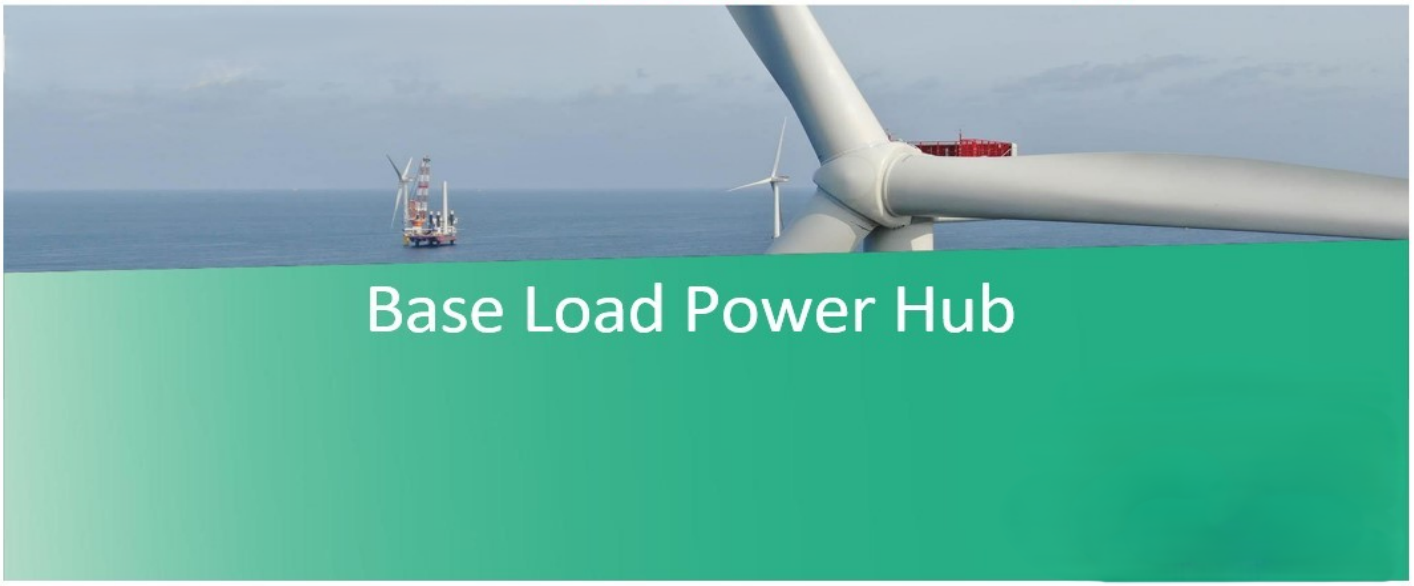
CROSSWIND

ROSETTI MARINO

PROVERUS

PROJECT **123A90 - HOLLANDSE KUST NOORD WIND PARK**
BLPH Project



COMMISSIONING DOSSIER (ONSHORE)

SYSTEM	83 Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-42 Normal Lighting Stairs/Transition Piece

CROSSWIND

123A90 - HOLLANDSE KUST NOORD WIND PARK
BLPH Project

COMMISSIONING DOSSIER INDEX

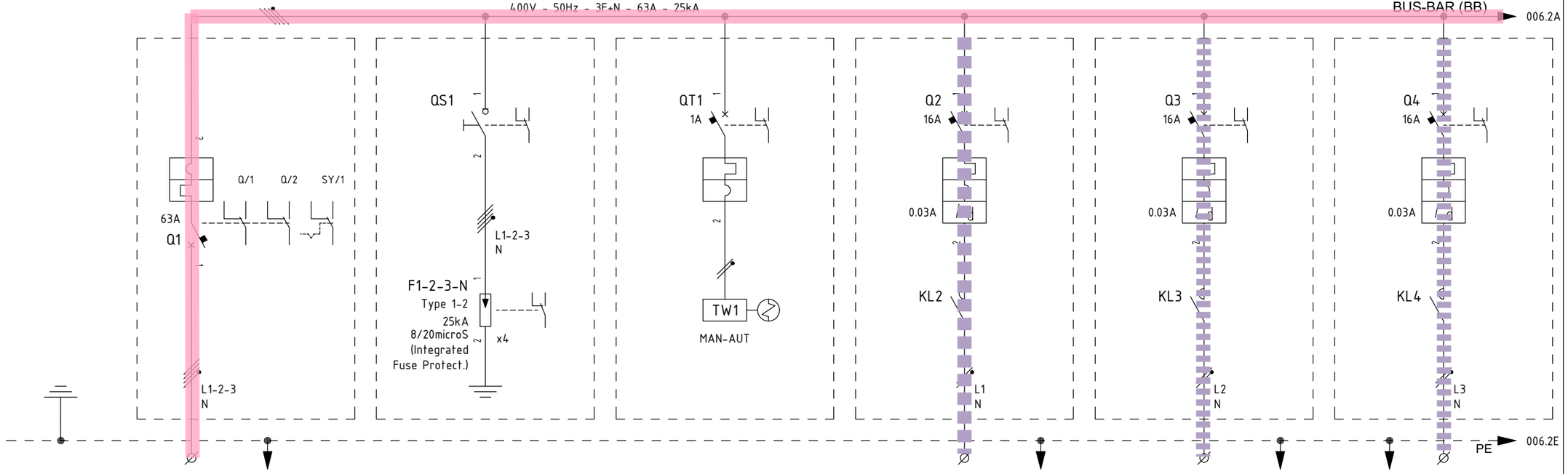
ROSETTI MARINO

Sub System N°:	83-42	**Tick as appropriate**	ONSHORE	OK
Description:	Normal Lighting Stairs/Transition Piece		OFFSHORE	

1. *SUB-SYSTEM DEFINITION*	OK
1.1 Sub-System Description / Boundary Limit Drawings	
2. *READY FOR OPERATION CERTIFICATE*	OK
2.1 Achievement Of Ready for Operation Certificate (RFO)	
2.2 Exception Punch Lists (per discipline)	
2.3 “As-Commissioned” P&ID’s / SLD’s / D&ID’s / C&E’s	
3. *CONSOLIDATED PUNCH LISTS*	OK
3.1 Cleared and Residual Items (sorted by discipline)	
4. *FUNCTIONAL TESTS SHEETS*	OK
4.1 Electrical functional test sheets index	
4.2 Electrical “As-Commissioned” interconnection diagrams	
4.3 Instrumentation Functional Test Sheets Index	
4.4 Instrumentation “As-Commissioned” interconnection diagrams	
4.5 Telecommunication Functional Test Sheets Index	
4.6 Telecommunication “As-Commissioned” I.C.D. / TSLD’s	
5. *SITE / OPERATIONAL:*	NA
5.1 Operational Test Procedure	
5.2 Operational Test Certificates	
6. *PIPING AND VESSEL PREPARATION*	NA
6.1 Final Mechanical / Vessel Inspection Checks Index	
6.2 Leak Test / Drying / Inerting Test Sheets Index	
6.3 Chemical Loading & First Fill records Index	
6.4 Chemical Cleaning Reports and Records Index	
6.5 Lubrication Schedule	
7. *VENDORS*	OK
7.1 Vendor Package Summary Index	
7.2 SAT Procedure with associated punch list and reference (Front Page)	
7.3 Vendor Spares & Special Tools lists references	
7.4 Vendor Data / Operations / Maintenance Manuals References	
8. *LIST OF MODIFICATIONS*	NA
8.1 List of changes initiated during the WORKSITE Commissioning phase pertaining to the relevant Sub-System will be incorporated in this section with relevant references (with location and position of blinds/spades, isolation LO & LC valves, list of electrical isolation status, and remaining inhibits and overrides)	
9. *SUPPORTING DOCUMENTS*	NA
9.1 Other supporting documents (as applicable)	

	Contractor Commissioning Site Leader	Company Commissioning Site Leader
Name	Anthony Iveson	Martin Taylor
Date	2025-06-18	2025-06-18
Signature	PROVERLIS Digitaly signed by Anthony Iveson 2025-06-18T13:51:03.841Z	PROVERLIS Digitaly signed by Martin Taylor 2025-06-18T13:52:49.301Z

Section 1 SUB-SYSTEM DEFINITION



ITEM			1	-				EJB-200N1-02-L1-01		EJB-200N1-03-L2-01		EJB-200N1-04-L3-01	
UTILITY			2	GENERAL INCOMING		SURGE ARRESTER		TWILIGHT SWICTH AND AUXILIARY		NORMAL LIGHTING UPPER DECK		NORMAL LIGHTING LOWER DECK		NORMAL LIGHTING STAIRS	
CUBICLE			3	+01		+01		+01		+01		+02		+02	
RATED POWER	RATED CURRENT		4/5	34.8 KW	63 A	/	/	/	/	1.5 KW	6.86 A	1 KW	4.58 A	0.2 KW	0.92 A
TYPICAL FUNCTIONAL			6	-		-		-		-		-		-	
CIRCUIT BREAKER (ABB)	TYPE		7	XT2N-160 4P		E204/100R		S302P-C1		S302P-C16 + DDA202 AC-25/0.03		S302P-C16 + DDA202 AC-25/0.03		S302P-C16 + DDA202 AC-25/0.03	
	VERSION		8	FIXED		4P / MINIATURE		2P / MINIATURE		2P / MINIATURE		2P / MINIATURE		2P / MINIAUTURE	
	TRIP UNITS		9	Ekip Dip LSI = 63A		In=100A		In=1A - Curve C		In=16A - Curve C / Id=0.03A Class AC		In=16A - Curve C / Id=0.03A Class AC		In=16A - Curve C / Id=0.03A Class AC	
	Icu	KA	10	36KA		-		25kA		25kA		25kA		25kA	
OVERLOAD	L	Range A	11	0,4 ÷1 In		-		-		-		-		-	
		Range t	12	t=k/I^2		-		-		-		-		-	
SEL. SHORT-CIRCUIT	S	Range A	13	1 ÷10 In		-		-		-		-		-	
		Range t	14	t=k / t=k/I^2		-		-		-		-		-	
INST. SHORT-CIRCUIT	I	Range A	15	1 ÷10 In		-		-		SUBSYSTEM 83-40		SUBSYSTEM 83-41		SUBSYSTEM 83-42	
		Range t	16	instantaneous		-		-							
EARTH FAULT PROTECTION	G	Range A	17	-		-		-		-		-		-	
		Range t	18	-		-		-		-		-		-	
CONTACTOR (ABB)			19	-		-		-		ESB40-20N-06; 2x22A AC3; Vaux=230Vdc/ac		ESB40-20N-06; 2x22A AC3; Vaux=230Vdc/ac		ESB40-20N-06; 2x22A AC3; Vaux=230Vdc/ac	
THERMAL OVERLOAD RELAY (ABB)			20	-		-		-		-		-		-	
SURGE ARRESTERS (DHENN)			21	-		DVCI 1 255 FM (961 205)		-		-		-		-	
TOROIDAL CURRENT TRANSFORMER (FRER)			22	-		-		-		-		-		-	
FUSE HOLDER (ABB)			23	-		-		-		-		-		-	
TWILIGHT SWITCH (ABB)			24	-		-		TL1 (2-200 LUX); Vaux=110-230Vac		-		-		-	
VOLTMETER (FRER)			25	-		-		-		-		-		-	
CURRENT TRANSFORMER FOR MEASURE (FRER)	TYPE		26	-		-		-		-		-		-	
	PERFORMANCE/CLASS		27	-		-		-		-		-		-	
VOLTAGE TRANSFORMER FOR MEASURE (FRER)	TYPE		28	-		-		-		-		-		-	
	PERFORMANCE/CLASS		29	-		-		-		-		-		-	
POWER TERM. BLOCK (CABUR)		Type/mm²	30	SCREW / 16		-		-		SCREW / 4		SCREW / 4		SCREW / 4	
POWER CONDUCTOR		mm²	31	5G16		-		-		3G4		3G4		3G4	

CROSSWIND

IMESA ELECTRICAL ENGINEERING

ROSETTI MARINO

DWG n° : 231298/SD/13

Item n° : PF1002888/101

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
=					
+					
3	05/07/2024	Santinelli	Flamminio	Sigismondi	Accepted for construction (AFC)
2	24/04/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)
1	15/03/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)
0	08/02/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)

TITLE : "DP-200N1"

SINGLE LINE DIAGRAM

Single Line Drawing

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00013

SHEET 005

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00013 Rev. 03

Section 2 READY FOR OPERATION

Section 2.1 Achievement Of Ready for Operation Certificate (RFO)

ROSETTI MARINO

123A90 - HOLLANDSE KUST NOORD WIND PARK
BLPH Project

CROSSWIND

Ready For Operation (RFO) Certificate

COMPLETE	●	PARTIAL	

Revision:	2		Issued on:	2025-06-05	
System:	83	/	Main Power Distribution Low Voltage 440 V		
SubSystem:	83-42	/	Normal Lighting Stairs/Transition Piece		

We hereby confirm that all Mechanical Completion (MC) and Pre-Commissioning/Commissioning (Pre-Comm./Comm.) activities for the above-mentioned System/Sub-System have been successfully completed in accordance with project specifications, relevant standards and contractual requirements. The System/Sub-System has been tested and verified to ensure readiness for operation. Issuance of this Certificate shall not release CONTRACTOR from any of his obligations, responsibilities or liabilities under the CONTRACT.

Mechanical Completion: All required MC activities have been completed and approved
Pre-Commissioning & Commissioning: All required Pre-Comm. and Comm. activities and OTPs have been completed and approved (Status Index attached)
Punch List: All Punch items categorized as A and B have been cleared (PL report attached)
Documentation: As-built documentation and Commissioning dossier has been completed, reviewed and approved

PUNCH LIST	PENDING POINTS
Note: All Category "A" and "B" Items must be cleared prior to issuance of the Ready For Operation (RFO) Certificate	B '0

REMARKS:

	CONTRACTOR Commissioning Manager	**COMPANY** Commissioning Lead
Name	Anthony Iveson	Martin Taylor
Date	2025-06-05	2025-06-18
Signature	PROVERLIS Digitaly signed by Anthony Iveson 2025-06-05T12:09:18.106Z	PROVERLIS Digitaly signed by Martin Taylor 2025-06-18T10:21:45.179Z

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 83-42 & process: COMM

Electrical	83-42 Normal Lighting Stairs/Transition Piece						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
DP-200N1-Q4	NORMAL LIGHT STAIRSSPAREDP-200N1-Q4	ONSHORE	C10002902	FP18	100	2025-02-04	RFO 2
		ONSHORE	C10004954	FP21	100	2025-06-05	RFO 2

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	83	Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-42	Normal Lighting Stairs/Transition Piece

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30003109	A	ELF-200N1-04-L3-01 C10001315	Missing earthing cable outside the (ELF-200N1-04-L3-01).See attached photo.	.		Gtangianu 2025-01-20	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30003121	A	P-ELF-200N1-04-L3-01 C10000812	Missing earthing cable on the secondary cabletray. See attached photo.	.		Gtangianu 2025-01-21	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30003128	A	P-ELF-200N1-04-L3-02 C10000813	Not enought threads are thightened between the lock nut and the cable gland body on JB side. See attached photo.	.		Gtangianu 2025-01-21	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30003130	A	P-ELF-200N1-04-L3-02 C10000813	Missing earthing cable on the cabletray. See attached photo.	.		Gtangianu 2025-01-21	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30001146	B	P-EJB-200N1-04-L3-01 C10000600	Missing SS cable tag	.		Pschintu 2024-12-03	2025-02-04	Pschintu 2025-02-04	2025-02-04
C30003110	B	ELF-200N1-04-L3-01 C10001315	Not installed certificate plug on the lamp. See attached photo.	.		Gtangianu 2025-01-20	2025-02-06	GBertuccelli 2025-02-06	2025-02-06
C30003122	B	P-ELF-200N1-04-L3-01 C10000812	Missing cable tag side the (EJB-200N1-04-L3-01.)See attached photo.	.		Gtangianu 2025-01-21	2025-01-31	GBertuccelli 2025-01-31	2025-01-31
C30003132	B	P-ELF-200N1-04-L3-02 C10000813	Cable needs to be better dressed side rack JB. See attached photo.	.		Gtangianu 2025-01-21	2025-02-04	Gtangianu 2025-02-04	2025-02-04
C30003135	B	EJB-200N1-04-L3-02 C10001219	Not enought threads are thightened on plug	.		Gtangianu 2025-01-21	2025-02-21	Gtangianu 2025-02-21	2025-02-21

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	83	Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-42	Normal Lighting Stairs/Transition Piece

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30003136	B	P-EJB-200N1-04-L3-02 C10000814	Missing identification cable tags both side the cable	.		Gtangianu 2025-01-21	2025-01-31	GBertuccelli 2025-01-31	2025-01-31
C30003174	B	ELF-200N1-04-L3-02 C10001314	Not installed trafolite tag.	.		Gtangianu 2025-01-23	2025-01-31	GBertuccelli 2025-01-31	2025-01-31
C30004244	B	EPH-200N1-01 C10002371	Missing trafolite tag on the EPH-200N1-01.	.		Gtangianu 2025-03-13	2025-03-26	Gtangianu 2025-03-26	2025-03-26
C30004245	B	EPH-200N1-01 C10002371	THE DOCUMENT 123A90-DDL-EL-DG-20149 sheet_047 Rev2_k need to be update. See attached photo to reference field installation.	.		Gtangianu 2025-03-13	2025-03-26	Gtangianu 2025-03-26	2025-03-26
C30004246	B	P-EPH-200N1-01 C10002347	Missing cable tag side the EPH-200N1-01.See attached photo.	.		Gtangianu 2025-03-13	2025-04-04	Gtangianu 2025-04-04	2025-04-04
C30004247	B	P-EPH-200N1-01 C10002347	Missing identification wire inside the EPH-200N1-01.See attached photo.	.		Gtangianu 2025-03-13	2025-04-08	Gtangianu 2025-04-08	2025-04-08

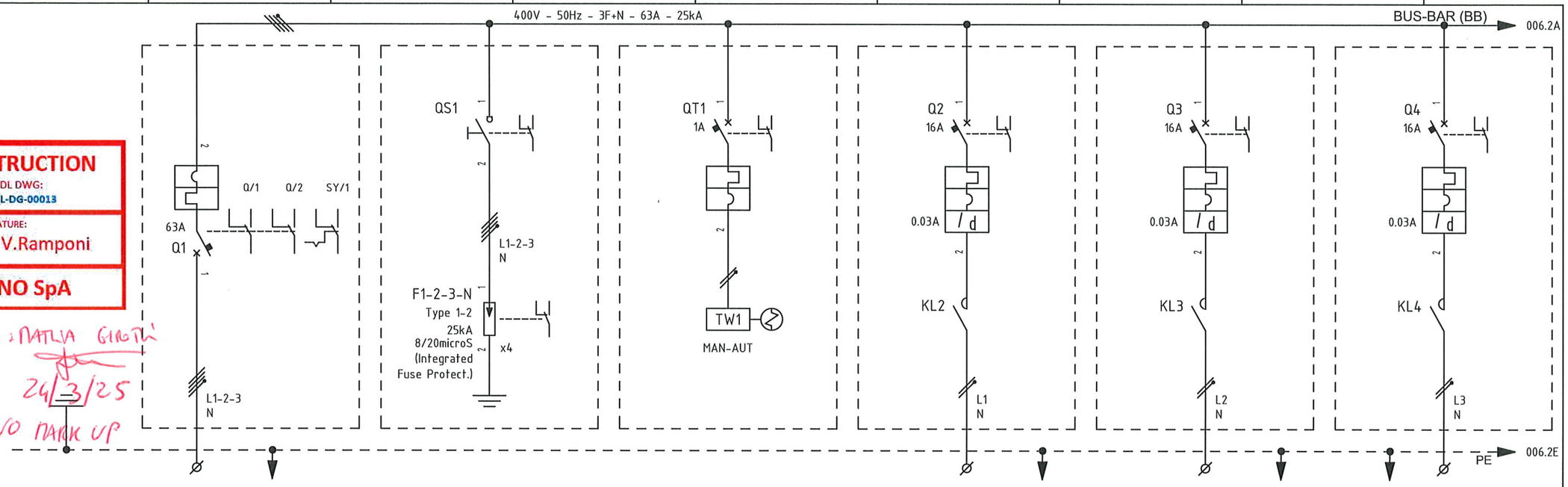
Section 2.2 Exception Punch Lists (per discipline)

Project CROSSWIND

PUNCH LIST REPORT

NO DATA AVAILABLE

Section 2.3 “As-Commissioned” P&ID's / SLD's / D&ID's / C&E's



VALID FOR CONSTRUCTION

VENDOR DOCUMENT - FDL DWG:
123A90-FDL-1723002197-EL-DG-00013

REV.:	DATE:	SIGNATURE:
4_A	18/12/24	V.Ramponi

ROSETTI MARINO SpA

AS COMMISSIONED : NATLIA GIROTTI
24/3/25
NO MARK UP

ITEM			1	-		-		-		EJB-200N1-02-L1-01		EJB-200N1-03-L2-01		EJB-200N1-04-L3-01	
UTILITY			2	GENERAL INCOMING		SURGE ARRESTER		TWILIGHT SWICTH AND AUXILIARY		NORMAL LIGHTING UPPER DECK		NORMAL LIGHTING LOWER DECK		NORMAL LIGHTING STAIRS	
CUBICLE			3	+01		+01		+01		+01		+02		+02	
RATED POWER	RATED CURRENT		4/5	34.8 KW	63 A	/	/	/	/	1.5 KW	6.86 A	1 KW	4.58 A	0.2 KW	0.92 A
TYPICAL FUNCTIONAL			6	-		-		-		-		-		-	
CIRCUIT BREAKER (ABB)	TYPE		7	XT2N-160 4P		E204/100R		S302P-C1		S302P-C16 + DDA202 AC-25/0.03		S302P-C16 + DDA202 AC-25/0.03		S302P-C16 + DDA202 AC-25/0.03	
	VERSION		8	FIXED		4P / MINIATURE		2P / MINIATURE		2P / MINIATURE		2P / MINIATURE		2P / MINIAUTURE	
	TRIP UNITS		9	Ekip Dip LSI = 63A		In=100A		In=1A - Curve C		In=16A - Curve C / Id=0.03A Class AC		In=16A - Curve C / Id=0.03A Class AC		In=16A - Curve C / Id=0.03A Class AC	
	Icu	KA	10	36KA		-		25kA		25kA		25kA		25kA	
OVERLOAD	L	Range A	11	0,4 ÷1 In		-		-		-		-		-	
		Range t	12	t=k/I^2		-		-		-		-		-	
SEL. SHORT-CIRCUIT	S	Range A	13	1 ÷10 In		-		-		-		-		-	
		Range t	14	t=k / t=k/I^2		-		-		-		-		-	
INST. SHORT-CIRCUIT	I	Range A	15	1 ÷10 In		-		-		-		-		-	
		Range t	16	instantaneous		-		-		-		-		-	
EARTH FAULT PROTECTION	G	Range A	17	-		-		-		-		-		-	
		Range t	18	-		-		-		-		-		-	
CONTACTOR (ABB)			19	-		-		-		ESB40-20N-06; 2x22A AC3; Vaux=230Vdc/ac		ESB40-20N-06; 2x22A AC3; Vaux=230Vdc/ac		ESB40-20N-06; 2x22A AC3; Vaux=230Vdc/ac	
THERMAL OVERLOAD RELAY (ABB)			20	-		-		-		-		-		-	
SURGE ARRESTERS (DHENN)			21	-		DVCI 1 255 FM (961 205)		-		-		-		-	
TOROIDAL CURRENT TRANSFORMER (FRER)			22	-		-		-		-		-		-	
FUSE HOLDER (ABB)			23	-		-		-		-		-		-	
TWILIGHT SWITCH (ABB)			24	-		-		TL1 (2-200 LUX); Vaux=110-230Vac		-		-		-	
VOLTMETER (FRER)			25	-		-		-		-		-		-	
CURRENT TRANSFORMER FOR MEASURE (FRER)	TYPE		26	-		-		-		-		-		-	
	PERFORMANCE/CLASS		27	-		-		-		-		-		-	
VOLTAGE TRANSFORMER FOR MEASURE (FRER)	TYPE		28	-		-		-		-		-		-	
	PERFORMANCE/CLASS		29	-		-		-		-		-		-	
POWER TERM. BLOCK (CABUR)		Type/mm²	30	SCREW / ~~16~~ CBD-35		-		-		SCREW / 4		SCREW / 4		SCREW / 4	
POWER CONDUCTOR		mm²	31	~~5G16~~ 5G50		-		-		3G4		3G4		3G4	

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DWG n° : 231298/SD/13
Item n° : PF1002888/101

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
4	18/09/2024	Santinelli	Flamminio	Sigismondi	As Built (ASB)
3	05/07/2024	Santinelli	Flamminio	Sigismondi	Accepted for construction (AFC)
2	24/04/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)
1	15/03/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)
0	08/02/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)

TITLE : "DP-200N1"
SINGLE LINE DIAGRAM
Single Line Drawing

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00013

SHEET 005

REV. 04

File Name : 1723002197-EL-DG-00013 Rev. 04

F.to UNI A3: 420mmx297mm

Section 3 CONSOLIDATED PUNCH LISTS

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	83	Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-42	Normal Lighting Stairs/Transition Piece

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30003109	A	ELF-200N1-04-L3-01 C10001315	Missing earthing cable outside the (ELF-200N1-04-L3-01).See attached photo.	.		Gtangianu 2025-01-20	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30003121	A	P-ELF-200N1-04-L3-01 C10000812	Missing earthing cable on the secondary cabletray. See attached photo.	.		Gtangianu 2025-01-21	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30003128	A	P-ELF-200N1-04-L3-02 C10000813	Not enought threads are thightened between the lock nut and the cable gland body on JB side. See attached photo.	.		Gtangianu 2025-01-21	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30003130	A	P-ELF-200N1-04-L3-02 C10000813	Missing earthing cable on the cabletray. See attached photo.	.		Gtangianu 2025-01-21	2025-01-24	GBertuccelli 2025-01-24	2025-01-24
C30001146	B	P-EJB-200N1-04-L3-01 C10000600	Missing SS cable tag	.		Pschintu 2024-12-03	2025-02-04	Pschintu 2025-02-04	2025-02-04
C30003110	B	ELF-200N1-04-L3-01 C10001315	Not installed certificate plug on the lamp. See attached photo.	.		Gtangianu 2025-01-20	2025-02-06	GBertuccelli 2025-02-06	2025-02-06
C30003122	B	P-ELF-200N1-04-L3-01 C10000812	Missing cable tag side the (EJB-200N1-04-L3-01.)See attached photo.	.		Gtangianu 2025-01-21	2025-01-31	GBertuccelli 2025-01-31	2025-01-31
C30003132	B	P-ELF-200N1-04-L3-02 C10000813	Cable needs to be better dressed side rack JB. See attached photo.	.		Gtangianu 2025-01-21	2025-02-04	Gtangianu 2025-02-04	2025-02-04
C30003135	B	EJB-200N1-04-L3-02 C10001219	Not enought threads are thightened on plug	.		Gtangianu 2025-01-21	2025-02-21	Gtangianu 2025-02-21	2025-02-21

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	83	Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-42	Normal Lighting Stairs/Transition Piece

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30003136	B	P-EJB-200N1-04-L3-02 C10000814	Missing identification cable tags both side the cable	.		Gtangianu 2025-01-21	2025-01-31	GBertuccelli 2025-01-31	2025-01-31
C30003174	B	ELF-200N1-04-L3-02 C10001314	Not installed trafolite tag.	.		Gtangianu 2025-01-23	2025-01-31	GBertuccelli 2025-01-31	2025-01-31
C30004244	B	EPH-200N1-01 C10002371	Missing trafolite tag on the EPH-200N1-01.	.		Gtangianu 2025-03-13	2025-03-26	Gtangianu 2025-03-26	2025-03-26
C30004245	B	EPH-200N1-01 C10002371	THE DOCUMENT 123A90-DDL-EL-DG-20149 sheet_047 Rev2_k need to be update. See attached photo to reference field installation.	.		Gtangianu 2025-03-13	2025-03-26	Gtangianu 2025-03-26	2025-03-26
C30004246	B	P-EPH-200N1-01 C10002347	Missing cable tag side the EPH-200N1-01.See attached photo.	.		Gtangianu 2025-03-13	2025-04-04	Gtangianu 2025-04-04	2025-04-04
C30004247	B	P-EPH-200N1-01 C10002347	Missing identification wire inside the EPH-200N1-01.See attached photo.	.		Gtangianu 2025-03-13	2025-04-08	Gtangianu 2025-04-08	2025-04-08

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001146

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000600	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-04-L3-01		Lighting & Small Power DB BoP / Normal Lighting - Stairs
1.3 Subsystem	83-42		Normal Lighting Stairs/Transition Piece

2 - OBSERVATION

Missing SS cable tag

Name: Paolo Schintu

Date: 2024-12-03

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Paolo Schintu
3.4 Activity code	MC Mechanical Completion	Date	2024-12-03
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Paolo Schintu

Date: 2025-02-04

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003109

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001315	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-04-L3-01	NORMAL LIGHT	
1.3 Subsystem	83-42	Normal Lighting Stairs/Transition Piece	

2 - OBSERVATION

Missing earthing cable outside the (ELF-200N1-04-L3-01).See attached photo.

Name: Giovanni Tangianu

Date: 2025-01-20

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-01-20
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-24

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003110

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001315	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-04-L3-01	NORMAL LIGHT	
1.3 Subsystem	83-42	Normal Lighting Stairs/Transition Piece	

2 - OBSERVATION

Not installed certificate plug on the lamp. See attached photo.

Name: Giovanni Tangianu

Date: 2025-01-20

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-01-20
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-02-06

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003121

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000812	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-04-L3-01	Stair Normal Lighting JB / Stair Normal Lighting Fixture	
1.3 Subsystem	83-42	Normal Lighting Stairs/Transition Piece	

2 - OBSERVATION

Missing earthing cable on the secondary cabletray. See attached photo.

Name: Giovanni Tangianu

Date: 2025-01-21

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-01-21
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-24

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003122

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000812	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-04-L3-01	Stair Normal Lighting JB / Stair Normal Lighting Fixture	
1.3 Subsystem	83-42	Normal Lighting Stairs/Transition Piece	

2 - OBSERVATION

Missing cable tag side the (EJB-200N1-04-L3-01.)See attached photo.

Name: Giovanni Tangianu

Date: 2025-01-21

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-01-21
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-31

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003128

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000813	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-04-L3-02	Stair Normal Lighting Fixture / Stair Normal Lighting Fixture	
1.3 Subsystem	83-42	Normal Lighting Stairs/Transition Piece	

2 - OBSERVATION

Not enought threads are thightened between the lock nut and the cable gland body on JB side.
See attached photo.

Name: Giovanni Tangianu
Date: 2025-01-21
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-01-21
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

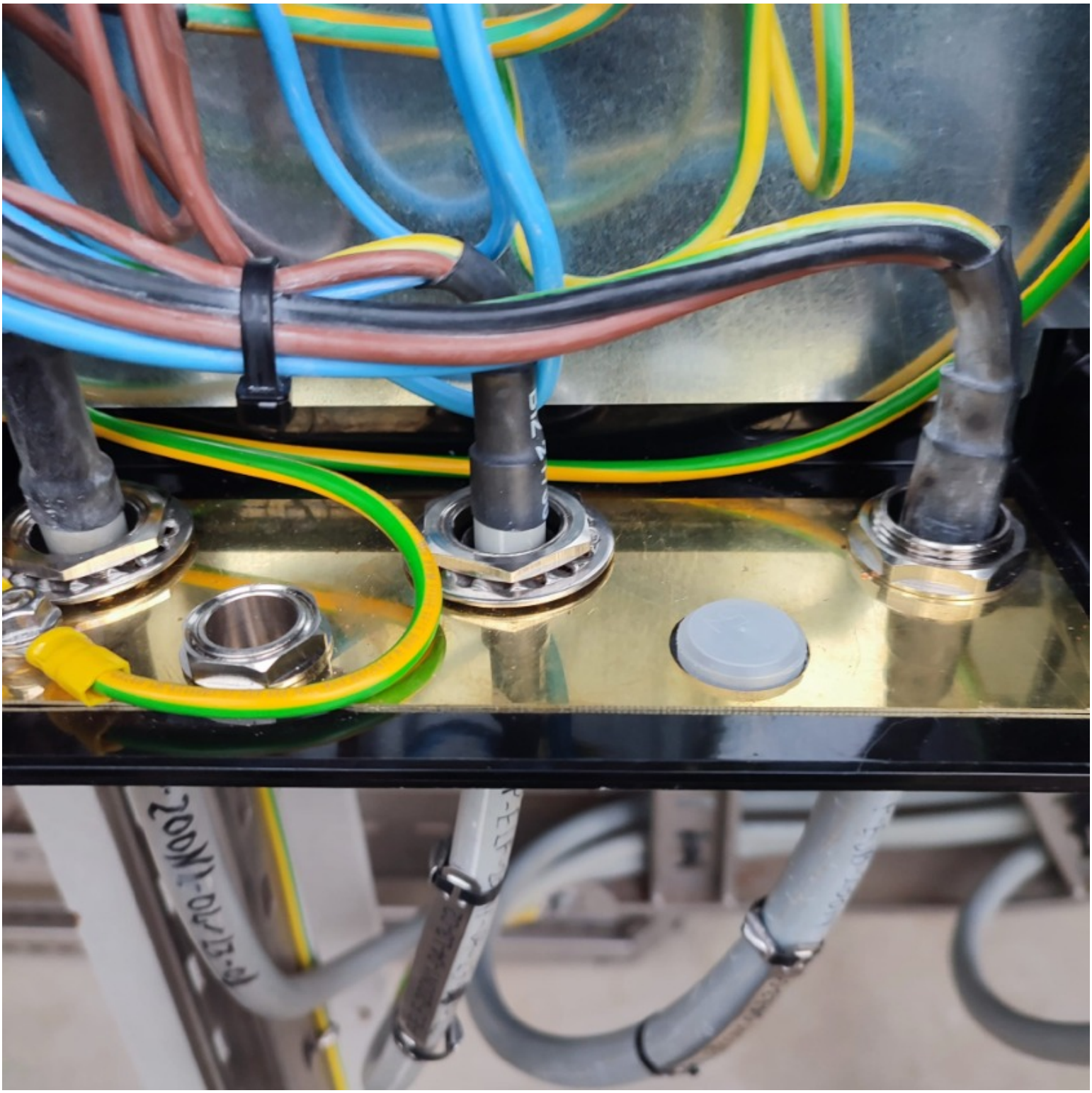
5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli
Date: 2025-01-24
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003130

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000813	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-04-L3-02	Stair Normal Lighting Fixture / Stair Normal Lighting Fixture	
1.3 Subsystem	83-42	Normal Lighting Stairs/Transition Piece	

2 - OBSERVATION

Missing earthing cable on the cabletray. See attached photo.

Name: Giovanni Tangianu

Date: 2025-01-21

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-01-21
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-24

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

P-63B-200N-04-23-02

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003132

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000813	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-04-L3-02	Stair Normal Lighting Fixture / Stair Normal Lighting Fixture	
1.3 Subsystem	83-42	Normal Lighting Stairs/Transition Piece	

2 - OBSERVATION

Cable needs to be better dressed side rack JB. See attached photo.

Name: Giovanni Tangianu

Date: 2025-01-21

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-01-21
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

cable is properly dressed.

Name: Giovanni Tangianu

Date: 2025-02-04

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003135

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001219	1.4 Discipline	Electrical
1.2 Item	EJB-200N1-04-L3-02	JB - NORMAL LIGHTING	
1.3 Subsystem	83-42	Normal Lighting Stairs/Transition Piece	

2 - OBSERVATION

Not enought threads are thightened on plug

Name: Giovanni Tangianu

Date: 2025-01-21

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-01-21
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-02-21

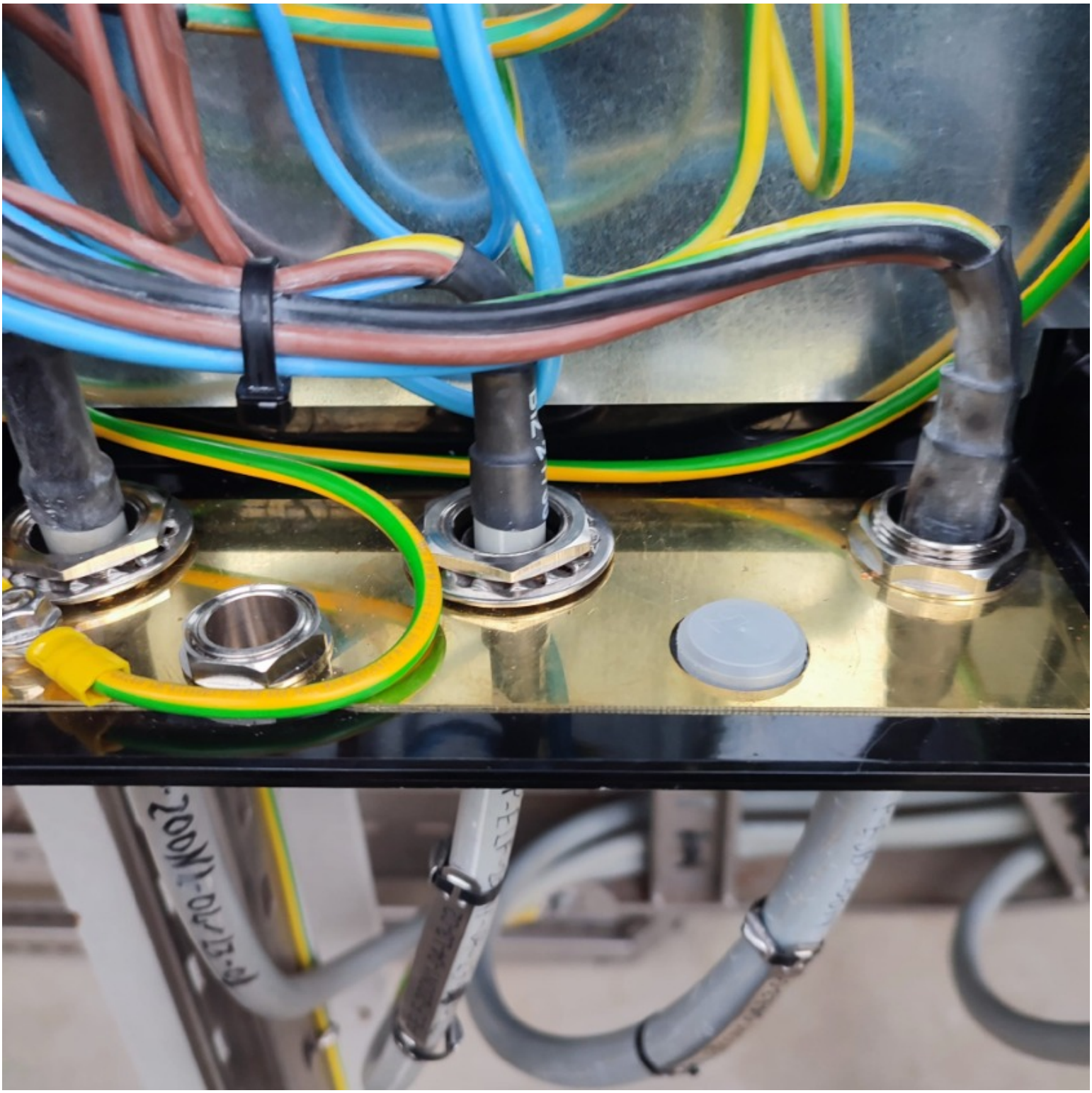
Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003136

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000814	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-04-L3-02	Stair Normal Lighting JB / Stair Normal Lighting JB	
1.3 Subsystem	83-42	Normal Lighting Stairs/Transition Piece	

2 - OBSERVATION

Missing identification cable tags both side the cable

Name: Giovanni Tangianu

Date: 2025-01-21

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-01-21
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-31

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

P-63B-200N-04-23-02

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003174

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001314	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-04-L3-02	NORMAL LIGHT	
1.3 Subsystem	83-42	Normal Lighting Stairs/Transition Piece	

2 - OBSERVATION

Not installed trafolite tag.

Name: Giovanni Tangianu

Date: 2025-01-23

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-01-23
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-31

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004244

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002371	1.4 Discipline	Electrical
1.2 Item	EPH-200N1-01	Twilight Relay Sensor	
1.3 Subsystem	83-42	Normal Lighting Stairs/Transition Piece	

2 - OBSERVATION

Missing trafolite tag on the EPH-200N1-01.

Name: Giovanni Tangianu

Date: 2025-03-13

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-03-13
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-03-26

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004245

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002371	1.4 Discipline	Electrical
1.2 Item	EPH-200N1-01	Twilight Relay Sensor	
1.3 Subsystem	83-42	Normal Lighting Stairs/Transition Piece	

2 - OBSERVATION

THE DOCUMENT 123A90-DDL-EL-DG-20149 sheet_047 Rev2_k need to be update. See attached photo to reference field installation.

Name: Giovanni Tangianu

Date: 2025-03-13

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-03-13
3.5 Action by	ENG Engineering	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Done.

Name: Giovanni Tangianu

Date: 2025-03-26

Signature:

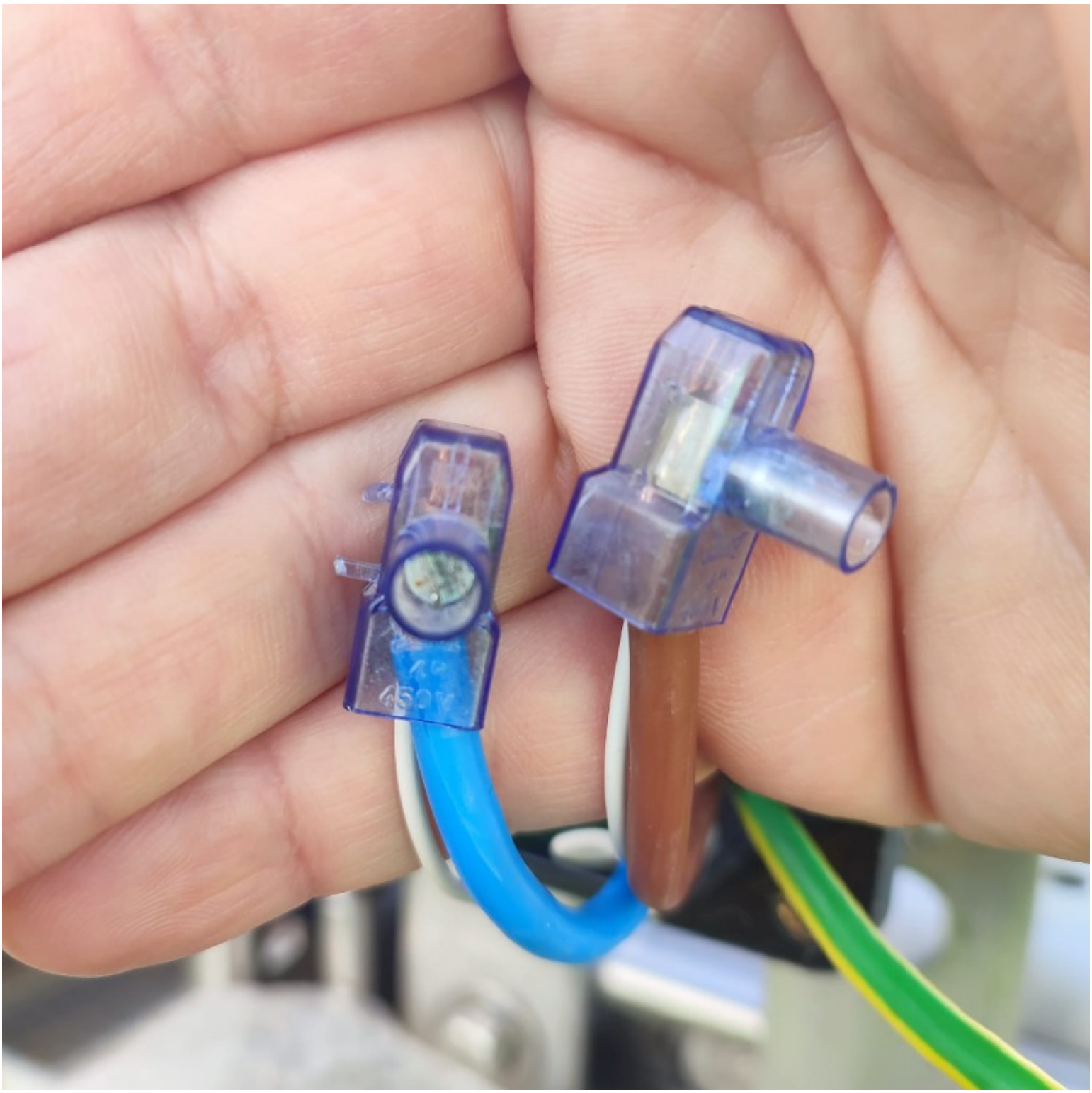
6- CLEARANCE APPROVAL

Name:

Date:

Signature:


Palazzoli
via Palazzoli 31, 25128 Brescia Italy
2024W41
532035EX
8W -40°C≤Ta≤+40°C IP66
0051
II 2G
II 2D
TÜV IT 14 ATEX 093 U
Ex eb IIC Gb
Ex tb IIIC Db
IECEx EXA 15.0009U




finder
011.03


Palazzoli
Palazzoli
Made in Italy
via Palazzoli, 31 - 25128 - Brescia Italy
532035EX


10:41
74%
TG
Tangianu Giovan...
marzo 13, 2025
external lug earthing .
EJB-200N1-10-L3-03

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004246

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002347	1.4 Discipline	Electrical
1.2 Item	P-EPH-200N1-01		LV 0,4 / 0,23 kV Distribution Switchgear / Twilight Relay Sensor
1.3 Subsystem	83-42		Normal Lighting Stairs/Transition Piece

2 - OBSERVATION

Missing cable tag side the EPH-200N1-01.See attached photo.

Name: Giovanni Tangianu

Date: 2025-03-13

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-03-13
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-04-04

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


ELF-200N1-10-L3-
REDMI NOTE 13
13/03/2025 10:51

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004247

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002347	1.4 Discipline	Electrical
1.2 Item	P-EPH-200N1-01		LV 0,4 / 0,23 kV Distribution Switchgear / Twilight Relay Sensor
1.3 Subsystem	83-42		Normal Lighting Stairs/Transition Piece

2 - OBSERVATION

Missing identification wire inside the EPH-200N1-01.See attached photo.

Name: Giovanni Tangianu

Date: 2025-03-13

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-03-13
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date: 2025-04-08

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-04-08

Signature:

6- CLEARANCE APPROVAL

Name:

Date: 2025-04-08

Signature:


ELF-200N1-10-L3-
REDMI NOTE 13
13/03/2025 10:51

Section 4 FUNCTIONAL TESTS SHEETS

Section 4.1 Electrical functional test sheets index

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 83-42 & process: COMM & discipline : E

Electrical	83-42 Normal Lighting Stairs/Transition Piece						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
DP-200N1-Q4	NORMAL LIGHT STAIRSSPAREDP-200N1-Q4	ONSHORE	C10002902	FP18	100	2025-02-04	RFO 2
		ONSHORE	C10004954	FP21	100	2025-06-05	RFO 2

ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	DP-200N1-Q4	: NORMAL LIGHT STAIRSSPAREDP-200N1-Q4	Dwg	1723002197-EL-DG-00013		
	S/Sys	83-42	: Normal Lighting Stairs/Transition Piece	Module			
TASK	code	C10002902	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	PRE-COMM	Activity	FTS	Discipline	Electrical	Form	FP18	Lighting & Small Power

Circuit Data

Circuit N° DP-200N1-Q4

Luminaire quantity: 2 Luminaire type: LIFEX-MN-0645-BB

FUNCTION TEST REQUIREMENT

1	Check MC activities have been carried out (refer to check list and test sheet).		OK
2	Check equipments for cleaness.		OK
3	Measure Insulation resistance of equipments and feeder cable at 500V. Minimum value: 10 Mohm	MΩ	Note
4	Energise		OK
5	Test earth leakage protection operation (if any)		OK

FOR LIGHTING CIRCUITS ONLY

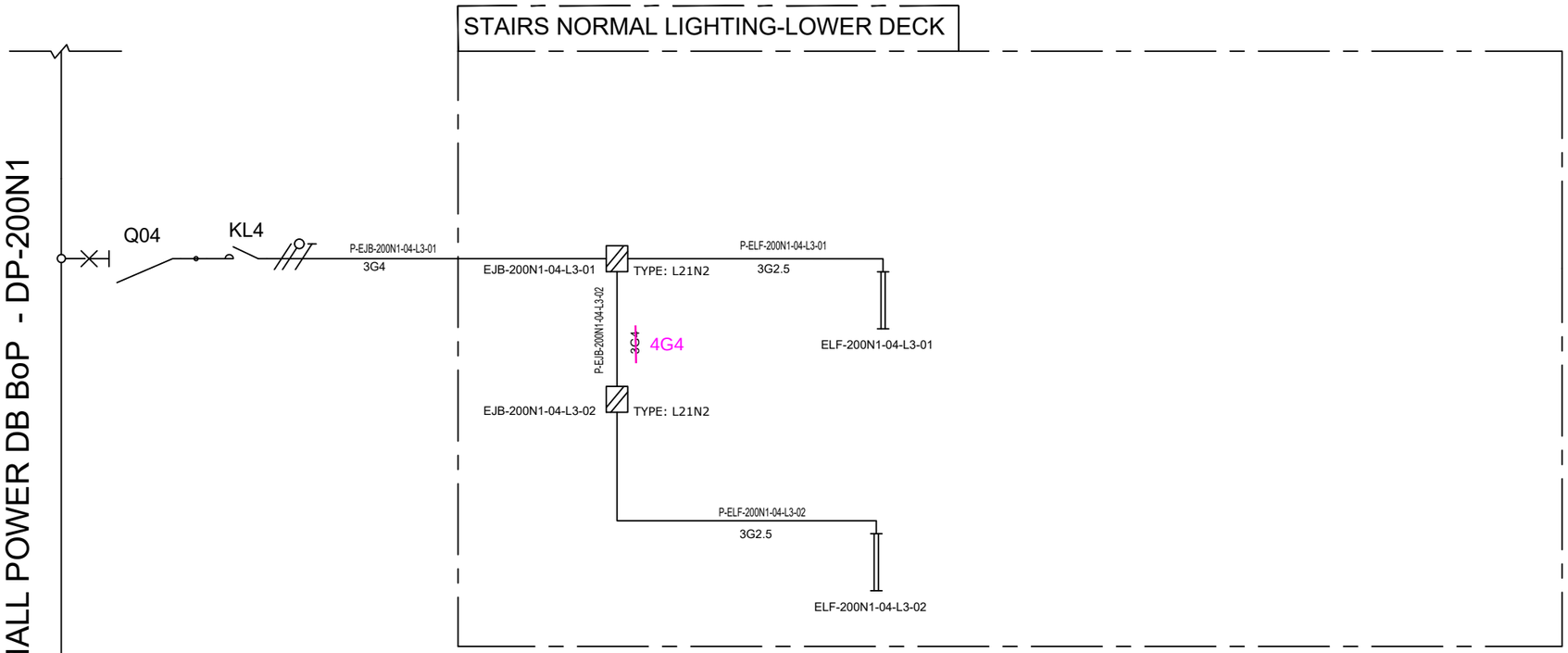
6	Measure full load current of each lighting circuit		A	Note
7	Switch off power supply of self contained battery back-up fittings / record time that lamps remains illuminated.			NA
8	Test automatic switching device (if any)			OK
9	Emergency light autonomy	1h	1h 30min	3h	

Testing & measurement instruments used

Type	Serial n°	Calibration certificate	Validity
FLUKE 1663	5380144	7727/24	10/07/2025
FLUKE 376	A1711003	7710/24	10/07/2025

Comments:
NOTE POINT 3: Test is ok. The measure of Insulation resistance is >200MOhm
NOTE POINT 5: Test is ok. The result of test is: 21mA and 50 ms.
NOTE POINT 6: Test is ok. The result is 0.3A

	Performed by	☐ WITNESS ☉ REVIEW	☐ WITNESS ☐ REVIEW
Company	RM COMM	RM COMM	CPY NOT PRESENT
Name	Mattia Girotti	Kristian Castellani	Witness waived
Date	2025-02-03	2025-02-04	2025-02-04
Signature	Digitaly signed by Mattia Girotti 2025-02-03T12:50:43.151Z	Digitaly signed by Kristian Castellani 2025-02-04T10:39:17.177Z	Digitaly signed by Witness waived 2025-02-04T13:36:36.856Z



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_H	24/01/25	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
STAIRS NORMAL LIGHTING (LOWER DECK ONLY)

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20125

SHEET 006

REV. 01

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

ITEM	Tag	DP-200N1-Q4	: NORMAL LIGHT STAIRSSPAREDP-200N1-Q4			Dwg	1723002197-EL-DG-00013
	S/Sys	83-42	: Normal Lighting Stairs/Transition Piece			Module	
TASK	code	C10004954		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	COMM	Activity FTS	Discipline	Electrical	Form	FP21
							Test Record Norm & Emerg Lighting LUX Measurements

The required illumination levels, measured at the working plane (0.8m) or 1m above the floor level in a horizontal plane, shall be as given in the table below except walkways and escape routes:
For walkways and escape routes calculation surfaces must be at the elevation 0.00m.
The illumination level indicated in the below table shall be used as a basis for the design of new installations unless higher illumination levels are required by national or local regulations in the country of installation.
The illumination levels apply when the luminaries are dirty: i.e. after taking account of the following fouling factors:

- Fouling factor of 0.80 for all plant areas and for outdoor non-plant areas;
- Fouling factor of 0.85 for indoor non-plant areas.

Location	Emean (LUX)	Notes
Control Rooms		
General, including front of panel	300-500	See note 1
Rear of panels	50	
Auxiliary rooms	150/300	See note 2
Outdoor near entrances	150	
Plant Areas		
Operating areas requiring operator intervention (pumps, compressors, valves, manifolds, loading arms)	150	
Local control and monitoring points (Indicating instruments, gauges and control devices)	75	
Level gauges (see-through) to be lit from behind by single tube fluorescent luminaries		
Access ways (walk ways, platforms, stairways, ladders, module roofs)	25	
Non-operational areas with limited attendance, e.g. tank farms without equipment requiring regular operator intervention	0.5	
Non-Plant Areas		
Switchrooms, including relay and auxiliary rooms	200	

Notes:

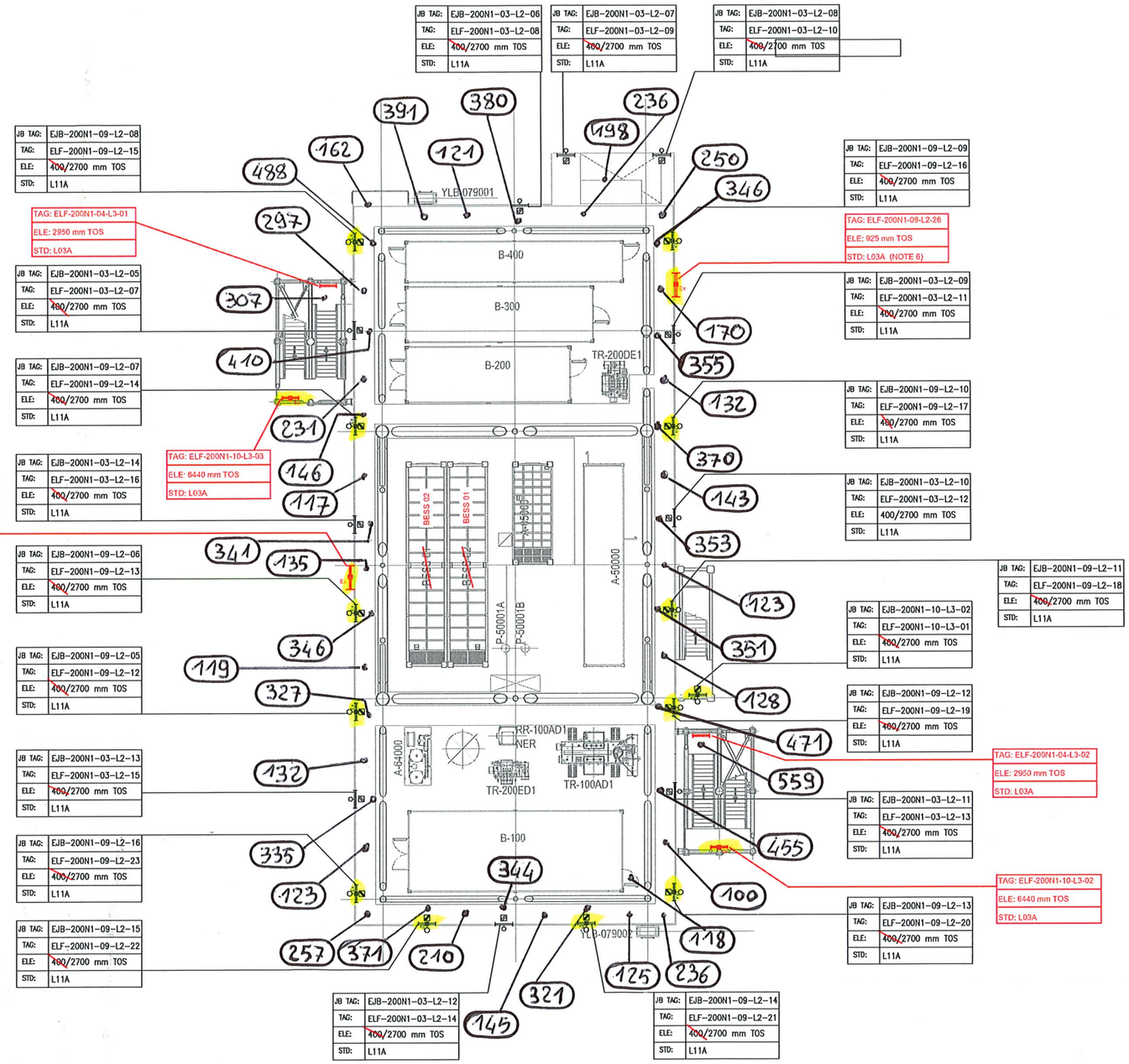
1. For control rooms, control of the illumination level should be possible either by switching off rows/groups of luminaires, or by use of electronic dimmers, or both.
   - 300 lux applies at night and 500 lux during the daytime.
2. For auxiliary rooms, the illumination level should be controlled by switching each lamp in a twin fitting from separately controlled circuits or by switching alternative fittings.
   - 150 lux applies for normal access and 300 lux for maintenance activities
3. For Embarkation area emergency lux level should be 5lux.
4. For other areas emergency lux level should be 11lux(avg) and 1 lux(min).

Comments: WITH REFERENCE TO THE LUX MEASUREMENTS FOR PLANT AREAS, WALKWAYS AND ESCAPE ROUTES IN PERMANENT LIGHTING SCENARIO, THE MEASURED RESULTS HAVE PROVEN A POSITIVE RESULT. ALL MEASUREMENTS TAKEN AT 0.00m ELEVATION

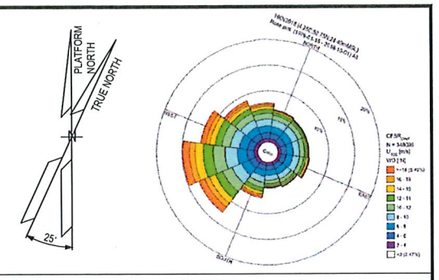
	Performed by	☐ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	RM COMM	RM COMM	CPY NOT PRESENT
Name	Mattia Girotti	Anthony Iveson	Witness waived
Date	2025-06-04	2025-06-04	2025-06-05
Signature	PROVERLIS Digitaly signed by Mattia Girotti 2025-06-04T11:38:03.872Z	PROVERLIS Digitaly signed by Anthony Iveson 2025-06-04T12:53:30.019Z	PROVERLIS Digitaly signed by Witness waived 2025-06-05T06:12:44.107Z

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
1_E	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

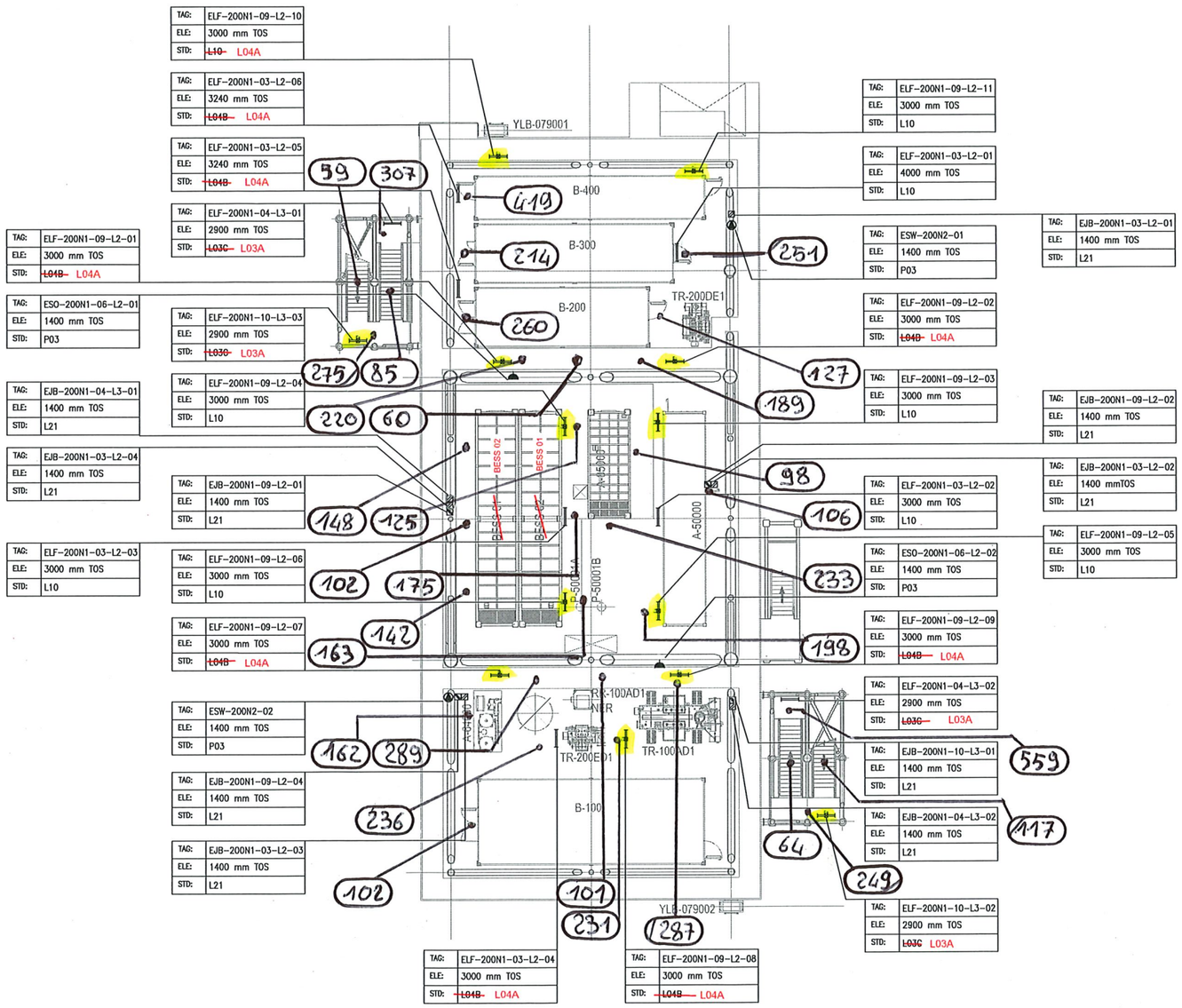
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

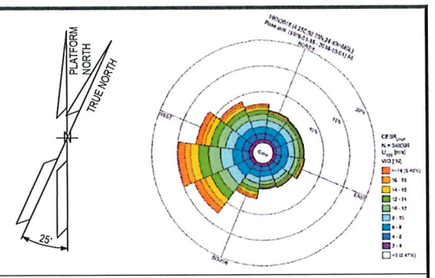
File Name : 123A90-DDL-EL-DL-20119

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	●	JB-TAG
TAG:	●	TAG
ELE:	●	ELEVATION
STD:	●	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
1_E	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

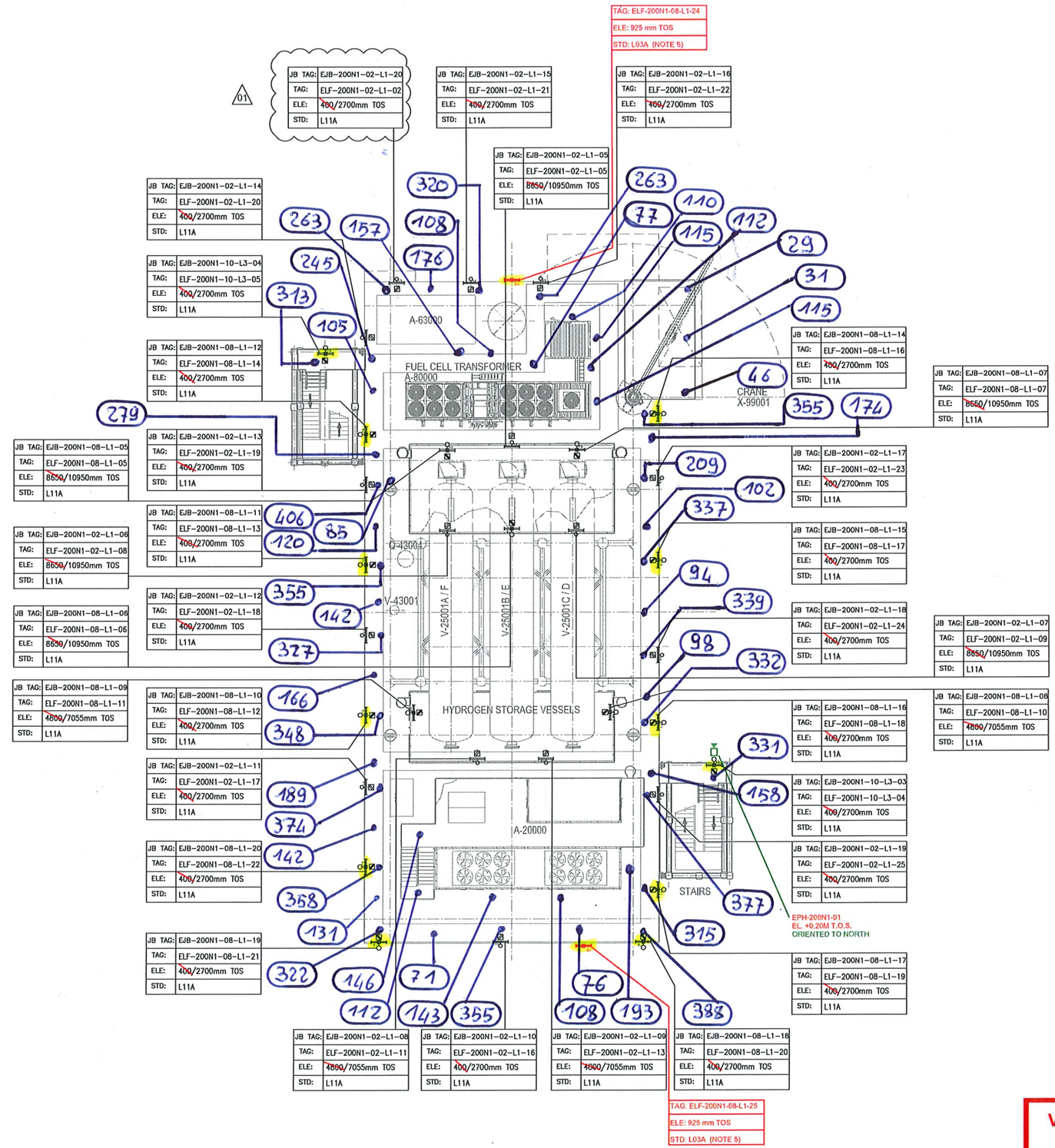
ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

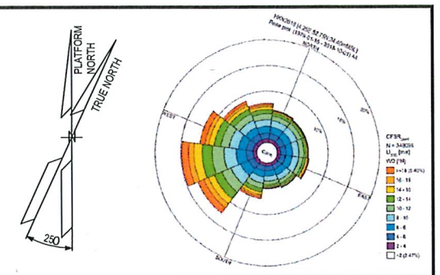
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

DRAWING NO. 123A90-DDL-EL-DL-20118 REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. FOR ELF-200N1-08-L1-24 AND ELF-200N1-08-L1-25 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND — ROSETTI MARINO

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20118**

REV.:	DATE:	SIGNATURE:
1_G	09/01/25	V.Ramponi

ROSETTI MARINO SpA

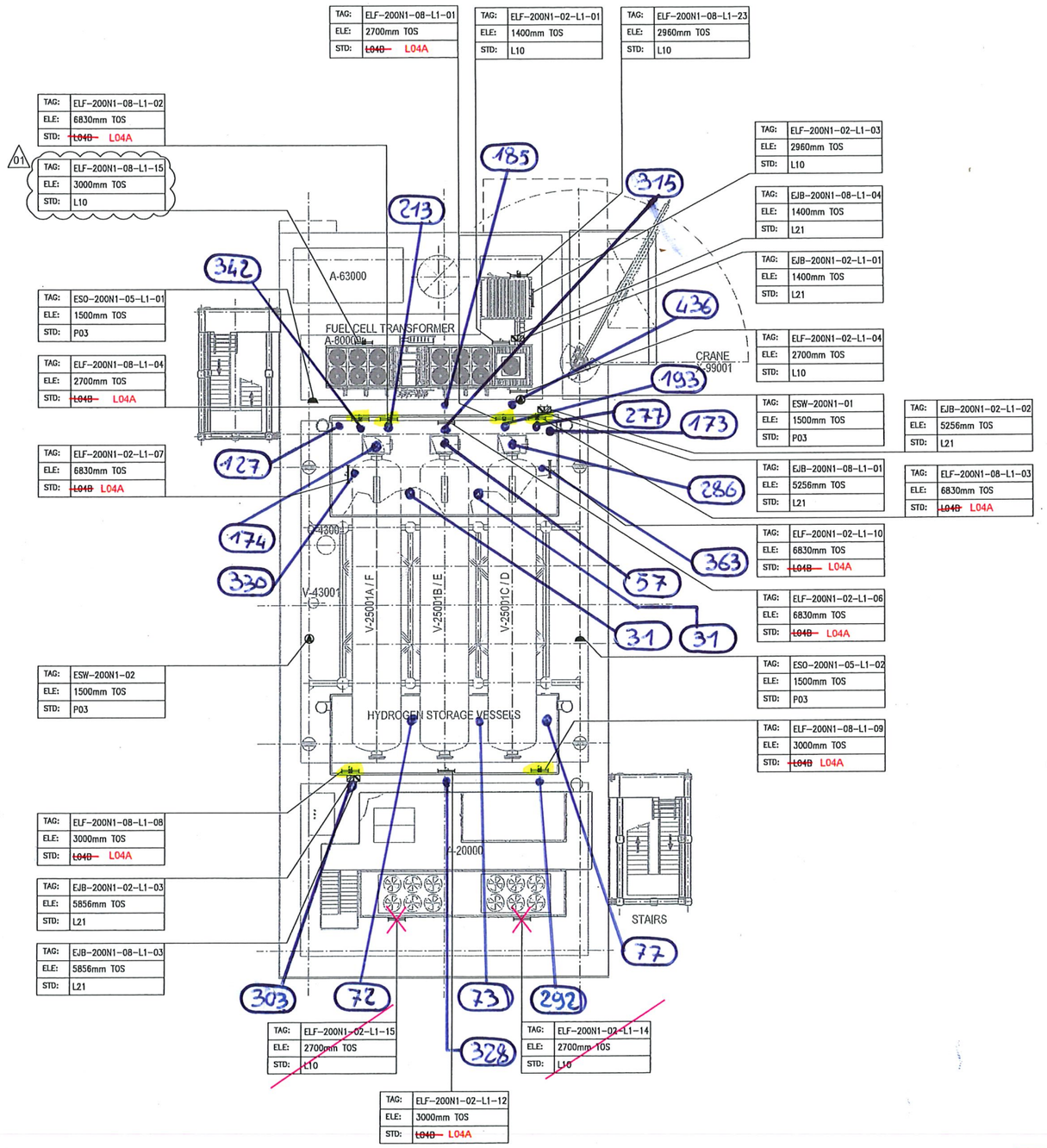
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20118

DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



TAG:	ELF-200N1-08-L1-01
ELE:	2700mm TOS
STD:	~~L04B~~ L04A

TAG:	ELF-200N1-02-L1-01
ELE:	1400mm TOS
STD:	L10

TAG:	ELF-200N1-08-L1-23
ELE:	2960mm TOS
STD:	L10

TAG:	ELF-200N1-08-L1-02
ELE:	6830mm TOS
STD:	~~L04B~~ L04A

01

TAG:	ELF-200N1-08-L1-15
ELE:	3000mm TOS
STD:	L10

TAG:	ELF-200N1-02-L1-03
ELE:	2960mm TOS
STD:	L10

TAG:	EJB-200N1-08-L1-04
ELE:	1400mm TOS
STD:	L21

TAG:	EJB-200N1-02-L1-01
ELE:	1400mm TOS
STD:	L21

TAG:	ESO-200N1-05-L1-01
ELE:	1500mm TOS
STD:	P03

TAG:	ELF-200N1-02-L1-04
ELE:	2700mm TOS
STD:	L10

TAG:	ELF-200N1-08-L1-04
ELE:	2700mm TOS
STD:	~~L04B~~ L04A

TAG:	ESW-200N1-01
ELE:	1500mm TOS
STD:	P03

TAG:	EJB-200N1-02-L1-02
ELE:	5256mm TOS
STD:	L21

TAG:	ELF-200N1-02-L1-07
ELE:	6830mm TOS
STD:	~~L04B~~ L04A

TAG:	EJB-200N1-08-L1-01
ELE:	5256mm TOS
STD:	L21

TAG:	ELF-200N1-08-L1-03
ELE:	6830mm TOS
STD:	~~L04B~~ L04A

TAG:	ELF-200N1-02-L1-10
ELE:	6830mm TOS
STD:	~~L04B~~ L04A

TAG:	ELF-200N1-02-L1-06
ELE:	6830mm TOS
STD:	~~L04B~~ L04A

TAG:	ESW-200N1-02
ELE:	1500mm TOS
STD:	P03

TAG:	ESO-200N1-05-L1-02
ELE:	1500mm TOS
STD:	P03

TAG:	ELF-200N1-08-L1-09
ELE:	3000mm TOS
STD:	~~L04B~~ L04A

TAG:	ELF-200N1-08-L1-08
ELE:	3000mm TOS
STD:	~~L04B~~ L04A

TAG:	EJB-200N1-02-L1-03
ELE:	5856mm TOS
STD:	L21

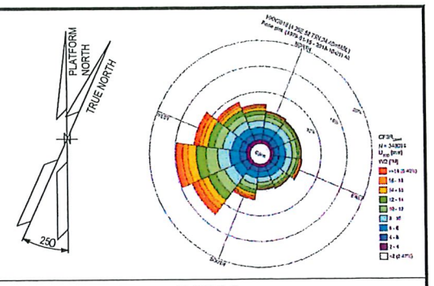
TAG:	EJB-200N1-08-L1-03
ELE:	5856mm TOS
STD:	L21

TAG:	ELF-200N1-02-L1-15
ELE:	2700mm TOS
STD:	L10

TAG:	ELF-200N1-02-L1-14
ELE:	2700mm TOS
STD:	L10

TAG:	ELF-200N1-02-L1-12
ELE:	3000mm TOS
STD:	~~L04B~~ L04A

PLAN ON UPPER DECK
EL+30.310 T.O.S.



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DL-20118

REV.:	DATE:	SIGNATURE:
1_G	09/01/25	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND | ROSETTI MARINO

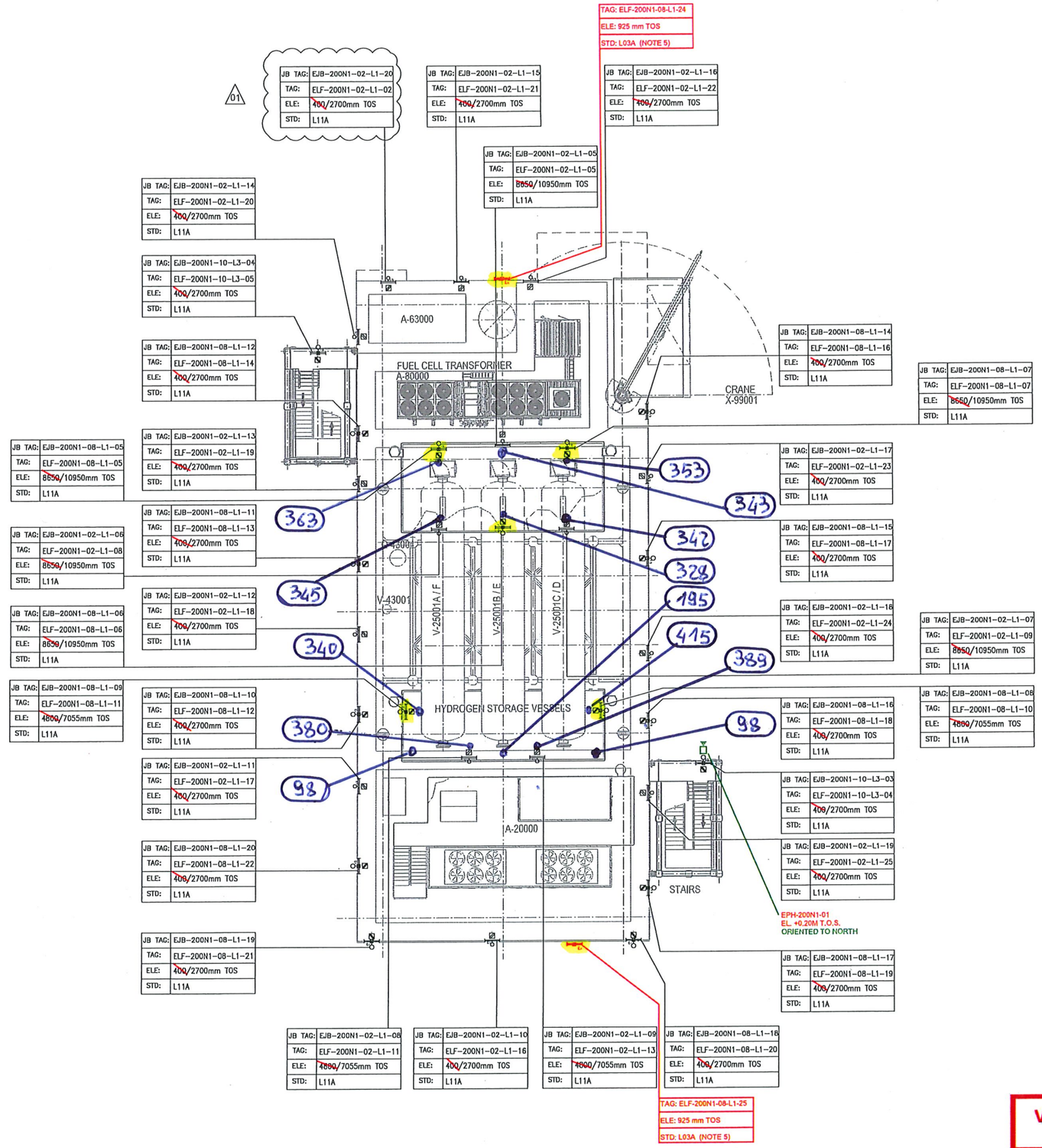
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 01/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20118		SHEET 2of2 / REV. 01

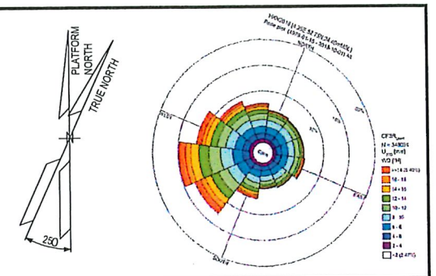
File Name : 123A90-DDL-EL-DL-20118

DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



PLAN ON UPPER DECK
EL+30.310 T.O.S.



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. FOR ELF-200N1-08-L1-24 AND ELF-200N1-08-L1-25 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB
- TWILIGHT RELAY SENSOR

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20100	ELECTRICAL EQUIPMENT LAYOUT - TOP DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	28/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DL-20118
REV.: 1_G | DATE: 09/01/25 | SIGNATURE: V.Ramponi
ROSETTI MARINO SpA

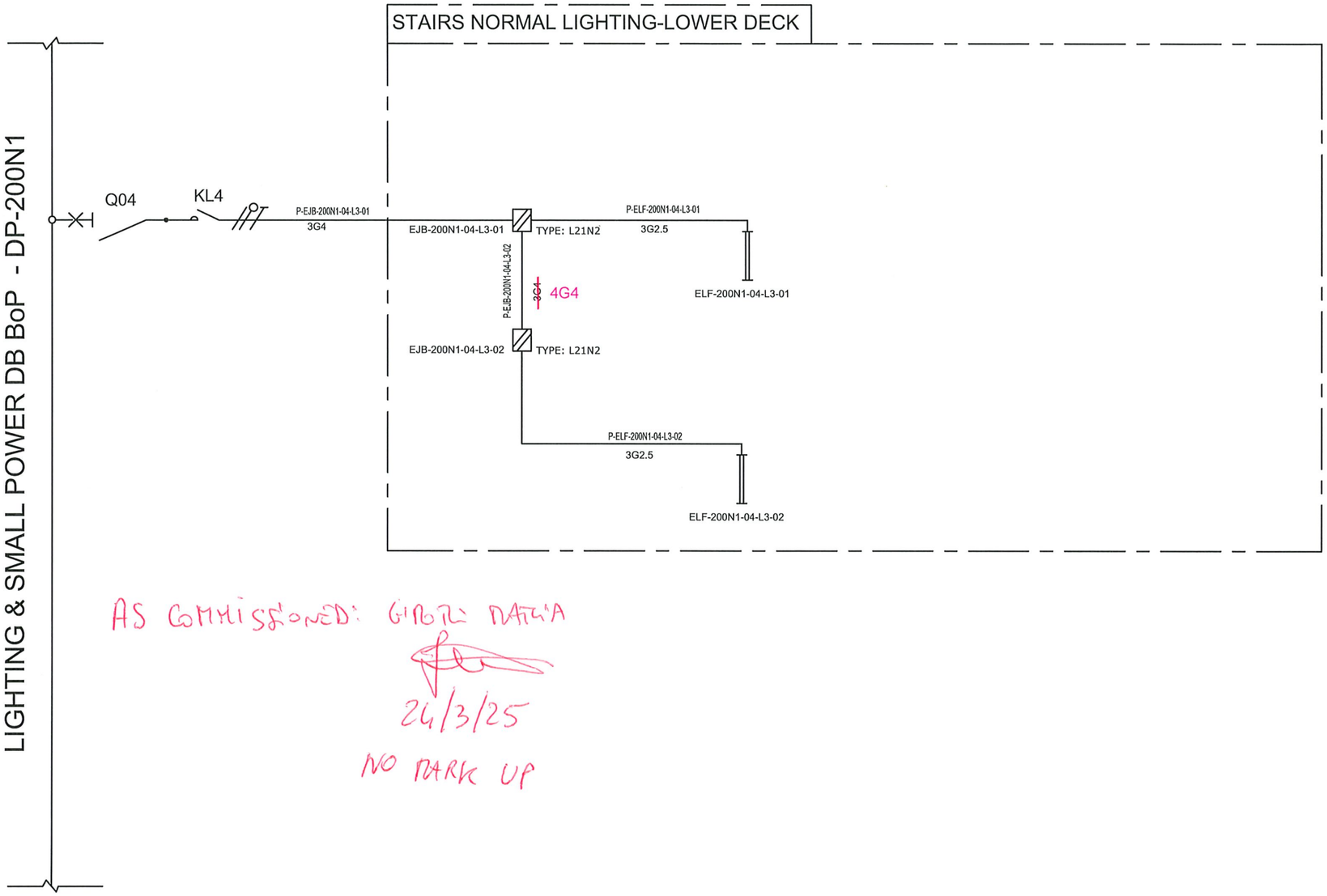
CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE 1:150
DRAWN ASR | CHECKED FMA/AMA | APPROVED FPA/DLO | DATE 01/08/24
A1 | DRAWING NO. 123A90-DDL-EL-DL-20118 | SHEET 1of2 | REV. 01

File Name : 123A90-DDL-EL-DL-20118

Section 4.2 Electrical
“As-Commissioned” interconnection diagrams



AS COMMISSIONED: GIROLAMO DATTA

24/3/25

NO MARK UP

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DG-20125

REV.:	DATE:	SIGNATURE:
2_H	24/01/25	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
STAIRS NORMAL LIGHTING (LOWER DECK ONLY)

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DG-20125 | SHEET 006 | REV. 01

File Name : 123A90-DDL-EL-DG-20125

F.to UNI A3: 420mmx297mm

FROM	TO

DESCRIPTION:LIGHTING & SMALL POWER DB BOP
TAG NUMBER:DP-200N1

CUBICLE/CB: +01/Q2

-X1
L1/2 — 10 — BN
N/2 — 11 — BU
Y/G
PE
P.E. BUS BAR

NO MARK UP
MARCO MORETTO
3/4/25

P-EJB-200N1-02-L1-01
3G4 mm²

NO MARK UP
AS COMMISSIONED:
MATIA GIROTTI
3/4/25

DESCRIPTION:NORMAL LIGHTING UPPER DECK - CIRCUIT NO. 1
TAG NUMBER:EJB-200N1-02-L1-01

BN — L
BU — N
Y/G — PE

CUBICLE/CB: +02/Q3

-X1
L2/3 — 12 — BN
N/3 — 13 — BU
Y/G
PE
P.E. BUS BAR

NO MARK UP
MARCO MORETTO
3/4/25

P-EJB-200N1-03-L2-01
3G4 mm²

DESCRIPTION:NORMAL LIGHTING LOWER DECK - CIRCUIT NO. 1
TAG NUMBER:EJB-200N1-03-L2-01

BN — L
BU — N
Y/G — PE

CUBICLE/CB: +02/Q4

-X1
L3/4 — 14 — BN
N/4 — 15 — BU
Y/G
PE
P.E. BUS BAR

NO MARK UP
MARCO MORETTO
3/4/25

P-EJB-200N1-04-L3-01
3G4 mm²

DESCRIPTION:NORMAL LIGHTING - STAIRS
TAG NUMBER:EJB-200N1-04-L3-01

BN — L
BU — N
Y/G — PE

CUBICLE/CB: +03/Q5

-X1
L1/5 — 80 — BN
N/5 — 81 — BU
Y/G
PE
P.E. BUS BAR

NO MARK UP
MARCO MORETTO
3/4/25

P-ESO-200N1-05-L1-01
3G10 mm²

DESCRIPTION:SMALL POWER SOCKET JB(UPPER DECK)
TAG NUMBER:ESO-200N1-05-L1-01

BN — L — BN
BU — N — BU
Y/G — PE — Y/G

P-ESO-200N1-05-L1-02
3G10 mm²

DESCRIPTION:SMALL POWER SOCKET JB(UPPER DECK)
TAG NUMBER:ESO-200N1-05-L1-02

BN — L — L
BU — N — N
Y/G — PE — PE

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20149**

REV.:	DATE:	SIGNATURE:
2_F	09/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
LIGHTING & SMALL POWER DB BOP

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : 1:X

A3 | DRAWING NO. 123A90-DDL-EL-DG-20149 | SHEET 045 | REV. 02

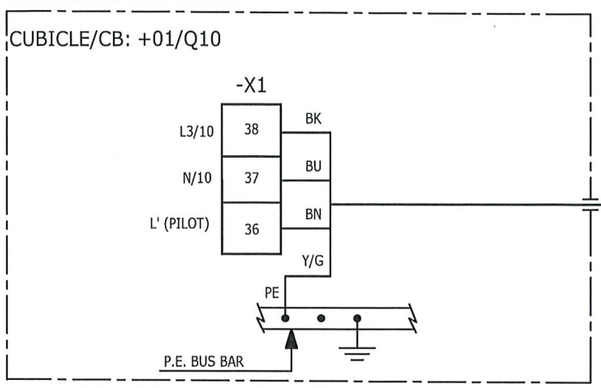
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

FROM	TO

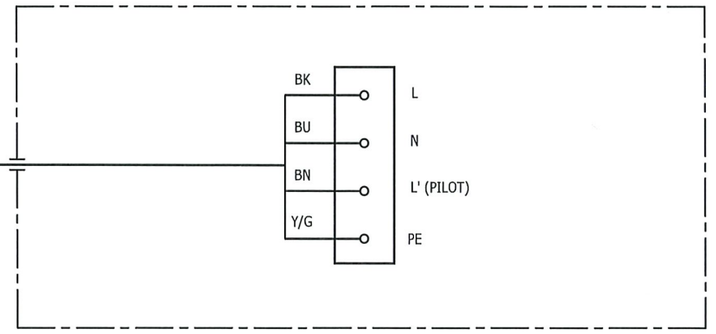
DESCRIPTION: LIGHTING & SMALL POWER DB BOP
TAG NUMBER: DP-200N1
CUBICLE/CB: +01/Q10

NO MARK UP
AS COMMISSIONED: MATTIA GIROTTI
9/5/25



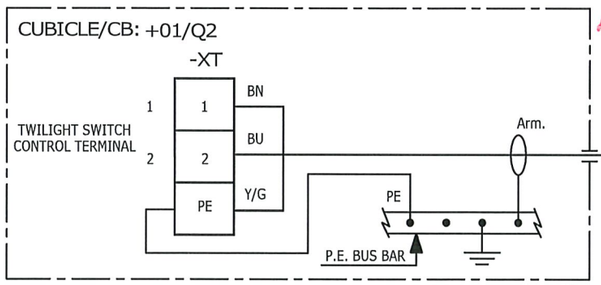
P-EJB-200N1-10-L3-01
4G4_E mm²

DESCRIPTION: EMERGENCY LIGHTING STAIRS
TAG NUMBER: EJB-200N1-10-L3-01



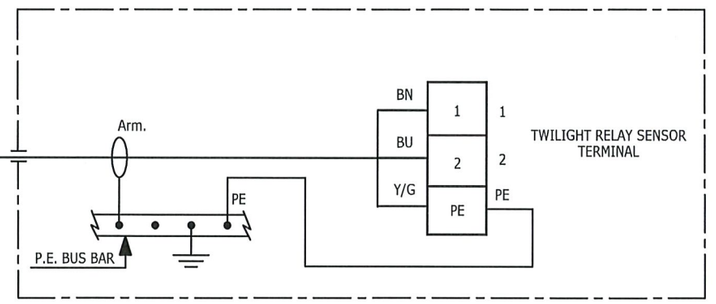
DESCRIPTION: LIGHTING & SMALL POWER DB BOP
TAG NUMBER: DP-200N1
CUBICLE/CB: +01/Q2

NO MARK UP
AS COMMISSIONED: MATTIA GIROTTI
9/5/25

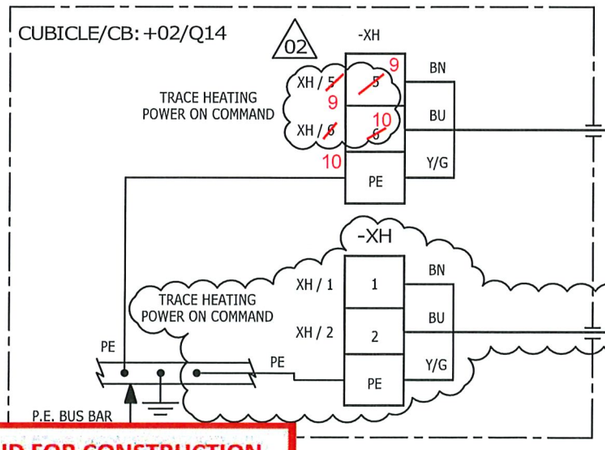


P-EPH-200N1-01
3G4 mm²

DESCRIPTION: TWILIGHT RELAY SENSOR
TAG NUMBER: EPH-200N1-01



DESCRIPTION: LIGHTING & SMALL POWER DB BOP
TAG NUMBER: DP-200N1
CUBICLE/CB: +02/Q14

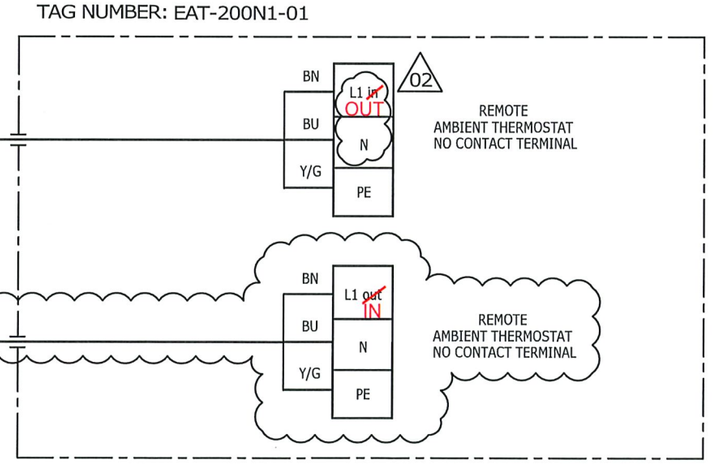


P-EAT-200N1-01
3G2.5 mm²

02

P-EAT-200N1-02
3G2.5 mm²

DESCRIPTION: REMOTE AMBIENT THERMOSTAT
TAG NUMBER: EAT-200N1-01



VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DG-20149

REV.:	DATE:	SIGNATURE:
2_F	09/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
LIGHTING & SMALL POWER DB BOP

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : 1:X

A3 | DRAWING NO. 123A90-DDL-EL-DG-20149 | SHEET 047 | REV. 02

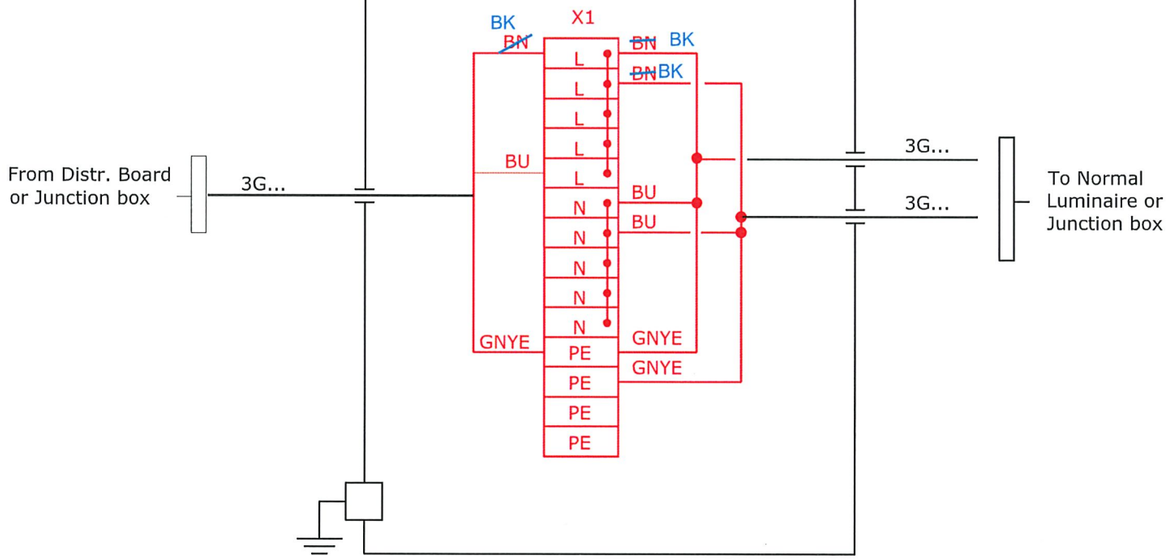
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

TYPE : L21N1 & L21N2

ITEM: NORMAL LIGHTING JUNCTION BOX

TAG : Typical



NO MARK UP

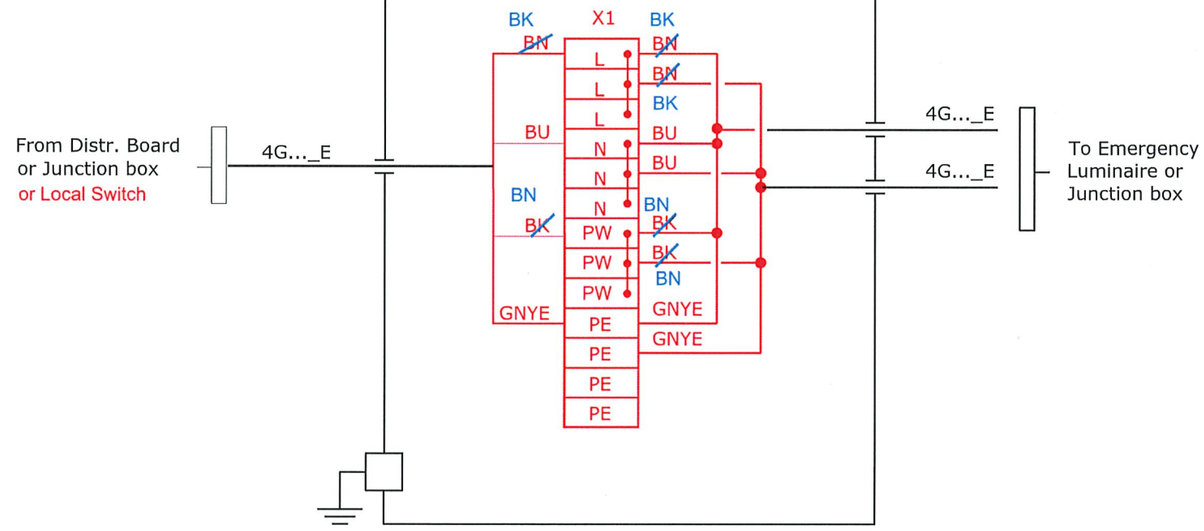
AS COMMISSIONED: MARIA GIRETTI

10/4/25

TYPE : L21E1 & L21E2

ITEM: EMERGENCY LIGHTING JUNCTION BOX

TAG : Typical



VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_I	26/03/25	E.Fabbri

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TYPICAL JB INTERCONNECTING DIAGRAM

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	016	01

File Name : 123A90-DDL-EL-DG-20125

F.to UNI A3: 420mmx297mm

Section 4.3 Instrumentation functional test sheets index

NOT APPLICABLE

Section 4.4 Instrumentation “As-Commissioned” interconnection diagrams

NOT APPLICABLE

Section 4.5 Telecommunication functional test sheets index

NOT APPLICABLE

Section 4.6 Telecommunication
“As-Commissioned” I.C.D. / TSLD's

Section 5 SITE / OPERATIONAL

Section 5.1 Operational Test Procedure

NOT APPLICABLE

Section 5.2 Operational Test Certificates

NOT APPLICABLE

Section 6 PIPING AND VESSEL PREPARATION

Section 6.1 Final Mechanical / Vessel Inspection Checks Index

NOT APPLICABLE

Section 6.2 Leak Test / Drying / Inerting Test Sheets Index

NOT APPLICABLE

Section 6.3 Chemical Loading & First Fill records Index

NOT APPLICABLE

Section 6.4 Chemical Cleaning Reports and Records Index

NOT APPLICABLE

Section 6.5 Lubrication Schedule

NOT APPLICABLE

Section 7 VENDOR

Section 7.1 Vendor Package Summary Index

NOT APPLICABLE

Section 7.2 SAT Procedure with associated punch list and reference (Front Page)

NOT APPLICABLE

Section 7.3 Vendor Spares & Special Tools lists references

ATTACHMENT 1

ROSETTI MARINO

SPARE PARTS LIST

CROSSWIND

Document Title	**SPARE PART INDEX REGISTER**
The document relates to	**HOLLANDSE KUST NOORD WIND PARK Project - Base Load Power Hub (BLPH)**
Contract	**CW-I-WP4-2023-05**

Project ID	Doc. n°	Rev. (Accepted for Construction (AFC))	Rev. Date	Status	Class
123A90	**1724001290-COM-LIS-00009**		**02**	**IFR**	**2**

The equipment consists of the following units/components

1	Tag no.	-	-				
2	Tag description	Led Linear Lighting Fixtures	Led Linear Lighting Fixtures				
3	Manufacturer model/type no.	LIFEX-ME-0645-BB	LIFEX-ME-1260N-BB				
4	Manufacturer serial no.	24/86772	24/86773				
5	No. of units	57	78				
6	Quantity of parts FITTED / INSTALLED per unit/component	1	1				

Supplier: Cortem Spa — PO Number: 1724001290 — PO description: Lighting Fixture — Contact name: PM Selena Ziani

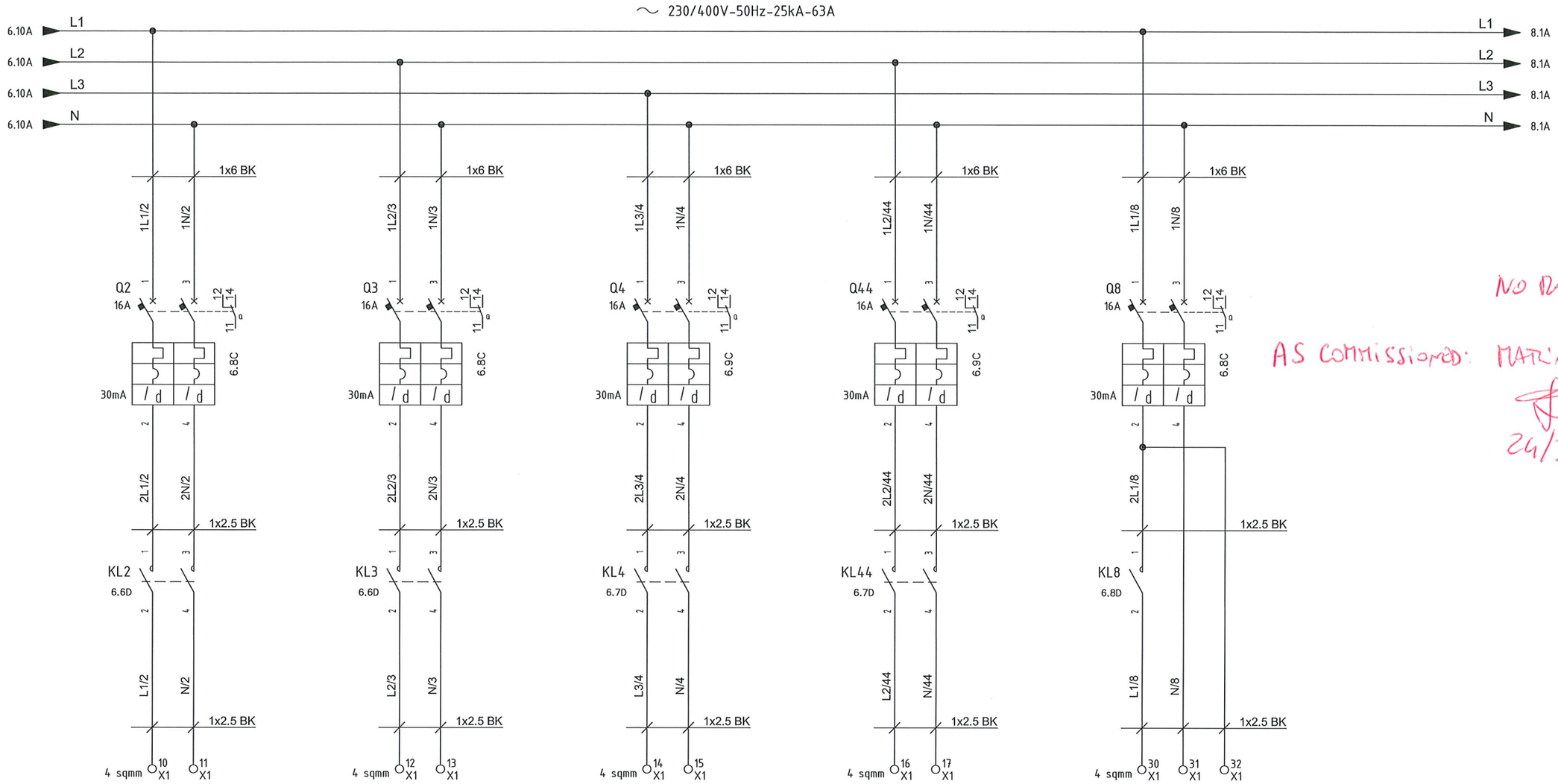
Address: Via Aquileia, 10 - 34070 Villesse (Go) — Supplier telephone no: +39 0481 964911 — Contact mobile no:

E-mail: pmd@cortemgroup.com — WEBSITE www.cortemgroup.com

General Information:

			MATERIALS DATA																		Commissioning spares	2 Years spares	
Item Number	Total number of identical spares installed	Description of recommended spare parts	Parts/drawing ref.			Material	Certicate Type (if applicable)	Certicate Reference (if applicable)	Shelf life (years)	Weight (net)	Weight (gross)	Volume	HS Code	ECCN Code	% US Content	Country of origin	Supplier part no.	Manufacturer part no.	Manufacturername	Quantity ordered	Quantity ordered	Remarks
			Project Datasheet no.	Project Detail dwg. no.	Item ref.																	
7		8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1		Electronic power unit for LifEx-ME-0645	1724001290-EL-DS-00004	1724001290-EL-DA-00003	1	PC (housing material)	ATEX	CML 21 ATEX 51156U	5	0,5kg		440000mm^3	94054099 90			ITALY	EBM-100L/350	EBM-100L/350	Cortem S.p.a	2	4	
2		Electronic power unit for LifEx-ME-1260N	1724001290-EL-DS-00004	1724001290-EL-DA-00003	2	PC (housing material)	ATEX	CML 21 ATEX 51156U	5	0,5kg		440000mm^3	94054099 90			ITALY	EBM-100L/270	EBM-100L/270	Cortem S.p.a	4	8	
3		Battery pack for LifEx-ME-1260N	1724001290-EL-DS-00004	1724001290-EL-DA-00003	2	NiMH	ATEX	N/A	5	0,3kg		80000mm^3	94054099 90			ITALY/CHINA	G-1097/F	G-1097/F	Cortem S.p.a	4	8	
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Section 7.4 Vendor Data / Operations / Maintenance Manuals References



EJB-200N1-02-L1-01
Normal Lighting Upper Deck - Circuit No. 1
(3G4 sqmm)

EJB-200N1-03-L2-01
Normal Lighting Lower Deck - Circuit No. 1
(3G4 sqmm)

EJB-200N1-04-L3-01
Normal Lighting stairs
(3G4 sqmm)

Spare
Normal Lighting - Spare

EJB-200N1-08-L1-01
Emergency Lighting Upper Deck - Circuit No. 1
(4G4 sqmm _E)

NO PARK UP

AS COMMISSIONED: MARIA GIORGI

24/3/25

VALID FOR CONSTRUCTION
VENDOR DOCUMENT - FDL DWG:
123A90-FDL-1724002197-EL-DG-00033

REV.:	DATE:	SIGNATURE:
3_A	18/03/25	G.Randi

ROSETTI MARINO SpA

IMESA ELECTRICAL ENGINEERING

ROSETTI MARINO

DWG n° : 231298/SD/33
Item n° : PF1002888/101

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
=					
+					
3	12/03/2025	Santinelli	Flamminio	Sigismondi	Replaced Twiligh Switch TW1
2	19/08/2024	Santinelli	Flamminio	Sigismondi	As Built (ASB)
1	05/07/2024	Santinelli	Flamminio	Sigismondi	Accepted for construction (AFC)
0	29/05/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)

TITLE : "DP-200N1"
LV SWBD FUNCTIONAL DIAGRAMS
Functional Drawing

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 1723002197-EL-DG-00033 | SHEET 7 | REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00033 Rev. 03

Section 8 LIST OF MODIFICATIONS

NOT APPLICABLE

Section 8.1 List of changes

NOT APPLICABLE

Section 9 SUPPORTING DOCUMENTS

NOT APPLICABLE