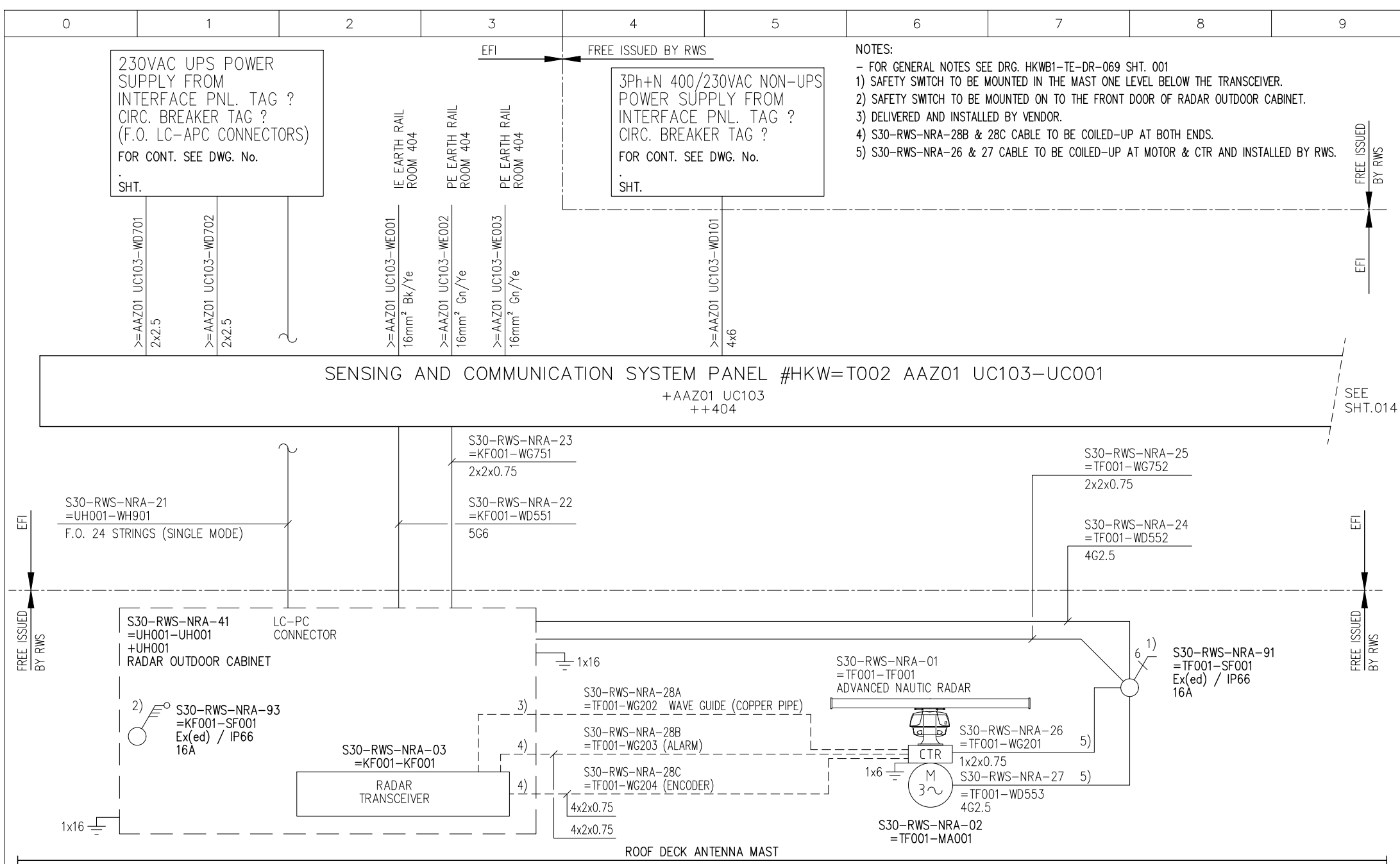
- 1) ALL SENSORS SHALL BE EASELY MAINTAINABLE FROM NEARBY BORDES
OR SHALL HAVE A SWIVEL CONSTRUCTION PROVIDED BY EFI (ENGIE FABRICOM IEMANTS)
- 2) INSTALLATION OF ALL FIELD EQUIPMENT BY EFI.
- 3) PULLING, INSTALLATION AND CONNECTION OF ALL CABLES IN SENSING & COMMUNICATION
PANEL AND FIELD EQUIPMENT BY EFI.
- 4) CABLE MAKE AND TYPE BY EFI, HOWEVER RWS APPROVAL IS REQUIRED
BEFORE CABLES WILL BE PURCHASED, ALL INSTRUMENTION CABLES SHALL BE
INDIVIDUAL + OVERALL SCREENED CABLES.
- 5) SPEC JUNCTION BOXES WILL FOLLOW LATER.
- 6) RWS SENSORS WILL BE DELIVERED WITH VENDOR JUNCTION BOX AND CABLE < 2m LENGHT.
- 7) JUNCTION BOXES, MAIN SWITCHES, SAFETY SWITCHES, AND SURGE ARRESTORS INCLUDING
BRACKET WILL BE FREE ISSUED BY RWS.
- 8) ALL VENDOR CABLES WILL BE DELIVERED BY RWS.
- 9) ALL COAX CABLES WILL HAVE TWO SURGE ARRESTERS, ONE CLOSE TO ROOM 404 AND
ONE CLOSE TO THE ANTENNA / SENSOR.

REV	DATE	DESCRIPTION	BY	APPR.	COVER SHEET					
0	21-10-2022	ISSUED FOR COMMENTS	SEH	RWS	SENSING & COMMUNICATION SYSTEM #HKW=T002 AAZ01 UC101–UC001					
					PROJECT HOLLANDSE KUST WEST BETA				DWG. NO.	SHEET
					DESIGNED	SEH	DATE	30-9-2022	CHECKED	RWS
					DRAWN	SEH	DATE	30-9-2022	APPR.	RWS
									HKWB1–TE–DR–069	
									001	
									FILENAME HKWB1–TE–DR–069–001–0	

REV.	SHT NO.	DESCRIPTION	REV.	SHT NO.	DESCRIPTION	REV.	SHT NO.	DESCRIPTION
0	001	COVER SHEET		041	SPARE		081	SPARE
0	002	INDEX SHEET #HKW=T002 AAZ01 UC101-UC001 THROUGH UC108-UC001		042	SPARE		082	SPARE
	003	SPARE		043	SPARE		083	SPARE
	004	SPARE		044	SPARE		084	SPARE
	005	SPARE		045	SPARE		085	SPARE
	006	SPARE		046	SPARE		086	SPARE
0	007	BLOCK DIAGRAM #HKW=T002 AAZ01 UC101-UC001		047	SPARE		087	SPARE
	008	SPARE		048	SPARE		088	SPARE
	009	SPARE		049	SPARE		089	SPARE
	010	SPARE		050	SPARE		090	SPARE
0	011	BLOCK DIAGRAM #HKW=T002 AAZ01 UC103-UC001		051	SPARE		091	SPARE
	012	SPARE		052	SPARE		092	SPARE
0	013	BLOCK DIAGRAM #HKW=T002 AAZ01 UC104-UC001		053	SPARE		093	SPARE
0	014	BLOCK DIAGRAM #HKW=T002 AAZ01 UC104-UC001		054	SPARE		094	SPARE
0	015	BLOCK DIAGRAM #HKW=T002 AAZ01 UC105-UC001		055	SPARE		095	SPARE
	016	SPARE		056	SPARE		096	SPARE
0	017	BLOCK DIAGRAM #HKW=T002 AAZ01 UC106-UC001		057	SPARE		097	SPARE
0	018	BLOCK DIAGRAM #HKW=T002 AAZ01 UC106-UC001		058	SPARE		098	SPARE
0	019	BLOCK DIAGRAM #HKW=T002 AAZ01 UC106-UC001		059	SPARE		099	SPARE
0	020	BLOCK DIAGRAM #HKW=T002 AAZ01 UC106-UC001		060	SPARE		100	SPARE
0	021	BLOCK DIAGRAM #HKW=T002 AAZ01 UC107-UC001		061	SPARE		101	SPARE
0	022	BLOCK DIAGRAM #HKW=T002 AAZ01 UC108-UC001		062	SPARE		102	SPARE
	023	SPARE		063	SPARE		103	SPARE
	024	SPARE		064	SPARE		104	SPARE
	025	SPARE		065	SPARE		105	SPARE
	026	SPARE		066	SPARE		106	SPARE
	027	SPARE		067	SPARE		107	SPARE
	028	SPARE		068	SPARE		108	SPARE
	029	SPARE		069	SPARE		109	SPARE
	030	SPARE		070	SPARE		110	SPARE
	031	SPARE		071	SPARE		111	SPARE
	032	SPARE		072	SPARE		112	SPARE
	033	SPARE		073	SPARE		113	SPARE
	034	SPARE		074	SPARE		114	SPARE
	035	SPARE		075	SPARE		115	SPARE
	036	SPARE		076	SPARE		116	SPARE
	037	SPARE		077	SPARE		117	SPARE
	038	SPARE		078	SPARE		118	SPARE
	039	SPARE		079	SPARE		119	SPARE
	040	SPARE		080	SPARE		120	SPARE

REV	DATE	DESCRIPTION	BY	APPR.	INDEX SHEET					
0	21-10-2022	ISSUED FOR COMMENTS	SEH	RWS	SENSING & COMMUNICATION SYSTEM #HKW=T002 AAZ01 UC102-UC001					
					PROJECT HOLLANDSE KUST WEST BETA				DWG. NO.	SHEET
					DESIGNED	SEH	DATE	30-9-2022	CHECKED	RWS
					DRAWN	SEH	DATE	30-9-2022	APPR.	RWS
									21-10-2022	
									HKWB1-TE-DR-069	
									002	
									FILENAME HKWB1-TE-DR-069-002-0	

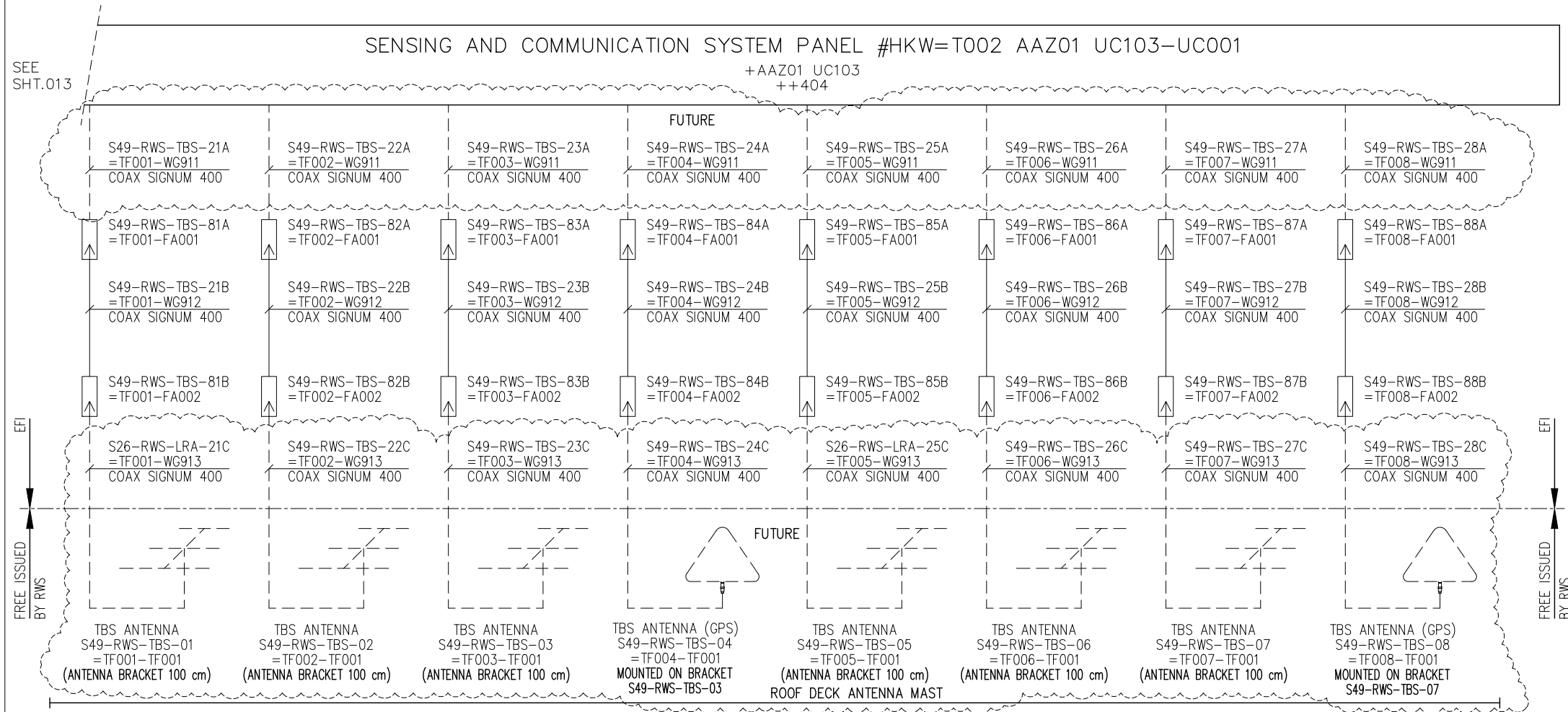




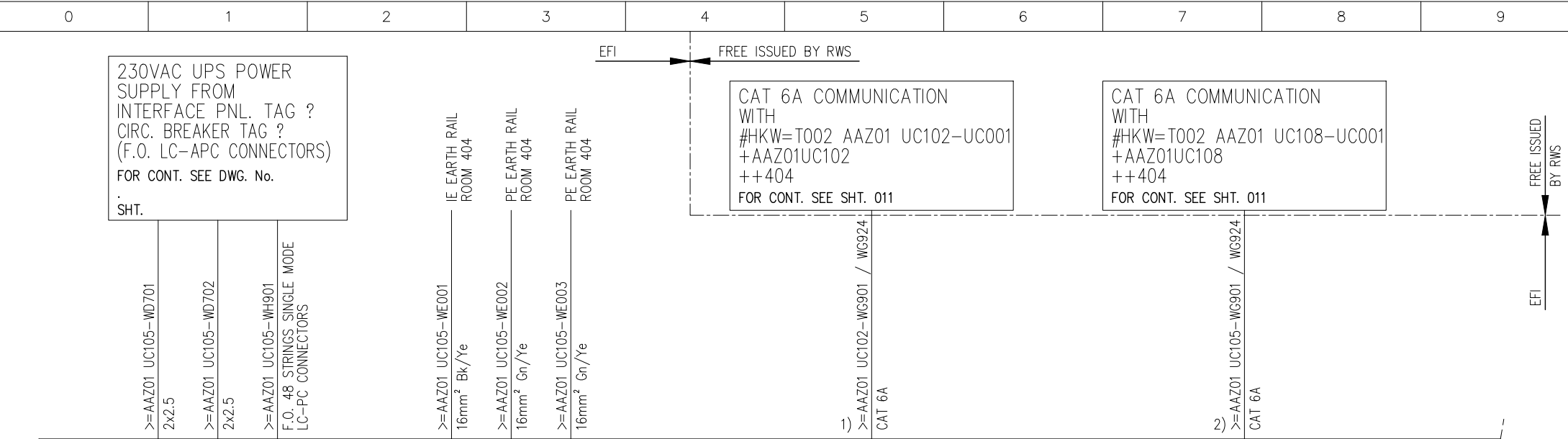
REV	DATE	DESCRIPTION	BY	APPR.	BLOCK DIAGRAM					ITEM DESIGNATION:				
0	21-10-2022	ISSUED FOR COMMENTS	SEH	RWS	SENSING & COMMUNICATION SYSTEM #HKW=T002 AAZ01 UC103-UC001					#HKW=T002 AXS40				
					PROJECT HOLLANDSE KUST WEST BETA					DWG. NO.	SHEET			
					DESIGNED	SEH	DATE	30-9-2022	CHECKED	RWS	DATE	21-10-2022	HKWB1-TE-DR-069	013
					DRAWN	SEH	DATE	30-9-2022	APPR.	RWS	DATE			
										FILENAME HKWB1-TE-DR-069-013-0				

0	1	2	3	4	5	6	7	8	9
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NOTES:
- FOR GENERAL NOTES SEE DRG. HKWB1-TE-DR-069 SHT. 001



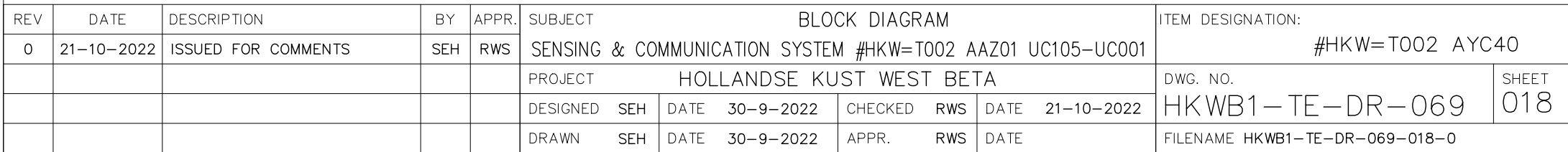
REV	DATE	DESCRIPTION	BY	APPR.	SUBJECT	ITEM DESIGNATION:
0	21-10-2022	ISSUED FOR COMMENTS	SEH	RWS	SENSING & COMMUNICATION SYSTEM #HKW=T002 AAZ01 UC103-UC001	#HKW=T002 AXS60
					PROJECT HOLLANDSE KUST WEST BETA	DWG. NO. HKWB1-TE-DR-069
					DESIGNED SEH DATE 30-9-2022 CHECKED RWS DATE 21-10-2022	SHEET 014
					DRAWN SEH DATE 30-9-2022 APPR. RWS DATE	FILENAME HKWB1-TE-DR-069-014-0

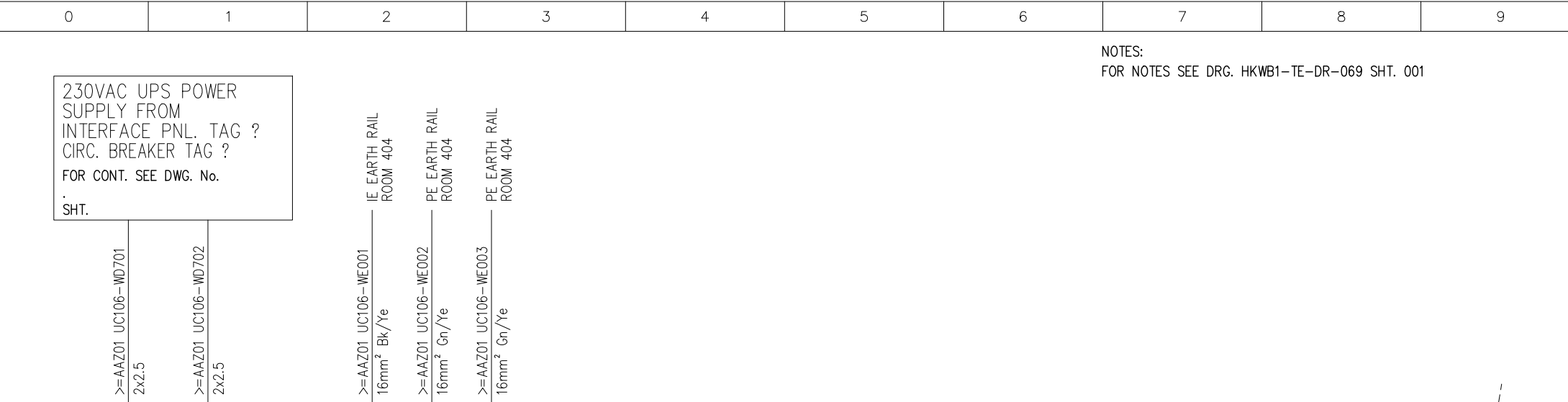


NOTES:
- FOR GENERAL NOTES SEE DRG. HKWB1-TE-DR-069 SHT. 001
1) >=AAZ001 UC102-WG901 THROUGH UC102-WG924 DELIVERED AND INSTALLED BY RWS.
2) >=AAZ001 UC105-WG901 THROUGH UC105-WG924 DELIVERED AND INSTALLED BY RWS.

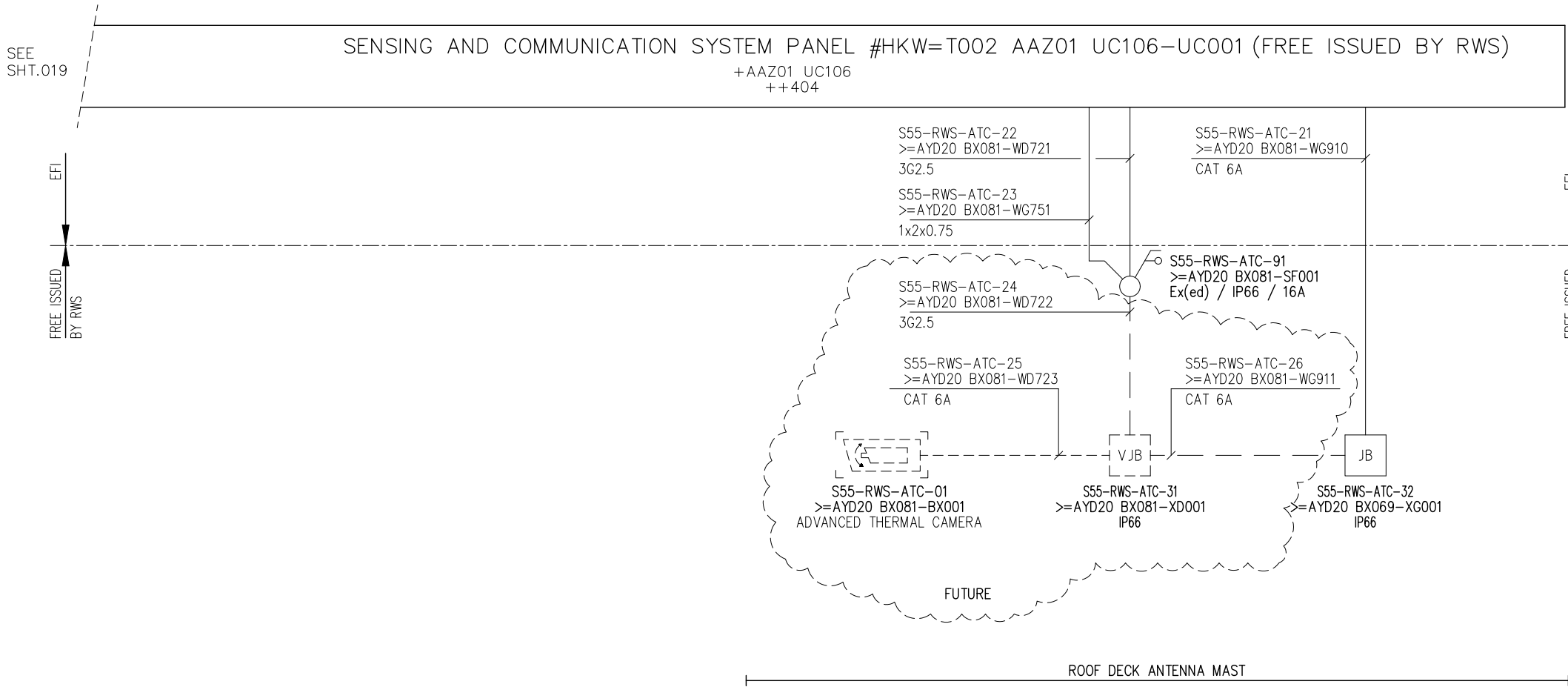
REV	DATE	DESCRIPTION	BY	APPR.	SUBJECT	ITEM DESIGNATION:
0	21-10-2022	ISSUED FOR COMMENTS	SEH	RWS	BLOCK DIAGRAM SENSING & COMMUNICATION SYSTEM #HKW=T002 AAZ01 UC105-UC001	#HKW=T002 AYC30
					PROJECT HOLLANDSE KUST WEST BETA	DWG. NO. HKWB1-TE-DR-069
					DESIGNED SEH DATE 30-9-2022	CHECKED RWS DATE 21-10-2022
					DRAWN SEH DATE 30-9-2022	APPR. RWS DATE
						FILENAME HKWB1-TE-DR-069-017-0

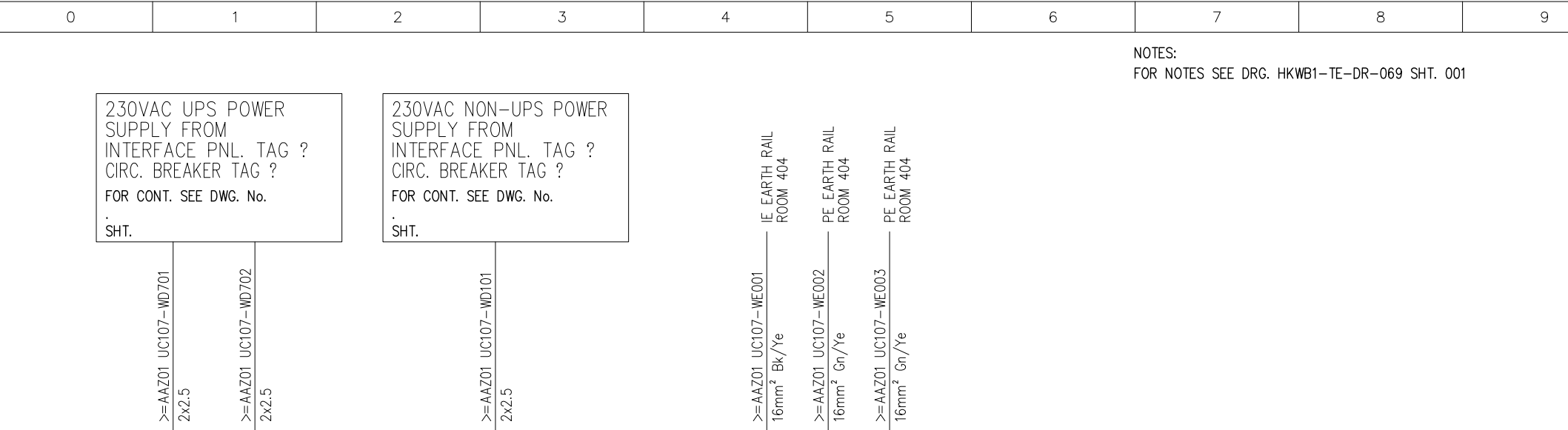
1) CAMERA BRACKET TO BE SUPPLIED BY EFI.





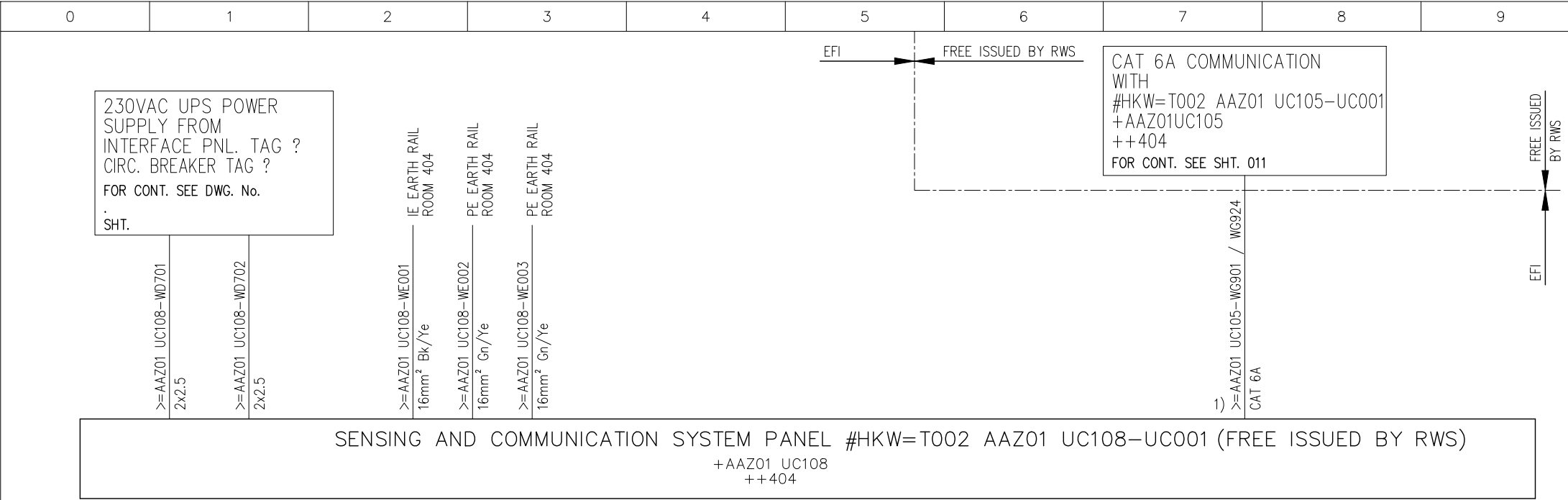
NOTES:
FOR NOTES SEE DRG. HKWB1-TE-DR-069 SHT. 001





NOTES:
FOR NOTES SEE DRG. HKWB1-TE-DR-069 SHT. 001

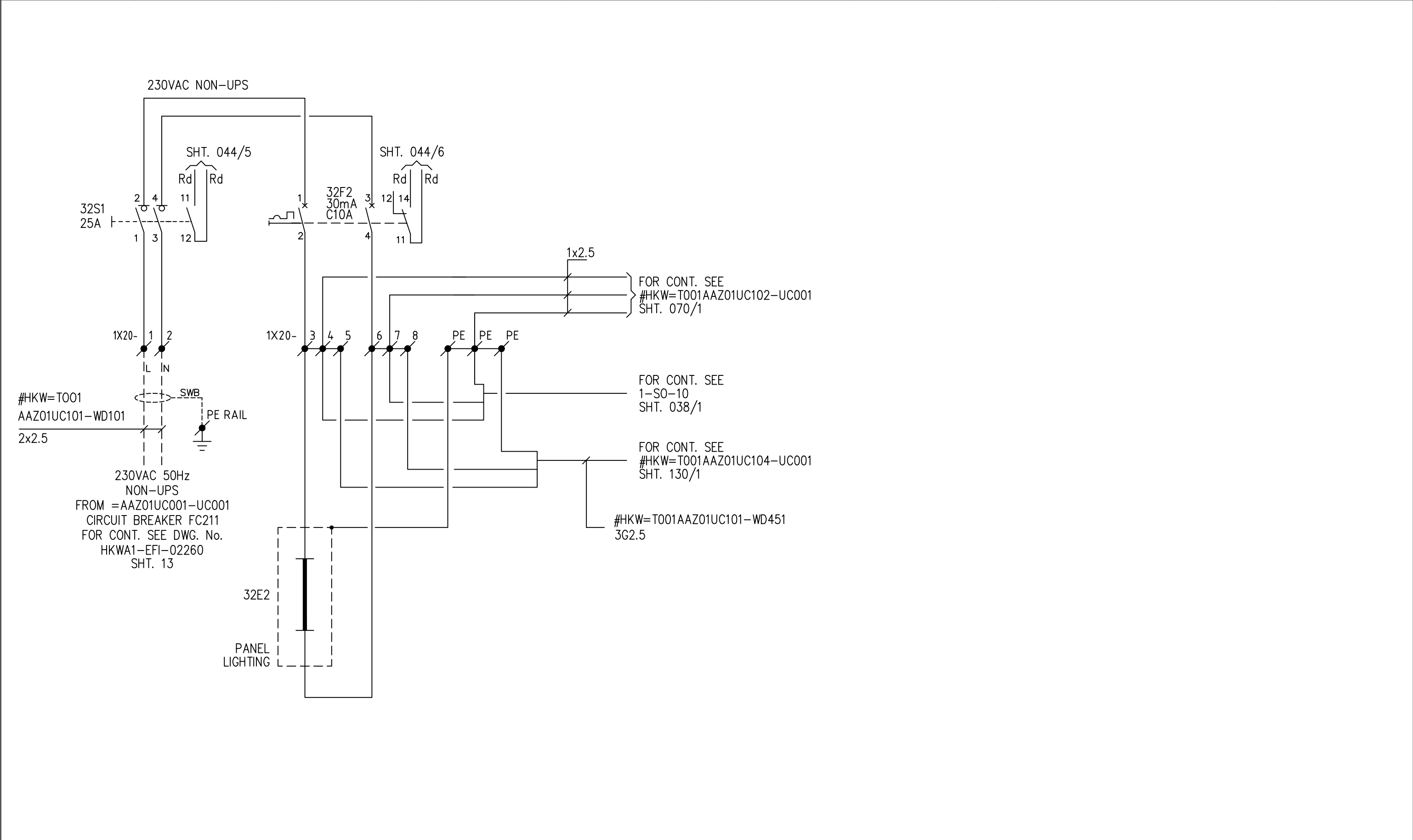
REV	DATE	DESCRIPTION	BY	APPR.	BLOCK DIAGRAM					ITEM DESIGNATION:				
0	21-10-2022	ISSUED FOR COMMENTS	SEH	RWS	SENSING & COMMUNICATION SYSTEM #HKW=T002 AAZ01 UC107-UC001					#HKW=T002 AXS10				
					PROJECT HOLLANDSE KUST WEST BETA					DWG. NO.	SHEET NO.			
					DESIGNED	SEH	DATE	30-9-2022	CHECKED	RWS	DATE	21-10-2022	HKWB1-TE-DR-069	021
					DRAWN	SEH	DATE	30-9-2022	APPR.	RWS	DATE		FILENAME HKWB1-TE-DR-069-021-0	



NOTES:
FOR NOTES SEE DRG. HKWB1-TE-DR-069 SHT. 001
1) >=AAZ001 UC105-WG901 THROUGH UC105-WG924
DELIVERED AND INSTALLED BY RWS.

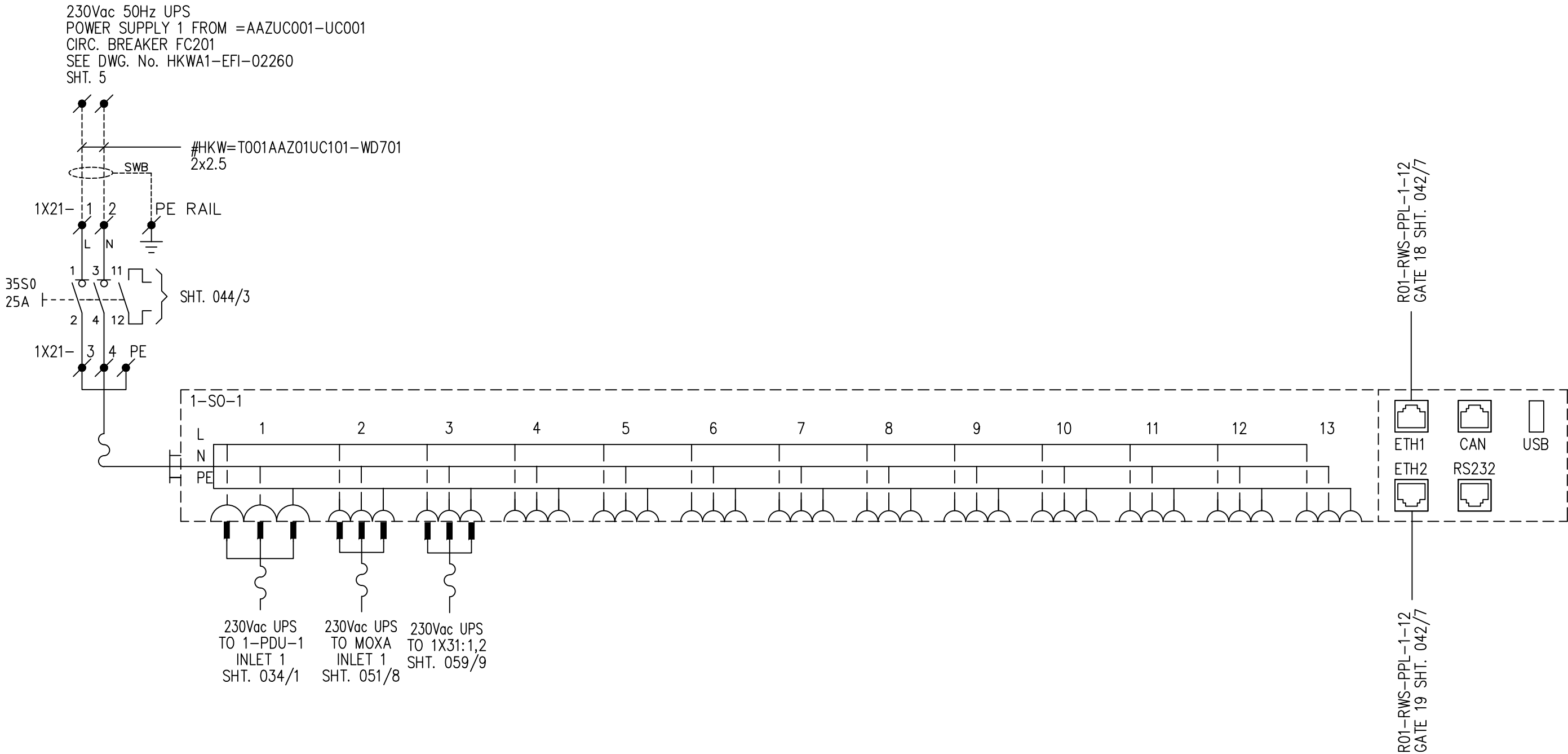
REV	DATE	DESCRIPTION	BY	APPR.	SUBJECT					BLOCK DIAGRAM					ITEM DESIGNATION:		
0	21-10-2022	ISSUED FOR COMMENTS	SEH	RWS	SENSING & COMMUNICATION SYSTEM #HKW=T002 AAZ01 UC108-UC001					#HKW=T002 AXS10							
					PROJECT					HOLLANDSE KUST WEST BETA					DWG. NO.		SHEET
					DESIGNED	SEH	DATE	30-9-2022	CHECKED	RWS	DATE	21-10-2022	HKWB1-TE-DR-069		022		
					DRAWN	SEH	DATE	30-9-2022	APPR.	RWS	DATE		FILENAME HKWB1-TE-DR-069-022-0				

Appendix 4.3 - Voorbeeld Schematic Diagrams

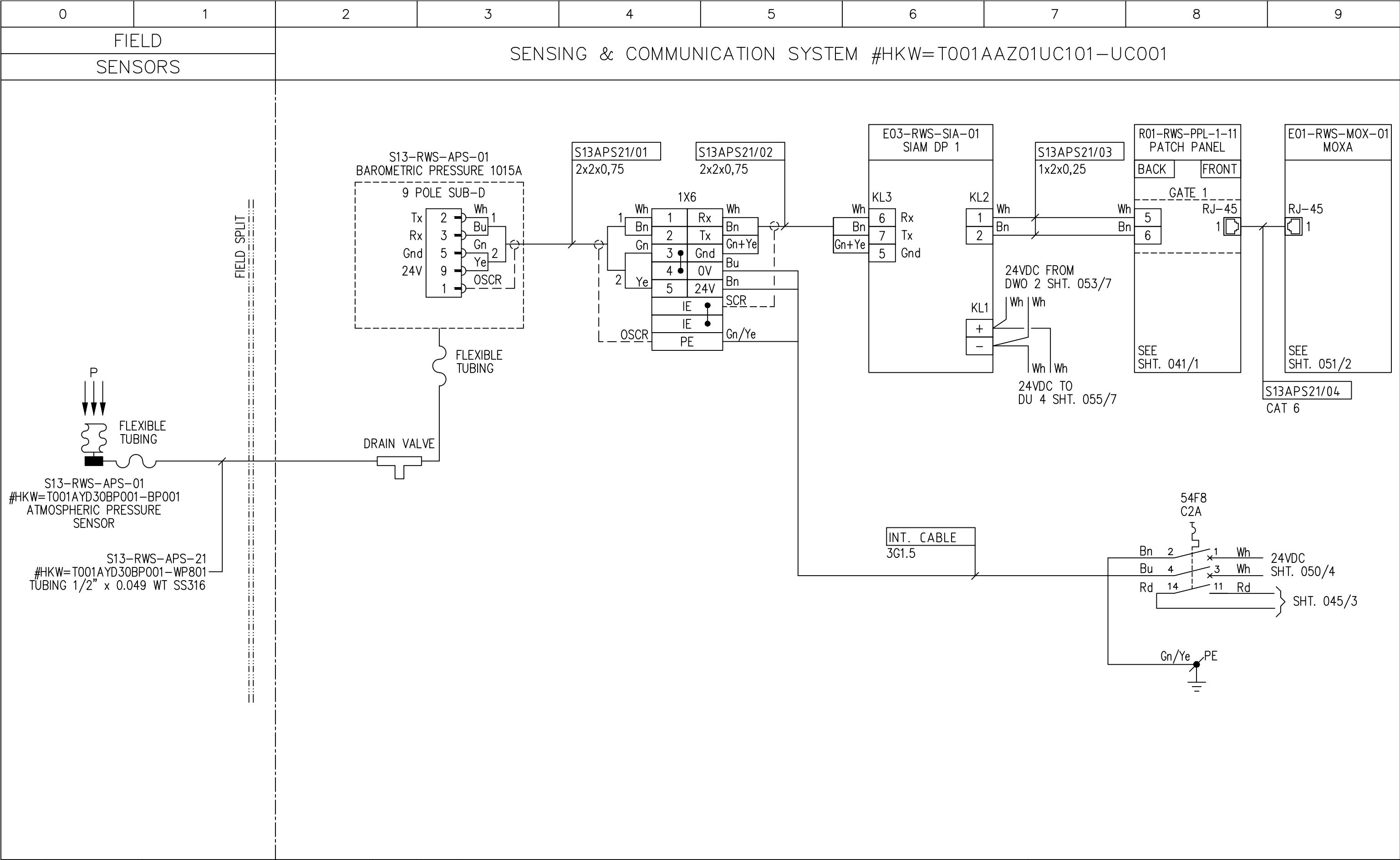


REV	DATE	DESCRIPTION	BY	APPR.	SUBJECT SCHEMATIC DIAGRAM 230VAC PANEL LIGHTING				ITEM DESIGNATION:	
0	01-06-2022	ISSUED FOR COMMENTS	KLM		SENSING & COMMUNICATION SYSTEM #HKW=T001AAZ01UC101-UC001					
					PROJECT HOLLANDSE KUST WEST ALPHA				DWG. NO.	SHEET
					DESIGNED KLM	DATE 03-05-2022	CHECKED	DATE	HKWA1-TE-DR-069	
					DRAWN KLM	DATE 03-05-2022	APPR.	DATE	FILENAME HKWA1-TE-DR-069-032-0	

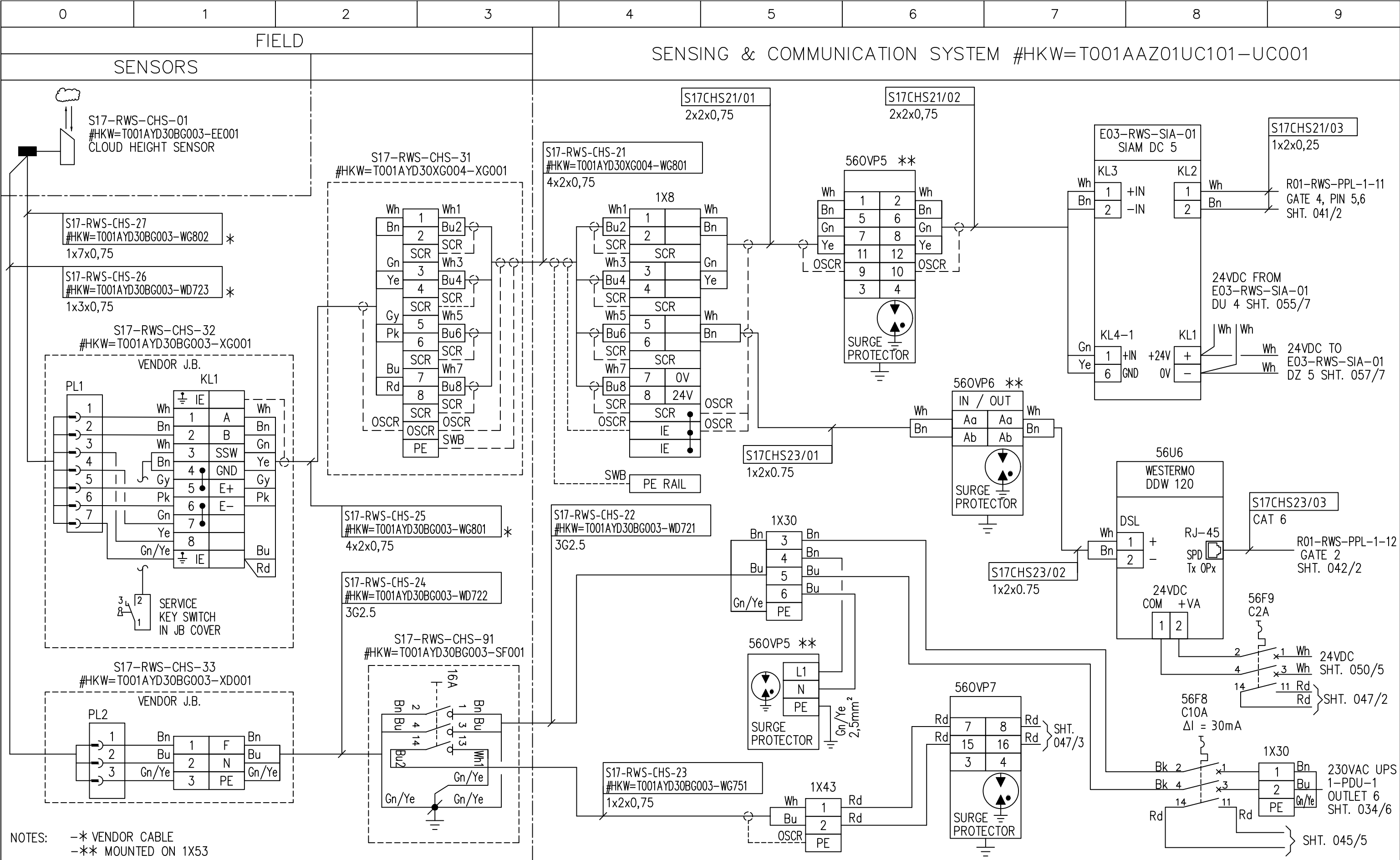
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REV	DATE	DESCRIPTION	BY	APPR.	SUBJECT SCHEM. DIAGRAM 230VAC UPS POWER SUPPLY OUTLET 1-S0-1				ITEM DESIGNATION:	
0	01-06-2022	ISSUED FOR COMMENTS	KLM		SENSING & COMMUNICATION SYSTEM #HKW=T001AAZ01UC101-UC001					
					PROJECT HOLLANDSE KUST WEST ALPHA				DWG. NO.	SHEET
					DESIGNED KLM	DATE 03-05-2022	CHECKED	DATE	HKWA1-TE-DR-069	
					DRAWN KLM	DATE 03-05-2022	APPR.	DATE	FILENAME HKWA1-TE-DR-069-035-0	

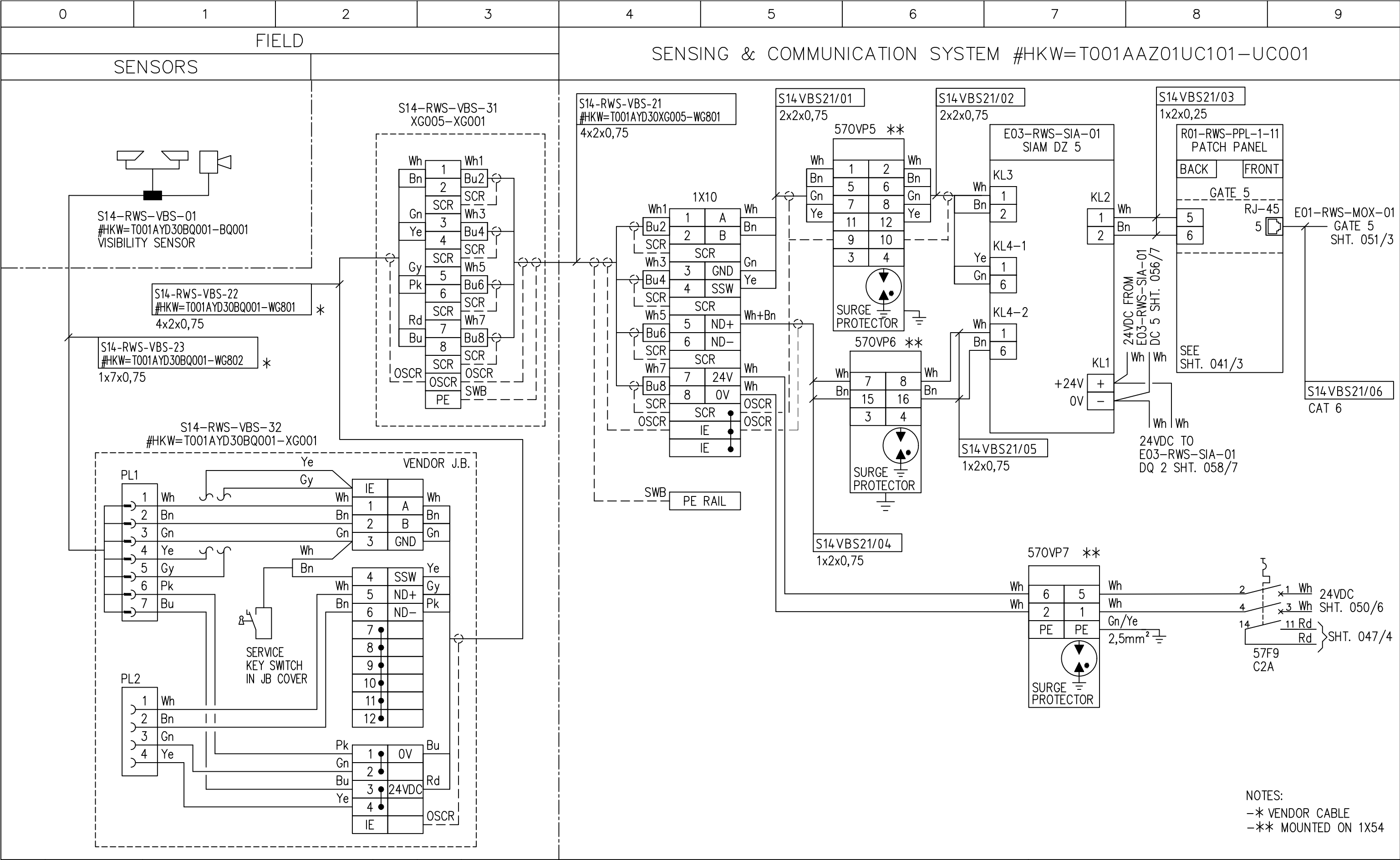


REV	DATE	DESCRIPTION	BY	APPR.	SUBJECT SCHEMATIC DIAGRAM BAROMETRIC AIR PRESSURE SENSING & COMMUNICATION SYSTEM #HKW=T001AAZ01UC101-UC001				ITEM DESIGNATION:	
0	01-06-2022	ISSUED FOR COMMENTS	KLM							
					PROJECT HOLLANDSE KUST WEST ALPHA				DWG. NO.	SHEET
					DESIGNED	KLM	DATE	28-04-2022	CHECKED	DATE
					DRAWN	KLM	DATE	28-04-2022	APPR.	DATE
									FILENAME HKWA1-TE-DR-069-054-0	

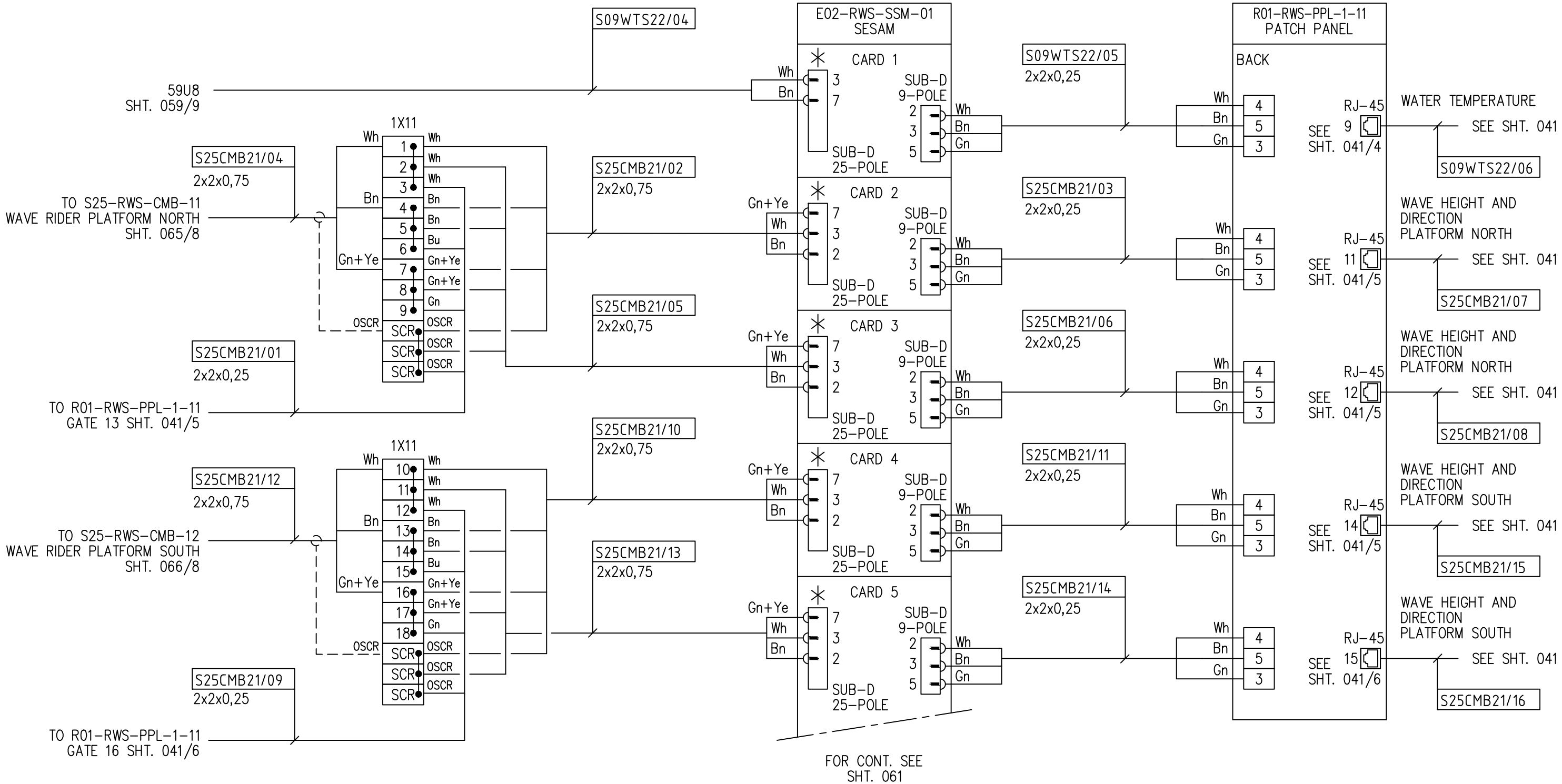


REV	DATE	DESCRIPTION	BY	APPR.	SUBJECT	ITEM DESIGNATION:
0	01-06-2022	ISSUED FOR COMMENTS	KLM		S17-RWS-CHS-01 #HKW=T001AYD30BG003-EE001 CLOUD HEIGHT SENSOR	
					SENSING & COMMUNICATION SYSTEM #HKW=T001AAZ01UC101-UC001	
					PROJECT	HOLLANDSE KUST WEST ALPHA
					DESIGNED KLM	DATE 28-04-2022
					CHECKED	DATE
					DRAWN KLM	DATE 28-04-2022
					APPR.	DATE
						FILENAME HKWA1-TE-DR-069-056-0

DWG. NO.	SHEET
HKWA1-TE-DR-069	056

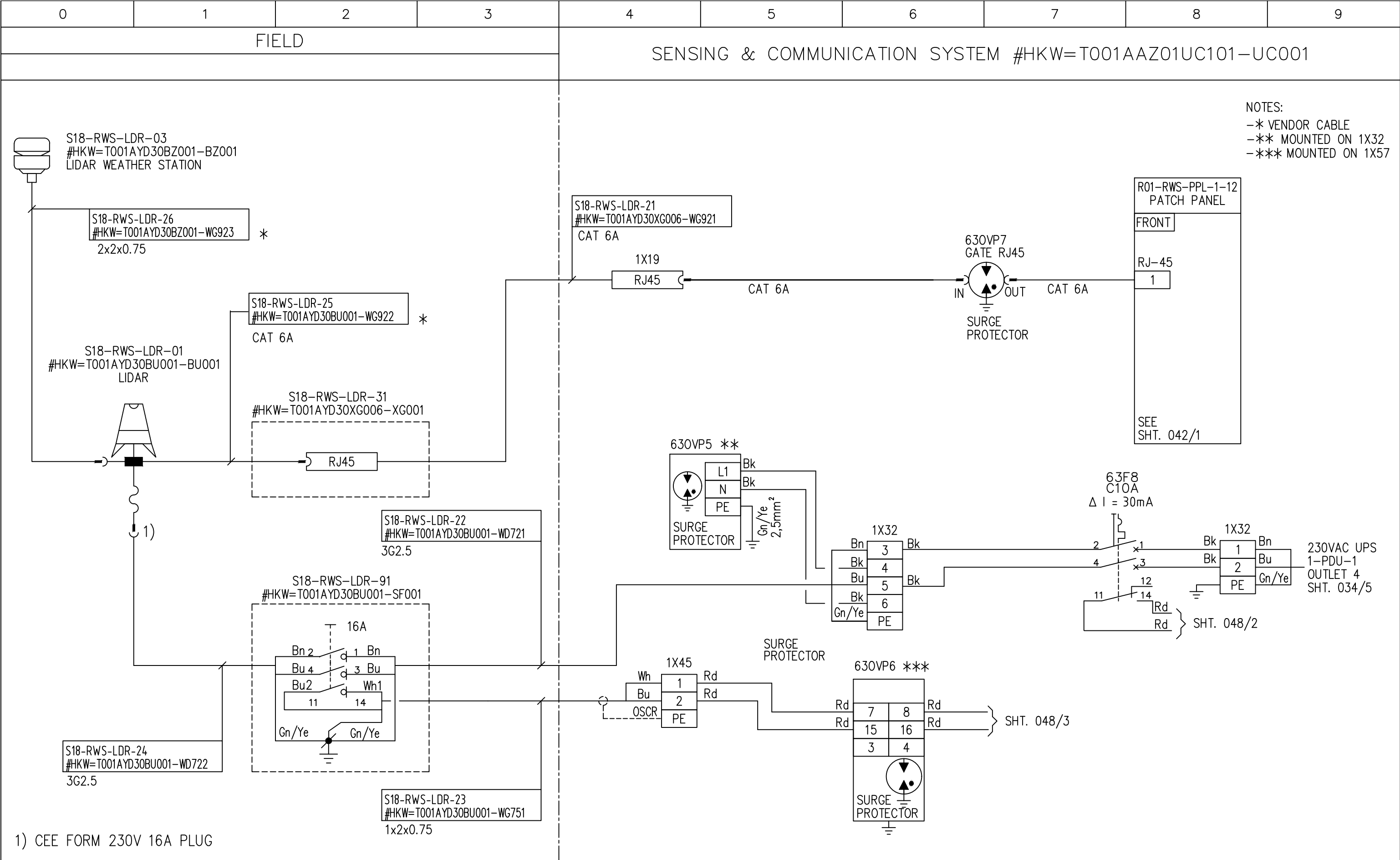


REV	DATE	DESCRIPTION	BY	APPR.	SUBJECT				ITEM DESIGNATION:	
0	01-06-2022	ISSUED FOR COMMENTS	KLM		SCHEMATIC DIAGRAM VISIBILITY SENSOR				SENSING & COMMUNICATION SYSTEM #HKW=T001AAZ01UC101-UC001	
					PROJECT				DWG. NO.	SHEET
					HOLLANDSE KUST WEST ALPHA				HKWA1-TE-DR-069	057
					DESIGNED	KLM	DATE	28-04-2022	CHECKED	DATE
					DRAWN	KLM	DATE	28-04-2022	APPR.	DATE
									FILENAME HKWA1-TE-DR-069-057-0	

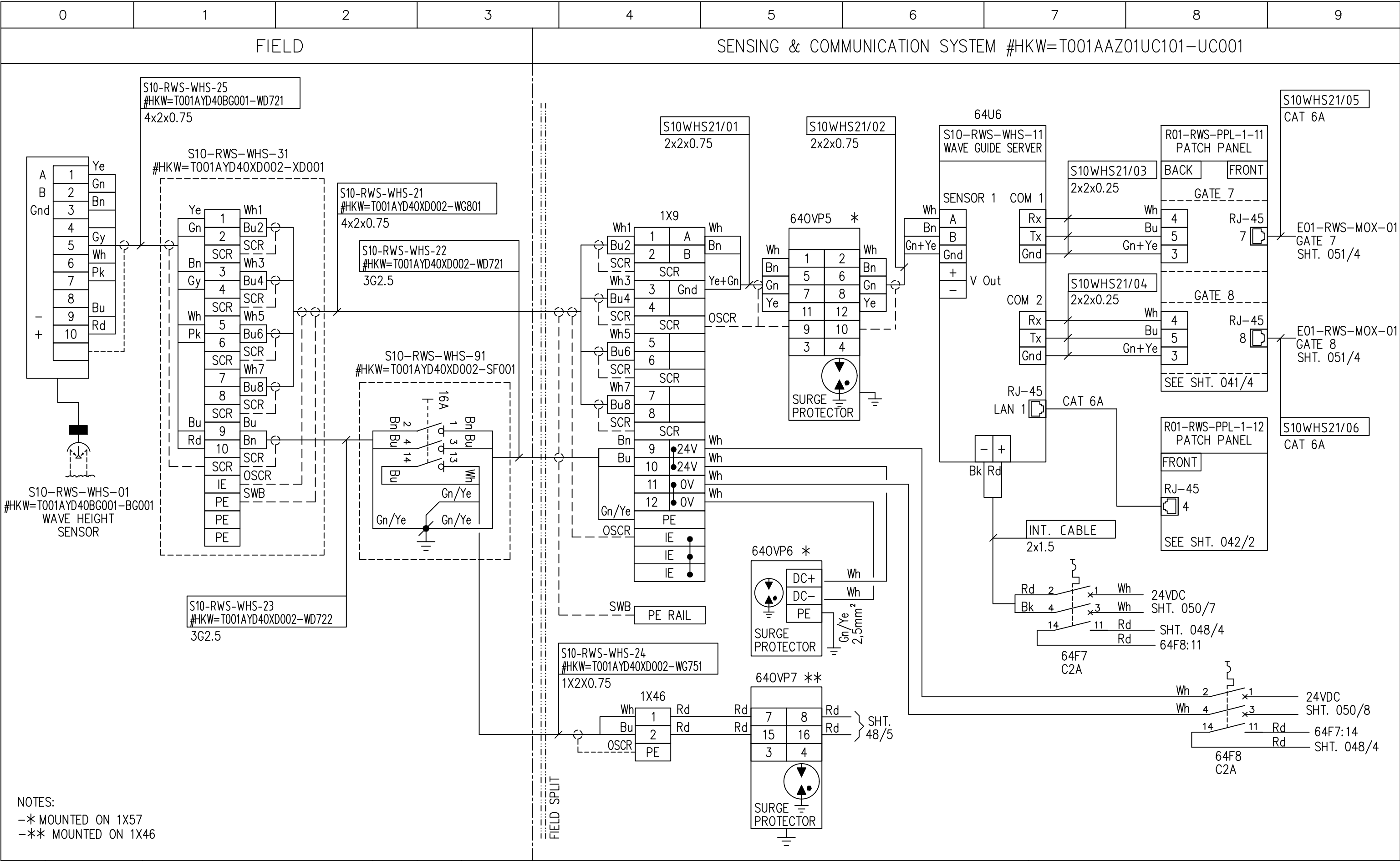


* IN FEMALE CONNECTOR: PIN 11 & 24 ARE CONNECTED
PIN 12 & 25 ARE CONNECTED

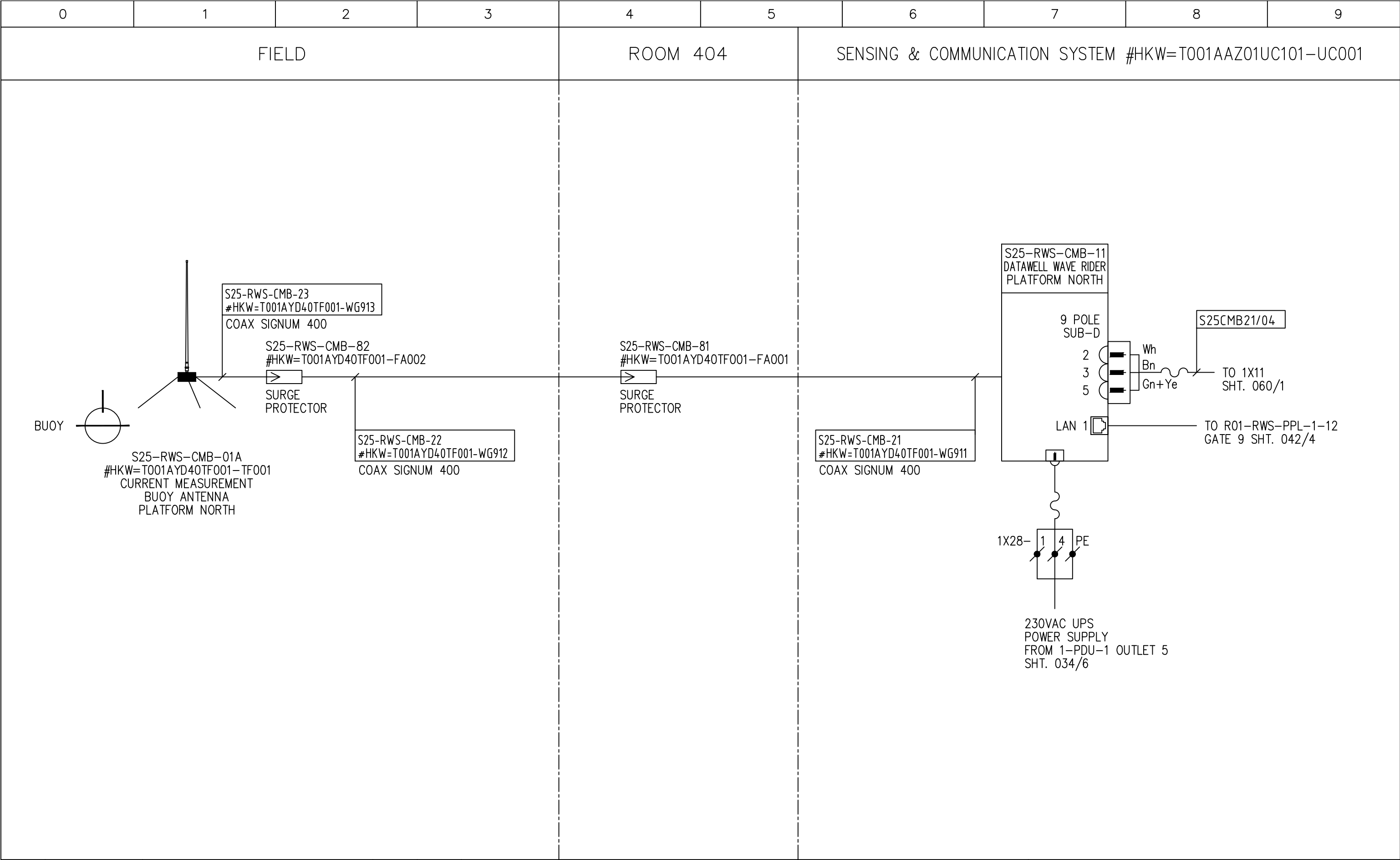
REV	DATE	DESCRIPTION	BY	APPR.	SUBJECT SCHEMATIC DIAGRAM SESAM				ITEM DESIGNATION:	
0	01-06-2022	ISSUED FOR COMMENTS	KLM		SENSING & COMMUNICATION SYSTEM #HKW=T001AAZ01UC101-UC001					
					PROJECT HOLLANDSE KUST WEST ALPHA				DWG. NO.	SHEET
					DESIGNED	KLM	DATE	03-05-2022	CHECKED	DATE
					DRAWN	KLM	DATE	03-05-2022	APPR.	DATE
									HKWA1-TE-DR-069	
									060	
									FILENAME HKWA1-TE-DR-069-060-0	



REV	DATE	DESCRIPTION	BY	APPR.	SCHEMATIC DIAGRAM LIDAR				ITEM DESIGNATION:	
0	01-06-2022	ISSUED FOR COMMENTS	KLM		SENSING & COMMUNICATION SYSTEM #HKW=T001AAZ01UC101-UC001					
					PROJECT HOLLANDSE KUST WEST ALPHA				DWG. NO.	SHEET
					DESIGNED	KLM	DATE	28-04-2022	CHECKED	DATE
					DRAWN	KLM	DATE	28-04-2022	APPR.	DATE
									FILENAME HKWA1-TE-DR-069-063-0	

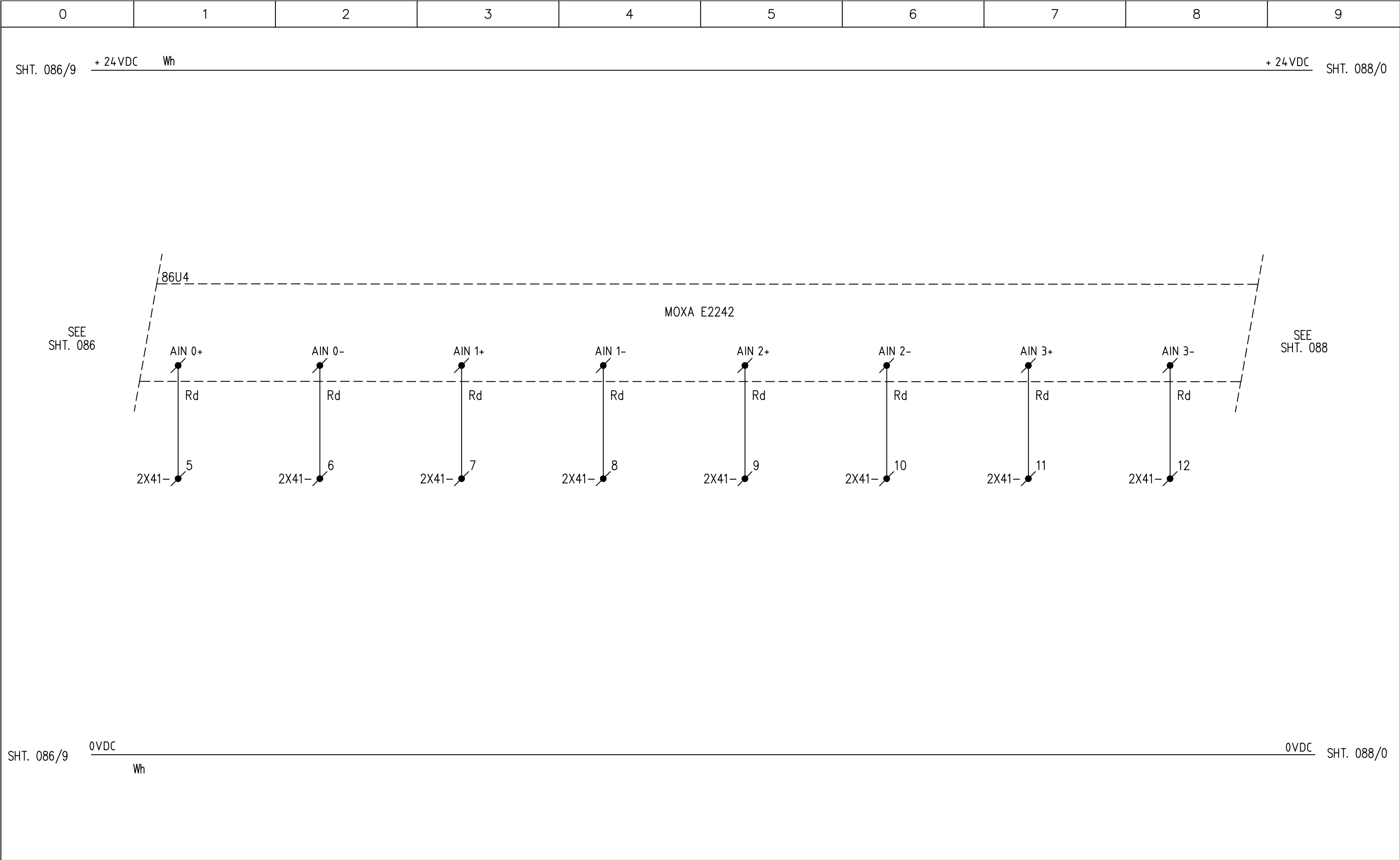


REV	DATE	DESCRIPTION	BY	APPR.	SUBJECT SCHEMATIC DIAGRAM WAVE HEIGHT SENSOR				ITEM DESIGNATION:	
0	01-06-2022	ISSUED FOR COMMENTS	KLM		SENSING & COMMUNICATION SYSTEM #HKW=T001AAZ01UC101-UC001					
					PROJECT HOLLANDSE KUST WEST ALPHA				DWG. NO.	SHEET
					DESIGNED	KLM	DATE	28-04-2022	CHECKED	DATE
					DRAWN	KLM	DATE	28-04-2022	APPR.	DATE
									FILENAME HKWA1-TE-DR-069-064-0	



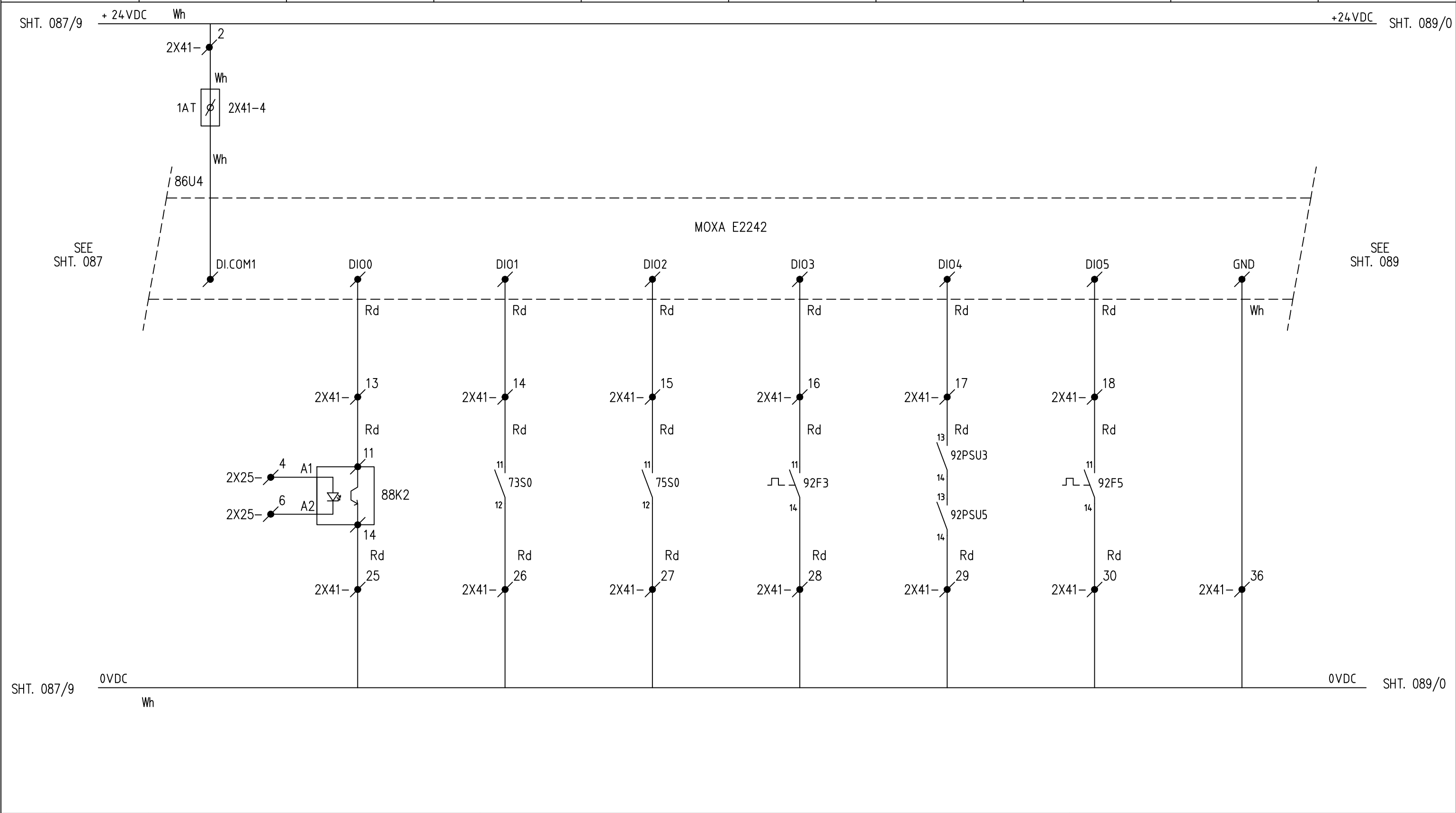
REV	DATE	DESCRIPTION	BY	APPR.	SUBJECT SCHEMATIC DIAGRAM WAVE RIDER PLATFORM NORTH				ITEM DESIGNATION:	
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					PROJECT HOLLANDSE KUST WEST ALPHA				DWG. NO.	SHEET
					DESIGNED	KLM	DATE	03-05-2022	CHECKED	DATE
					DRAWN	KLM	DATE	03-05-2022	APPR.	DATE
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Appendix 4.4 - Voorbeeld Connection Diagrams



REV	DATE	DESCRIPTION	BY	APPR.	SUBJECT CONNECTION DIAGRAM PLC CONTROL				ITEM DESIGNATION:	
0	01-06-2022	ISSUED FOR COMMENTS	KLM		SENSING & COMMUNICATION SYSTEM #HKW=T001AAZ01UC102-UC001					
					PROJECT HOLLANDSE KUST WEST ALPHA				DWG. NO.	SHEET
					DESIGNED	KLM	DATE	04-05-2022	CHECKED	DATE
					DRAWN	KLM	DATE	04-05-2022	APPR.	DATE
									HKWA1-TE-DR-069	
									087	
									FILENAME HKWA1-TE-DR-069-087-0	

0	1	2	3	4	5	6	7	8	9
.	.	CABINET FAN	MAIN SWITCH	MAIN SWITCH	CAMERAS	CAMERAS	CAMERAS	.	.
.	.	UPS SUPPLY	UPS SUPPLY 1	UPS SUPPLY 2	POE POWER SUPPLY	POE POWER SUPPLY	POE POWER SUPPLY	.	.



REV	DATE	DESCRIPTION	BY	APPR.	SUBJECT CONNECTION DIAGRAM PLC CONTROL				ITEM DESIGNATION:	
0	01-06-2022	ISSUED FOR COMMENTS	KLM		SENSING & COMMUNICATION SYSTEM #HKW=T001AAZ01UC102-UC001					
					PROJECT HOLLANDSE KUST WEST ALPHA				DWG. NO.	SHEET
					DESIGNED KLM	DATE 04-05-2022	CHECKED	DATE	HKWA1-TE-DR-069	
					DRAWN KLM	DATE 04-05-2022	APPR.	DATE	FILENAME HKWA1-TE-DR-069-088-0	

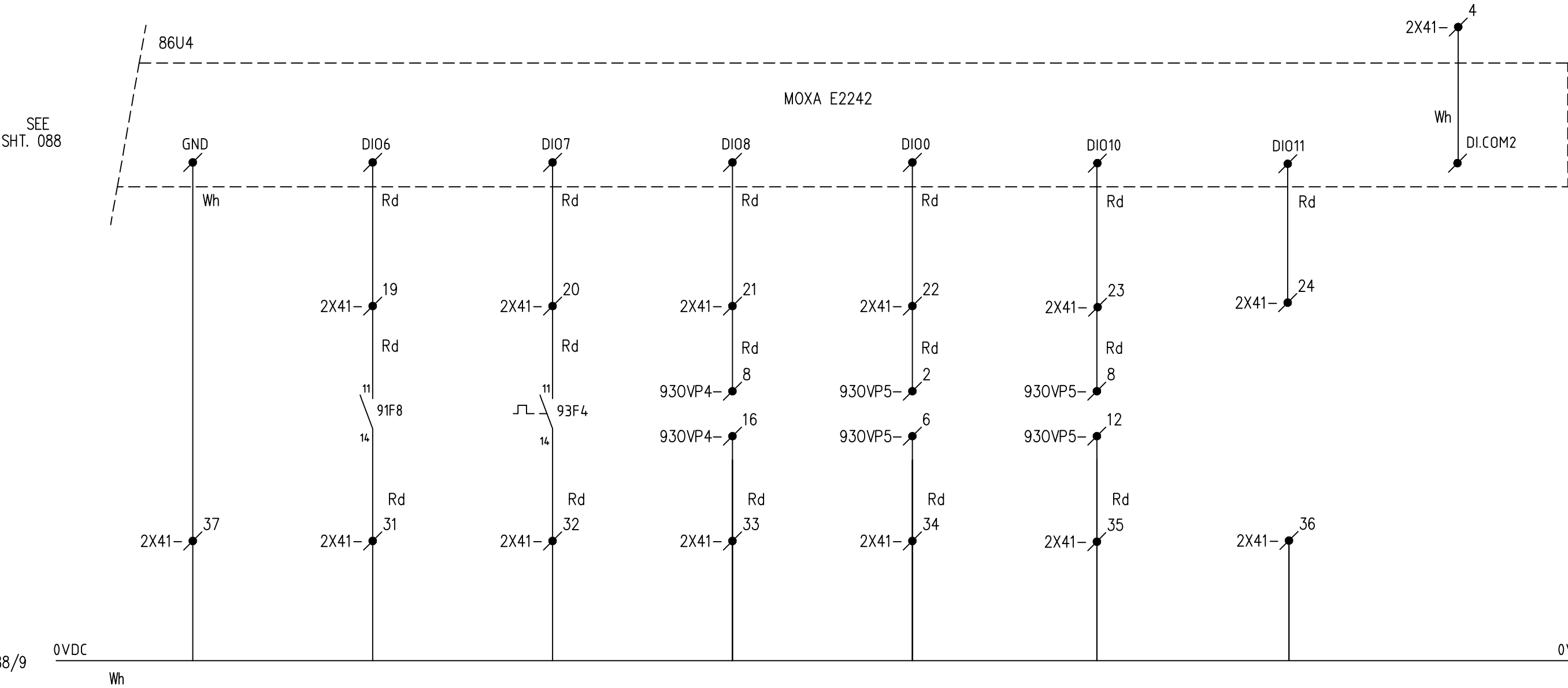
0	1	2	3	4	5	6	7	8	9
.	.	LORA	STANDARD CAMERA	STANDARD CAMERA	STANDARD CAMERA	STANDARD CAMERA	.	.	.
.	.	POWER SUPPLY	POWER SUPPLY	SAFETY SWITCH	WATER POWER	POWER SUPPLY	.	.	.

SHT. 088/9

+ 24VDC

Wh

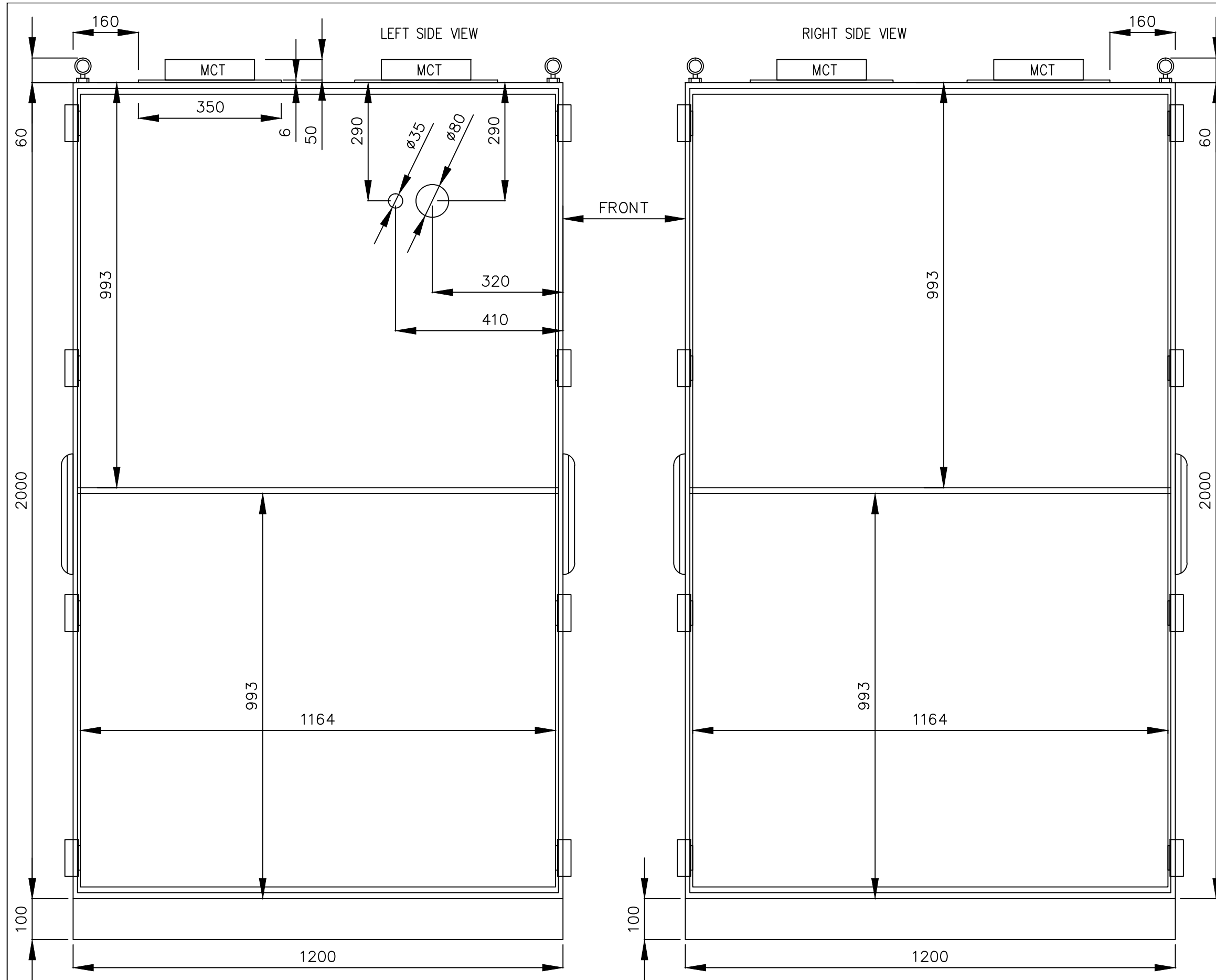
+24VDC



REV	DATE	DESCRIPTION	BY	APPR.	SUBJECT CONNECTION DIAGRAM PLC CONTROL				ITEM DESIGNATION:	
0	01-06-2022	ISSUED FOR COMMENTS	KLM		SENSING & COMMUNICATION SYSTEM #HKW=T001AAZ01UC102-UC001					
					PROJECT HOLLANDSE KUST WEST ALPHA				DWG. NO.	SHEET
					DESIGNED KLM	DATE 04-05-2022	CHECKED	DATE	HKWA1-TE-DR-069	
					DRAWN KLM	DATE 04-05-2022	APPR.	DATE	FILENAME HKWA1-TE-DR-069-089-0	

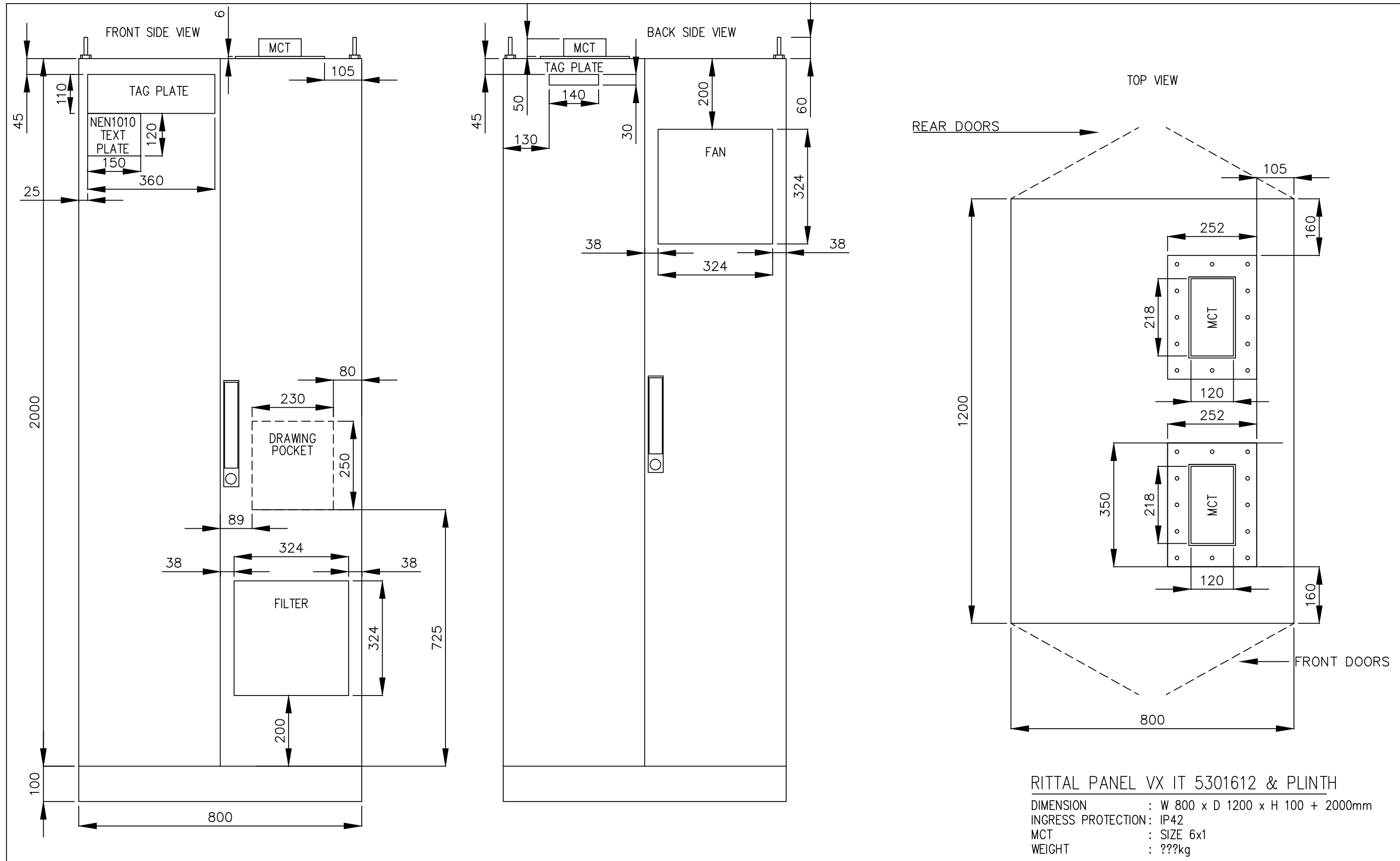
0		1		2		3		4		5		6		7		8		9			
S12WNS21/01		2x2x0.75	520VP5		-		052		Wh	Bn			Gn	Ye			SCR				
INT. WIRING		1x2.5	520VP6		-		052				Wh	Wh			Wh	Wh					
CABLE		CORE SIZE	TO		DWG.		SHT.				520VP5:1	520VP5:5	520VP6:2	520VP6:6	520VP5:7	520VP5:11	520VP6:2	520VP6:6	520VP5:9		
									1X1												
											1	2	SCR	3	4	SCR	5	6	SCR		
												W5+	W5-	0V	+24V	WR+	WR-	0V	+24V		

Appendix 4.5 - Voorbeeld Overview Cabinets



RITTAL PANEL VX IT 5301254 & PLINTH
DIMENSION : W 800 x D 1200 x H 100 + 2000mm
INGRESS PROTECTION: IP42
WEIGHT : ???kg

REV	DATE	DESCRIPTION	BY	APPR.	SUBJECT SIDE VIEW LEFT & RIGHT SIDE OF PANEL				DWG. NO. HKWA1-TE-DR-069		SHEET 326
0	01-06-2022	ISSUED FOR COMMENTS	KLM		SENSING & COMMUNICATION SYSTEM #HKW=T001AAZ01UC101-UC001						
					PROJECT HOLLANDSE KUST WEST ALPHA				FILENAME HKWA1-TE-DR-069-326-0		
					DESIGNED KLM	DATE 10-05-2022	CHECKED	DATE			
					DRAWN KLM	DATE 10-05-2022	APPR.	DATE			



RITTAL PANEL VX IT 5301612 & PLINTH

DIMENSION : W 800 x D 1200 x H 100 + 2000mm
INGRESS PROTECTION: IP42
MCT : SIZE 6x1
WEIGHT : ???kg

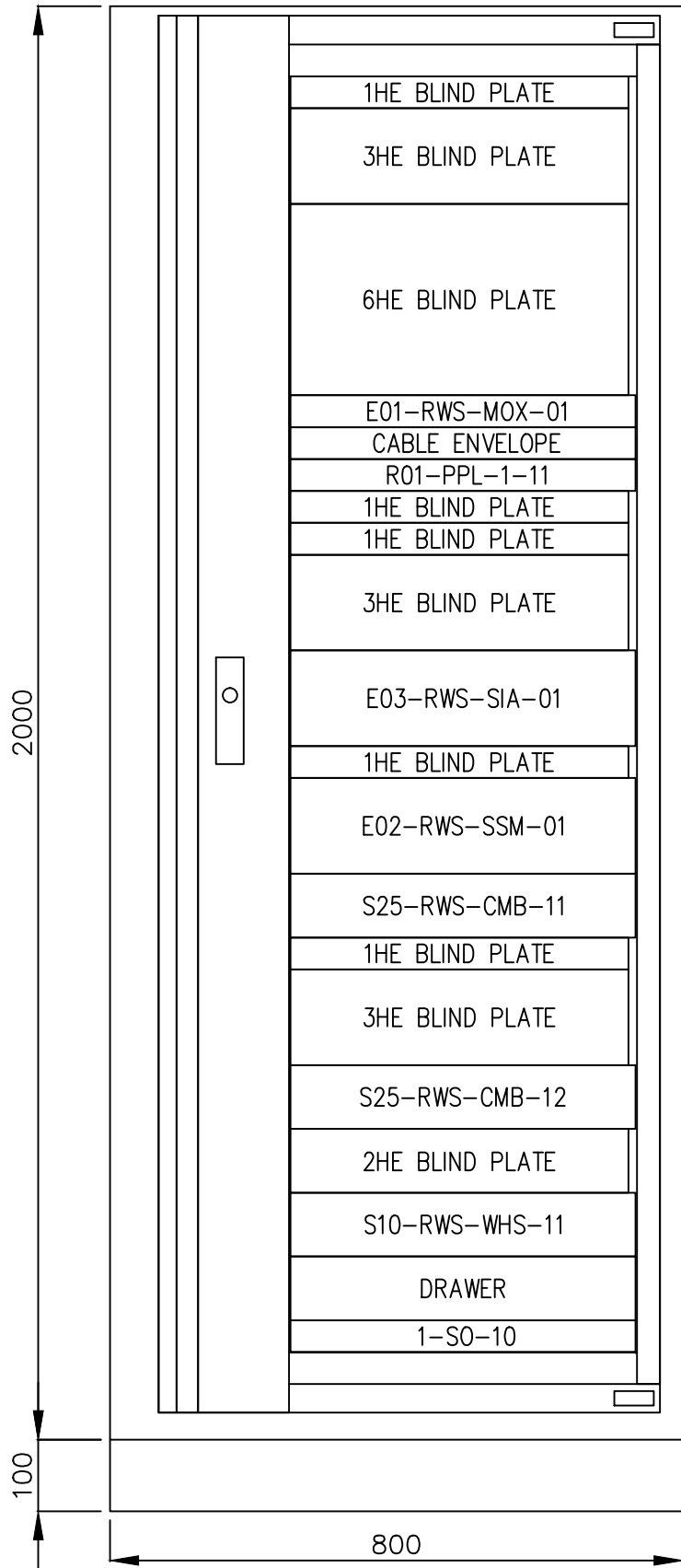
REV	DATE	DESCRIPTION	BY	APPR.	SUBJECT FRONT, REAR & TOP VIEW OF PANEL					
0	01-06-2022	ISSUED FOR COMMENTS	KLM		SENSING & COMMUNICATION SYSTEM #HKW=T001AAZ01UC101-UC001					
					PROJECT HOLLANDSE KUST WEST ALPHA				DWG. NO.	SHEET 327
					DESIGNED KLM	DATE 10-05-2022	CHECKED	DATE	HKWA1-TE-DR-069	
					DRAWN KLM	DATE 10-05-2022	APPR.	DATE		

FRONT INSIDE (SWING FRAME)

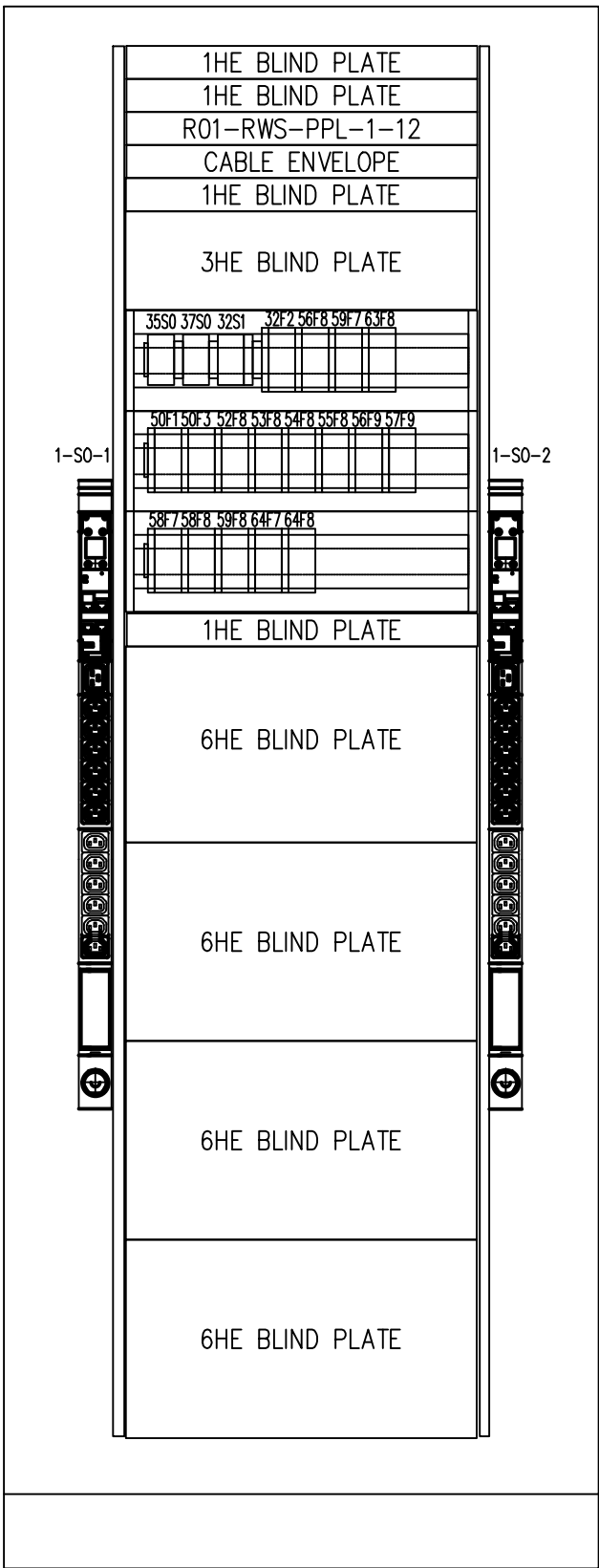
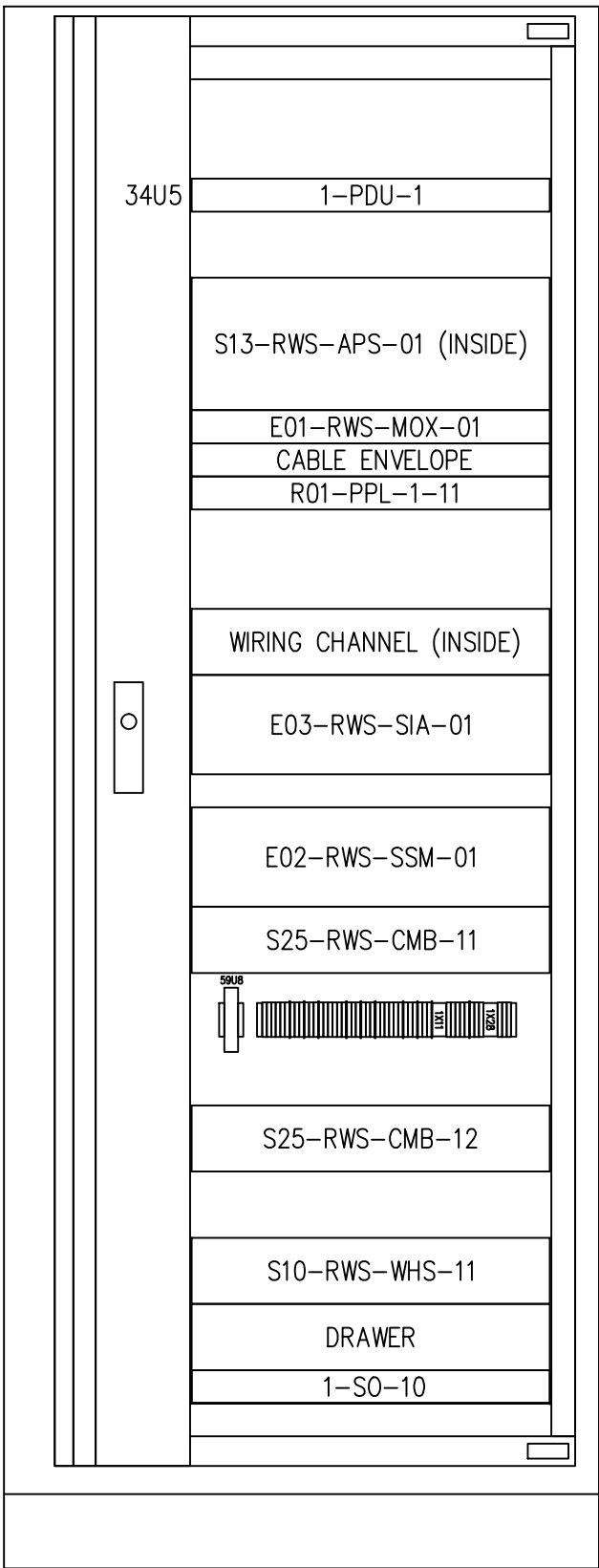
FRONT INSIDE (SWING FRAME WITHOUT BLIND PLATES)

REAR INSIDE (WITH BLIND PLATES)

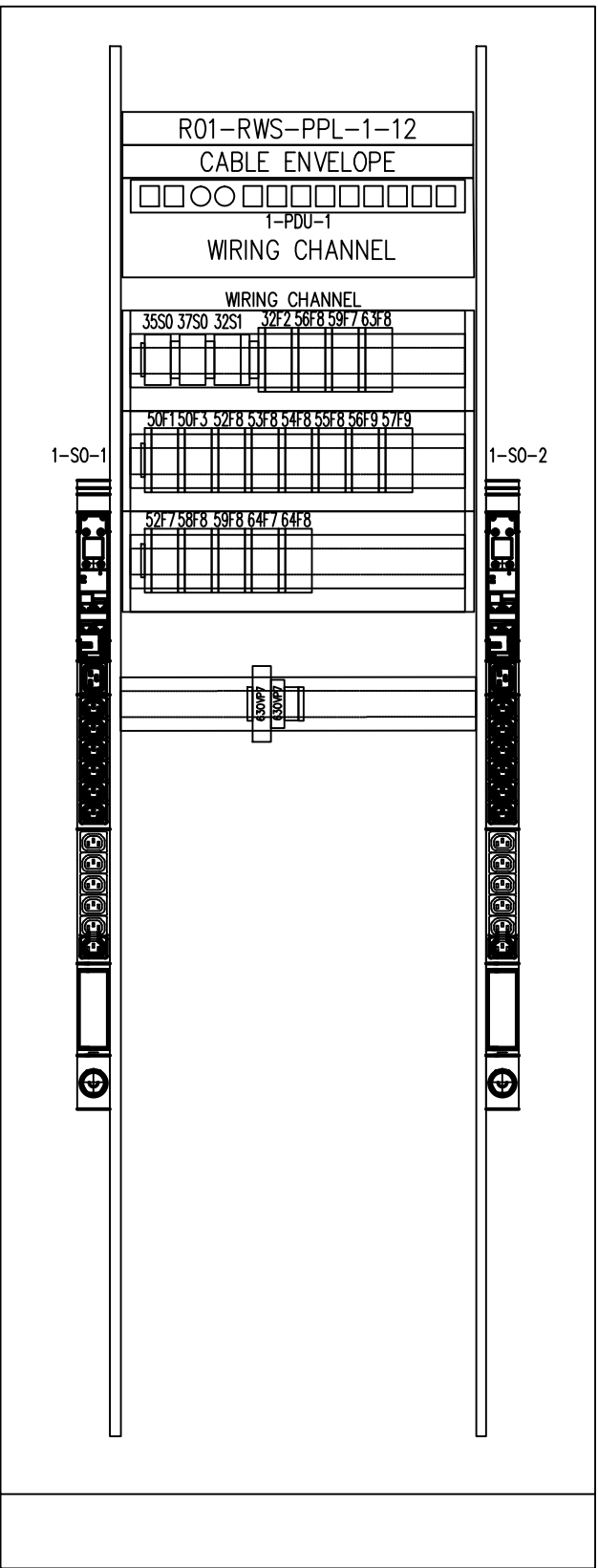
REAR INSIDE (WITHOUT BLIND PLATES)



40
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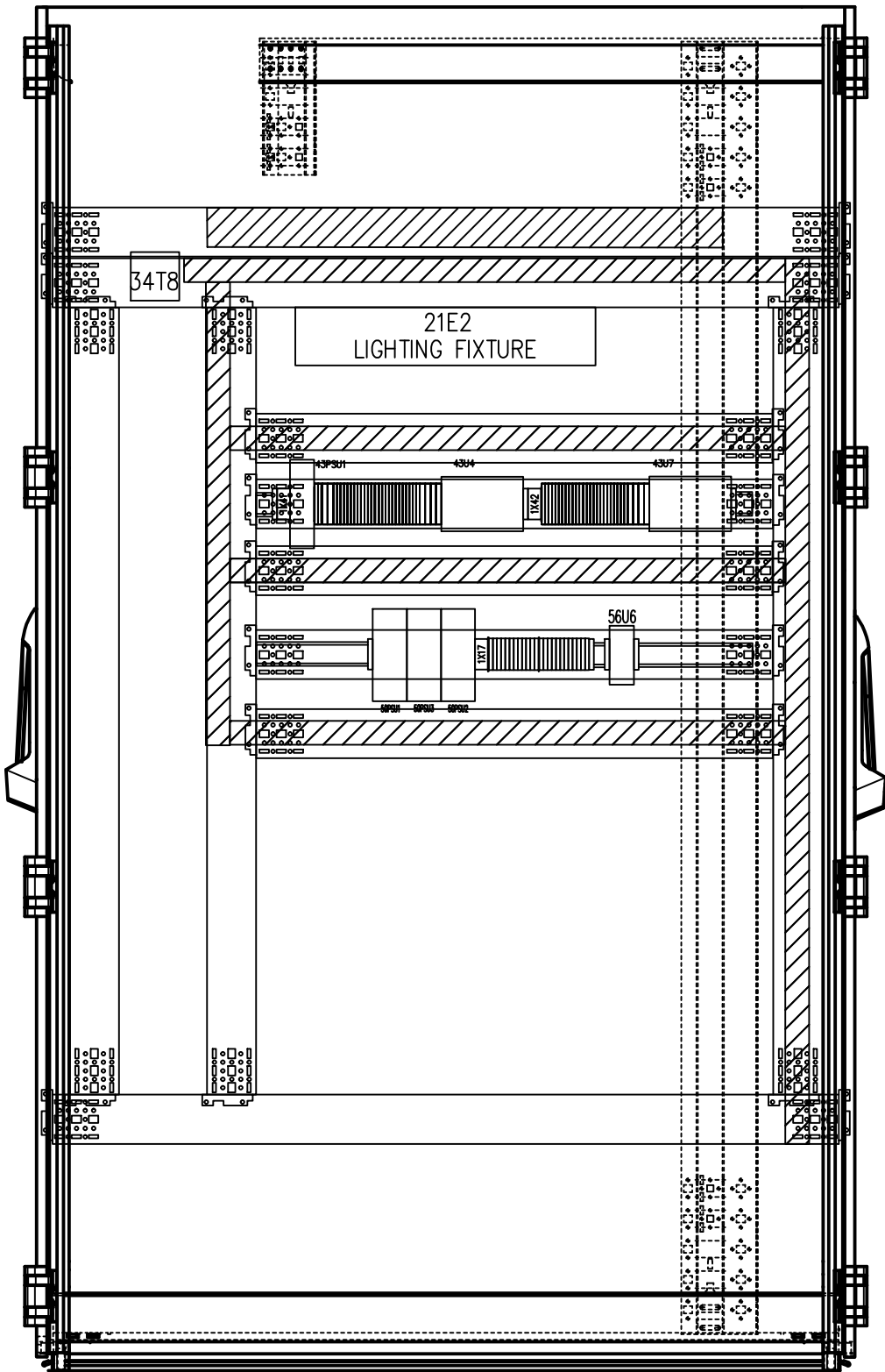


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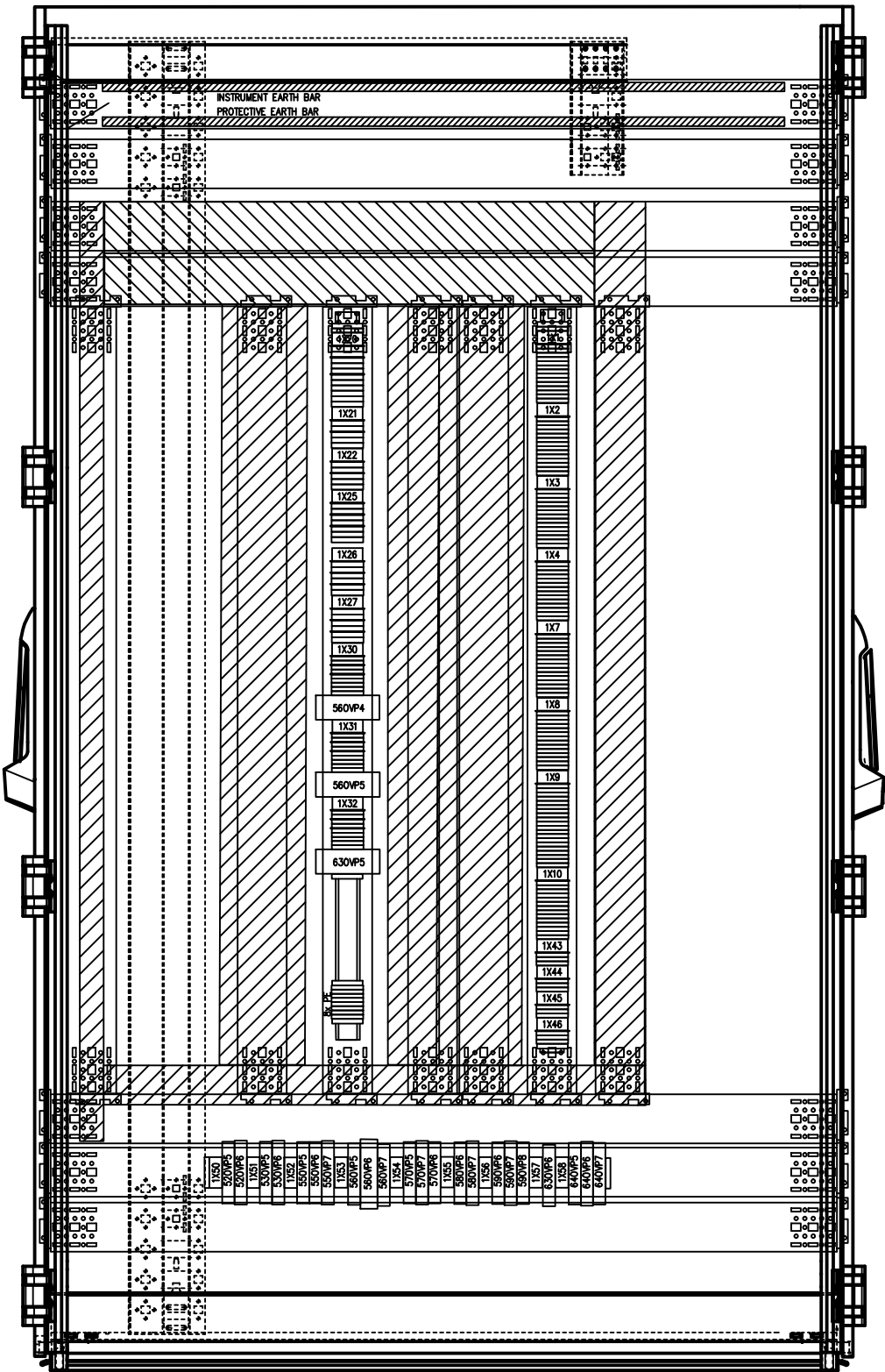


REV	DATE	DESCRIPTION	BY	APPR.	SUBJECT FRONT & REAR VIEW OF PANEL INSIDE				ITEM DESIGNATION:	
0	01-06-2022	ISSUED FOR COMMENTS	KLM		SENSING & COMMUNICATION SYSTEM #HKW=T001AAZ01UC101-UC001					
					PROJECT HOLLANDSE KUST WEST ALPHA				DWG. NO.	SHEET
					DESIGNED	KLM	DATE	10-05-2022	CHECKED	DATE
					DRAWN	KLM	DATE	10-05-2022	APPR.	DATE
									FILENAME HKWA1-TE-DR-069-328-0	

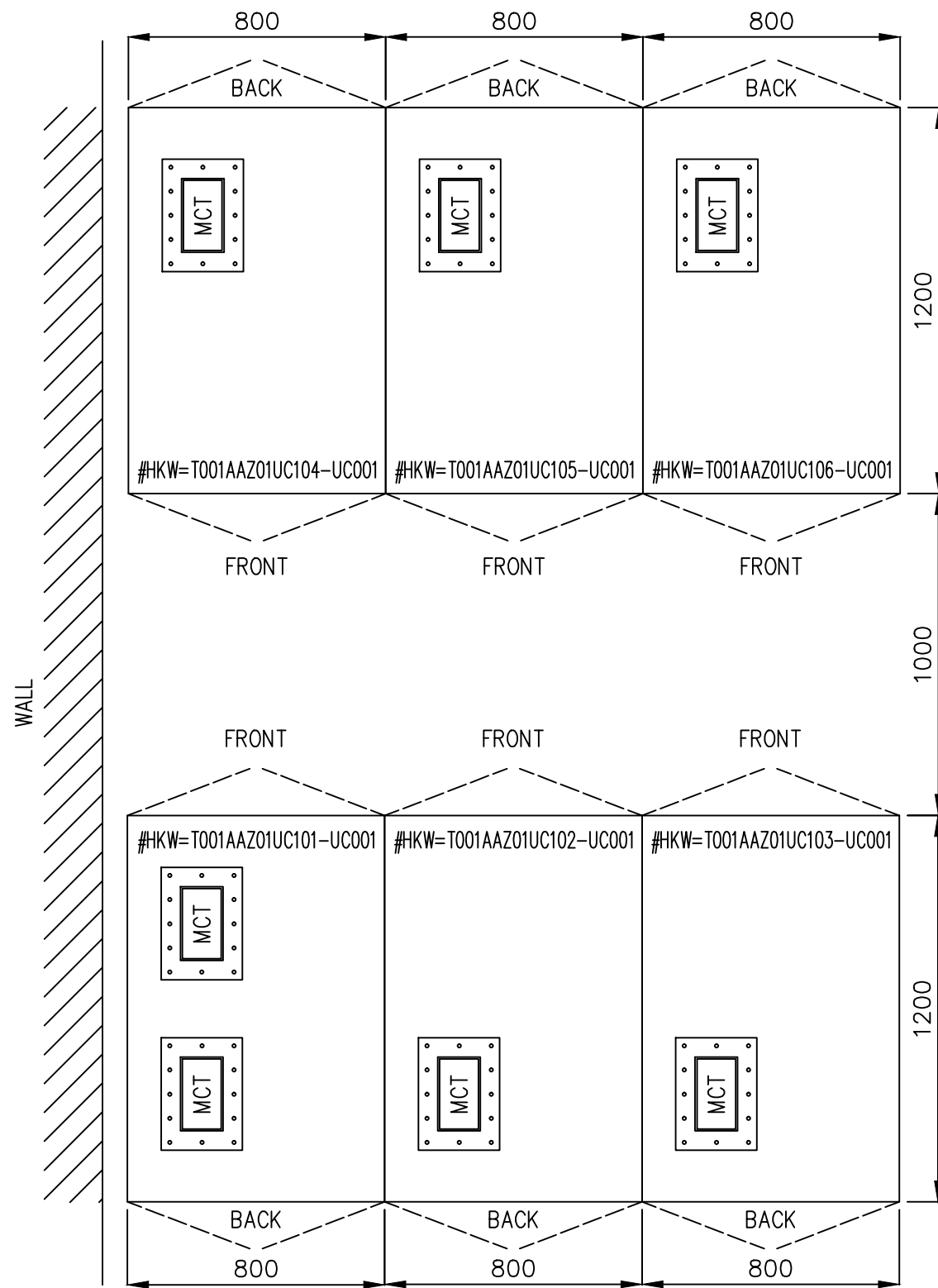
LEFT SIDE VIEW



RIGHT SIDE VIEW

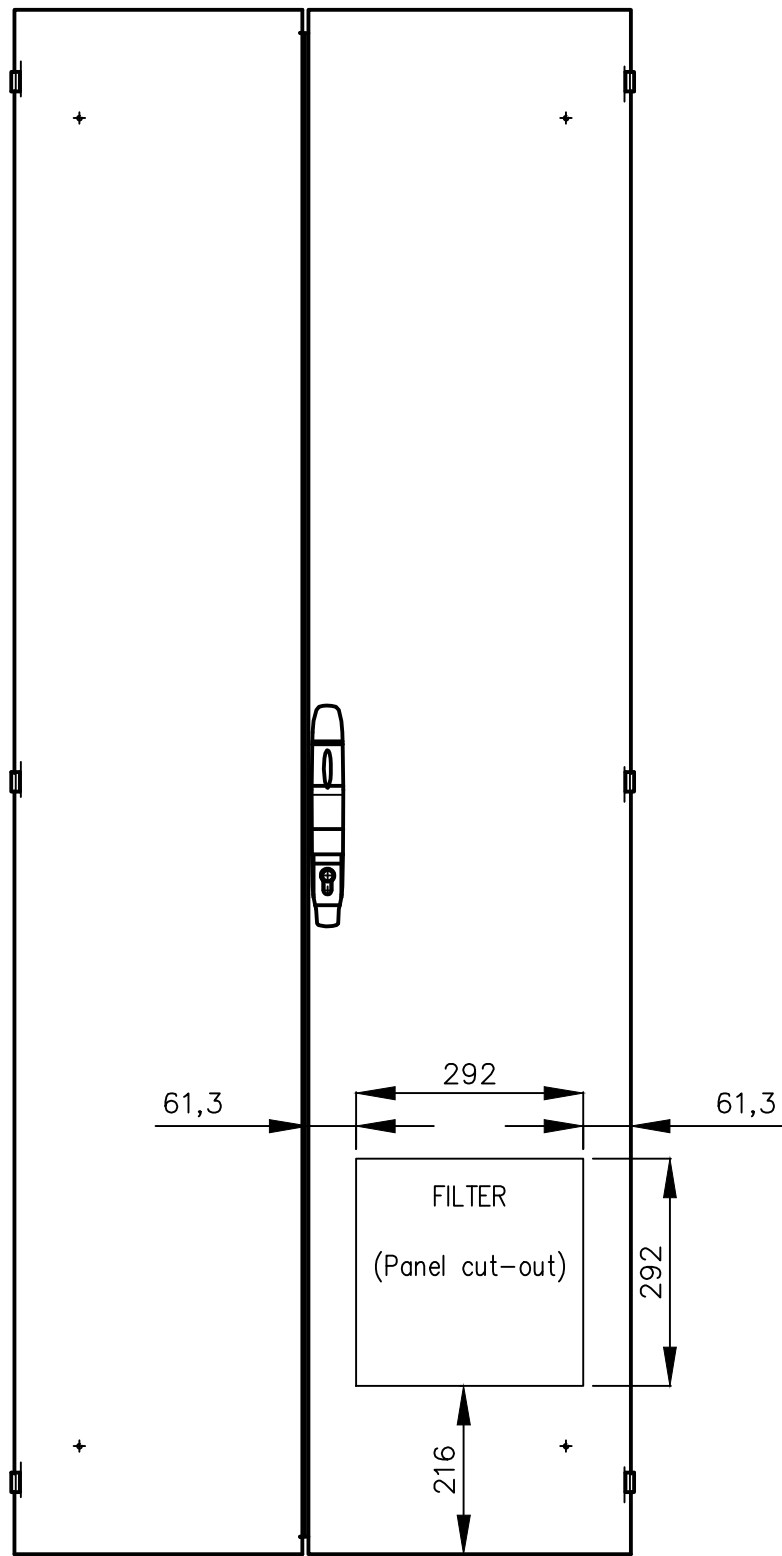


REV	DATE	DESCRIPTION	BY	APPR.	SUBJECT				ITEM DESIGNATION:	
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					DESIGNED	KLM	DATE	10-05-2022	CHECKED	DATE
					DRAWN	KLM	DATE	10-05-2022	APPR.	DATE
									FILENAME HKWA1-TE-DR-069-329-0	



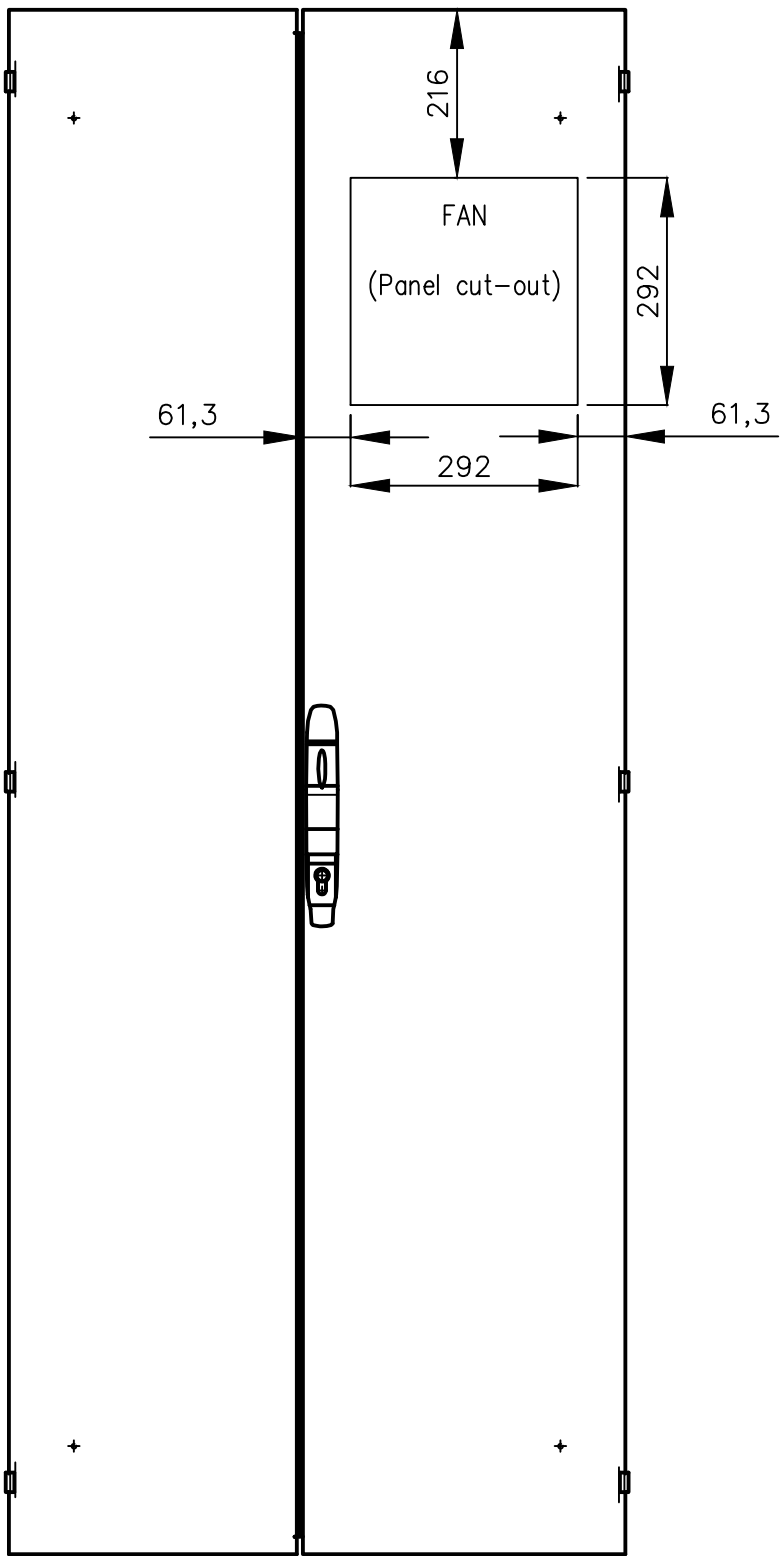
REV	DATE	DESCRIPTION	BY	APPR.	SUBJECT TOP VIEW PANEL LAY-OUT					
0	01-06-2022	ISSUED FOR COMMENTS	KLM		SENSING & COMMUNICATION SYSTEM #HKW=T001AAZ01UC101-UC106-UC001					
					PROJECT HOLLANDSE KUST WEST ALPHA				DWG. NO.	SHEET
					DESIGNED KLM	DATE 10-05-2022	CHECKED	DATE	HKWA1-TE-DR-069	351
					DRAWN KLM	DATE 10-05-2022	APPR.	DATE		
									FILENAME HKWA1-TE-DR-069-351-0	

CABINET FRONT SIDE VIEW



A

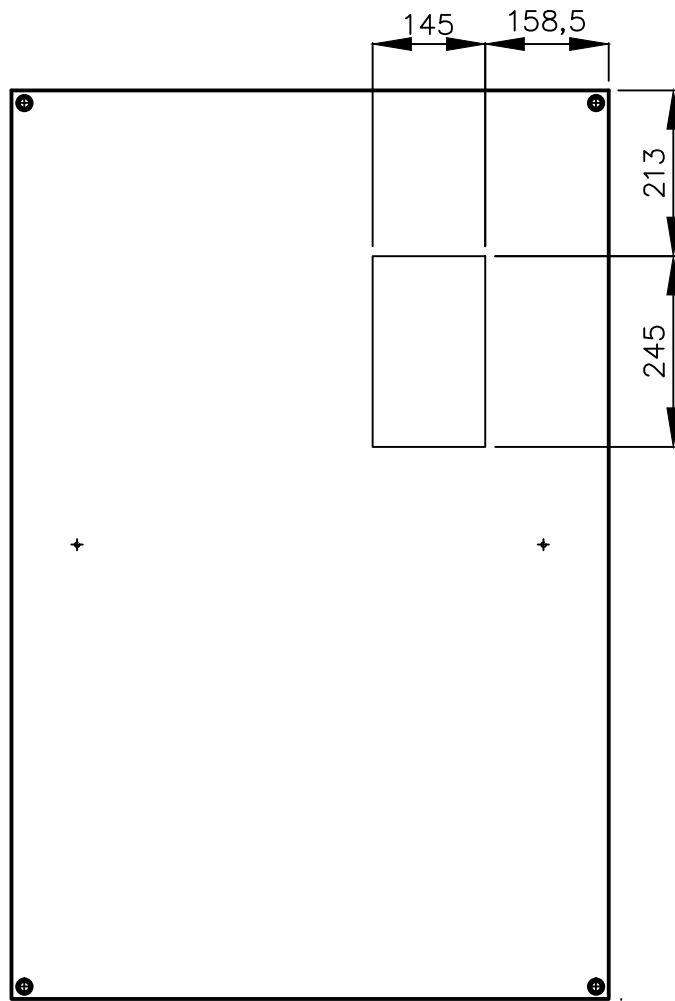
CABINET BACK SIDE VIEW



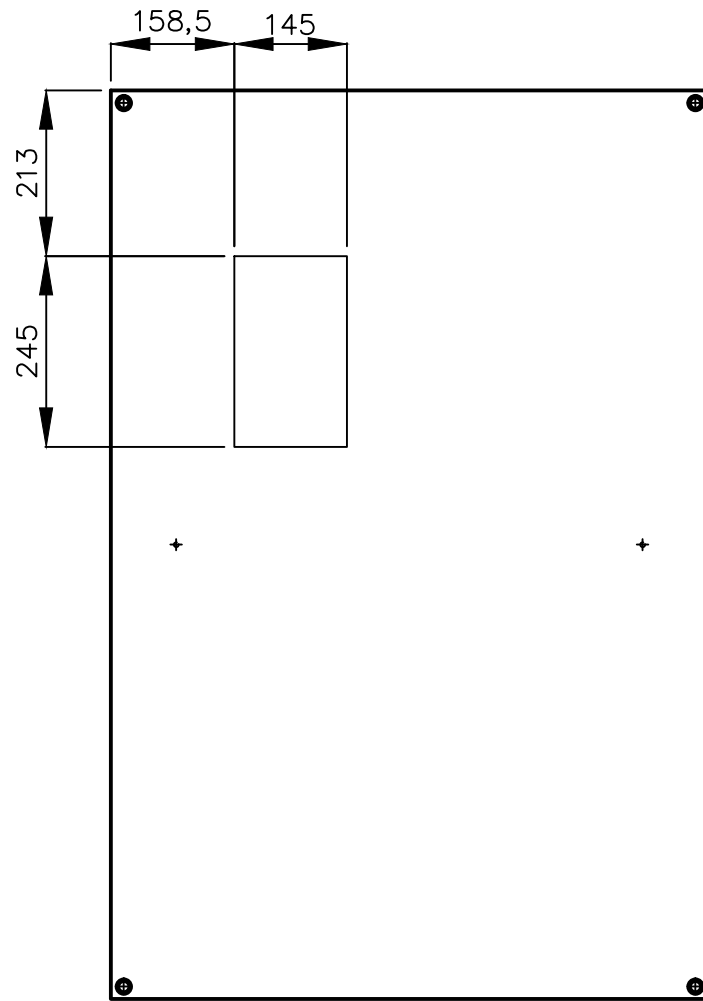
B

RITTAL DOORS VX IT 5301612
DIMENSION : W 800 x H 2000mm

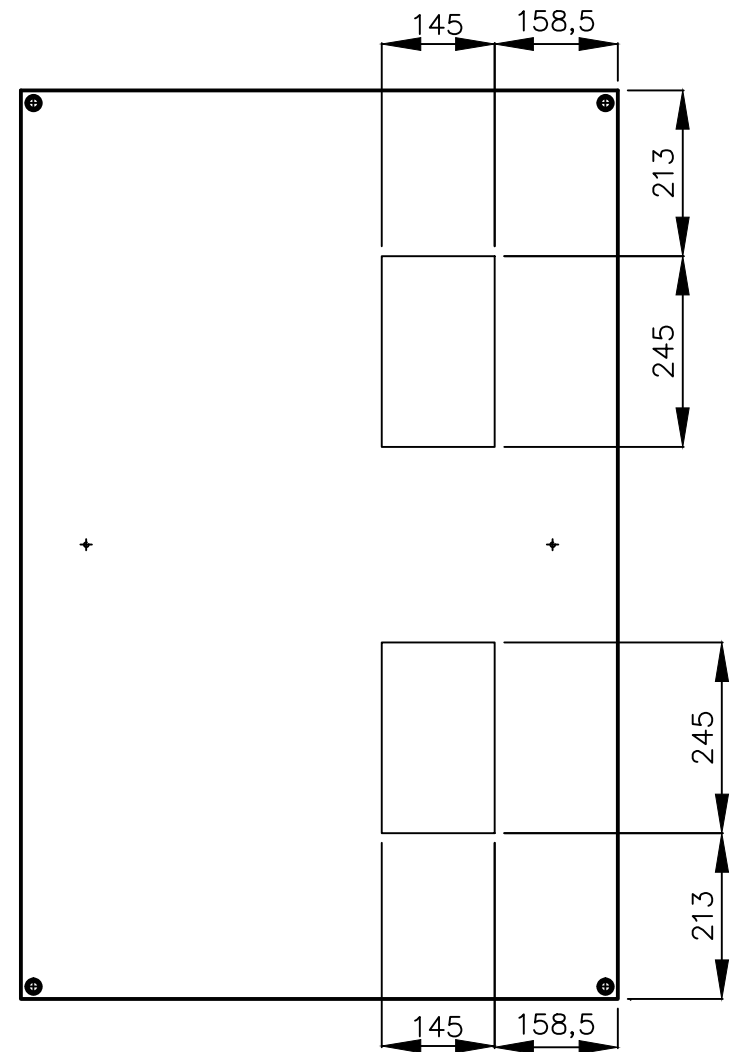
REV	DATE	DESCRIPTION	BY	APPR.	SUBJECT MECHANICAL MACHINING DOORS					
0	01-06-2022	ISSUED FOR MECH. MACHINING	KLM		SENSING & COMMUNICATION SYSTEM #HKW=T001AAZ01UC101-UC106					
					PROJECT HOLLANDSE KUST WEST ALPHA				DWG. NO.	SHEET 434
					DESIGNED KLM	DATE 22-11-2021	CHECKED	DATE	HKWA1-TE-DR-069	
					DRAWN KLM	DATE 22-11-2021	APPR.	DATE		



A



B



C

RITTAL ROOF COVER VX 9681682
 DIMENSION : W 800 x D 1200mm

REV	DATE	DESCRIPTION	BY	APPR.	SUBJECT MECHANICAL MACHINING ROOF COVERS					
0	01-06-2022	ISSUED FOR MECH. MACHINING	KLM		SENSING & COMMUNICATION SYSTEM #HKW=T001AAZ01UC101-UC106					
					PROJECT HOLLANDSE KUST WEST ALPHA				DWG. NO.	SHEET
					DESIGNED KLM	DATE 22-11-2021	CHECKED	DATE	HKWA1-TE-DR-069	435
					DRAWN KLM	DATE 22-11-2021	APPR.	DATE	FILENAME HKWA1-TE-DR-069-435-0	

Appendix 4.6 - Bill of Material vastgesteld voor HKWB

Description	Manufacturer	Type	Ordernumber	Opmerkingen
Frame, colour RAL 7035	Rittal	VX-IT	1196872	
19" Asymetric swingframe 40HE 180 degr. 800B	Rittal	VX-IT	8619023	
Installation accessoires for 19" asymetric swingframe 40HE 180 degr. 800B	Rittal	VX-IT	8619041	
19"coverplate 1HE colour RAL 7035 painted steel and stiffening angle	Rittal	XML	XML003818	
19"coverplate 2HE colour RAL 7035 painted steel and stiffening angle	Rittal	XML	XML003819	
19"coverplate 3HE colour RAL 7035 painted steel and stiffening angle	Rittal	XML	XML003820	
19"coverplate 6HE colour RAL 7035 painted steel and stiffening angle	Rittal	XML	XML003821	
19" cable feed-trough 1HE	Logilink	ORCEB1B	ORCEB1B	
Plinth black	Rittal	VX-IT	8640003 & 8640036	
Door set (2x half door each side). Colour RAL 7035, door lock included	Rittal	VX-IT	5301612	
Side cover, RAL 7035	Rittal	VX-IT	5301254	
Roof cover plates	Rittal	VX-IT	9681682	
Floor frame (2 pcs)	Rittal	VX-IT	1196872	
Floor cover plates (4 pcs)	Rittal	VX-IT	5301347	
Ventilation fan 550m3/h 230Vac	Rittal	SK	3243100	
Filter air inlet fan 550m3/h	Rittal	SK	3243200	
Thermostat	Rittal	SK	3110000	
Panel lighting LED type 1200lm including sensor	Rittal	SZ LED	2500300	
Powercable panel lighting	Rittal	SK	XML2500400	
Drawing pocket DIN A4 RAL 7035	Rittal	SK	2514000	
System chassis 17x73 Bi B/D1200	Rittal	VX-IT	8617160	
System chassis 17x73 Bi B/D800	Rittal	VX-IT	8617140	
Screws for mounting brackets	Rittal		2486300	
19" Fastener 1HE	Rittal	DK	2090000	
Electrogalvanized square caged nut M5	Rittal	DK	2090000	
19" outlets, 240Vac with earth connection 9-fould	Rittal		7030009	
Smart-PDU 1+12 C14 plug connection	Rittal	DK	7979510	
Cabinet drawer 3HE	Rittal	DK	7282135	
Energy-box 19"	Rittal	DK	7480035	
Adapterkit 21"/19" for 3HE rackmount	Rittal	DK	7246010	
Circuit breaker iC60H 2-pole 2A, C-curve	Schneider Electric	iC60	A9F84202	
Circuit breaker iC60H 2-pole 6A, C-curve	Schneider Electric	iC60	A9F89206	
Auxiliary circuit breaker auxiliary contact iOF	Schneider Electric	iC60	A9A26869	
Auxiliary circuit breaker locking device	Schneider Electric	iC60	A9A26970	
Residual current circuit breaker iC60 2-pole 10A, C-curve, 30mA	Schneider Electric	Acti 9 iC60 RCBO 2P	A9D17210	
Residual current circuit breaker auxiliary contact	Schneider Electric	Acti 9 iC60 RCBO	A9A19801	
Residual circuit breaker locking device	Schneider Electric	Acti 9 iC60 RCBO	A9A26970	
Circuit breaker iC60H 4-pole 16A, C-curve	Schneider Electric	iC60	A9F89416	
Protective cover screwed connection	Schneider Electric	Acti 9 Reflex iC60	A9A26981	
24V OVP for two signals	Phoenix Contact	PT 1X2-24DCFM-ST	2920078 + 2920010	
24V OVP for four signals	Phoenix Contact	PT 2X2-24DCFM-ST	2838228 + 2839224	
SHDSL OVP	Phoenix Contact	DT-TELE-SHDSL	2801593	
12V OVP for four floating signals	Phoenix Contact	PT 4-12DC-ST	2839208 + 2839237	
12V OVP for four signals	Phoenix Contact	PT 5-HF-12DC-ST	2838775 + 2839208	
OVP 24V type 3	Phoenix Contact	PLT-SEC-T3-24-FM-UT	2907916	
OVP 24V type 2	Phoenix Contact	VAL-SEC-T2-48DC-P	2907877	
OVP230V type 2	Phoenix Contact	VAL-SEC-T2-1S-350-FM	2905333	
OVP 400V type 1+2	Phoenix Contact	FLT-SEC-T1+T2-3S-350/25-FM	2905470	
OVP RJ45 ethernet	Phoenix Contact	DT-LAN-CAT6.+	2881007	
RJ45 cable connection, DIN rail adapter	Phoenix Contact	NBC-PP-J1PGY-S/R4IDC	1100077	
Primary-switched power supply unit 230Vac input/ 24Vdc 10A output	Phoenix Contact	QUINT4-PS/1AC/24DC/10	2904601	
24Vdc redundant ringmodule	Phoenix Contact	QUINT-ORING/24VDC/2X10/1X20	2320173	
230VAC/12VDC 2,5A	Phoenix Contact	QUINT4-PS/1AC/12DC/2.5/PT	2904605	
230VAC/24VDC 1,3A	Phoenix Contact	QUINT4-PS/1AC/24DC/1.3/SC	2904597	
230VAC/48VDC 5A	Phoenix Contact	QUINT4-PS/1AC/48DC/5	2904610	

48VDC Redundant Ring Module	Phoenix Contact	QUINT4-DIODE/48DC/2X20/1X40	2907720
POE injector 60W RJ45	Phoenix Contact	INJ1010-T	2703008
Optocoupler / solid-state-relais	Phoenix Contact	OPT-60DC/48DC/100	2966621
Relay / Optocoupler Socket	Phoenix Contact	PLC-BSC-230UC/21	2966045
Interface signal converter RS232/RS422	Phoenix Contact	PSM-EG-RS232/RS422-P/4K	
19" F.O. Patch panel 1HE 5-fold. Colour Black		24XLC OS1	
19"routing panel 1HE 5-fold, colour Black			5061332
EMC net for G-frame	Roxtec	EMC net G-frame	
Multi cable transit painted steel (MCT)	Roxtec	GH6X1 frame with flens THVZ	
Roxtec seal gaskit	Roxtec	TSL 15x16	
Power Supply Unit	Raritan	PXTS-519R-N1	
Raritan external smartsensor	Raritan	DX2-T1	
Omega rail 2m lenght galvanized steel with slotted holes	Weidmuller	TS35x7.5	514500000
Terminals	Weidmuller	WTR 2.5	1855610000
Terminals	Weidmuller	WDU 4	1020100000
Terminals	Weidmuller	WDU 6	1020200000
Fuse terminal	Weidmuller	WSI 6	1011000000
PE earth terminal green/yellow	Weidmuller	WPE 6	1010200000
PE earth terminal green/yellow	Weidmuller	WPE 4	1010100000
PE earth terminal green/yellow	Weidmuller	WPE 2.5	1010000000
IE earth terminal yellow/black	Weidmuller	WDU 2.5 GE/SW	2429520000
Jumper strips	Weidmuller	WQV 4/10	1052060000
Jumper strips	Weidmuller	WQV 2.5N/10	1527690000
Terminal numbers 1 to 10	Weidmuller	Dek 5FWZ 1-10	523060001
Terminal numbers 1 to 50	Weidmuller	Dek 5 FS	473560001
Terminal numbers 1 to 10	Weidmuller	Dek 6 FSZ	133360001
Terminal earth symbol	Weidmuller	Dek 6 GW Erde I KR	1318061203
Terminal earth symbol	Weidmuller	Dek 6 GW Erde	1318061202
Tag plate support	Weidmuller	SCHT 5	292460000
End plate	Weidmuller	WAP 2.5-10	1050000000
End plate	Weidmuller	WAP 16 + 35 - WTW 2.5	1050100000
End stop	Weidmuller	WEW 35/2	1061200000
PE earth rail copper M6 screws 1000x20x5	Sneider Electric	LVS04162	LVS04162
IE earth rail copper M6 screws 1000x20x6	Sneider Electric	LVS04195	LVS04195
Galvanized support for PE earth rail (spacer)	Weidmuller		
Isolated support for IE earth rail	Eriflex	Isolator ISO TP	
Main switch 25A 3-pole, Ohmega rail mounting, padlockable knob	ABB	OT25F3	1SCA104857R1001
Auxiliary contact for mains switch 25A 3-pole	ABB	OA3G01AU	1SCA022819R5260
Modular adapter cover for OT25	ABB	OHYS7	1SCA109852R1001
POE injector 90W RJ45	Startech	POEINJ1G90W	230-5590
POE injector RJ45 dual	Westermo	i-line PII-2G	3626-0300
Smart Ethernet remote I/O with click&go Logic	MOXA	ioLogik E2210	
Smart Ethernet remote I/O with click&go Logic	MOXA	ioLogik E2242	
Patch panel cabeling system CAT6A, 24P	AT&T		13S00NV024A
RJ45 female to RJ45 female	Keystone		KKM 353001
3HE Rackmount Din Rail Panel	Iaenclosures	RCB1111BK15	RCB1111BK15
Low smoke, zero halogen Patch cables			
Low smoke, zero halogen installation wires			
Low smoke, zero halogen wire duct			
Ferrules			

Aantal Omschrijving: Kast 1

1	Frame, colour RAL 7035
2	Side cover, RAL 7035
1	Roof cover plates
1	Floor cover plates (4 pcs)
1	Drawing pocket DIN A4 RAL 7035
2	Door set (2x half door each side). Colour RAL 7035, door lock included
1	Plinth black
1	Cabinet drawer 3HE
2	Omega rail 2m lenght galvanized steel with slotted holes
1	19" Asymetric swingframe 40HE 180 degr. 800B
1	Installation accessoires for 19" asymetric swingframe 40HE 180 degr. 800B
2	MCT frame
1	Hijsogen 4 stuks
4	System chassis 17x73 Bi B/D1200 (4PCS)
2	System chassis 17x73 Bi B/D800 (4PCS)
LOT	Screws for mounting brackets
LOT	Low smoke, zero halogen wire duct
LOT	19" Fastener 1HE
2	PE/IE earth rail copper M6 screws 1000x20x5
LOT	M6 screws
LOT	Galvanized support for PE earth rail (spacer)
LOT	Isolated support for IE earth rail
1	Ventilation fan 550m3/h 230Vac
1	Filter air inlet fan 550m3/h
1	Thermostat
1	Energy-box 19"
1	Panel lighting LED type 1200lm including sensor
1	Powercable panel lighting
1	Power Supply Unit (Raritan)
	Raritan external smartsensor
2	Smart-PDU 1+12 C14 plug connection
1	Moxa E2210
1	Patch panel cabeling system CAT6A, 24P
24	RJ45 female to RJ45 female
3	Main switch 25A 3-pole, Ohmega rail mounting, padlockable knob
3	Auxiliary contact for mains switch 25A 3-pole
3	Modular adapter cover for OT25
1	Residual current circuit breaker iC60 2-pole 10A, C-curve, 30mA
1	19" outlets, 240Vac with earth connection 9-fould

Aantal Omschrijving: Kast 2

1	Frame, colour RAL 7035
2	Side cover, RAL 7035
1	Roof cover plates
1	Floor cover plates (4 pcs)
1	Drawing pocket DIN A4 RAL 7035
2	Door set (2x half door each side). Colour RAL 7035, door lock included
1	Plinth black
1	Òmega rail 2m lenght galvanized steel with slotted holes
2	MCT frame
1	Hijsogen 4 stuks
4	System chassis 17x73 Bi B/D1200 (4PCS)
2	System chassis 17x73 Bi B/D800 (4PCS)
LOT	Screws for mounting brackets
LOT	Low smoke, zero halogen wire duct
LOT	19" Fastener 1HE
2	PE/IE earth rail copper M6 screws 1000x20x5
LOT	M6 screws
LOT	Galvanized support for PE earth rail (spacer)
LOT	Isolated support for IE earth rail
1	Ventilation fan 550m3/h 230Vac
1	Filter air inlet fan 550m3/h
1	Thermostat
1	Energy-box 19"
1	Panel lighting LED type 1200lm including sensor
	Powercable panel lighting
1	Power Supply Unit (Raritan)
1	Raritan external smartsensor
2	Smart-PDU 1+12 C14 plug connection
1	Moxa E2242
3	Patch panel cabeling system CAT6A, 24P
72	RJ45 female to RJ45 female
2	Main switch 25A 3-pole, Ohmega rail mounting, padlockable knob
2	Auxiliary contact for mains switch 25A 3-pole
2	Modular adapter cover for OT25
1	19" outlets, 240Vac with earth connection 9-fould

Omschrijving: Kast 3

- 1 Frame, colour RAL 7035
- 2 Side cover, RAL 7035
- 1 Roof cover plates
- 1 Floor cover plates (4 pcs)
- 1 Drawing pocket DIN A4 RAL 7035
- 2 Door set (2x half door each side). Colour RAL 7035, door lock included
- 1 Plinth black
- 1 Òmega rail 2m lenght galvanized steel with slotted holes
- 1 MCT frame
- 1 Hijsogen 4 stuks
- 4 System chassis 17x73 Bi B/D1200 (4PCS)
- 2 System chassis 17x73 Bi B/D800 (4PCS)
- LOT Screws for mounting brackets
- LOT Low smoke, zero halogen wire duct
- LOT 19" Fastener 1HE
- 2 PE/IE earth rail copper M6 screws 1000x20x5
- LOT M6 screws
- LOT Galvanized support for PE earth rail (spacer)
- LOT Isolated support for IE earth rail
- 1 Ventilation fan 550m3/h 230Vac
- 1 Filter air inlet fan 550m3/h
- 1 Thermostat
- 1 Energy-box 19"
- 1 Panel lighting LED type 1200lm including sensor
- 1 Powercable panel lighting
- 1 Power Supply Unit (Raritan)
- 1 Raritan external smartsensor
- 2 Smart-PDU 1+12 C14 plug connection
- 1 Moxa E2210
- 1 Patch panel cabeling system CAT6A, 24P
- 24 RJ45 female to RJ45 female
- 2 Main switch 25A 3-pole, Ohmega rail mounting, padlockable knob
- 2 Auxilary contact for mains switch 25A 3-pole
- 2 Modular adapter cover for OT25
- 1 19" outlets, 240Vac with earth connection 9-fould

Omschrijving: Kast 4

1	Frame, colour RAL 7035
2	Side cover, RAL 7035
1	Roof cover plates
1	Floor cover plates (4 pcs)
1	Drawing pocket DIN A4 RAL 7035
2	Door set (2x half door each side). Colour RAL 7035, door lock included
1	Plinth black
1	Òmega rail 2m lenght galvanized steel with slotted holes
1	MCT frame
1	Hijsogen 4 stuks
4	System chassis 17x73 Bi B/D1200 (4PCS)
2	System chassis 17x73 Bi B/D800 (4PCS)
LOT	Screws for mounting brackets
LOT	Low smoke, zero halogen wire duct
LOT	19" Fastener 1HE
2	PE/IE earth rail copper M6 screws 1000x20x5
LOT	M6 screws
LOT	Galvanized support for PE earth rail (spacer)
LOT	Isolated support for IE earth rail
1	Ventilation fan 550m3/h 230Vac
1	Filter air inlet fan 550m3/h
1	Thermostat
1	Energy-box 19"
1	Panel lighting LED type 1200lm including sensor
1	Powercable panel lighting
1	Power Supply Unit (Raritan)
1	Raritan external smartsensor
2	Smart-PDU 1+12 C14 plug connection
1	Moxa E2210
1	Patch panel cabeling system CAT6A, 24P
24	RJ45 female to RJ45 female
3	Main switch 25A 3-pole, Ohmega rail mounting, padlockable knob
3	Auxiliary contact for mains switch 25A 3-pole
3	Modular adapter cover for OT25
1	Residual current circuit breaker iC60 2-pole 10A, C-curve, 30mA
1	19" outlets, 240Vac with earth connection 9-fould

Omschrijving: Kast 5

1	Frame, colour RAL 7035
2	Side cover, RAL 7035
1	Roof cover plates
1	Floor cover plates (4 pcs)
1	Drawing pocket DIN A4 RAL 7035
2	Door set (2x half door each side). Colour RAL 7035, door lock included
1	Plinth black
1	Òmega rail 2m lenght galvanized steel with slotted holes
2	MCT frame
1	Hijsogen 4 stuks
4	System chassis 17x73 Bi B/D1200 (4PCS)
2	System chassis 17x73 Bi B/D800 (4PCS)
LOT	Screws for mounting brackets
LOT	Low smoke, zero halogen wire duct
LOT	19" Fastener 1HE
2	PE/IE earth rail copper M6 screws 1000x20x5
LOT	M6 screws
LOT	Galvanized support for PE earth rail (spacer)
LOT	Isolated support for IE earth rail
1	Ventilation fan 550m3/h 230Vac
1	Filter air inlet fan 550m3/h
1	Thermostat
1	Energy-box 19"
1	Panel lighting LED type 1200lm including sensor
1	Powercable panel lighting
1	Power Supply Unit (Raritan)
1	Raritan external smartsensor
2	Smart-PDU 1+12 C14 plug connection
1	Moxa E2242
3	Patch panel cabeling system CAT6A, 24P
72	RJ45 female to RJ45 female
2	Main switch 25A 3-pole, Ohmega rail mounting, padlockable knob
2	Auxiliary contact for mains switch 25A 3-pole
2	Modular adapter cover for OT25
1	19" outlets, 240Vac with earth connection 9-fould

Omschrijving: Kast 6

1	Frame, colour RAL 7035
2	Side cover, RAL 7035
1	Roof cover plates
1	Floor cover plates (4 pcs)
1	Drawing pocket DIN A4 RAL 7035
2	Door set (2x half door each side). Colour RAL 7035, door lock included
1	Plinth black
1	Òmega rail 2m lenght galvanized steel with slotted holes
1	MCT frame
1	Hijsogen 4 stuks
4	System chassis 17x73 Bi B/D1200 (4PCS)
2	System chassis 17x73 Bi B/D800 (4PCS)
LOT	Screws for mounting brackets
LOT	Low smoke, zero halogen wire duct
LOT	19" Fastener 1HE
2	PE/IE earth rail copper M6 screws 1000x20x5
LOT	M6 screws
LOT	Galvanized support for PE earth rail (spacer)
LOT	Isolated support for IE earth rail
1	Ventilation fan 550m3/h 230Vac
1	Filter air inlet fan 550m3/h
1	Thermostat
1	Energy-box 19"
1	Panel lighting LED type 1200lm including sensor
1	Powercable panel lighting
1	Power Supply Unit (Raritan)
1	Raritan external smartsensor
2	Smart-PDU 1+12 C14 plug connection
1	Moxa E2210
1	Patch panel cabeling system CAT6A, 24P
24	RJ45 female to RJ45 female
2	Main switch 25A 3-pole, Ohmega rail mounting, padlockable knob
2	Auxiliary contact for mains switch 25A 3-pole
2	Modular adapter cover for OT25
1	19" outlets, 240Vac with earth connection 9-fould

Omschrijving: Kast 7

1	Frame, colour RAL 7035
2	Side cover, RAL 7035
1	Roof cover plates
1	Floor cover plates (4 pcs)
1	Drawing pocket DIN A4 RAL 7035
2	Door set (2x half door each side). Colour RAL 7035, door lock included
1	Plinth black
1	Òmega rail 2m lenght galvanized steel with slotted holes
1	MCT frame
1	Hijsogen 4 stuks
4	System chassis 17x73 Bi B/D1200 (4PCS)
2	System chassis 17x73 Bi B/D800 (4PCS)
LOT	Screws for mounting brackets
LOT	Low smoke, zero halogen wire duct
LOT	19" Fastener 1HE
2	PE/IE earth rail copper M6 screws 1000x20x5
LOT	M6 screws
LOT	Galvanized support for PE earth rail (spacer)
LOT	Isolated support for IE earth rail
1	Ventilation fan 550m3/h 230Vac
1	Filter air inlet fan 550m3/h
1	Thermostat
1	Energy-box 19"
1	Panel lighting LED type 1200lm including sensor
1	Powercable panel lighting
1	Power Supply Unit (Raritan)
1	Raritan external smartsensor
2	Smart-PDU 1+12 C14 plug connection
1	Moxa E2210
1	Patch panel cabeling system CAT6A, 24P
24	RJ45 female to RJ45 female
3	Main switch 25A 3-pole, Ohmega rail mounting, padlockable knob
3	Auxiliary contact for mains switch 25A 3-pole
3	Modular adapter cover for OT25
1	Residual current circuit breaker iC60 2-pole 10A, C-curve, 30mA
1	19" outlets, 240Vac with earth connection 9-fould

Omschrijving: Kast 8

- 1 Frame, colour RAL 7035
- 2 Side cover, RAL 7035
- 1 Roof cover plates
- 1 Floor cover plates (4 pcs)
- 1 Drawing pocket DIN A4 RAL 7035
- 2 Door set (2x half door each side). Colour RAL 7035, door lock included
- 1 Plinth black
- 1 Òmega rail 2m lenght galvanized steel with slotted holes
- 2 MCT frame
- 1 Hijsogen 4 stuks
- 4 System chassis 17x73 Bi B/D1200 (4PCS)
- 2 System chassis 17x73 Bi B/D800 (4PCS)
- LOT Screws for mounting brackets
- LOT Low smoke, zero halogen wire duct
- LOT 19" Fastener 1HE
- 2 PE/IE earth rail copper M6 screws 1000x20x5
- LOT M6 screws
- LOT Galvanized support for PE earth rail (spacer)
- LOT Isolated support for IE earth rail
- 1 Ventilation fan 550m3/h 230Vac
- 1 Filter air inlet fan 550m3/h
- 1 Thermostat
- 1 Energy-box 19"
- 1 Panel lighting LED type 1200lm including sensor
- 1 Powercable panel lighting
- 1 Power Supply Unit (Raritan)
- 1 Raritan external smartsensor
- 2 Smart-PDU 1+12 C14 plug connection
- 1 Moxa E2242
- 2 Patch panel cabeling system CAT6A, 24P
- 48 RJ45 female to RJ45 female
- 2 Main switch 25A 3-pole, Ohmega rail mounting, padlockable knob
- 2 Auxilary contact for mains switch 25A 3-pole
- 2 Modular adapter cover for OT25
- 1 19" outlets, 240Vac with earth connection 9-fould

Appendix 4.7 - Voorbeeld Outdoor Cabinet Drawings



Rijkswaterstaat

OSS HKN TENNET SURVEILLANCE RADAR

Client : RWS
Project : RADAR INSTALLATION BUILD "OSS HKN"
: TENNET
: .
Date : 25-10-'21
Drawing no. : OSS HKN
Revision : REV.02
Status : AS BUILT

Voltage : 400V
Current (Inom) : 25A
Short circuit (Icw) : 6kA
Simultaneity : 1

checked: RK, 03-05-'21
checked: MWS, Dekimo 10-09-'21



Scholten Panelen b.v.
Curacao 42
7332 BM APELDOORN
Telefoon 055-5051441
Fax 055-5052693
www.scholtenpanelen.nl

NanoCAD plus

NEXT PAGE: 01

Date	30-04-'21	COVER RADAR INSTALLATION OSS HKN TENNET
Rev. 1	15-06-'21	
Rev. 2	26-08-'21	
Rev. 3		
Rev. 4		

Project	P21.042-1.HKN
Cabinet	OSS HKN
Engineer	RBL
Drawn by	RBL
Page	00

PAGE	DESCRIPTION	REVISION DATE	REVISION
00	COVER PAGE	26-08-'21	2
01	INDEX	26-08-'21	2
02	SPECIFICATION	26-08-'21	2
03A	BLOCK DIAGRAM NAUTIC RADAR	26-08-'21	2
03B	BLOCK DIAGRAM DEMARCATION	26-08-'21	2
04	OVERVIEW	26-08-'21	2
05	MAIN CURRENT DIAGRAM 400/230VAC	26-08-'21	2
06	MAIN CURRENT DIAGRAM 400/230VAC	26-08-'21	2
07	MAIN CURRENT TERMA ANTENNA CONTROL UNIT	26-08-'21	2
08	SCANTER 5202 RADAR TRANSCEIVER *1	26-08-'21	2
09	SPARE		
10	SCHEMATIC DIAGRAM RACK POWER DISTRIBUTION UNIT 10PDU1	26-08-'21	2
11	SPARE		
12	SPARE		
13	VIEW CISCO SWITCH IE-8000-8TC	26-08-'21	2
14	CONTROL DIAGRAM CISCO SWITCH	26-08-'21	2
15	CONTROL DIAGRAM CISCO SWITCH	26-08-'21	2
16	CONNECTION DIAGRAM PLC CONTROL	26-08-'21	2
17	CONNECTION DIAGRAM PLC CONTROL INPUT	26-08-'21	2
18	CONNECTION DIAGRAM PLC CONTROL INPUT	26-08-'21	2
19	CONNECTION DIAGRAM PLC CONTROL OUTPUT	26-08-'21	2
20	NETWORK CONVERTER MOXA NPORT	26-08-'21	2
21	GLASS FIBRE PATCH PANEL	26-08-'21	2
22	SPARE		
23	SPARE		
24	SPARE		

PAGE	DESCRIPTION	REVISION DATE	REVISION
25	OUTSIDE CABINET LAYOUT	26-08-'21	2
26	OUTSIDE CABINET	26-08-'21	2
27	LEFT / RICHT SIDE SET IN FRAME	26-08-'21	2
28	RADAR INSTALLATION OSS HKN	26-08-'21	2
29	SPARE		
30	TERMINAL BLOCK X0	26-08-'21	2
31	TERMINAL BLOCK X1	26-08-'21	2
32	TERMINAL BLOCK X3	26-08-'21	2
33	TERMINAL BLOCK X4	26-08-'21	2
34	TERMINAL BLOCK TB2	26-08-'21	2
35	TERMINAL BLOCK X9	26-08-'21	2
36	TERMINAL BLOCK X10	26-08-'21	2
37	INSTALLATION CABLES	26-08-'21	2
38	PARTLIST	26-08-'21	2
39	SPARE		
40	SPARE		

Date	30-04-'21	INDEX RADAR INSTALLATION OSS HKN TENNET	Project	P21.042-1.HKN
Rev. 1	15-06-'21		Cabinet	OSS HKN
Rev. 2	26-08-'21		Engineer	RBL
Rev. 3			Drawn by	RBL
Rev. 4			Page	01

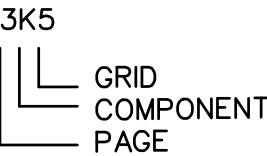
WIRING SPECIFICATIONS (VDS)

MAIN CURRENT : PHASES : BROWN, BLACK, GREY
400/230VAC : NEUTRAL : BLUE (RAL 5015)
230VAC-L : PHASE : BROWN
400/230VAC : PROTECTIVE EARTH : YELLOW/GREEN
EARTH : INSTRUMENTATION EARTH: GREEN

CONTROL CIRCUIT

CONTROL : VAC ≤50V : ORANGE
VAC >50V : BLACK
CONTROL : VDC ≤50V : RED
ANALOGUE SIGNALS : + & - : WHITE
POTENTIAL FREE : NOT DEFINED : NOT DEFINED

DEVICE CODING



WIRE CODING

WIRE CODING ON WIRE ENDS ACCORDING TO DEVICE AND TERMINAL CODE

WIRE FINISH

FINISH WIRE END WITH ELECTRIC WIRE FERRULE

WIRE

MAKE: BETAtherm - LEONI
H05Z-K HALOGEN FREE 90° C < 1,5mm²
H07Z-K HALOGEN FREE 90° C > 2,5mm²

WIRE DUCT

MAKE: REHAU
TYPE: HF-METRA HALOGEN FREE GREY (min. 80mm high)

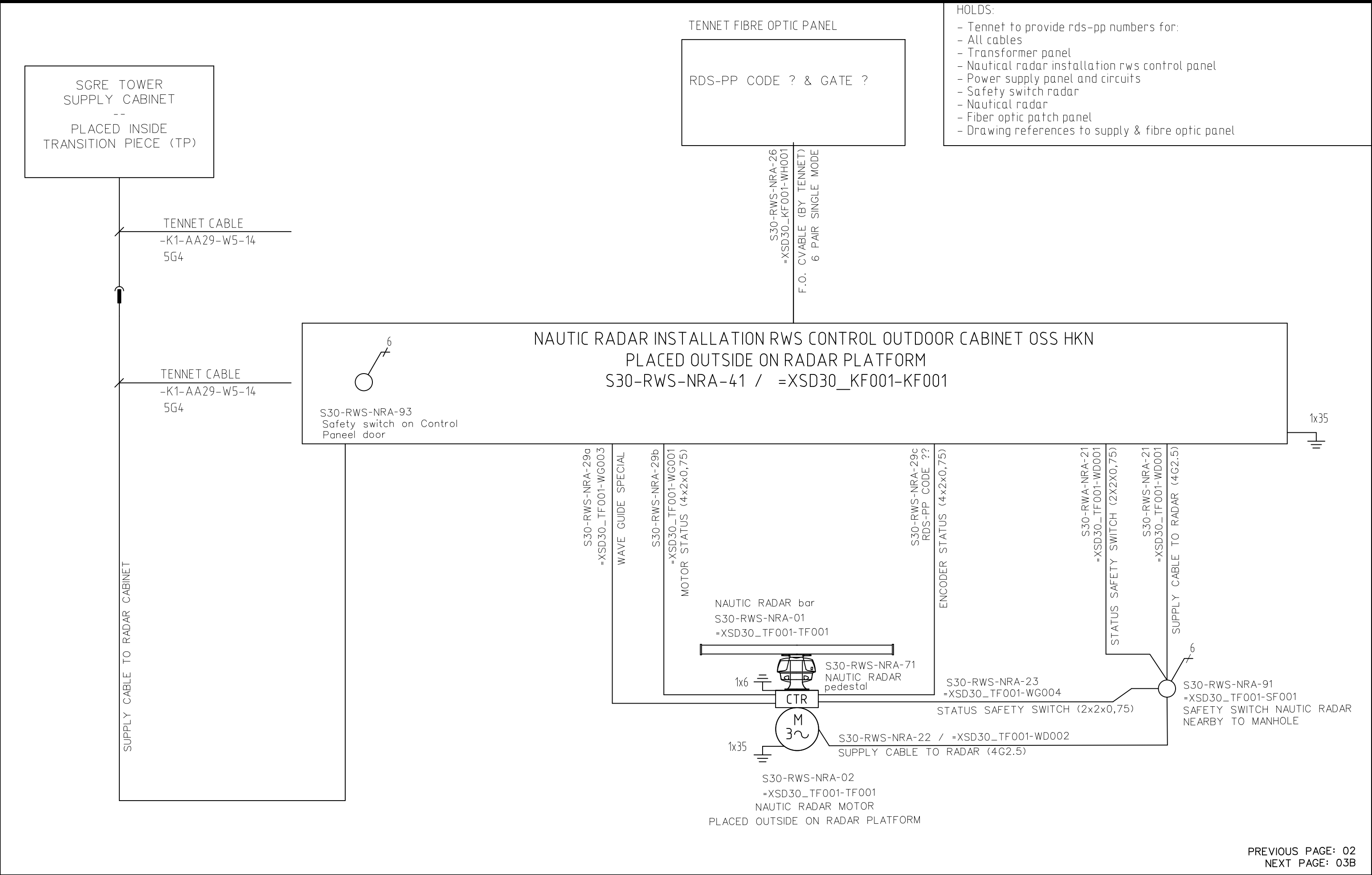
TERMINAL DESCRIPTION

X0 : POWER SUPPLY CIRCUIT
X1 : MAIN CIRCUIT 400/230VAC
X2 : CONNECTOR SUBD25 ACU
X3 : PLC DIGITAL IN SPARE
X4 : PLC DIGITAL OUT SPARE
X9 : SUBD25 SCANTER 5202 ENCODER SIGNAL
X10 : SUBD15 SCANTER 5202 MOTOR FAULTS STATUS
X_HEATER: HEATER
TB2 : COMMUNICATION FROM RxTx TO ACU CONTROLLER

This installation has been built according to the following harmonised standards:

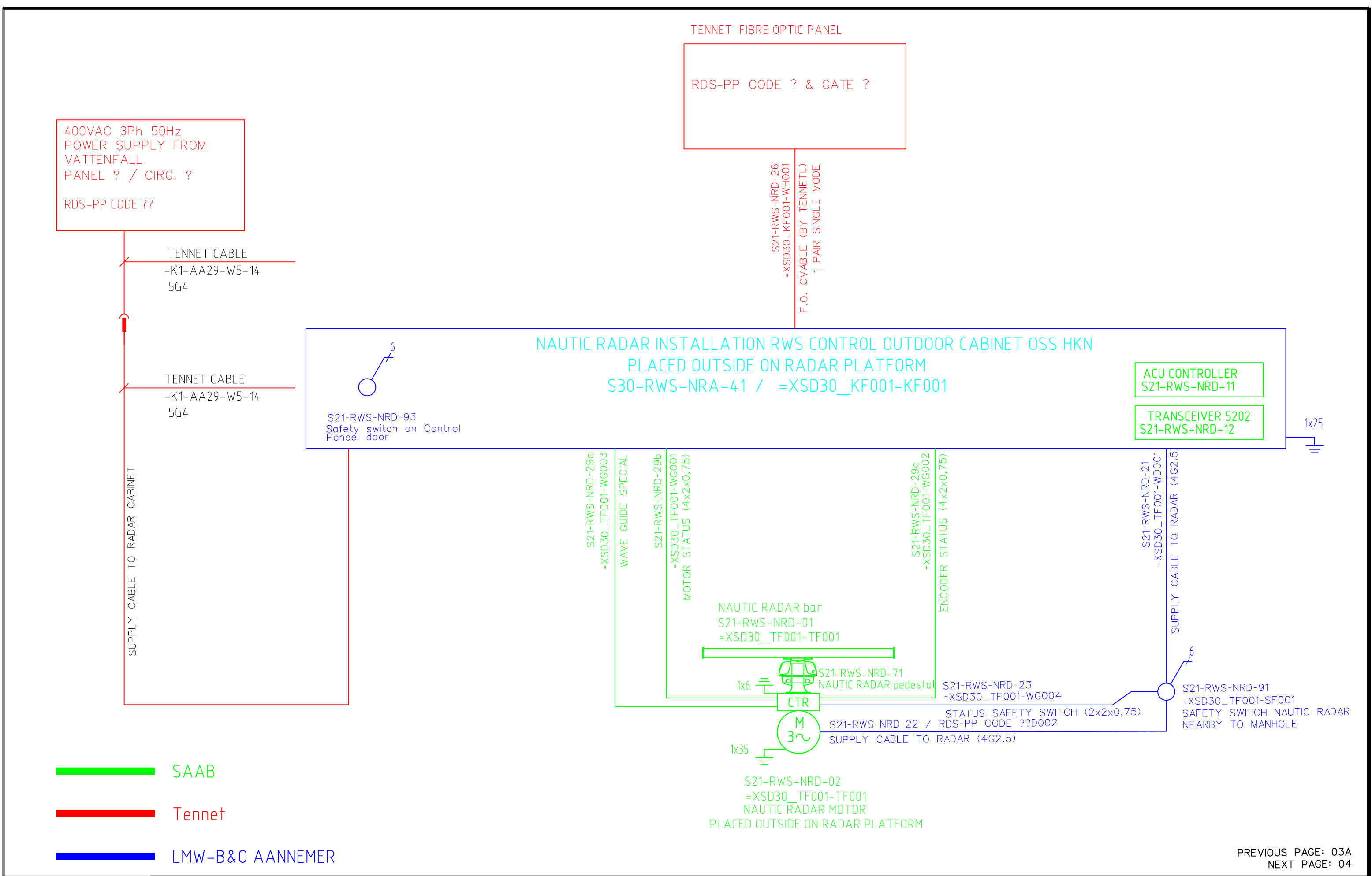
NEN-EN-IEC 60204
NEN 1010

Date	30-04-'21	SPECIFICATION RADAR INSTALLATION OSS HKN TENNET	Project	P21.042-1.HKN
Rev. 1			Cabinet	OSS HKN
Rev. 2	26-08-'21		Engineer	RBL
Rev. 3			Drawn by	RBL
Rev. 4			Page	02



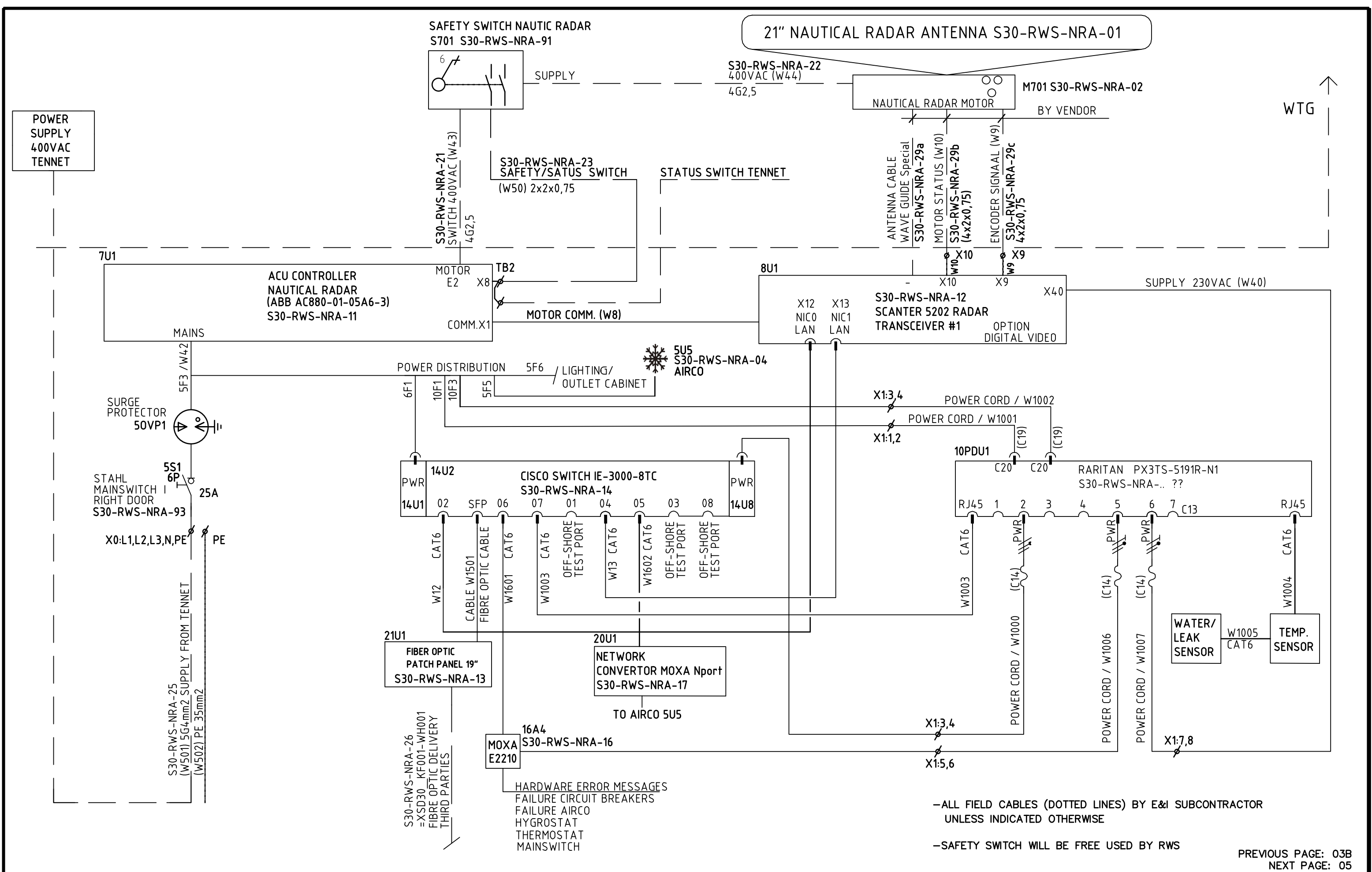
- HOLDS:
- Tennen to provide rds-pp numbers for:
 - All cables
 - Transformer panel
 - Nautical radar installation rws control panel
 - Power supply panel and circuits
 - Safety switch radar
 - Nautical radar
 - Fiber optic patch panel
 - Drawing references to supply & fibre optic panel

Date	30-04-'21	BLOCK DIAGRAM NAUTIC RADAR RADAR INSTALLATION OSS HKN TENNET	Project	P21.042-1.HKN
Rev. 1			Cabinet	OSS HKN
Rev. 2	26-08-'21		Engineer	RBL
Rev. 3			Drawn by	RBL
Rev. 4			Page	03A



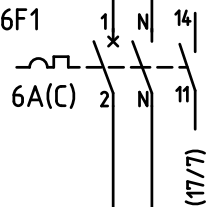
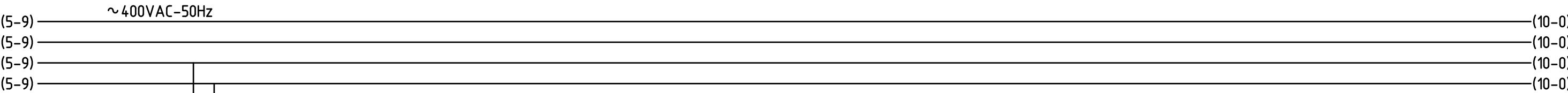
Date	30-04-'21	BLOCK DIAGRAM NAUTIC RADAR DEMARCATION RADAR INSTALLATION OSS HKN TENNET	Project	P21.042-1.HKN
Rev. 1			Cabinet	OSS HKN
Rev. 2	26-04-'21		Engineer	RBL
Rev. 3			Drawn by	RBL
Rev. 4			Page	03B

PREVIOUS PAGE: 03A
NEXT PAGE: 04

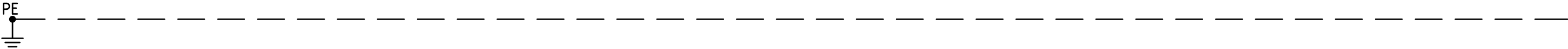


Date	30-04-'21	OVERVIEW RADAR INSTALLATION OSS HKN TENNET	Project	P21.042-1.KHN
Rev. 1			Cabinet	OSS KHN
Rev. 2	26-08-'21		Engineer	RBL
Rev. 3			Drawn by	RBL
Rev. 4			Page	04

0	1	2	3	4	5	6	7	8	9
	POWER SUPPLY								
	MAIN 1								
	CISCO SWITCH								



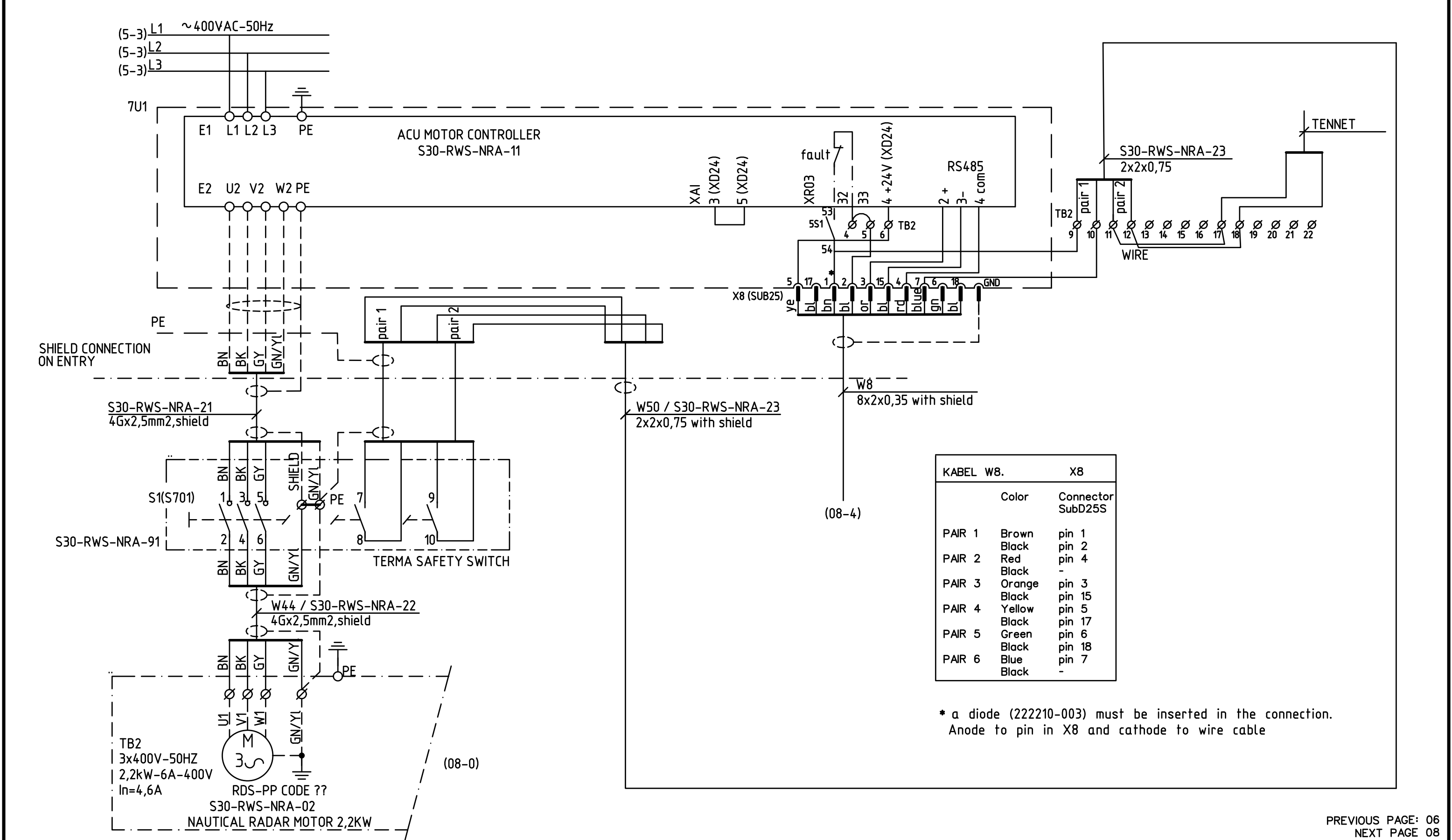
(14-1)



PREVIOUS PAGE: 05
NEXT PAGE 07

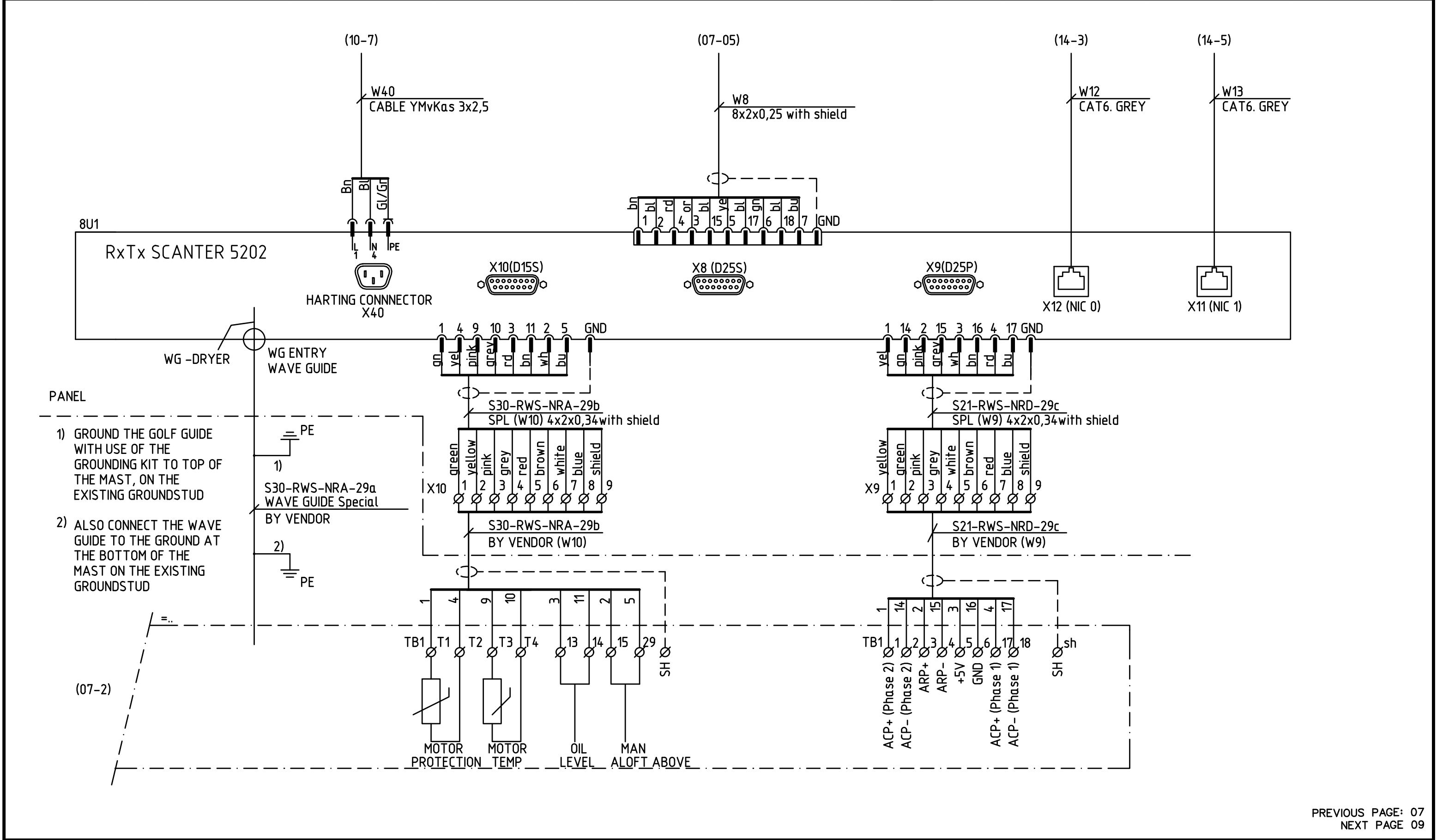
Date	30-04-'21	MAINCURRENT DIAGRAM 400 / 230VAC RADAR INSTALLATION OSS HKN TENNET	Project	P21.042-1.KNH
Rev. 1			Cabinet	OSS-KNH
Rev. 2	26-08-'21		Engineer	RBL
Rev. 3			Drawn by	RBL
Rev. 4			Page	06

0	1	2	3	4	5	6	7	8	9
	POWER SUPPLY	SAFETY LOOP		RUNNING	COMMUNICATION		STATUS	STATUS	
	RADARACU	RADARACU		RADARACU	VAN RxTx > ACU		SAFETY SWITCH	SAFETY SWITCH	
		MANHOLE		START/STOP			E4	TENNET	



Date	30-04-'21	MAINCURRENT TERMA ANTENNA CONTROL UNIT RADAR INSTALLATION OSS HKN TENNET	Project	P21.042-1.HKN
Rev. 1			Cabinet	OSS HKN
Rev. 2	26-08-'21		Engineer	RBL
Rev. 3			Drawn by	RBL
Rev. 4			Page	07

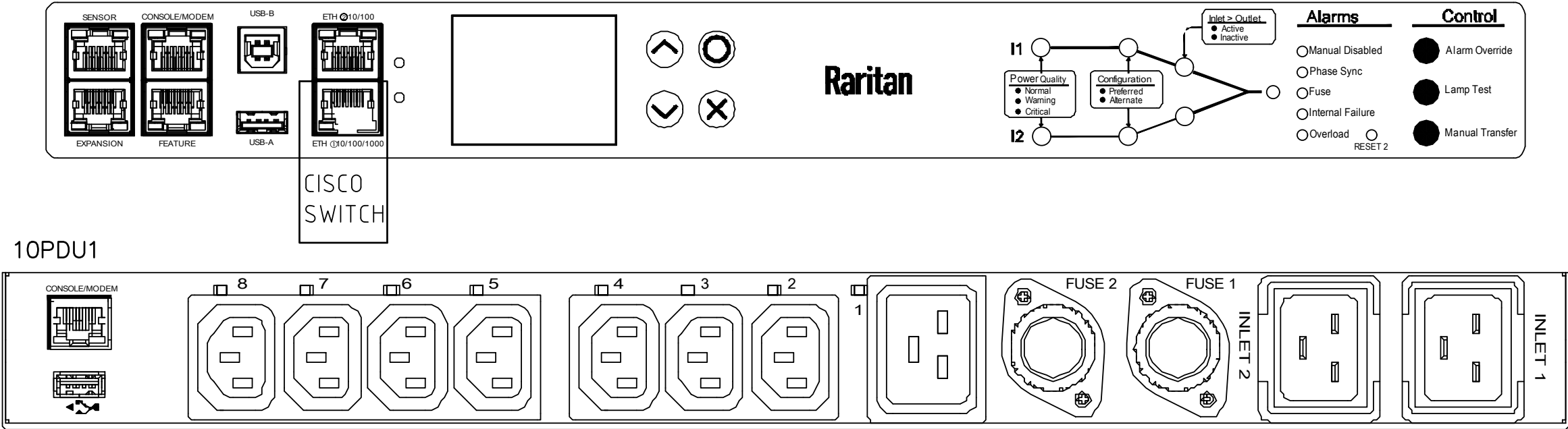
0	1	2	3	4	5	6	7	8	9
	WAVE GUIDE	POWER	MOTOR FAULTS	CONTROLLER		WG SWITCH	COM, LAN	COM, LAN	
		230VAC	STATUS	COMMUNICATION		AND ENCODER	CISCO ROUTER	CISCO ROUTER	
		SCANTER 2502	X10	X8		X9	PORT 2	PORT 4	



PREVIOUS PAGE: 07
NEXT PAGE 09

Date	30-04-'21	SCANTER 5202 RADAR TRANSCEIVER * 1 RADAR INSTALLATION OSS HKN TENNET	Project	P21.042-1.HKN
Rev. 1			Cabinet	OSS HKN
Rev. 2	26-08-'21		Engineer	RBL
Rev. 3			Drawn by	RBL
Rev. 4			Page	08

FRONT VIEW



10PDU1

REAR VIEW

OUTLET GROUP
LOAD CAPACITY 3,8kVA at 240V
1x C19/16A
7x C13/10A

	-	Raritan PDU
OUTLET GROUP	NR.	DESCRIPTION
C19	1	SPARE
C13	2	CISCO ROUTER IE-30008TC
C13	3	SPARE
C13	4	SPARE
C13	5	SUPPLY 230/24VDC MOXA PLC
C13	6	SCANTER 5202
C13	7	SPARE
C13	8	SPARE

Date	30-04-'21
Rev. 1	
Rev. 2	26-08-'21
Rev. 3	
Rev. 4	

VIEW EMERGENCY POWER SUPPLY
RADAR INSTALLATION OSS HKN TENNET



SPL

b.v.

SP Laagspanningssystemen

Scholten Panelen b.v.

Curacao 42

7332 BM APELDOORN

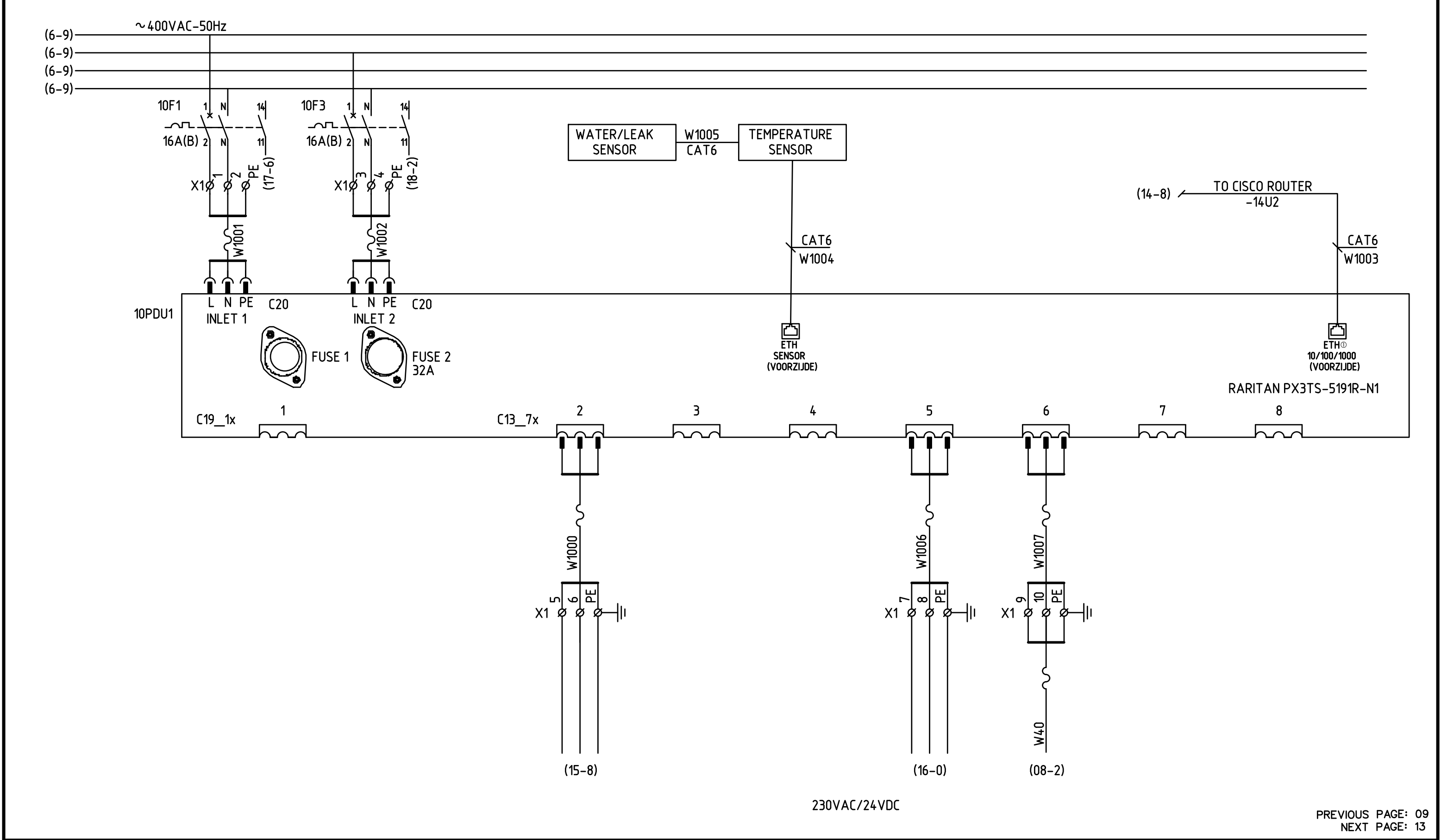
Telefoon 055-5051441

Fax 055-5052693

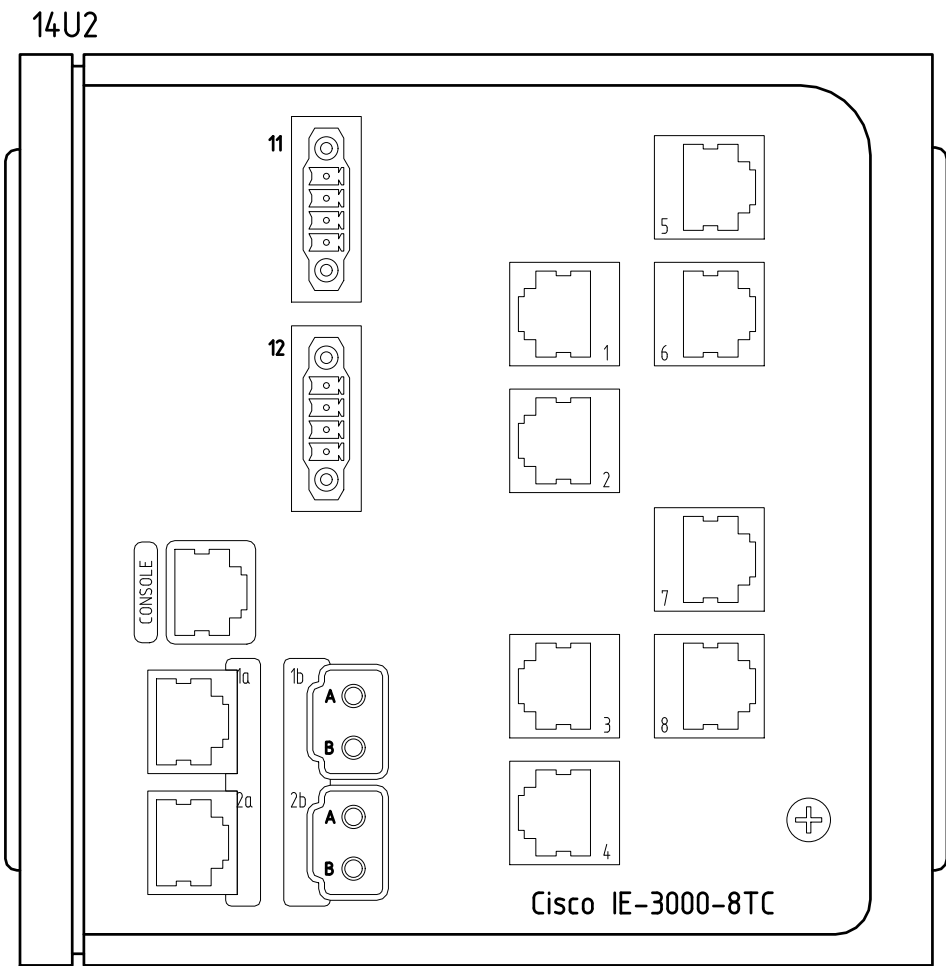
www.scholtenpanelen.nl

Project	P21.042-01.HKN
Cabinet	OSS HKN
Engineer	RBL
Drawn by	RBL
Page	09

0	1	2	3	4	5	6	7	8	9
	POWER SUPPLY		POWER SUPPLY			POWER SUPPLY	POWER SUPPLY		
	RARITAN	SPARE	230VAC			230VAC	230VAC	SPARE	
			CISCO SWITCH			SUPPLY 230VAC/24VDC	SCANTER 2202		



Date	30-04-'21	SCHEMATIC DIAGRAM RACK POWER DISTRIBUTION UNIT 10PDU1 RADAR INSTALLATION OSS HKN TENNET	Project	P21.042-1.HKN
Rev. 1			Cabinet	OSS HKN
Rev. 2	26-08-'21		Engineer	RBL
Rev. 3			Drawn by	RBL
Rev. 4			Page	10

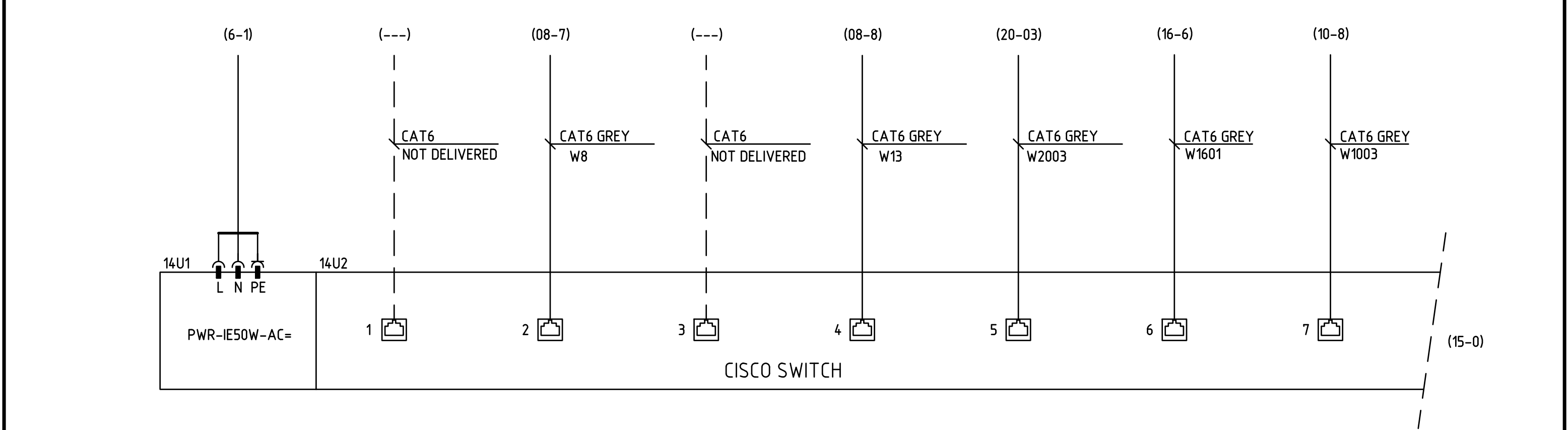


PORT	NR.	DESCRIPTION
1000 FULL	1a	SPARE
1000 FULL	2a	SPARE
SFP	1b	OPTICAL FIBER
SFP	2b	OPTICAL FIBER
100 FULL	01	OFF-SHORE TEST PORT
100 FULL	02	MCU SCANTER 5202 TRANSCEIVER X12 (NIC0)
100 FULL	03	OFF-SHORE TEST PORT
100 FULL	04	SCANTER 5202 RADAR TRANSCEIVER X13 (NIC1)
100 FULL	05	MOXA/NPORT (RS485-2w) AIRCO SIGNAAL
100 FULL	06	MOXA/PLC
100 FULL	07	PDU RARITAN

PORT	NR.	DESCRIPTION
100 FULL	08	OFF-SHORE TEST PORT
100 FULL	con	SPARE
CONNECTOR	11	POWER
CONNECTOR	12	POWER

REMARK!
THE TEST OFF-SHORE TEST PORT ARE PORTS THAT ARE USED DURING TESTING
OR TROUBLESHOOTING ONLY, AND WILL BE MARKED AS A SPARE

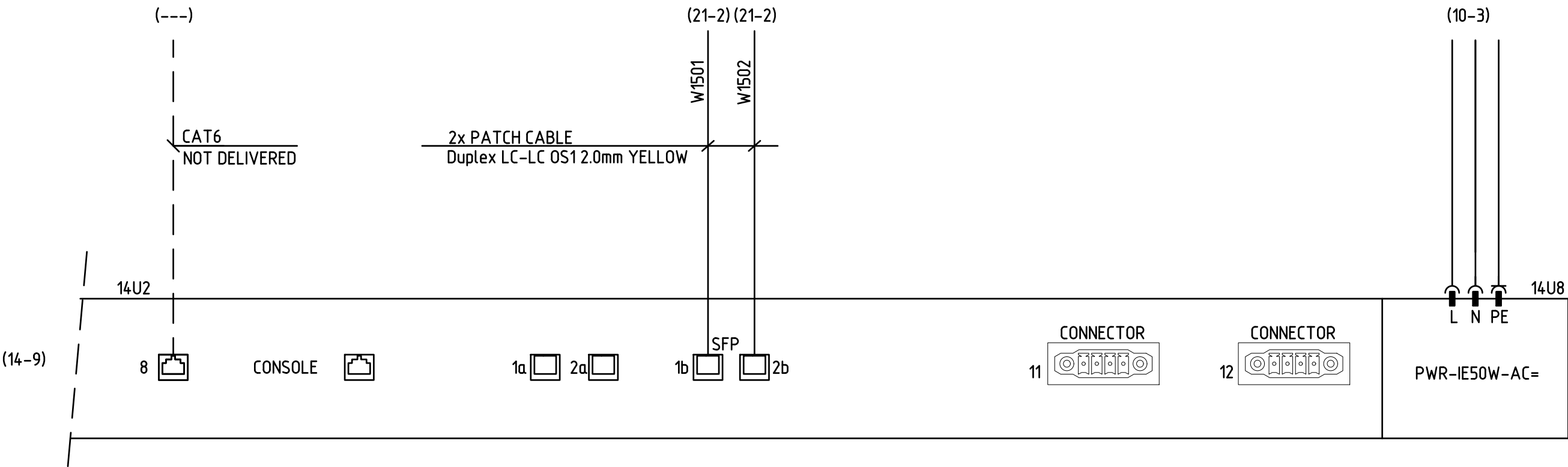
0	1	2	3	4	5	6	7	8	9
	POWER SUPPLY	ETHERNET	ETHERNET	ETHERNET	ETHERNET	ETHERNET	ETHERNET	ETHERNET	
	6F1	OFF-SHORE TEST PORT	MCU SCANTER 5202 NIC0	OFF-SHORE TEST PORT	SCANTER 5202 NIC1	MOXA/N-PORT	MOXA/PLC E2210	PDU RARITAN	
	230VAC	RWS	VTS-VID	VTS-VID	VTS BHR	VTS BHR	VTS BHR	VTS BHR	



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NEXT PAGE: 15

Date	30-04-'21	CONTROL DIAGRAM CISCO SWITCH RADAR INSTALLATION OSS HKN TENNET	Project	P21.042-1.HKN
Rev. 1	15-06-'21		Cabinet	OSS HKN
Rev. 2	26-08-'21		Engineer	RBL
Rev. 3			Drawn by	RBL
Rev. 4			Page	14

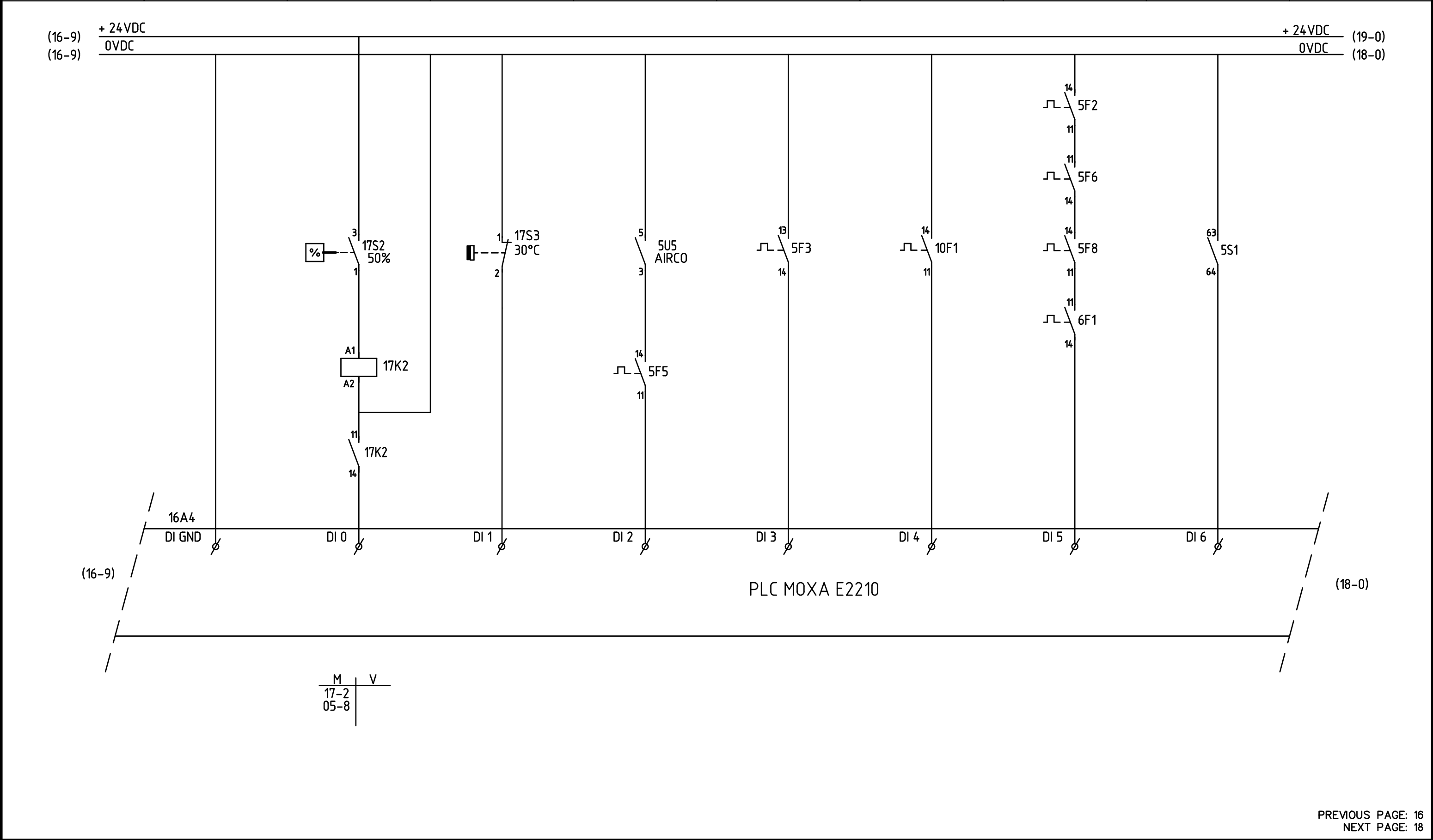
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	ETHERNET	.		FIBER OPTIC	.	.		POWER SUPPLY	
	OFF-SHORE TEST PORT	SPARE	SPARE	F.O. PATCH PANEL	.	POWER 14U1	POWER 14U8	CISCO ROUTER	
	VTS-BHR	.		GATE 1	.	.		230VAC	



Date	30-04-'21	CONTROL DIAGRAM CISCO SWITCH RADAR INSTALLATION OSS HKN TENNET	Project	P21.042-1.HKN
Rev. 1			Cabinet	OSS HKN
Rev. 2	26-08-'21		Engineer	RBL
Rev. 3			Drawn by	RBL
Rev. 4			Page	15

PREVIOUS PAGE: 14
NEXT PAGE: 16

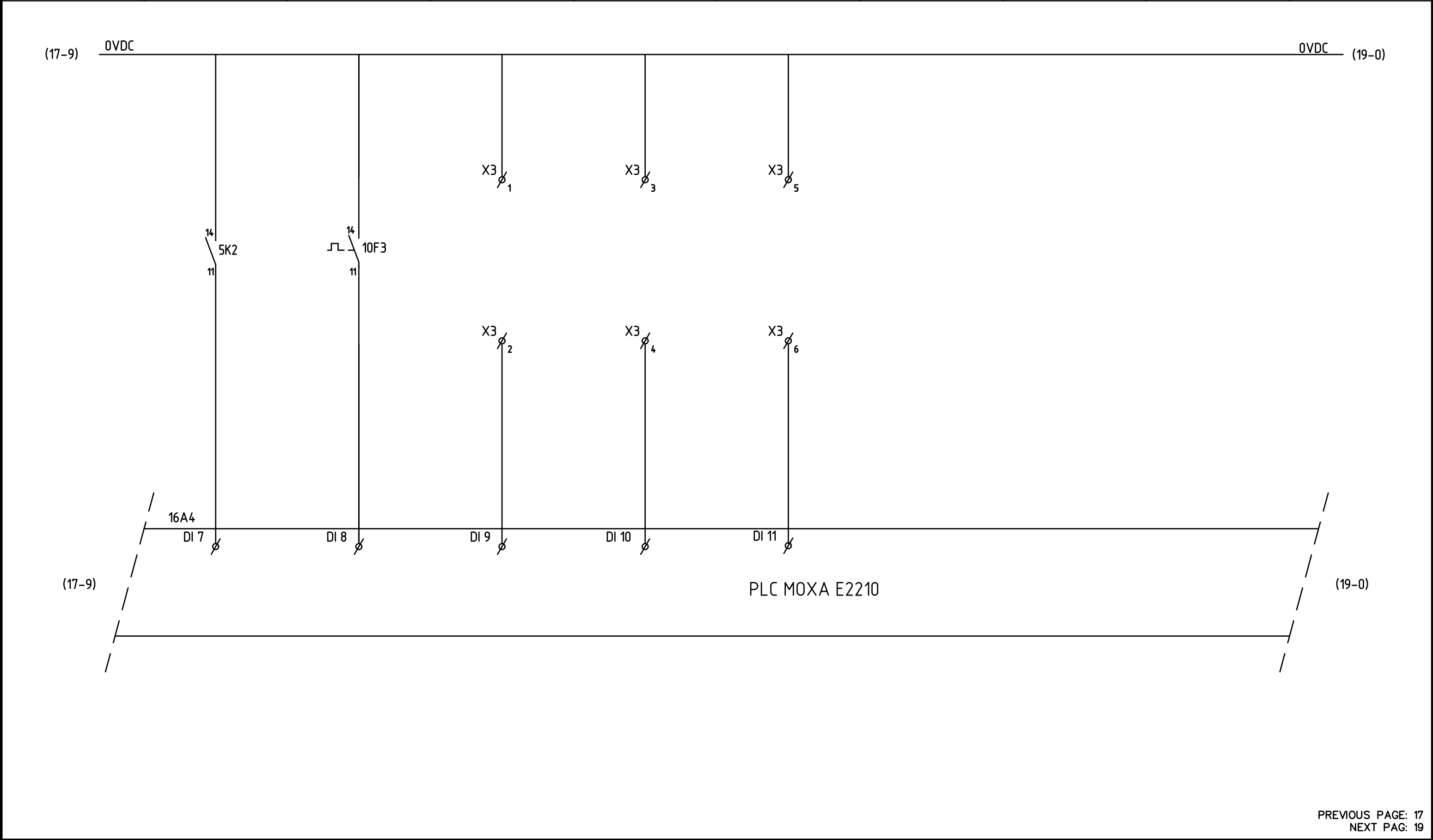
0	1	2	3	4	5	6	7	8	9
		HYGROSTAT	THERMOSTAT	FAILURE	FAILURE	FAILURE	FAILURE	STATUS	
		CABINET	CABINET	AIRCO	CIRCUIT BREAKER	CIRCUIT BREAKER	CIRCUIT BREAKERS	MAINSWITCH	
		AIR HUMIDITY	TEMPERATURE	.	ANTENNA CONTROLLER	RARITAN 10PDU1	.		



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NEXT PAGE: 18

Date	30-04-'21	CONNECTION DIAGRAM PLC CONTROL INPUT RADAR INSTALLATION OSS HKN TENNET	Project	P21.042-1.HKN
Rev. 1			Cabinet	OSS HKN
Rev. 2	26-08-'21		Engineer	RBL
Rev. 3			Drawn by	RBL
			Page	17

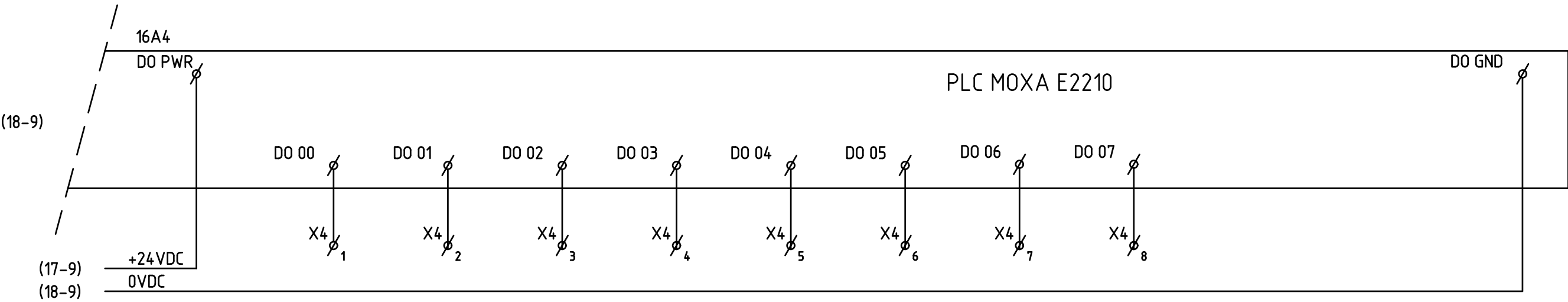
0	1	2	3	4	5	6	7	8	9
	STATUS	FAILURE	.	.	.	.	.	.	
	VOLTAGE MONITORING	CIRCUIT BREAKER	SPARE	SPARE	SPARE	.	.	.	
	.	RARITAN 10PDU1	.	.	.	.	.	.	



PREVIOUS PAGE: 17
NEXT PAG: 19

Date	30-04-'21	CONNECTION DIAGRAM PLC CONTROL INPUT RADAR INSTALLATION OSS HKN TENNET	Project	P21.042-1.HKN
Rev. 1			Cabinet	OSS HKN
Rev. 2	26-08-'21		Engineer	RBL
Rev. 3			Drawn by	RBL
Rev. 4			Page	18

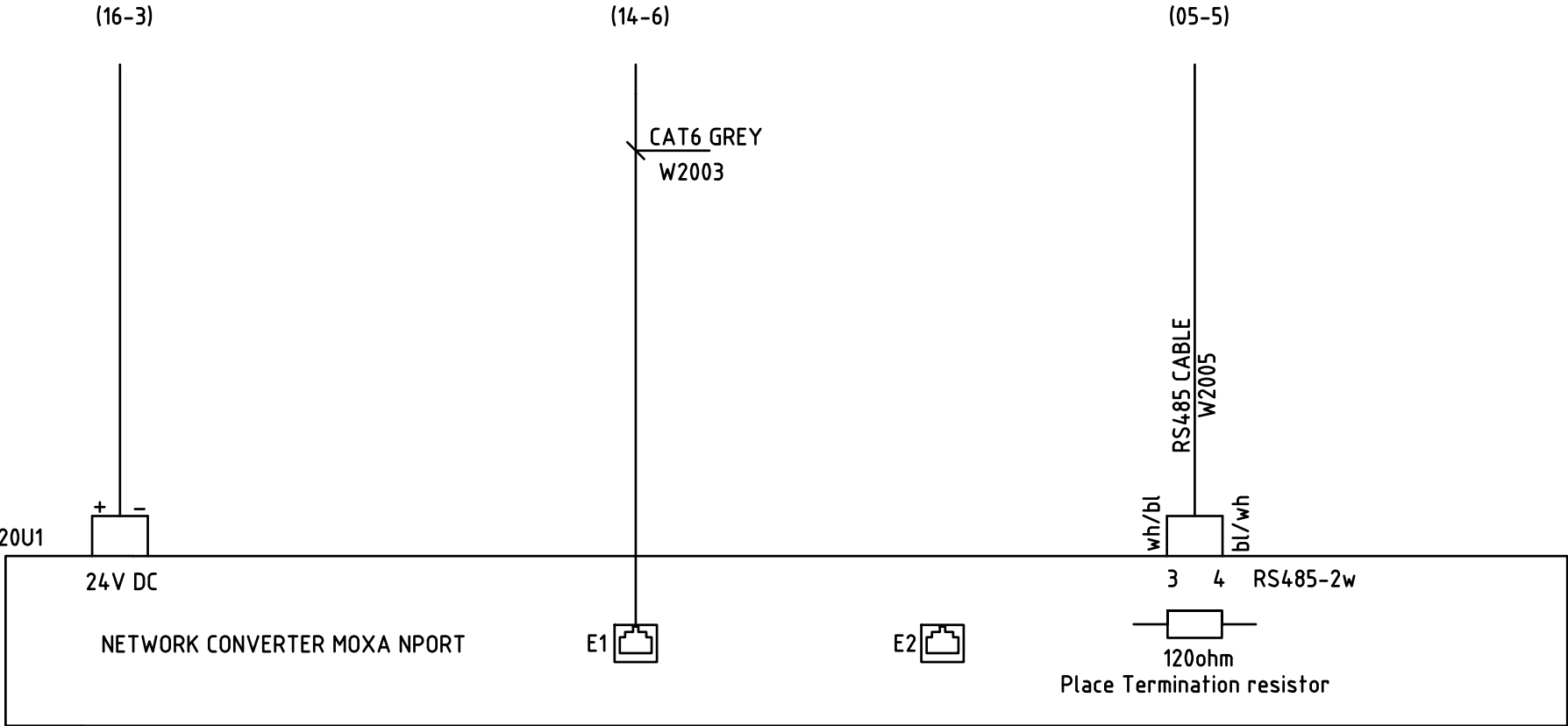
0	1	2	3	4	5	6	7	8	9
	.	.	.	.	.	.	.	.	
	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	.	.	
	.	.	.	.	.	.	.	.	



PREVIOUS PAGE: 18
NEXT PAGE: 20

Date	30-04-'21	CONNECTION DIAGRAM PLC CONTROL OUTPUT RADAR INSTALLATION OSS HKN TENNET	Project	P21.042-1.HKN
Rev. 1			Cabinet	OSS HKN
Rev. 2	26-08-'21		Engineer	RBL
Rev. 3			Drawn by	RBL
Rev. 4			Page	19

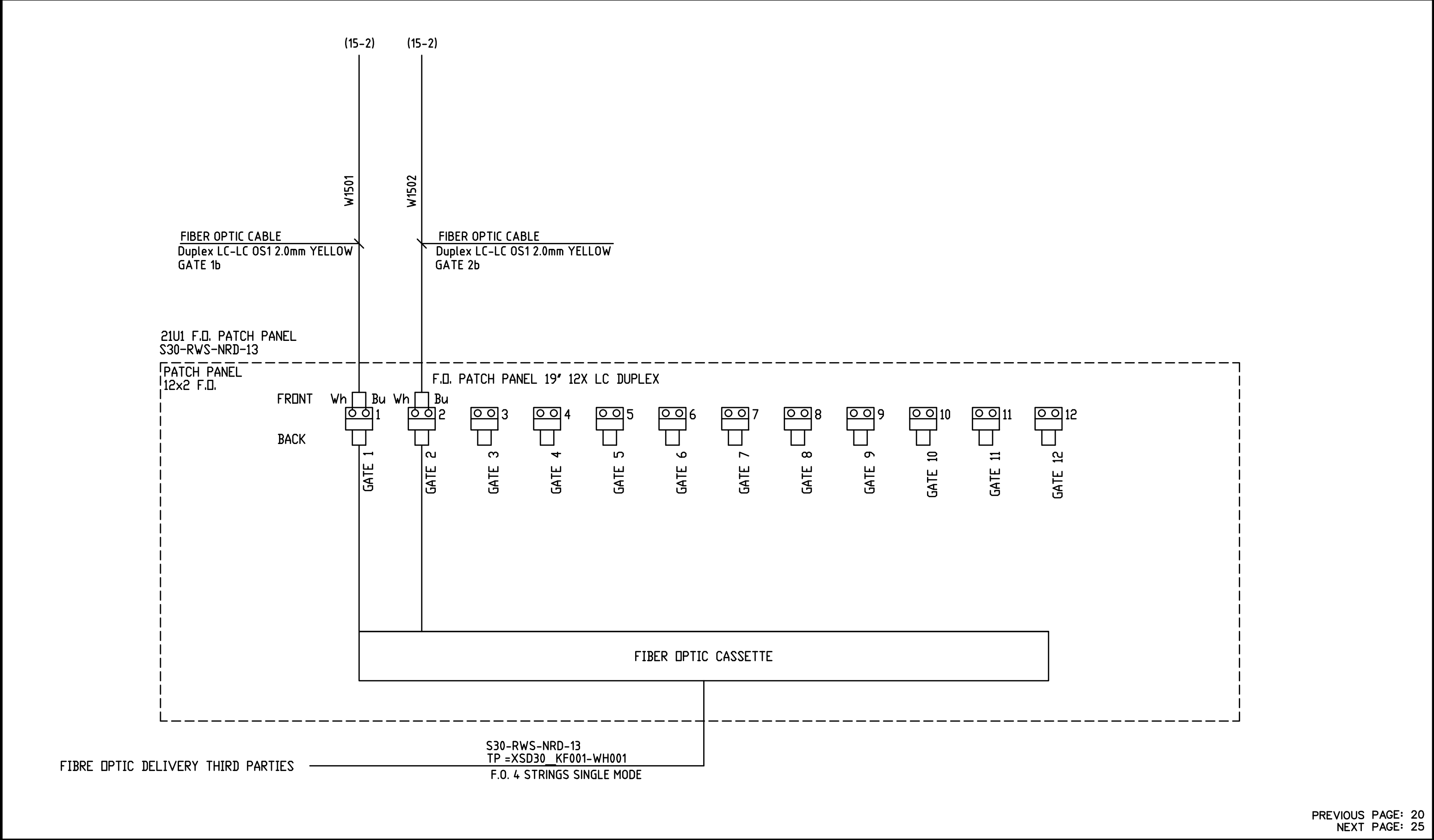
0	1	2	3	4	5	6	7	8	9
	POWER SUPPLY		ETHERNET		(RS485-2w)				
	SERIAL DEVICE SERVERS		CISCO SWITCH		AIRCO SIGNAL				
	24V DC		PORT 5		NPORT				



PREVIOUS PAGE: 19
NEXT PAGE: 21

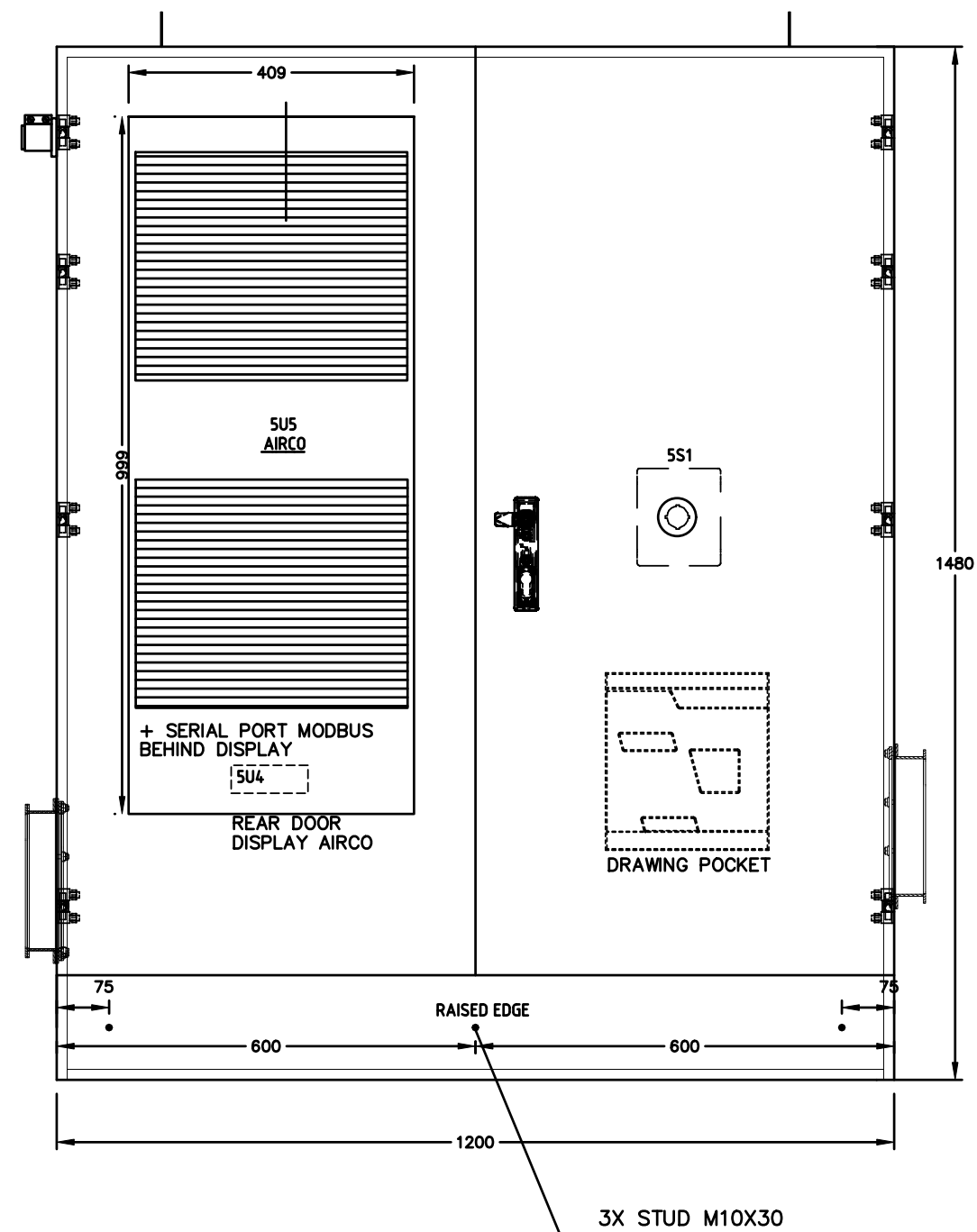
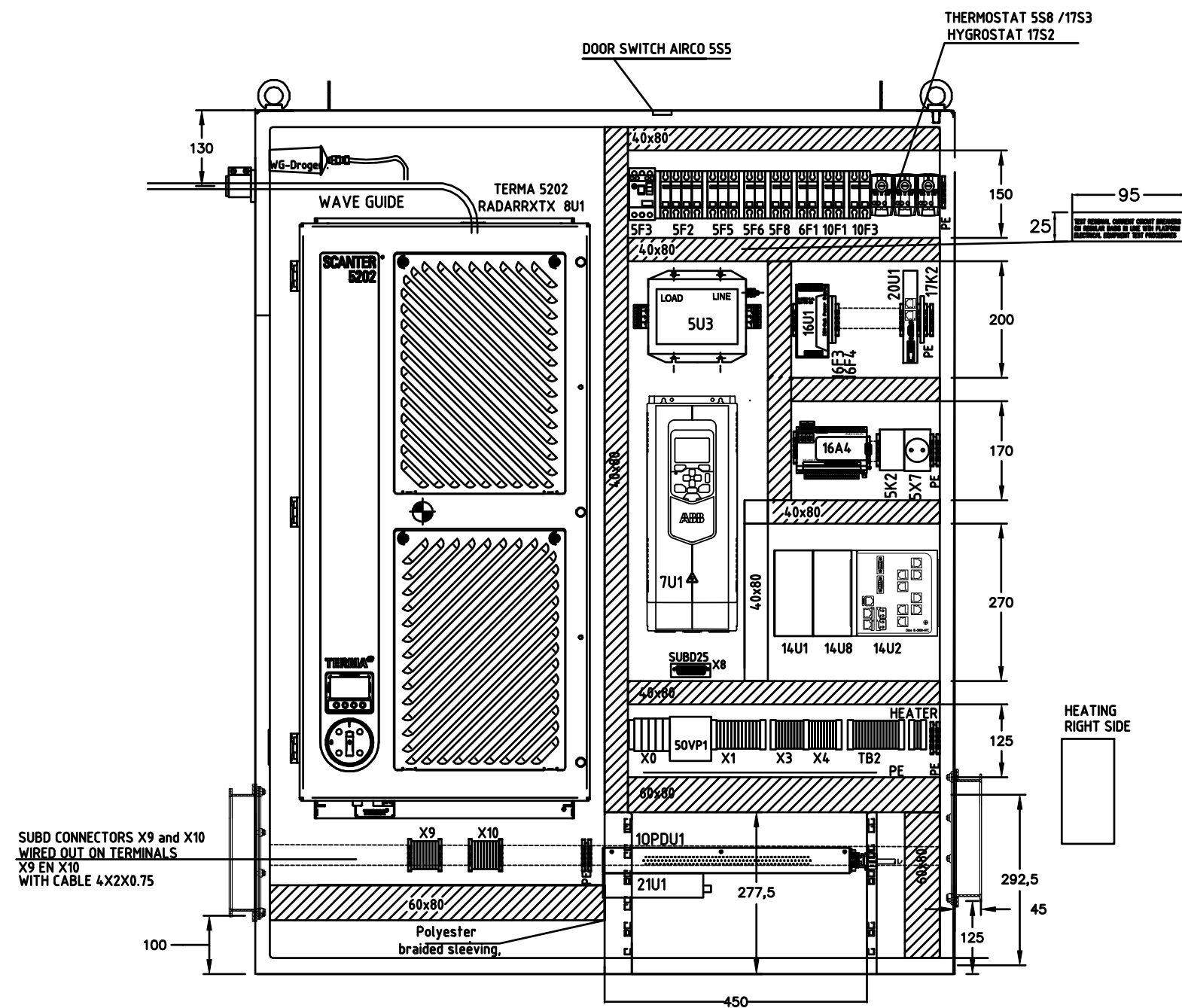
Date	30-04-'21	NETWORK CONVERTER MOXA NPORT RADAR INSTALLATION OSS HKN TENNET	Project	P21.042-1.HKN
Rev. 1			Cabinet	OSS HKN
Rev. 2	26-08-'21		Engineer	RBL
Rev. 3			Drawn by	RBL
Rev. 4			Page	20

0	1	2	3	4	5	6	7	8	9
	.	FIBER OPTIC	.	.	.	.	.		
	SPARE	CISO ROUTER	SPARE	SPARE	SPARE	SPARE	SPARE		
	.	S30-RWS-NRA-13(14U2)	.	.	.	.	.		



PREVIOUS PAGE: 20
NEXT PAGE: 25

Date	30-04-'21	GLASS FIBRE PATCH PANEL RADAR INSTALLATION OSS HKN TENNET	Project	P21.042-1.HKN
Rev. 1			Cabinet	OSS HKN
Rev. 2	26-08-'21		Engineer	RBL
Rev. 3			Drawn by	RBL
Rev. 4			Page	21



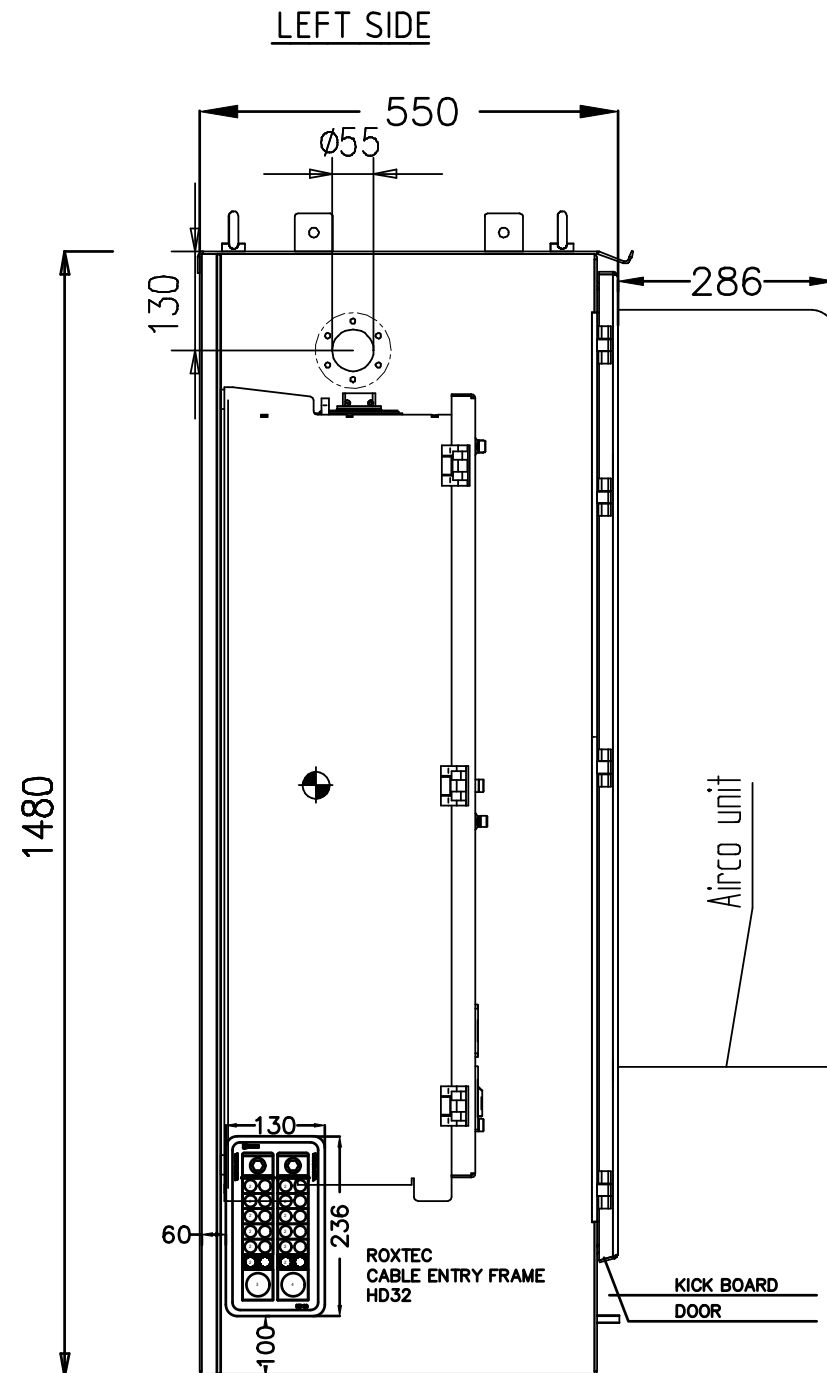
Cabinet is provided from 15mm thick foam sheets, SPL
single-sided with a reflective aluminum layer.
Both left right and rear under MPL

Cabinet dimensions see page 27 !

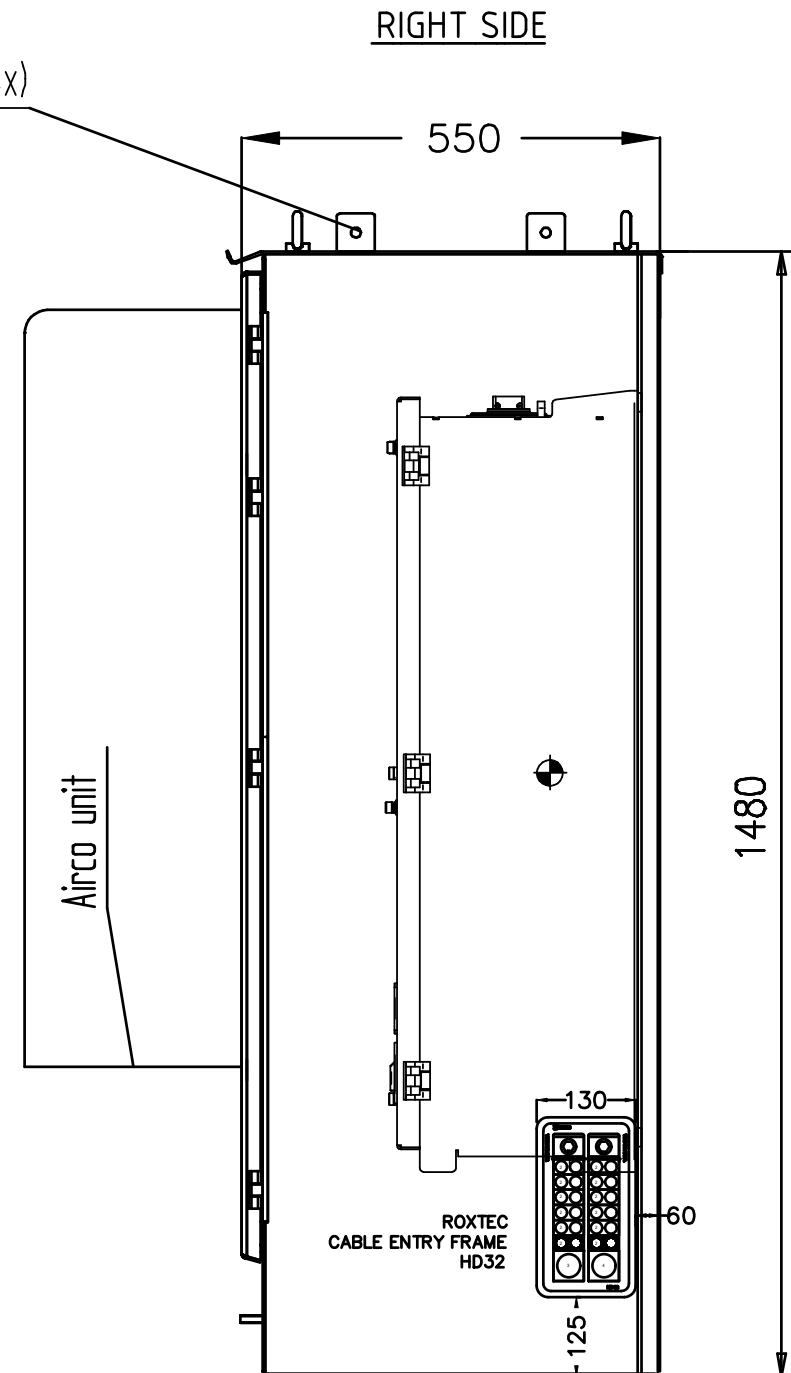
PREVIOUS PAGE: 21
NEXT PAGE: 26

Date	30-04-'21	OUTSIDE CABINET LAYOUT RADAR INSTALLATION OSS HKN TENNET
Rev. 1		
Rev. 2	26-08-'21	
Rev. 3		
Rev. 4		

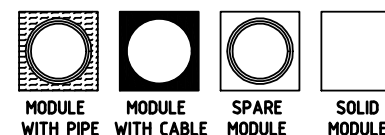
Project	P21.042-1.HKN
Cabinet	OSS HKN
Engineer	RBL
Drawn by	RBL
Page	25



HOLE $\varnothing$ 13MM
Fixing bracket (4x)
50x50x3mm



Item	Qty	Roxtec Packing Material	Roxtec Art. No
4	1	CM 40 10-32 BG B 9.5-32.5 [0.374"-1.280"]	103381
3	1	CM 40 BG B 21.5-34.5 [0.846"-1.358"]	103383
2	12	CM 20W40 BG B 3.5-16.5 [0.138"-0.650"]	103375
1	1	HD FRAME ASSEMBLY	109238
POS.	Cable name	Cable Type	Module Type
A1:1	S21-RWS-NRD-21	4G2,5	CM 20W40 BG B 3.5-16.5 [0.138"-0.650"]
A1:2			CM 40 BG B 21.5-34.5 [0.846"-1.358"]
A1:3			CM 20W40 BG B 3.5-16.5 [0.138"-0.650"]
A2:1	S21-RWS-NRA-29b	4x2x0,34	CM 20W40 BG B 3.5-16.5 [0.138"-0.650"]
A2:2	S21-RWS-NRA-29c	4x2x0,34	CM 20W40 BG B 3.5-16.5 [0.138"-0.650"]
A2:3			CM 40 10-32 BG B 9.5-32.5 [0.374"-1.280"]
A2:4			CM 20W40 BG B 3.5-16.5 [0.138"-0.650"]



Item	Qty	Roxtec Packing Material	Roxtec Art. No
4	1	CM 40 BG B 21.5-34.5 [0.846"-1.358"]	103383
3	12	CM 20W40 BG B 3.5-16.5 [0.138"-0.650"]	103375
2	1	CM 40 10-32 BG B 9.5-32.5 [0.374"-1.280"]	103381
1	1	HD FRAME ASSEMBLY	109238
POS.	Cable name	Cable Type	Module Type
A1:1	S21-RWS-NRD-25	5G2,5	CM 40 BG B 21.5-34.5 [0.846"-1.358"]
A1:2	PE	35mm2	CM 20W40 BG B 3.5-16.5 [0.138"-0.650"]
A1:3			CM 20W40 BG B 3.5-16.5 [0.138"-0.650"]
A2:1	S21-RWS-NRD-13	Fiber optic	CM 20W40 BG B 3.5-16.5 [0.138"-0.650"]
A2:2			CM 40 10-32 BG B 9.5-32.5 [0.374"-1.280"]
A2:3			CM 20W40 BG B 3.5-16.5 [0.138"-0.650"]

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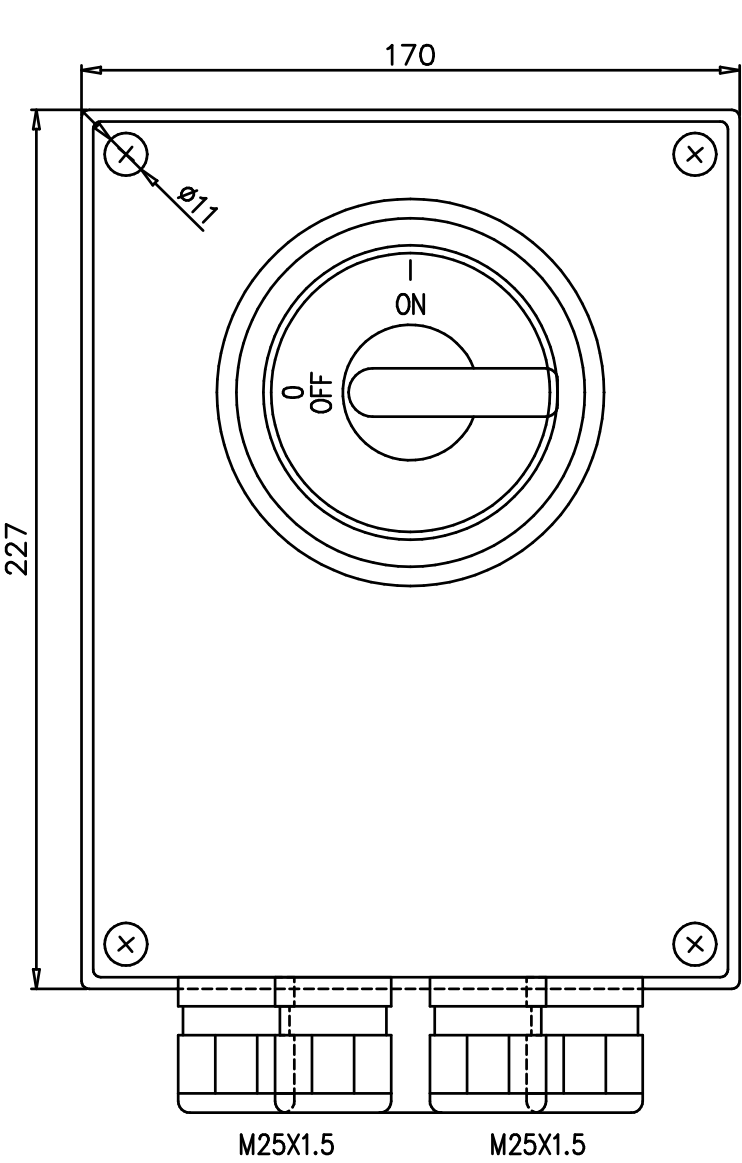
LEFT / RICHT CABINET SET IN FRAME
RADAR INSTALLATION OSS HKN TENNET



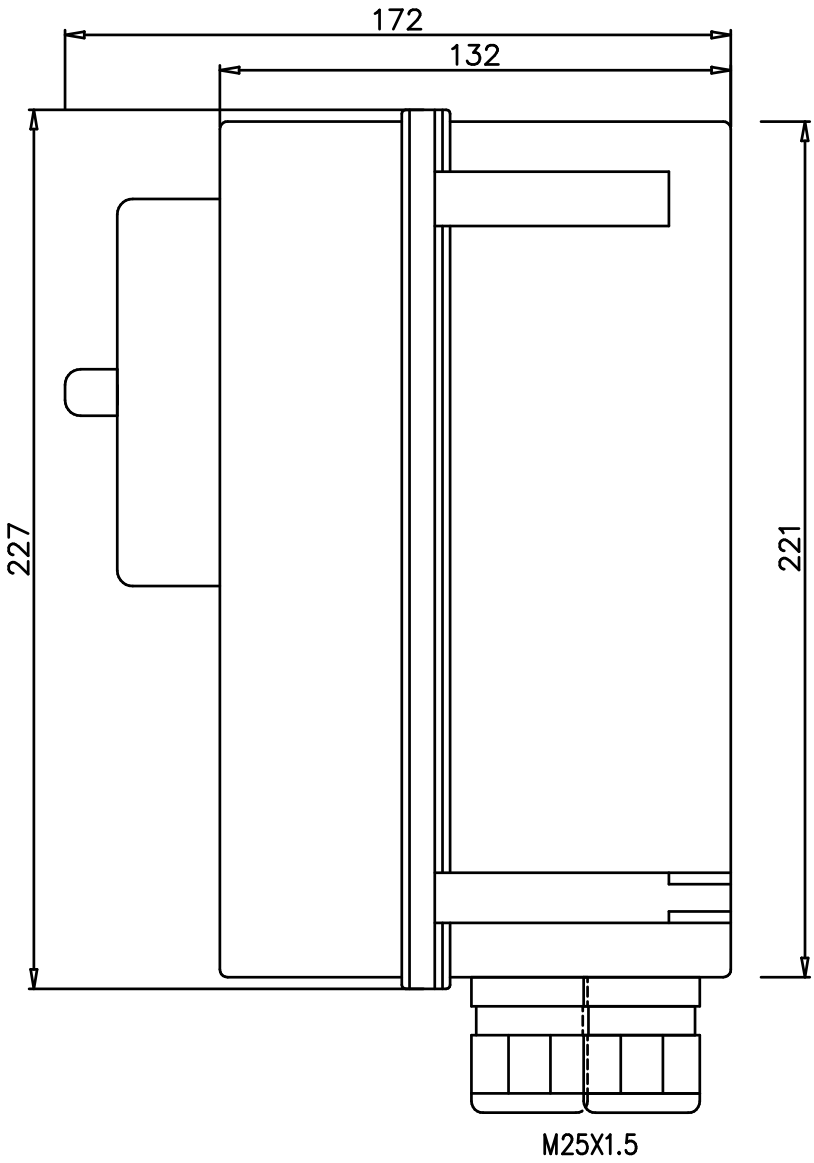
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SAFETY SWITCH NAUTICAL RADAR (6P-25A)
S30-RWS-NRA-91
INSTALLED NEARBY MANHOLE

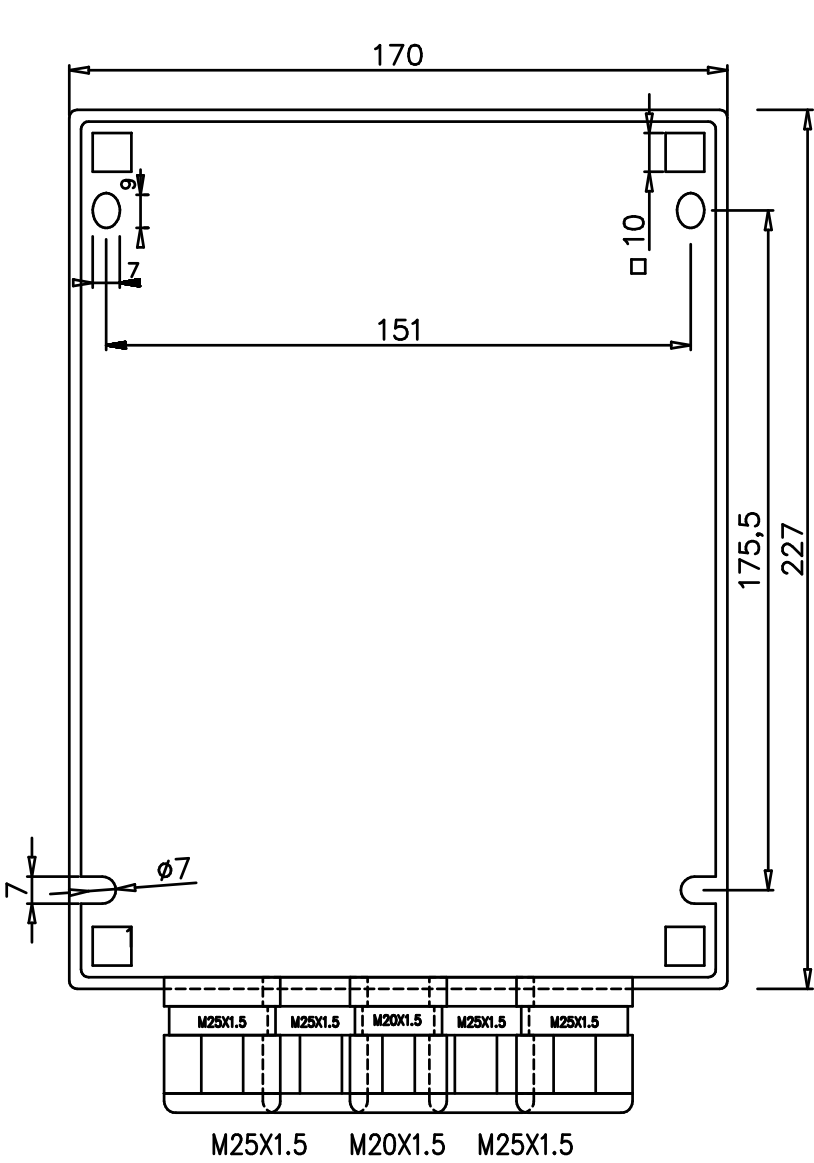
FRONT VIEW



REAR VIEW



SIDE VIEW



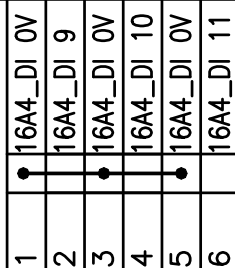
DELIVERY : Dekimo Goes B.V.
MANUFACTUR : STAHL
MODEL : 8146/5-V11-604-60-0010
INGRESS PROTECTION : IP66
MATERIAL : GRP

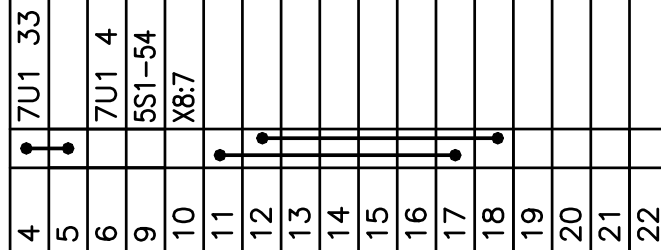
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[illegible]

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Parts list

device tag	Quantity	Description	Type number	Brand	Supplier
-CABINET	1	SS-316 cabinet - Dimension H=1600xB=1250xD=550	1801809-3	Tol b.v.	
-CABINET	1	Special surface treatment cabinet	1801809-3	Tol b.v.	
-CABINET	2	Multi cable transit	HD 32 /32	Roxtec	
-CABINET	16	Multi-diameter modules with core for cables	BGB CM20w40 2x0+3,5-16,5mm	Roxtec	
-CABINET	8	Multi-diameter modules with core for cables	BGB CM40 0+21,5-34,5mm	Roxtec	
-5U5	1	Air conditioning hood with special surface treatment	1801809-3	Tol b.v.	
-5U5	1	Protherm Outdoor switchgear air conditioner (Cooling capicity W(L35-L35) 2000-2100W / 400V/3Ph/50Hz) + accessories	CVO20002618000	Cosmotec	
-5U5	1	Stainless steel housing INOX AISI 316	OCAINO1611	Cosmotec	
-5U4	1	Display for CVO units	ACA KPD	Cosmotec	
-5U5	1	Serial port modbus	ACA SPM	Cosmotec	
-5S5	1	SZ door switch	4127010	Rittal B.V.	
-5S1	1	Mainswitch 25A 6P IP66	8006/4-025-00	Stahl	
-5S1	1	Control button include silicone seal	8602C3-730-S-90X-E08	Stahl	
5OVP1	1	OVP 400V type 3	2905230 / PLT-SEC-T3-3S-230-FM	Phoenix	
-5F2	1	Circuit breaker IC60N 6kA 4P B2A	A9F73402	Schneider	
-5K2	1	Voltage monitoring	IL9087.12 3AC50/60HZ 400/230V	Dold	
-5F3	1	Motor protection switch 4-6.3A	GV2ME10	Schneider	
-5F3	1	Motor protection Auxiliary contact (front side)	GVAE20	Schneider	
-5F5	1	Circuit breaker IC60N 6kA 3P B6A	A9F78306	Schneider	
-5F6, 5F8	2	Earth leakage circuit breaker idpn n vigi 1p + n b6 30mA	A9D56606	Schneider	
-6F1	1	Circuit breaker IC60N 6kA 1-P+N C6A	A9F79606	Schneider	
-10F1, 10F3	2	Circuit breaker IC60N 6kA 1-P+N C16A	A9F78616	Schneider	
-5F5, 5F6, 5F8, 6F1, 10F1	5	iOF Auxiliary contact	A9A26924	Schneider	
-5H6	1	SZ System lighting LED, 100-240V, with motion detector and socket outlet grounded	2500310	Rittal B.V.	
-5H6	1	SZ Connection cable (orange) for system lighting LED, 3-pole, 100-240 V, L = 3000 mm	2500400	Rittal B.V.	
-5X7	1	Socket outlet 16A	SD-D/SC	Rittal B.V.	
-5S8	1	Thermostat heating nc	ETR202	Eldon	
-5H8	1	Heater 400W	3105.390	Rittal B.V.	
-7U1	1	ACU Controller Antenne (For Nautical radar)	ACS880-01-07A2-3	ABB (Terma)	RWS
-8U1	1	Scanter 5202 Radar transceiver include accessories	5202	Terma	RWS
-10PDU1	1	Rack Power Distribution Unit (PDU)	PX3TS-5191R-N1	Raritan	RWS
-14U1, -14U8	2	Control power supply switch	PWR-IE50W-AC	Cisco	RWS
-14U2	1	Industrial Ethernet switch	IE-3000-8TC	Cisco	RWS
-20U1	1	Industrial Device Servers 1-port RS-232/422/485 en 2 RJ45	NPort IA5150A	Moxa	
-21U1	1	Fiber optic patch panel 19 "12x LC duplex (10x LC blindstop D02902)	D04103	Fockert Fiber optic technology	
	1	Splicing lade cassettes SK121	D02620 + D02621	Fockert Fiber optic technology	
	4	Splice Protectors (ANT/Sandwich),	D02602	Fockert Fiber optic technology	
	1	Splice Protector Holders ANT	D02627	Fockert Fiber optic technology	
	2	Adaptor LC duplex singlemode	D02351	Fockert Fiber optic technology	
	2	Fiber optic cable Duplex LC-LC OS1 2.0mm yellow 2mtr.	DPD0542Y020	Fockert Fiber optic technology	
-16U1	1	Control power supply 120-240V 50Hz / 60Hz 24VDC / 3,2A	DR-75-24	Mean well	
-16F3; 16F4	2	Fuse clamp screw 4mm² (5x20)	3046090 / UT 4 Hesiled	Phoenix	
-16A4	1	Active ethernet micro controller	E2210	Moxa	
-17K2	1	Interface relais	2967060 / PLC-RSC-24DC/21-21	Phoenix	
-17S2	1	Hydrostat 40-90%	ETF2000	Rittal B.V.	
-17S3	1	Thermostat temperature no	ETR201	Eldon	
-X0	4	Feed-through terminal block - UT 6	3044131	Phoenix	
-X1	10	Feed-through terminal block - UT 4	3044102	Phoenix	
-X_Heater, X9, X10	20	Feed-through terminal block - UT 2,5	3044076	Phoenix	
-X0, X1, X_Heater	2	End cover - D-UT 2,5/10	3047028	Phoenix	
-X3, X4, TB2	16	Knife disconnect terminal block - UT 2,5-MT	3046362	Phoenix	
-X3	2	Plug-in bridge - FBS 5-4 BU	3030146	Phoenix	
-X3, X4, TB2	3	End cover - D-UT 2,5/4-TWIN	3047141	Phoenix	
..	10	End clamp CLIPFIX 35-5	3022218	Phoenix	
..	1	Copper ECu 20x10 mm	220320-02010	Methen	
..	2	EARTH RAIL EB 168	568630	Erico	
W1601,W1003, W8;W12,W13	5	Patch cable; CAT 6; U/UTP; 2xRJ45; grey L=3mtr	IB8003	Intronics B.V.	
W2001	1	Patch cable; CAT 6; U/UTP; 2xRJ45; grey L=2mtr	IB8002	Intronics B.V.	

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