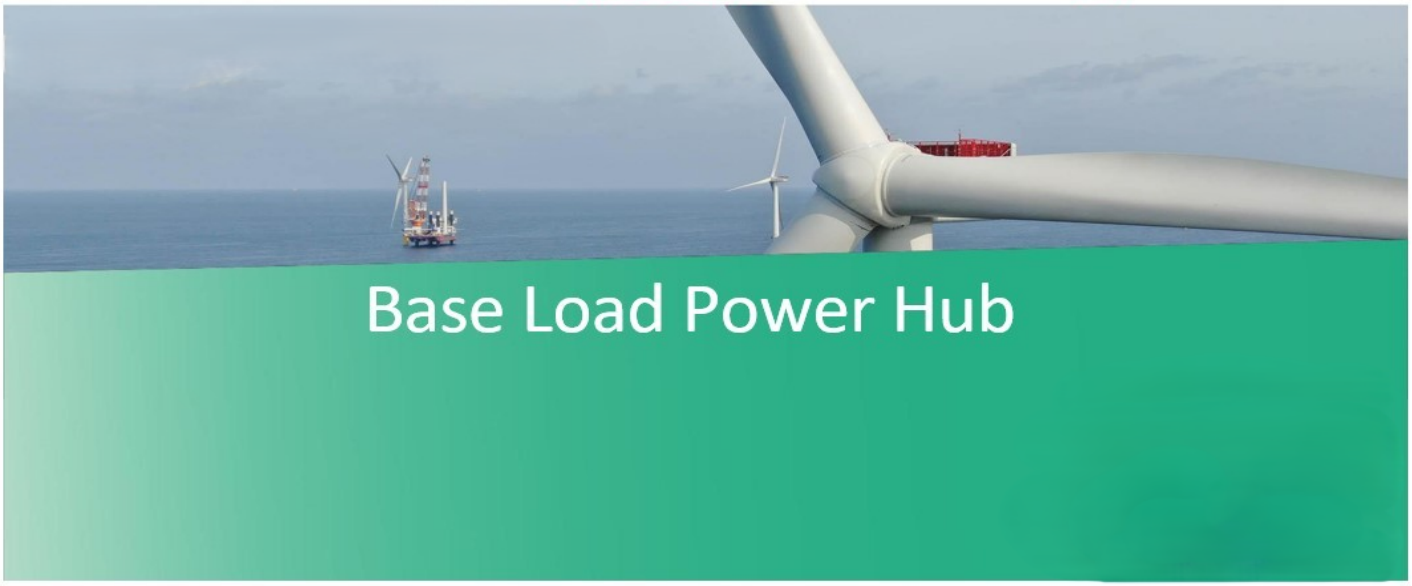
CROSSWIND

ROSETTI MARINO

PROVERLIS

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



MECHANICAL COMPLETION DOSSIER (ONSHORE)

SYSTEM	83 Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-37 Emergency Lighting Stairs/Transition Piece

CROSSWIND	123A90 - HOLLANDSE KUST NOORD WIND PARK BLPH Project MECHANICAL COMPLETION DOSSIER INDEX	ROSETTI MARINO

Sub System N°:	83-37	Tick as appropriate	ONSHORE	O
Description:	Emergency Lighting Stairs/Transition Piece		OFFSHORE	NA

1.	***READY FOR COMMISSIONING CERTIFICATE*** *Ready For Commissioning Certificate (RFC)*	O
2.	***CONSOLIDATED PUNCH LISTS*** *Cleared and Residual Items*	O
3.	***SYSTEM/SUB-SYSTEM LIMIT DRAWINGS*** *Mark-up drawings showing the limits of the relevant System/Sub-System*	O
4.	***MECHANICAL COMPLETION STATUS INDEX – BUILDING DISCIPLINE*** *Building Sub-System Status Index (Print out) and Check/Test sheets*	NA
5.	***MECHANICAL COMPLETION STATUS INDEX – ELECTRICAL DISCIPLINE*** *Electrical Sub-System Status Index (Print out) and Check/Test Sheets* *Hazardous Area Equipment Detailed Inspection*	O
6.	***MECHANICAL COMPLETION STATUS INDEX - INSTRUMENTAL DISCIPLINE*** *Instrumental Sub-System Status Index (Print out) and Check/Test Sheets*	NA
7.	***MECHANICAL COMPLETION STATUS INDEX - MECHANICAL DISCIPLINE*** *Mechanical SubSystem Status Index (Print out) and Check/Test Sheets*	NA
8.	***MECHANICAL COMPLETION STATUS INDEX - TELECOMMUNICATION DISCIPLINE*** *Telecommunication Sub-System Status Index (Print out) and Check/Test Sheets*	NA
9.	***MECHANICAL COMPLETION STATUS INDEX - HVAC DISCIPLINE*** *HVAC Sub-System Status Index (Print out) and Check/Test Sheets*	NA
10.	***MECHANICAL COMPLETION STATUS INDEX - PIPING DISCIPLINE*** *Piping Sub-System Status Index and Check/Test Sheets*	NA
11.	***MECHANICAL COMPLETION INDEX - SAFETY DISCIPLINE*** *Safety Sub-System Status Index (Print out) and Check/Test Sheets*	NA
12.	***FAT / VENDOR REPORTS*** *Fat reports issued by vendors and/or vendor reports*	NA
13.	***MECHANICAL COMPLETION CHANGES / MARK-UPS*** *A copy of the changes initiated during the Mechanical Completion process pertaining to the relevant Sub-System will be incorporated in this section*	NA

Note: Under the generic terminology “Building” are also covered the following disciplines: **Structural, Painting**

Under the generic terminology “Instrumental” is also covered the following discipline: **Fire & Gas**

ROSETTI MARINO

123A90 - HOLLANDSE KUST NOORD WIND PARK
BLPH Project

CROSSWIND

Ready For Commissioning (RFC) Certificate

COMPLETE	●	PARTIAL	

Revision:	3		Issued on:	2025-05-20	
System:	83	/	Main Power Distribution Low Voltage 440 V		
SubSystem:	83-37	/	Emergency Lighting Stairs/Transition Piece		

1	COMPANY has, at its option and if required, reviewed the mechanical completion associated with the above-named system/sub-system of the SCOPE and observed that such functional sub-system has been brought into readiness for commencement of the associated pre-commissioning and commissioning activities, but for the outstanding punch list items, if any, attached and referred in this Certificate.
2	Issuance of this Certificate shall not release CONTRACTOR from any of his obligations, responsibilities or liabilities under the CONTRACT.
3	Mechanical Completion Status Index attached (per Discipline) Punch List report attached (Outstanding and Cleared)

PUNCH LIST	PENDING POINTS	
Note: All Category "A" Items must be cleared prior to issue a Ready For Commissioning (RFC) Certificate	A	B
	'0	5

REMARKS: ONSHORE SOW completed, n. 3 outstanding tasks to be cleared in OFFSHORE phase.

	CONTRACTOR Construction Manager	**CONTRACTOR** Commissioning Manager	**COMPANY** Construction Lead (if required)	**COMPANY** Commissioning Lead (if required)
Name	Wolmer Borghi	Anthony Iveson	CPY NOT PRESENT	CPY NOT PRESENT
Date	2025-05-20	2025-05-21	2025-05-21	2025-05-21
Signature	PROVERLIS Digitaly signed by Wolmer Borghi 2025-05-20T11:53:03.540Z	PROVERLIS Digitaly signed by Anthony Iveson 2025-05-21T07:01:04.961Z	PROVERLIS Digitaly signed by CPY NOT PRESEN 2025-05-21T07:53:05.392Z	PROVERLIS Digitaly signed by CPY NOT PRESEN 2025-05-21T07:53:11.364Z

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 83-37 & process: MC

Electrical	83-37 Emergency Lighting Stairs/Transition Piece						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
EJB-200N1-10-L3-01	JB Emergency Lighting stairs	ONSHORE	C10001302	CPX31	100	2025-01-31	RFC 3
EJB-200N1-10-L3-02	JB - EMERGENCY LIGHTING	ONSHORE	C10001429	CPX31	100	2025-04-17	RFC 3
EJB-200N1-10-L3-03	JB - EMERGENCY LIGHTING	ONSHORE	C10001430	CPX31	100	2025-02-20	RFC 3
EJB-200N1-10-L3-04	JB - EMERGENCY LIGHTING	ONSHORE	C10001431	CPX31	100	2025-01-30	RFC 3
EJB-200N1-10-L3-05	JB - EMERGENCY LIGHTING	ONSHORE	C10001432	CPX31	100	2025-04-29	RFC 3
EJB-200N1-10-L3-06	JB - EMERGENCY LIGHTING	ONSHORE	C10001312	CPX31	100	2025-05-05	RFC 3
EJB-200N1-10-L3-07	JB - EMERGENCY LIGHTING	ONSHORE	C10001840	CPX31	100	2025-05-05	RFC 3
ELF-200N1-10-L3-01	EMERGENCY LIGHT	ONSHORE	C10001316	CPX00	100	2025-04-17	RFC 3
ELF-200N1-10-L3-02	EMERGENCY LIGHT	ONSHORE	C10001320	CPX00	100	2025-01-24	RFC 3
ELF-200N1-10-L3-03	EMERGENCY LIGHT	ONSHORE	C10001321	CPX00	100	2025-01-24	RFC 3
ELF-200N1-10-L3-04	EMERGENCY LIGHT	ONSHORE	C10001325	CPX00	100	2025-01-24	RFC 3
ELF-200N1-10-L3-05	EMERGENCY LIGHT	ONSHORE	C10001323	CPX00	100	2025-02-20	RFC 3
ELF-200N1-10-L3-06	EMERGENCY LIGHT	ONSHORE	C10001322	CPX00	100	2025-04-29	RFC 3
ELF-200N1-10-L3-07	EMERGENCY LIGHT	ONSHORE	C10001329	CPX00	100	2025-04-30	RFC 3
ELF-200N1-10-L3-08	EMERGENCY LIGHT	ONSHORE	C10001328	CPX00	100	2025-05-05	RFC 3
ELF-200N1-10-L3-09	Emergency Lighting Fixture	ONSHORE	C10001858	CPX00	100	2025-05-05	RFC 3
ELF-200N1-10-L3-10	Emergency Lighting Fixture	ONSHORE	C10001859	CPX00	100	2025-05-05	RFC 3
ELF-200N1-10-L3-11	Emergency Lighting Fixture	ONSHORE	C10001843	CPX00	100	2025-04-29	RFC 3
ELF-200N1-10-L3-12	Emergency Lighting Fixture	ONSHORE	C10001844	CPX00	100	2025-04-29	RFC 3
ELF-200N1-10-L3-13	Emergency Lighting Fixture	ONSHORE	C10001860	CPX00	100	2025-04-30	RFC 3
ELF-200N1-10-L3-14	Emergency Lighting Fixture	ONSHORE	C10002076	CPX00	100	2025-05-05	RFC 3
P-EJB-200N1-10-L3-01	Lighting & Small Power DB BoP / Emergency Lighting stairs	ONSHORE	C10000612	CPX09	100	2025-01-23	RFC 3
P-EJB-200N1-10-L3-02	Stair Emergency Lighting JB / Stair Emergency Lighting JB	ONSHORE	C10000824	CPX09	100	2025-03-11	-
		OFFSHORE	C10004921	CPX09	0	-	-
P-EJB-200N1-10-L3-03	Stair Emergency Lighting JB / Stair Emergency Lighting JB	ONSHORE	C10000826	CPX09	100	2025-02-20	-
		OFFSHORE	C10004922	CPX09	0	-	-
P-EJB-200N1-10-L3-04	Stair Emergency Lighting JB / Stair Emergency Lighting JB	ONSHORE	C10000828	CPX09	100	2025-01-30	RFC 3
P-EJB-200N1-10-L3-05	Stair Emergency Lighting JB / Stair Emergency Lighting JB	ONSHORE	C10000830	CPX09	100	2025-04-17	-
		OFFSHORE	C10004680	CPX09	0	-	-

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 83-37 & process: MC

Electrical	83-37 Emergency Lighting Stairs/Transition Piece						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
P-EJB-200N1-10-L3-06	Stair Emergency Lighting JB / Stair Emergency Lighting JB	ONSHORE	C10000832	CPX09	100	2025-04-29	RFC 3
P-EJB-200N1-10-L3-07	Stair Emergency Lighting JB / Stair Emergency Lighting JB	ONSHORE	C10001813	CPX09	100	2025-05-05	RFC 3
P-ELF-200N1-10-L3-01	Stair Emergency Lighting JB / Stair Emergency Lighting Fixture	ONSHORE	C10000817	CPX09	100	2025-04-17	RFC 3
P-ELF-200N1-10-L3-02	Stair Emergency Lighting JB / Stair Emergency Lighting Fixture	ONSHORE	C10000747	CPX09	100	2025-01-24	RFC 3
P-ELF-200N1-10-L3-03	Stair Emergency Lighting Fixture / Stair Emergency Lighting Fixture	ONSHORE	C10000748	CPX09	100	2025-01-24	RFC 3
P-ELF-200N1-10-L3-04	Stair Emergency Lighting JB / Stair Emergency Lighting Fixture	ONSHORE	C10000825	CPX09	100	2025-01-24	RFC 3
P-ELF-200N1-10-L3-05	Stair Emergency Lighting JB / Stair Emergency Lighting Fixture	ONSHORE	C10000827	CPX09	100	2025-02-20	RFC 3
P-ELF-200N1-10-L3-06	Stair Emergency Lighting JB / Stair Emergency Lighting Fixture	ONSHORE	C10000829	CPX09	100	2025-04-29	RFC 3
P-ELF-200N1-10-L3-07	Stair Emergency Lighting JB / Stair Emergency Lighting Fixture	ONSHORE	C10000831	CPX09	100	2025-04-30	RFC 3
P-ELF-200N1-10-L3-08	Stair Emergency Lighting JB / Stair Emergency Lighting Fixture	ONSHORE	C10000833	CPX09	100	2025-05-05	RFC 3
P-ELF-200N1-10-L3-09	Stair Emergency Lighting JB / Stair Emergency Lighting Fixture	ONSHORE	C10001815	CPX09	100	2025-05-05	RFC 3
P-ELF-200N1-10-L3-10	Stair Emergency Lighting JB / Stair Emergency Lighting Fixture	ONSHORE	C10001817	CPX09	100	2025-05-05	RFC 3
P-ELF-200N1-10-L3-11	Stair Emergency Lighting JB / Stair Emergency Lighting Fixture	ONSHORE	C10001818	CPX09	100	2025-04-29	RFC 3
P-ELF-200N1-10-L3-12	Stair Emergency Lighting JB / Stair Emergency Lighting Fixture	ONSHORE	C10001819	CPX09	100	2025-04-29	RFC 3
P-ELF-200N1-10-L3-13	Stair Emergency Lighting JB / Stair Emergency Lighting Fixture	ONSHORE	C10001820	CPX09	100	2025-04-30	RFC 3
P-ELF-200N1-10-L3-14	Emergency Lighting Fixture / Emergency Lighting Fixture	ONSHORE	C10002066	CPX09	100	2025-05-05	RFC 3

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	83	Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-37	Emergency Lighting Stairs/Transition Piece

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30004046	B	P-ELF-200N1-10-L3-05 C10000827	Missing cable tag SS , near the lamp	.		APolo 2025-02-20	2025-02-26	APolo 2025-02-26	2025-02-26
C30004047	B	ELF-200N1-10-L3-05 C10001323	Missing traffolyte tag side lamp	.		APolo 2025-02-20	2025-02-26	APolo 2025-02-26	2025-02-26
C30004048	B	ELF-200N1-10-L3-05 C10001323	Missing cores identification tag. . inside lamp . (see document 123A90-DDL-IN-DG-40016 sh.3)	.		APolo 2025-02-20	2025-02-26	APolo 2025-02-26	2025-02-26
C30004049	B	ELF-200N1-10-L3-05 C10001323	The support is not well secured against vibration. another bracket needs to be added.	.		APolo 2025-02-20	2025-03-07	Gtangianu 2025-03-07	2025-03-07
C30004050	B	P-EJB-200N1-10-L3-03 C10000826	Missing cable tag SS , coiled cable side	.		APolo 2025-02-20	2025-02-26	APolo 2025-02-26	2025-02-26
C30004162	B	P-EJB-200N1-09-L2-17 C10002065	Missing the SS cable tag side (EJB-200N1-09-L2-04).	.		Gtangianu 2025-02-27	2025-03-26	Gtangianu 2025-03-26	2025-03-26
C30004236	B	P-EJB-200N1-10-L3-02 C10000824	Missing cable tag both side .(P-EJB-200N1-10-L3-02).See attached photo.	.		Gtangianu 2025-03-11	2025-04-02	Gtangianu 2025-04-02	2025-04-02
C30004332	B	ELF-200N1-10-L3-01 C10001316	Light and cable are installed in temporary position due to missing mechanical support .	.		Gtangianu 2025-04-17			
C30004333	B	EJB-200N1-10-L3-02 C10001429	EJB-200N1-10-L3-02 and cable are installed in temporary position due to missing mechanical support	.		Gtangianu 2025-04-17			

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 83 Main Power Distribution Low Voltage 440 V
SUBSYSTEM 83-37 Emergency Lighting Stairs/Transition Piece

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30004334	B	C-ELS-200N1-09-L2-01 C10000818	Missing tag wires bot side the cable. See attached photo.	.		Gtangianu 2025-04-24	2025-05-13	Gtangianu 2025-05-13	2025-05-13
C30004335	B	ELS-200N1-09-L2-01 C10003048	The trafolite tag is not installed. See attached photo.	.		Gtangianu 2025-04-24	2025-05-15	Gtangianu 2025-05-15	2025-05-15
C30004343	B	ELF-200N1-10-L3-06 C10001322	Missing trafolite tag.	.		Gtangianu 2025-04-29	2025-04-30	Gtangianu 2025-04-30	2025-04-30
C30004344	B	ELF-200N1-10-L3-11 C10001843	Missing trafolite tag.	.		Gtangianu 2025-04-29	2025-04-30	Gtangianu 2025-04-30	2025-04-30
C30004345	B	ELF-200N1-10-L3-12 C10001844	Missing trafolite tag.	.		Gtangianu 2025-04-29	2025-04-30	Gtangianu 2025-04-30	2025-04-30
C30004351	B	ELF-200N1-10-L3-09 C10001858	Not installed the protection plug on the unistrut support. See attached photo	.		Gtangianu 2025-05-05	2025-05-09	Gtangianu 2025-05-09	2025-05-09
C30004352	B	ELF-200N1-10-L3-14 C10002076	Not installed the protection plug on the unistrut support. See attached photo-.	.		Gtangianu 2025-05-05	2025-05-09	Gtangianu 2025-05-09	2025-05-09
C30004353	B	ELF-200N1-10-L3-08 C10001328	Not installed the protection plug on the unistrut support. See attached photo	.		Gtangianu 2025-05-05	2025-05-09	Gtangianu 2025-05-09	2025-05-09
C30004354	B	ELF-200N1-10-L3-10 C10001859	Not installed the protection plug on the unistrut support.	.		Gtangianu 2025-05-05	2025-05-09	Gtangianu 2025-05-09	2025-05-09

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	83	Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-37	Emergency Lighting Stairs/Transition Piece

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30004355	B	P-ELF-200N1-10-L3-08 C10000833	THE WIRING AND TYPE OF CABLE MUST BE UPDATE. (FIELD INSTALLED 4G2,5_E_Arm mm2 _black).	.		Gtangianu 2025-05-05			
C30004356	B	P-ELF-200N1-10-L3-09 C10001815	THE WIRING AND TYPE OF CABLE MUST BE UPDATE. (FIELD INSTALLED 4G2,5_E_Arm mm2 _black).	.		Gtangianu 2025-05-05			
C30004357	B	P-ELF-200N1-10-L3-10 C10001817	THE WIRING AND TYPE OF CABLE MUST BE UPDATE. (FIELD INSTALLED 4G2,5_E_Arm mm2 _black).	.		Gtangianu 2025-05-05			

Section 2 CONSOLIDATED PUNCH LISTS

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	83	Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-37	Emergency Lighting Stairs/Transition Piece

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30004046	B	P-ELF-200N1-10-L3-05 C10000827	Missing cable tag SS , near the lamp	.		APolo 2025-02-20	2025-02-26	APolo 2025-02-26	2025-02-26
C30004047	B	ELF-200N1-10-L3-05 C10001323	Missing traffolyte tag side lamp	.		APolo 2025-02-20	2025-02-26	APolo 2025-02-26	2025-02-26
C30004048	B	ELF-200N1-10-L3-05 C10001323	Missing cores identification tag. . inside lamp . (see document 123A90-DDL-IN-DG-40016 sh.3)	.		APolo 2025-02-20	2025-02-26	APolo 2025-02-26	2025-02-26
C30004049	B	ELF-200N1-10-L3-05 C10001323	The support is not well secured against vibration. another bracket needs to be added.	.		APolo 2025-02-20	2025-03-07	Gtangianu 2025-03-07	2025-03-07
C30004050	B	P-EJB-200N1-10-L3-03 C10000826	Missing cable tag SS , coiled cable side	.		APolo 2025-02-20	2025-02-26	APolo 2025-02-26	2025-02-26
C30004162	B	P-EJB-200N1-09-L2-17 C10002065	Missing the SS cable tag side (EJB-200N1-09-L2-04).	.		Gtangianu 2025-02-27	2025-03-26	Gtangianu 2025-03-26	2025-03-26
C30004236	B	P-EJB-200N1-10-L3-02 C10000824	Missing cable tag both side .(P-EJB-200N1-10-L3-02).See attached photo.	.		Gtangianu 2025-03-11	2025-04-02	Gtangianu 2025-04-02	2025-04-02
C30004332	B	ELF-200N1-10-L3-01 C10001316	Light and cable are installed in temporary position due to missing mechanical support .	.	Closed during checks performed in Eemshaven.	Gtangianu 2025-04-17	RDegliEsposti 2025-10-20	RDegliEsposti 2025-10-20	2025-10-20
C30004333	B	EJB-200N1-10-L3-02 C10001429	EJB-200N1-10-L3-02 and cable are installed in temporary position due to missing mechanical support	.	Closed during checks performed in Eemshaven.	Gtangianu 2025-04-17	RDegliEsposti 2025-10-20	RDegliEsposti 2025-10-20	2025-10-20

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	83	Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-37	Emergency Lighting Stairs/Transition Piece

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30004334	B	C-ELS-200N1-09-L2-01 C10000818	Missing tag wires bot side the cable. See attached photo.	.		Gtangianu 2025-04-24	2025-05-13	Gtangianu 2025-05-13	2025-05-13
C30004335	B	ELS-200N1-09-L2-01 C10003048	The trafolite tag is not installed. See attached photo.	.		Gtangianu 2025-04-24	2025-05-15	Gtangianu 2025-05-15	2025-05-15
C30004343	B	ELF-200N1-10-L3-06 C10001322	Missing trafolite tag.	.		Gtangianu 2025-04-29	2025-04-30	Gtangianu 2025-04-30	2025-04-30
C30004344	B	ELF-200N1-10-L3-11 C10001843	Missing trafolite tag.	.		Gtangianu 2025-04-29	2025-04-30	Gtangianu 2025-04-30	2025-04-30
C30004345	B	ELF-200N1-10-L3-12 C10001844	Missing trafolite tag.	.		Gtangianu 2025-04-29	2025-04-30	Gtangianu 2025-04-30	2025-04-30
C30004351	B	ELF-200N1-10-L3-09 C10001858	Not installed the protection plug on the unistrut support. See attached photo	.		Gtangianu 2025-05-05	2025-05-09	Gtangianu 2025-05-09	2025-05-09
C30004352	B	ELF-200N1-10-L3-14 C10002076	Not installed the protection plug on the unistrut support. See attached photo-.	.		Gtangianu 2025-05-05	2025-05-09	Gtangianu 2025-05-09	2025-05-09
C30004353	B	ELF-200N1-10-L3-08 C10001328	Not installed the protection plug on the unistrut support. See attached photo	.		Gtangianu 2025-05-05	2025-05-09	Gtangianu 2025-05-09	2025-05-09
C30004354	B	ELF-200N1-10-L3-10 C10001859	Not installed the protection plug on the unistrut support.	.		Gtangianu 2025-05-05	2025-05-09	Gtangianu 2025-05-09	2025-05-09

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	83	Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-37	Emergency Lighting Stairs/Transition Piece

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30004355	B	P-ELF-200N1-10-L3-08 C10000833	THE WIRING AND TYPE OF CABLE MUST BE UPDATE. (FIELD INSTALLED 4G2,5_E_Arm mm2 _black).	.		Gtangianu 2025-05-05	2025-06-20	Ecarotenuto 2025-06-20	2025-06-20
C30004356	B	P-ELF-200N1-10-L3-09 C10001815	THE WIRING AND TYPE OF CABLE MUST BE UPDATE. (FIELD INSTALLED 4G2,5_E_Arm mm2 _black).	.		Gtangianu 2025-05-05	2025-06-20	Ecarotenuto 2025-06-20	2025-06-20
C30004357	B	P-ELF-200N1-10-L3-10 C10001817	THE WIRING AND TYPE OF CABLE MUST BE UPDATE. (FIELD INSTALLED 4G2,5_E_Arm mm2 _black).	.		Gtangianu 2025-05-05	2025-06-20	Ecarotenuto 2025-06-20	2025-06-20

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004049

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001323	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-10-L3-05	EMERGENCY LIGHT	
1.3 Subsystem	83-37	Emergency Lighting Stairs/Transition Piece	

2 - OBSERVATION

The support is not well secured against vibration. another bracket needs to be added.

Name: Alessio Polo

Date: 2025-02-20

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-02-20
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installation carried out as per typical 123A90-DDL-EL-DD-20091 and 123A90-DDL-IN-DD-40017 drawing. Eng states that no additional support is needed.

Name: Giovanni Tangianu

Date: 2025-03-07

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004050

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000826	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-10-L3-03	Stair Emergency Lighting JB / Stair Emergency Lighting JB	
1.3 Subsystem	83-37	Emergency Lighting Stairs/Transition Piece	

2 - OBSERVATION

Missing cable tag SS , coiled cable side

Name: Alessio Polo

Date: 2025-02-20

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-02-20
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Alessio Polo

Date: 2025-02-26

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004162

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002065	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-09-L2-17	Emergency Lighting JB / Local Switch	
1.3 Subsystem	83-37	Emergency Lighting Stairs/Transition Piece	

2 - OBSERVATION

Missing the SS cable tag side (EJB-200N1-09-L2-04).

Name: Giovanni Tangianu

Date: 2025-02-27

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	2025-02-27
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

C30004236

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000824	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-10-L3-02	Stair Emergency Lighting JB / Stair Emergency Lighting JB	
1.3 Subsystem	83-37	Emergency Lighting Stairs/Transition Piece	

2 - OBSERVATION

Missing cable tag both side .(P-EJB-200N1-10-L3-02).See attached photo.

Name: Giovanni Tangianu

Date: 2025-03-11

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	2025-03-11
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-04-02

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


PE/PE

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004332

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001316	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-10-L3-01	EMERGENCY LIGHT	
1.3 Subsystem	83-37	Emergency Lighting Stairs/Transition Piece	

2 - OBSERVATION

Light and cable are installed in temporary position due to missing mechanical support .

Name: Giovanni Tangianu
Date: 2025-04-17
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	2025-04-17
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Closed during checks performed in Eemshaven.

Name: Raffaele Degli Esposti
Date: 2025-10-20
Signature:

5 - CLEARANCE CHECK

DONE

Name: Raffaele Degli Esposti
Date: 2025-10-20
Signature:

6- CLEARANCE APPROVAL

Name:
Date: 2025-10-20
Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004333

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001429	1.4 Discipline	Electrical
1.2 Item	EJB-200N1-10-L3-02	JB - EMERGENCY LIGHTING	
1.3 Subsystem	83-37	Emergency Lighting Stairs/Transition Piece	

2 - OBSERVATION

EJB-200N1-10-L3-02 and cable are installed in temporary position due to missing mechanical support

Name: Giovanni Tangianu
Date: 2025-04-17
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	2025-04-17
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Closed during checks performed in Eemshaven.

Name: Raffaele Degli Esposti
Date: 2025-10-20
Signature:

5 - CLEARANCE CHECK

DONE

Name: Raffaele Degli Esposti
Date: 2025-10-20
Signature:

6- CLEARANCE APPROVAL

Name:
Date: 2025-10-20
Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004334

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000818	1.4 Discipline	Electrical
1.2 Item	C-ELS-200N1-09-L2-01	Emergency Lighting JB / Emergency Lighting JB	
1.3 Subsystem	83-37	Emergency Lighting Stairs/Transition Piece	

2 - OBSERVATION

Missing tag wires bot side the cable. See attached photo.

Name: Giovanni Tangianu

Date: 2025-04-24

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	2025-04-24
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installed both side. See attached photo.

Name: Giovanni Tangianu

Date: 2025-05-13

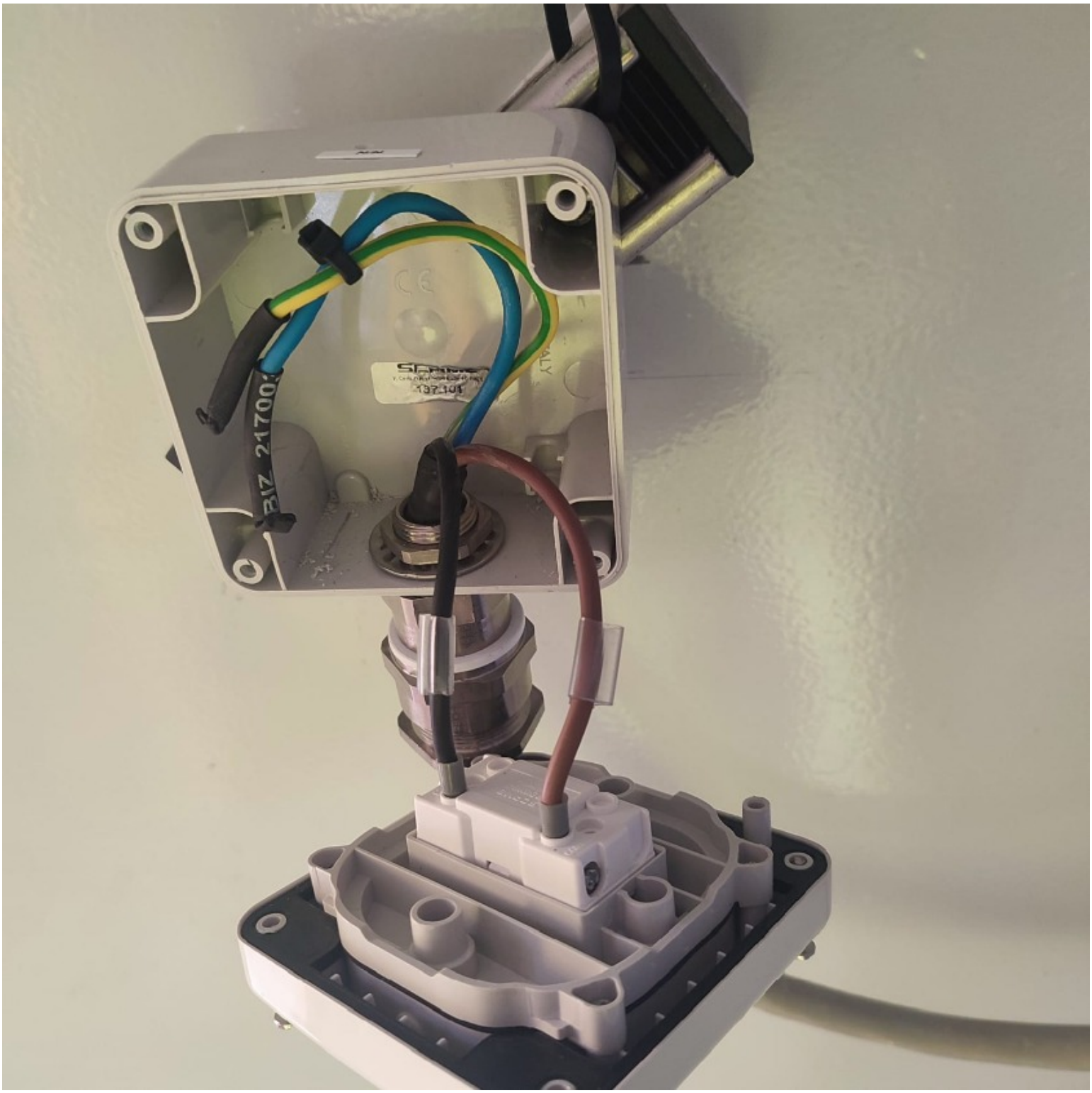
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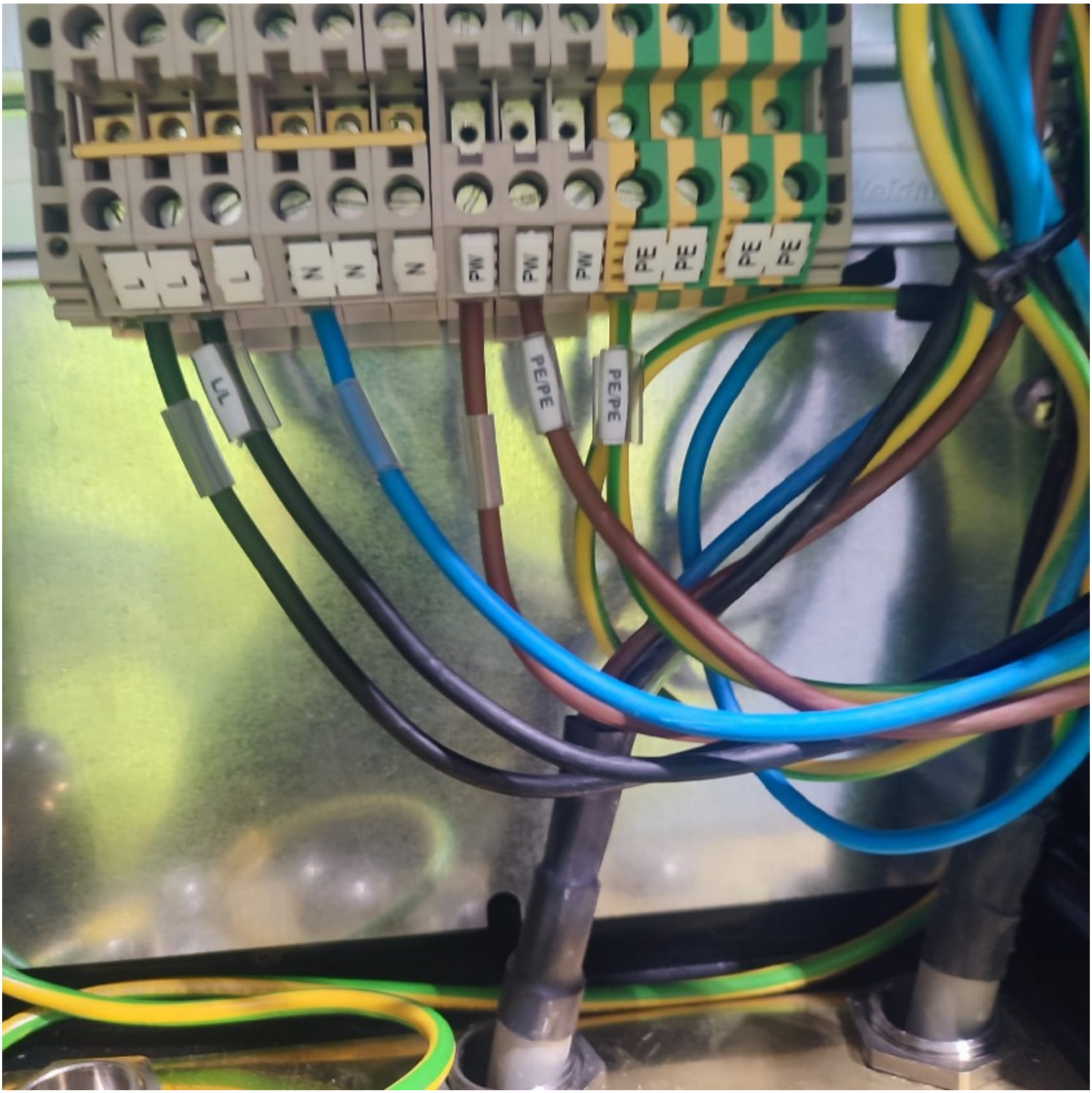
6- CLEARANCE APPROVAL

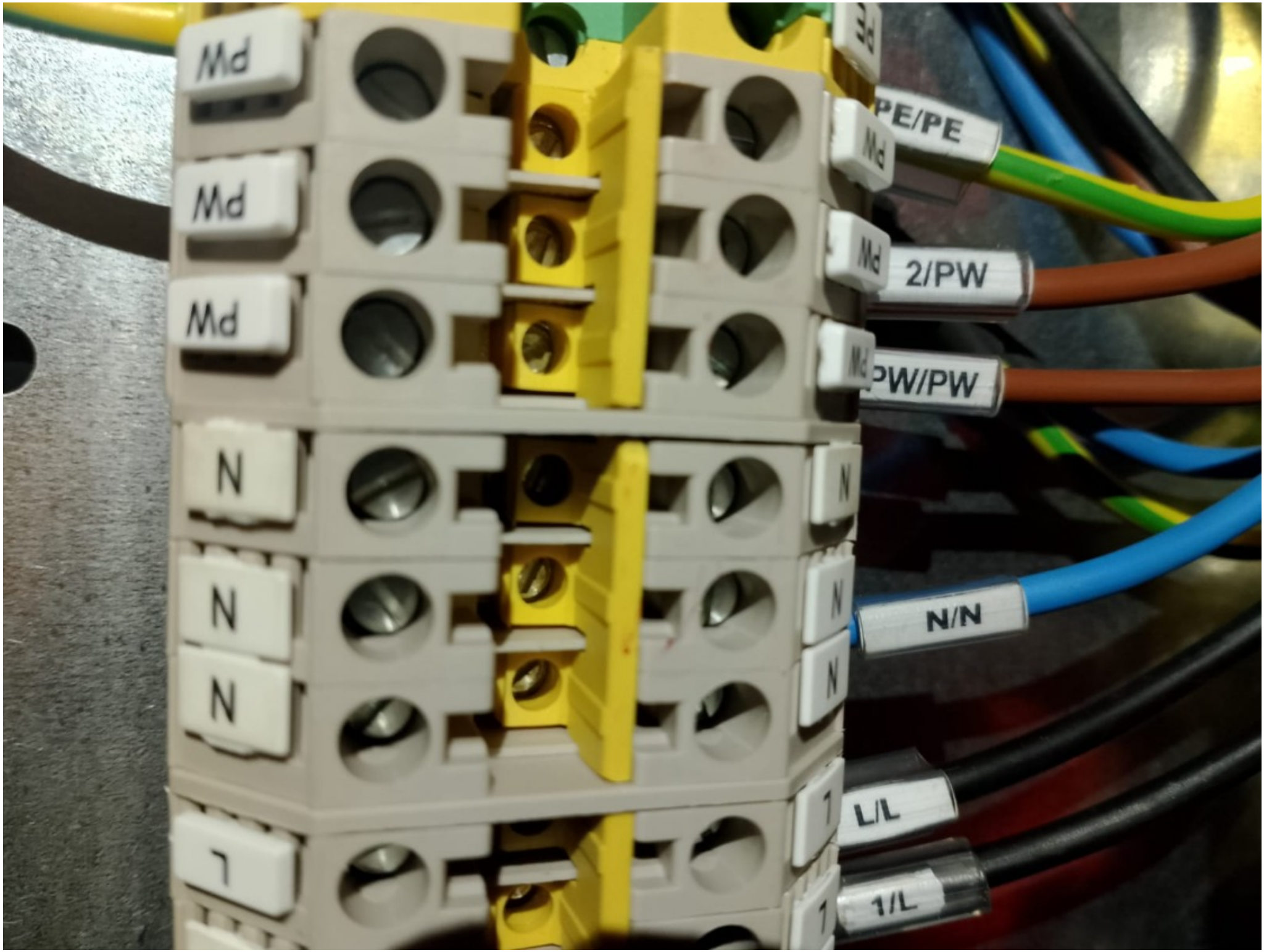
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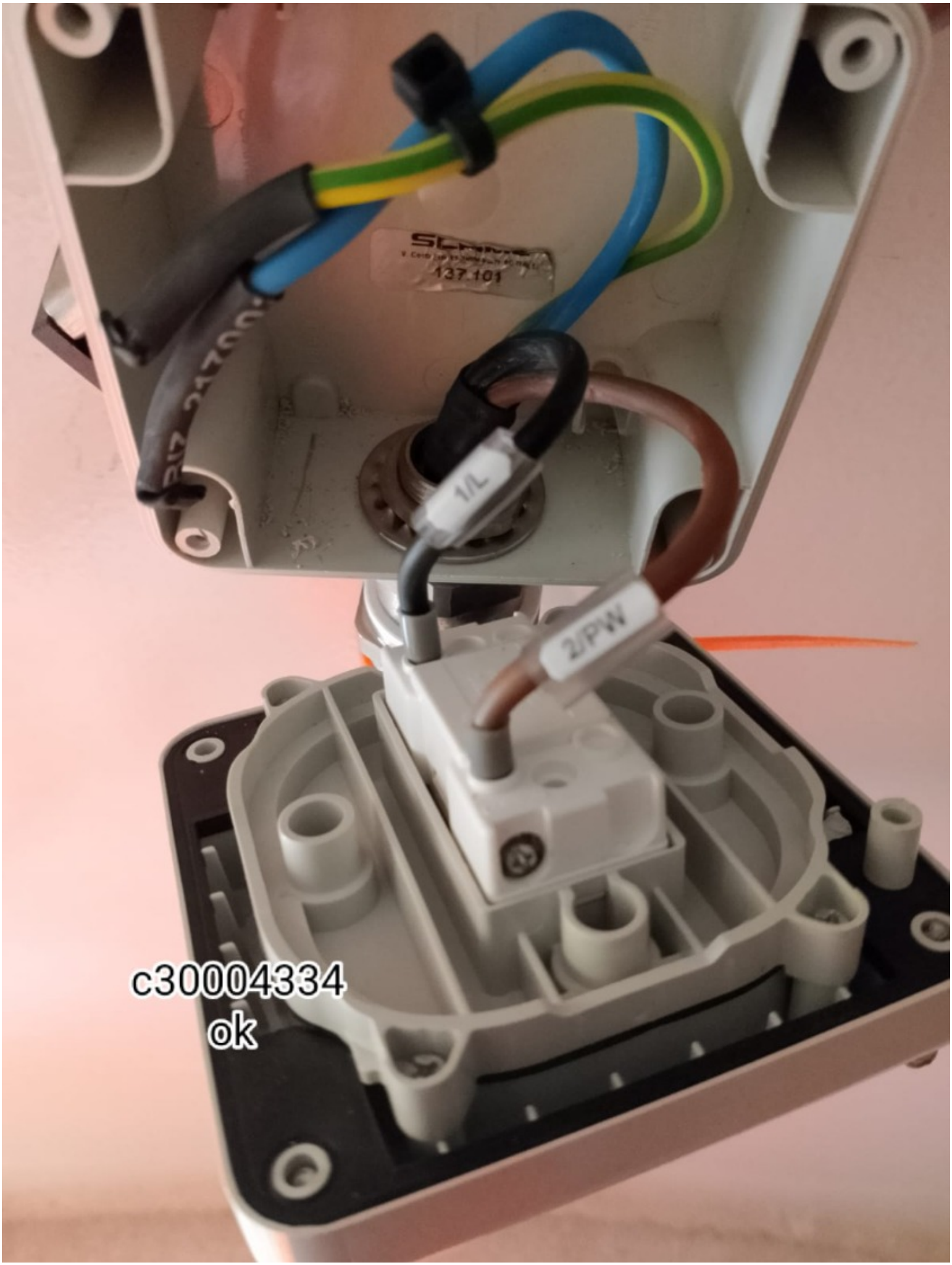
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PW/PW
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2/PW
c30004334
ok

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004335

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10003048	1.4 Discipline	Electrical
1.2 Item	ELS-200N1-09-L2-01	Local Switch	
1.3 Subsystem	83-37	Emergency Lighting Stairs/Transition Piece	

2 - OBSERVATION

The trafolite tag is not installed. See attached photo.

Name: Giovanni Tangianu

Date: 2025-04-24

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	2025-04-24
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

The trafolite tag has been installed.See attached photo.

Name: Giovanni Tangianu

Date: 2025-05-15

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:




ELS-200N1-09-L2-01

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004343

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001322	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-10-L3-06	EMERGENCY LIGHT	
1.3 Subsystem	83-37	Emergency Lighting Stairs/Transition Piece	

2 - OBSERVATION

Missing trafolite tag.

Name: Giovanni Tangianu

Date: 2025-04-29

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	2025-04-29
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date: 2025-04-30

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-04-30

Signature:

6- CLEARANCE APPROVAL

Name:

Date: 2025-04-30

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004344

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001843	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-10-L3-11	Emergency Lighting Fixture	
1.3 Subsystem	83-37	Emergency Lighting Stairs/Transition Piece	

2 - OBSERVATION

Missing trafolite tag.

Name: Giovanni Tangianu

Date: 2025-04-29

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	2025-04-29
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date: 2025-04-30

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-04-30

Signature:

6- CLEARANCE APPROVAL

Name:

Date: 2025-04-30

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004345

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001844	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-10-L3-12	Emergency Lighting Fixture	
1.3 Subsystem	83-37	Emergency Lighting Stairs/Transition Piece	

2 - OBSERVATION

Missing trafolite tag.

Name: Giovanni Tangianu

Date: 2025-04-29

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	2025-04-29
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date: 2025-04-30

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-04-30

Signature:

6- CLEARANCE APPROVAL

Name:

Date: 2025-04-30

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004351

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001858	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-10-L3-09	Emergency Lighting Fixture	
1.3 Subsystem	83-37	Emergency Lighting Stairs/Transition Piece	

2 - OBSERVATION

Not installed the protection plug on the unistrut support. See attached photo

Name: Giovanni Tangianu

Date: 2025-05-05

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	2025-05-05
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date: 2025-05-09

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-05-09

Signature:

6- CLEARANCE APPROVAL

Name:

Date: 2025-05-09

Signature:



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004352

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002076	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-10-L3-14	Emergency Lighting Fixture	
1.3 Subsystem	83-37	Emergency Lighting Stairs/Transition Piece	

2 - OBSERVATION

Not installed the protection plug on the unistrut support. See attached photo-.

Name: Giovanni Tangianu

Date: 2025-05-05

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	2025-05-05
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date: 2025-05-09

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-05-09

Signature:

6- CLEARANCE APPROVAL

Name:

Date: 2025-05-09

Signature:



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004353

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001328	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-10-L3-08	EMERGENCY LIGHT	
1.3 Subsystem	83-37	Emergency Lighting Stairs/Transition Piece	

2 - OBSERVATION

Not installed the protection plug on the unistrut support. See attached photo

Name: Giovanni Tangianu

Date: 2025-05-05

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	2025-05-05
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date: 2025-05-09

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-05-09

Signature:

6- CLEARANCE APPROVAL

Name:

Date: 2025-05-09

Signature:


ELF-200N1-10-L3-08

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004354

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001859	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-10-L3-10	Emergency Lighting Fixture	
1.3 Subsystem	83-37	Emergency Lighting Stairs/Transition Piece	

2 - OBSERVATION

Not installed the protection plug on the unistrut support.

Name: Giovanni Tangianu

Date: 2025-05-05

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	2025-05-05
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date: 2025-05-09

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-05-09

Signature:

6- CLEARANCE APPROVAL

Name:

Date: 2025-05-09

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004355

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000833	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-10-L3-08		Stair Emergency Lighting JB / Stair Emergency Lighting Fixture
1.3 Subsystem	83-37		Emergency Lighting Stairs/Transition Piece

2 - OBSERVATION

THE WIRING AND TYPE OF CABLE MUST BE UPDATE.
(FIELD INSTALLED 4G2,5_E_Arm mm2 _black).

Name: Giovanni Tangianu
Date: 2025-05-05
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	2025-05-05
3.5 Action by	ENG Engineering	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

Document alligned

Name: Eleonora Carotenuto
Date: 2025-06-20
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004356

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001815	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-10-L3-09		Stair Emergency Lighting JB / Stair Emergency Lighting Fixture
1.3 Subsystem	83-37		Emergency Lighting Stairs/Transition Piece

2 - OBSERVATION

THE WIRING AND TYPE OF CABLE MUST BE UPDATE.
(FIELD INSTALLED 4G2,5_E_Arm mm2 _black).

Name: Giovanni Tangianu
Date: 2025-05-05
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	2025-05-05
3.5 Action by	ENG Engineering	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

Document alligned

Name: Eleonora Carotenuto
Date: 2025-06-20
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004357

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001817	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-10-L3-10		Stair Emergency Lighting JB / Stair Emergency Lighting Fixture
1.3 Subsystem	83-37		Emergency Lighting Stairs/Transition Piece

2 - OBSERVATION

THE WIRING AND TYPE OF CABLE MUST BE UPDATE.
(FIELD INSTALLED 4G2,5_E_Arm mm2 _black).

Name: Giovanni Tangianu
Date: 2025-05-05
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	2025-05-05
3.5 Action by	ENG Engineering	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

Document alligned

Name: Eleonora Carotenuto
Date: 2025-06-20
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004046

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000827	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-10-L3-05		Stair Emergency Lighting JB / Stair Emergency Lighting Fixture
1.3 Subsystem	83-37		Emergency Lighting Stairs/Transition Piece

2 - OBSERVATION

Missing cable tag SS , near the lamp

Name: Alessio Polo

Date: 2025-02-20

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-02-20
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Alessio Polo

Date: 2025-02-26

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004047

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001323	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-10-L3-05	EMERGENCY LIGHT	
1.3 Subsystem	83-37	Emergency Lighting Stairs/Transition Piece	

2 - OBSERVATION

Missing traffolyte tag side lamp

Name: Alessio Polo

Date: 2025-02-20

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-02-20
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

DONE

Name: Alessio Polo

Date: 2025-02-26

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30004048

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001323	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-10-L3-05	EMERGENCY LIGHT	
1.3 Subsystem	83-37	Emergency Lighting Stairs/Transition Piece	

2 - OBSERVATION

Missing cores identification tag. . inside lamp . (see document 123A90-DDL-IN-DG-40016 sh.3)

Name: Alessio Polo
Date: 2025-02-20
Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Alessio Polo
3.4 Activity code	MC Mechanical Completion	Date	2025-02-20
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:
Date:
Signature:

5 - CLEARANCE CHECK

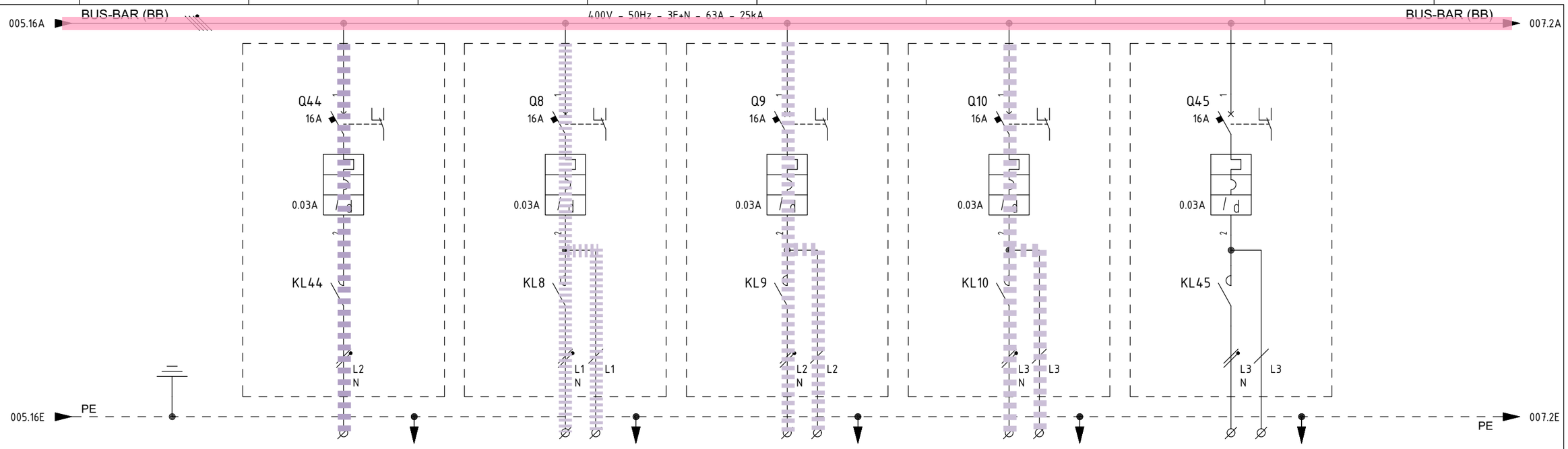
DONE

Name: Alessio Polo
Date: 2025-02-26
Signature:

6- CLEARANCE APPROVAL

Name:
Date:
Signature:

Section 3 SYSTEM,SUB-SYSTEM LIMIT DRAWINGS



ITEM			1	-		EJB-200N1-08-L1-01		EJB-200N1-09-L2-01		EJB-200N1-10-L3-01		-			
UTILITY			2	NORMAL LIGHTING - SPARE		EMERGENCY LIGHTING UPPER DECK		EMERGENCY LIGHTING LOWER DECK		EMERGENCY LIGHTING STAIRS		EMERGENCY LIGHTING - SPARE			
CUBICLE			3	+02		+02		+02		+02		+02			
RATED POWER	RATED CURRENT		4/5	1 KW	4.58 A	1.5 KW	6.86 A	1.5 KW	6.86 A	0.30 KW	1.37 A	1.5 KW	6.86 A		
TYPICAL FUNCTIONAL			6	-		-		-		-		-			
CIRCUIT BREAKER (ABB)	TYPE		7	S302P-C16 + DDA202 AC-25/0.03		S302P-D16 + DDA202 AC-25/0.03		S302P-D16 + DDA202 AC-25/0.03		S302P-D16 + DDA202 AC-25/0.03		S302P-D16 + DDA202 AC-25/0.03			
	VERSION		8	2P / MINIATURE		2P / MINIATURE		2P / MINIATURE		2P / MINIATURE		2P / MINIATURE			
	TRIP UNITS		9	In=16A - Curve C / Id=0.03A Class AC		In=16A - Curve D / Id=0.03A Class AC		In=16A - Curve D / Id=0.03A Class AC		In=16A - Curve D / Id=0.03A Class AC		In=16A - Curve D / Id=0.03A Class AC			
	Icu	KA	10	25KA		25KA		25KA		25KA		25KA			
OVERLOAD	L	Range A	11	-		-		-		-		-			
		Range t	12	-		-		-		-		-			
SEL. SHORT-CIRCUIT	S	Range A	13	-		-		-		-		-			
		Range t	14	-		-		-		-		-			
INST. SHORT-CIRCUIT	I	Range A	15	-		-		-		-		-			
		Range t	16	-		-		-		-		-			
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		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	-		-		-		-		-			
TOROIDAL CURRENT TRANSFORMER (FRER)			22	-		-		-		-		-			
FUSE HOLDER (ABB)			23	-		-		-		-		-			
TWILIGHT SWITCH (ABB)			24	-		-		-		-		-			
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 / 4		SCREW / 4		SCREW / 4		SCREW / 4		SCREW / 4			
POWER CONDUCTOR		mm²	31	-		4G4_E		4G4_E		4G4_E		-			

SUBSYSTEM 83-43

SUBSYSTEM 83-35

SUBSYSTEM 83-36

SUBSYSTEM 83-37

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 006

REV. 03

F.to UNI A3: 420mmx297mm

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

Section 4 MECHANICAL COMPLETION STATUS INDEX - BUILDING DISCIPLINE

NOT APPLICABLE

Section 5 MECHANICAL COMPLETION STATUS INDEX - ELECTRICAL DISCIPLINE

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 83-37 & process: MC & discipline : E

Electrical	83-37 Emergency Lighting Stairs/Transition Piece						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
EJB-200N1-10-L3-01	JB Emergency Lighting stairs	ONSHORE	C10001302	CPX31	100	2025-01-31	RFC 3
EJB-200N1-10-L3-02	JB - EMERGENCY LIGHTING	ONSHORE	C10001429	CPX31	100	2025-04-17	RFC 3
EJB-200N1-10-L3-03	JB - EMERGENCY LIGHTING	ONSHORE	C10001430	CPX31	100	2025-02-20	RFC 3
EJB-200N1-10-L3-04	JB - EMERGENCY LIGHTING	ONSHORE	C10001431	CPX31	100	2025-01-30	RFC 3
EJB-200N1-10-L3-05	JB - EMERGENCY LIGHTING	ONSHORE	C10001432	CPX31	100	2025-04-29	RFC 3
EJB-200N1-10-L3-06	JB - EMERGENCY LIGHTING	ONSHORE	C10001312	CPX31	100	2025-05-05	RFC 3
EJB-200N1-10-L3-07	JB - EMERGENCY LIGHTING	ONSHORE	C10001840	CPX31	100	2025-05-05	RFC 3
ELF-200N1-10-L3-01	EMERGENCY LIGHT	ONSHORE	C10001316	CPX00	100	2025-04-17	RFC 3
ELF-200N1-10-L3-02	EMERGENCY LIGHT	ONSHORE	C10001320	CPX00	100	2025-01-24	RFC 3
ELF-200N1-10-L3-03	EMERGENCY LIGHT	ONSHORE	C10001321	CPX00	100	2025-01-24	RFC 3
ELF-200N1-10-L3-04	EMERGENCY LIGHT	ONSHORE	C10001325	CPX00	100	2025-01-24	RFC 3
ELF-200N1-10-L3-05	EMERGENCY LIGHT	ONSHORE	C10001323	CPX00	100	2025-02-20	RFC 3
ELF-200N1-10-L3-06	EMERGENCY LIGHT	ONSHORE	C10001322	CPX00	100	2025-04-29	RFC 3
ELF-200N1-10-L3-07	EMERGENCY LIGHT	ONSHORE	C10001329	CPX00	100	2025-04-30	RFC 3
ELF-200N1-10-L3-08	EMERGENCY LIGHT	ONSHORE	C10001328	CPX00	100	2025-05-05	RFC 3
ELF-200N1-10-L3-09	Emergency Lighting Fixture	ONSHORE	C10001858	CPX00	100	2025-05-05	RFC 3
ELF-200N1-10-L3-10	Emergency Lighting Fixture	ONSHORE	C10001859	CPX00	100	2025-05-05	RFC 3
ELF-200N1-10-L3-11	Emergency Lighting Fixture	ONSHORE	C10001843	CPX00	100	2025-04-29	RFC 3
ELF-200N1-10-L3-12	Emergency Lighting Fixture	ONSHORE	C10001844	CPX00	100	2025-04-29	RFC 3
ELF-200N1-10-L3-13	Emergency Lighting Fixture	ONSHORE	C10001860	CPX00	100	2025-04-30	RFC 3
ELF-200N1-10-L3-14	Emergency Lighting Fixture	ONSHORE	C10002076	CPX00	100	2025-05-05	RFC 3
P-EJB-200N1-10-L3-01	Lighting & Small Power DB BoP / Emergency Lighting stairs	ONSHORE	C10000612	CPX09	100	2025-01-23	RFC 3
P-EJB-200N1-10-L3-02	Stair Emergency Lighting JB / Stair Emergency Lighting JB	ONSHORE	C10000824	CPX09	100	2025-03-11	-
		OFFSHORE	C10004921	CPX09	0	-	-
P-EJB-200N1-10-L3-03	Stair Emergency Lighting JB / Stair Emergency Lighting JB	ONSHORE	C10000826	CPX09	100	2025-02-20	-
		OFFSHORE	C10004922	CPX09	0	-	-
P-EJB-200N1-10-L3-04	Stair Emergency Lighting JB / Stair Emergency Lighting JB	ONSHORE	C10000828	CPX09	100	2025-01-30	RFC 3
P-EJB-200N1-10-L3-05	Stair Emergency Lighting JB / Stair Emergency Lighting JB	ONSHORE	C10000830	CPX09	100	2025-04-17	-
		OFFSHORE	C10004680	CPX09	0	-	-

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 83-37 & process: MC & discipline : E

Electrical	83-37 Emergency Lighting Stairs/Transition Piece						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
P-EJB-200N1-10-L3-06	Stair Emergency Lighting JB / Stair Emergency Lighting JB	ONSHORE	C10000832	CPX09	100	2025-04-29	RFC 3
P-EJB-200N1-10-L3-07	Stair Emergency Lighting JB / Stair Emergency Lighting JB	ONSHORE	C10001813	CPX09	100	2025-05-05	RFC 3
P-ELF-200N1-10-L3-01	Stair Emergency Lighting JB / Stair Emergency Lighting Fixture	ONSHORE	C10000817	CPX09	100	2025-04-17	RFC 3
P-ELF-200N1-10-L3-02	Stair Emergency Lighting JB / Stair Emergency Lighting Fixture	ONSHORE	C10000747	CPX09	100	2025-01-24	RFC 3
P-ELF-200N1-10-L3-03	Stair Emergency Lighting Fixture / Stair Emergency Lighting Fixture	ONSHORE	C10000748	CPX09	100	2025-01-24	RFC 3
P-ELF-200N1-10-L3-04	Stair Emergency Lighting JB / Stair Emergency Lighting Fixture	ONSHORE	C10000825	CPX09	100	2025-01-24	RFC 3
P-ELF-200N1-10-L3-05	Stair Emergency Lighting JB / Stair Emergency Lighting Fixture	ONSHORE	C10000827	CPX09	100	2025-02-20	RFC 3
P-ELF-200N1-10-L3-06	Stair Emergency Lighting JB / Stair Emergency Lighting Fixture	ONSHORE	C10000829	CPX09	100	2025-04-29	RFC 3
P-ELF-200N1-10-L3-07	Stair Emergency Lighting JB / Stair Emergency Lighting Fixture	ONSHORE	C10000831	CPX09	100	2025-04-30	RFC 3
P-ELF-200N1-10-L3-08	Stair Emergency Lighting JB / Stair Emergency Lighting Fixture	ONSHORE	C10000833	CPX09	100	2025-05-05	RFC 3
P-ELF-200N1-10-L3-09	Stair Emergency Lighting JB / Stair Emergency Lighting Fixture	ONSHORE	C10001815	CPX09	100	2025-05-05	RFC 3
P-ELF-200N1-10-L3-10	Stair Emergency Lighting JB / Stair Emergency Lighting Fixture	ONSHORE	C10001817	CPX09	100	2025-05-05	RFC 3
P-ELF-200N1-10-L3-11	Stair Emergency Lighting JB / Stair Emergency Lighting Fixture	ONSHORE	C10001818	CPX09	100	2025-04-29	RFC 3
P-ELF-200N1-10-L3-12	Stair Emergency Lighting JB / Stair Emergency Lighting Fixture	ONSHORE	C10001819	CPX09	100	2025-04-29	RFC 3
P-ELF-200N1-10-L3-13	Stair Emergency Lighting JB / Stair Emergency Lighting Fixture	ONSHORE	C10001820	CPX09	100	2025-04-30	RFC 3
P-ELF-200N1-10-L3-14	Emergency Lighting Fixture / Emergency Lighting Fixture	ONSHORE	C10002066	CPX09	100	2025-05-05	RFC 3

ITEM	Tag	P-EJB-200N1-10-L3-01	: Lighting & Small Power DB BoP / Emergency Lighting stairs		Dwg	123A90-DDL-EL-LIS-20148	
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece		Module	LD_B-200/LD	
TASK	code	C10000612	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline Electrical	Form	CPX09	LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 4G4_E mm2 Color GREY

From DP-200N1 To EJB-200N1-10-L3-01

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	OK
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	OK
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ITEM	Tag	P-EJB-200N1-10-L3-01	: Lighting & Small Power DB BoP / Emergency Lighting stairs			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	LD_B-200/LD
TASK	code	C10000612		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

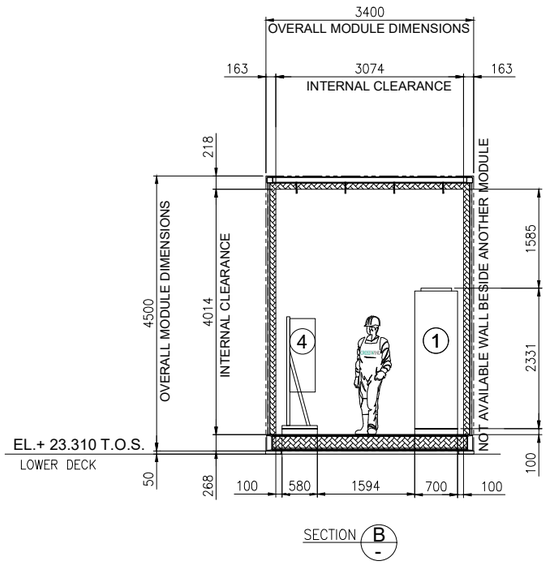
CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,6	
6		PH 2	0,6	
7		PH 3	0,6	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,6	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	VOLCRAFT 1000V - ET-200 S/N:H240103023	TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207
Calibration certificate N° and date:	N°LAT 042 00768/24 _ 12/10/2024	Calibration certificate N° and date:	N°7722/24 _ 10/07/2024

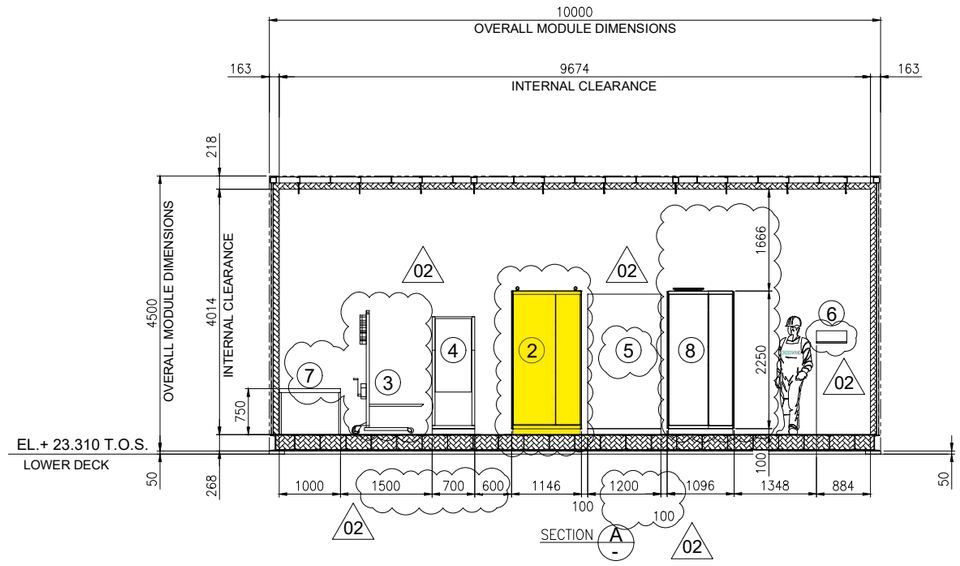
Comments: Nota 4: refer to PL C30000679

	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Paolo Schintu	
Date	2025-01-23	2025-01-23	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-23T08:12:41.258Z	PROVERLIS Digitaly signed by Paolo Schintu 2025-01-23T14:51:03.676Z	

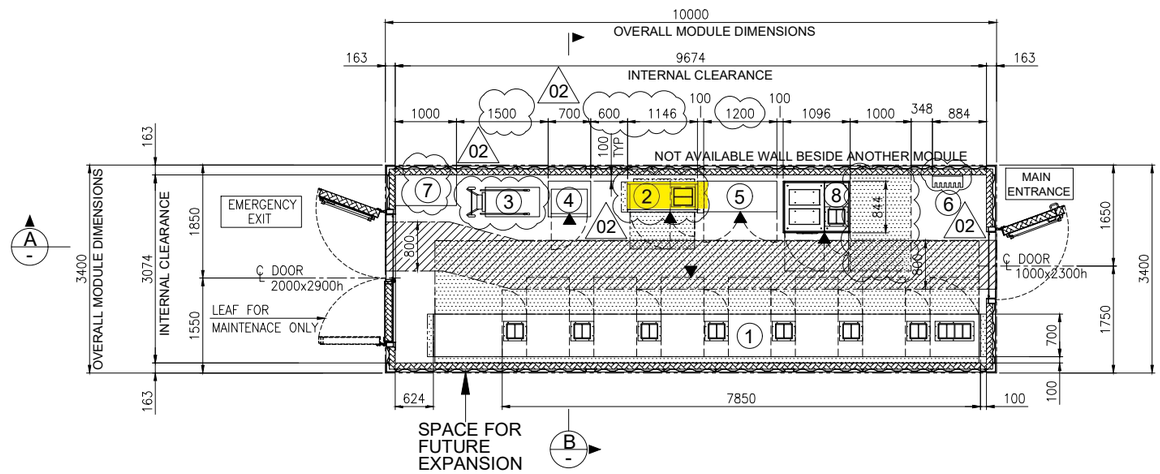
DRAWING NO. 123A90-DDL-EL-DL-20105 | REV. 02



SECTION B



SECTION A

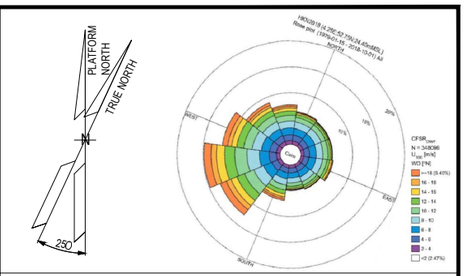


EQUIPMENT LAYOUT
"B-200" LV (400V) SWITCHGEAR ROOM
BOTTOM PLAN

1

EQUIPMENT LIST

REF.	TAG No.	DESCRIPTION	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	NOTE
1	SG-200N1	400V SWITCHGEAR	7850	700	2331	
2	DP-200N1	DISTRIBUTION BOARD FOR LIGHTING AND SMALL POWER B.O.P.	1146	520	2250	
3	-	SERVICE TROLLEY FOR 400V SWITCHGEAR	1034	490	2030	
4	CN-200N1	ICCP PANEL	700	580	1830	
5	B200-HSB-001	DISTRIBUTION & HVAC PANEL - LV ROOM	1200	600	1900	02
6	-	TOOL BOX	495	200	200	
7	-	TABLE	1000	500	750	
8	SG-200D2	ACB PANEL FOR SOLAR PACKAGE	1096	844	2294	



NOTES

1. U.N.O. ALL DIMENSIONS ARE IN MILLIMETERS.
2. DELETED.
3. DOCUMENT VALID ONLY FOR ELECTRICAL COMPONENT, FOR OTHER SCOPE LOCATION AND INFORMATION, PLEASE REFER TO VENDORS AND PROJECT DOCUMENTS.
4. FOR OTHER ITEMS, CORRECT LOCATION AND INFORMATION, PLEASE REFER TO VENDORS AND DEDICATED PROJECT DOCUMENTATION.
5. HEIGHT OF ALL PANELS IN THE EQUIPMENT LIST TABLE IS WITHOUT THE BASE FRAME (100mm)

02

LEGEND

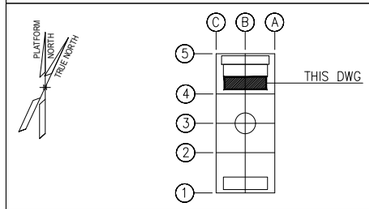
U.N.O. _____ UNLESS NOTED OTHERWISE
T.O.S. _____ TOP OF STEEL
_____ ESCAPE CORRIDOR - WIDTH 800mm.
_____ MAINTENANCE AREA - VENDOR REQUIREMENT
_____ SWITCHGEAR ROOM ENCLOUSURE
_____ FRONT OF EQUIPMENT

REFERENCES

DOCUMENT TITLE	DOCUMENT NUMBER
SG-200N1 GENERAL ARRANGEMENT DRAWING	1723002197-EL-DA-00007
SG-200D2 GENERAL ARRANGEMENT DRAWING	1723002197-EL-DA-00008
DP-200N1 GENERAL ARRANGEMENT DRAWING	1723002197-EL-DA-00009
AC UPS – GENERAL ARRANGEMENT AND DIMENSIONAL DRAWINGS	1724000372-EL-DA-00004
AC UPS – BATTERY LAYOUT INTERCONNECTING DIAGRAM	1724000372-EL-DG-00011
B-200 -GENERAL ARRANGEMENT DRAWINGS - E&I SHELTER	1724000049-AR-DA-00015
ICCC PANEL GENERAL ARRANGEMENT DRAWING	144671-CORR-TF-FAB-DWG-0003

02

KEY PLAN



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20105**

REV.:	DATE:	SIGNATURE:
2_A	08/08/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	27/05/2024	FMO	LMA/AMA	LMA/MDO	ACCEPTED FOR CONSTRUCTION (AFC)
01	26/03/2024	GPA	LMA/AMA	LMA/MDO	ISSUE FOR REVIEW (IFR)
00	08/11/2023	DSF	CB/AMA	OYFO/MDO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

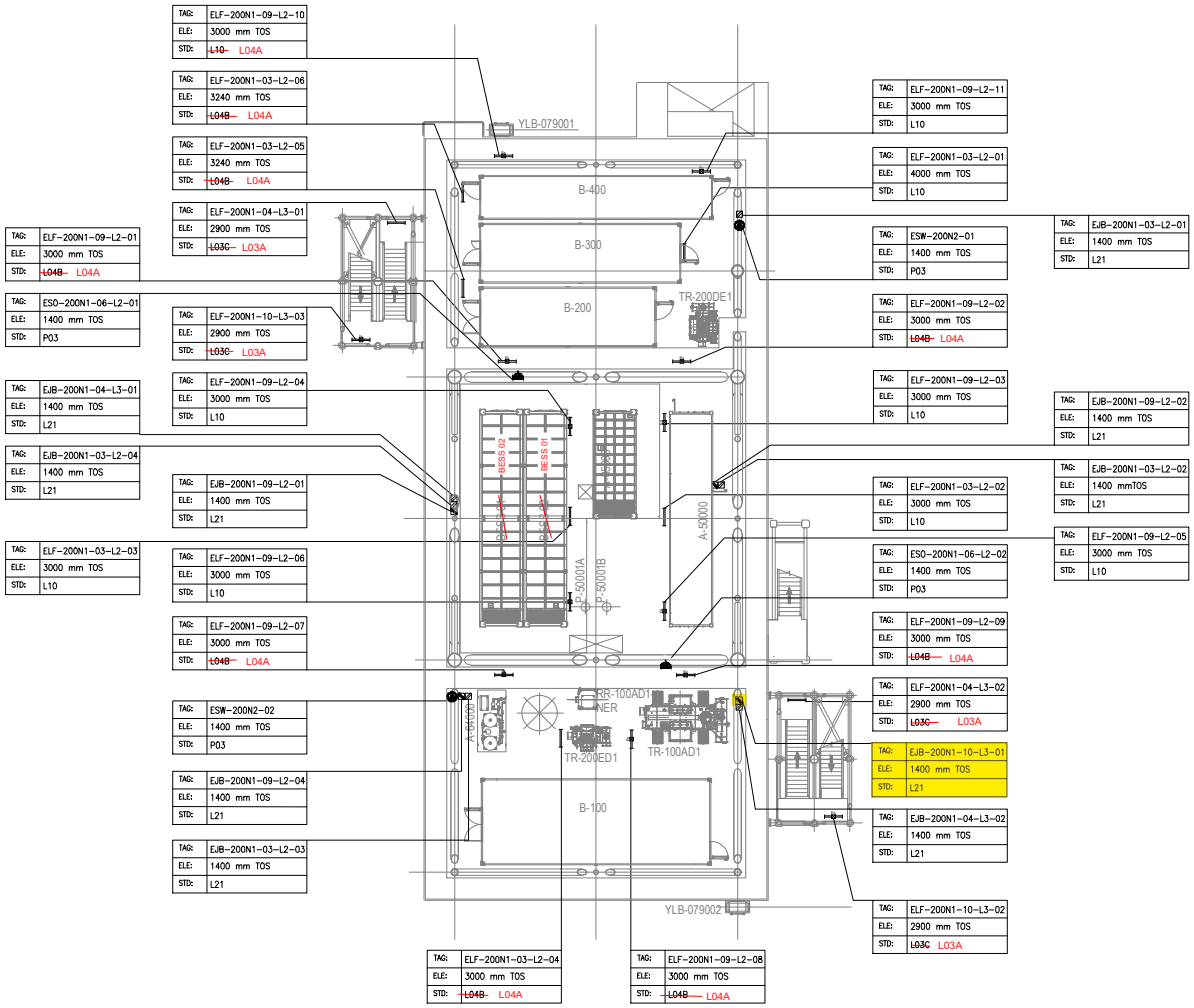
TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL EQUIPMENT LAYOUT
LV SWITCHROOM

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:50
DRAWN FMO	CHECKED LMA/AMA	APPROVED LMA/MDO	DATE 27/05/2024
A1	DRAWING NO. 123A90-DDL-EL-DL-20105	SHEET 001	REV. 02

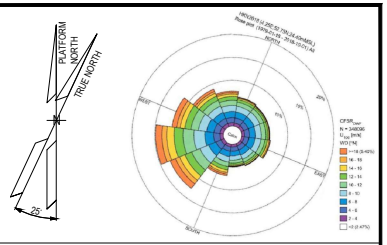
File Name : 123A90-DDL-EL-DL-20105_REV02.dwg

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

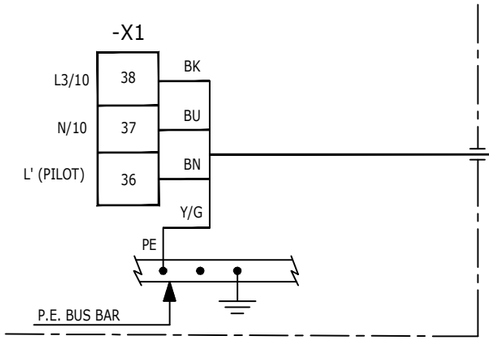
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

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

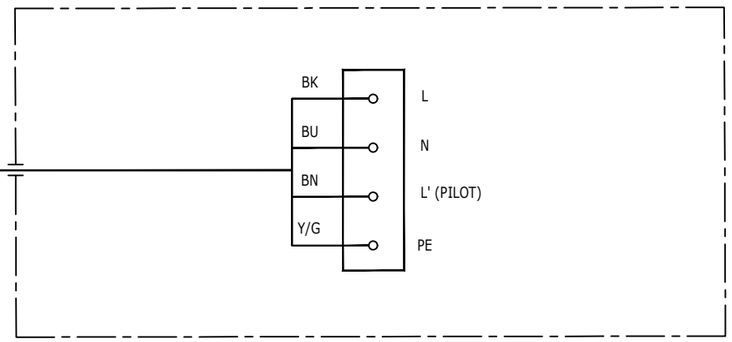
FROM	TO

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

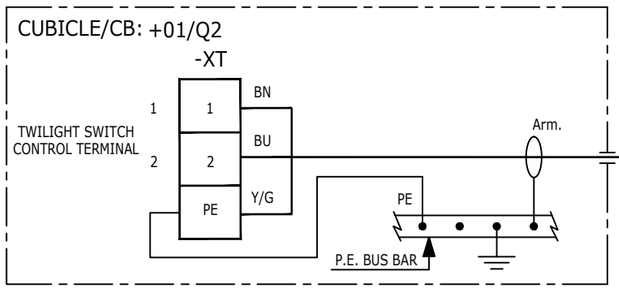


P-EJB-200N1-10-L3-01
4G4_E mm²

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

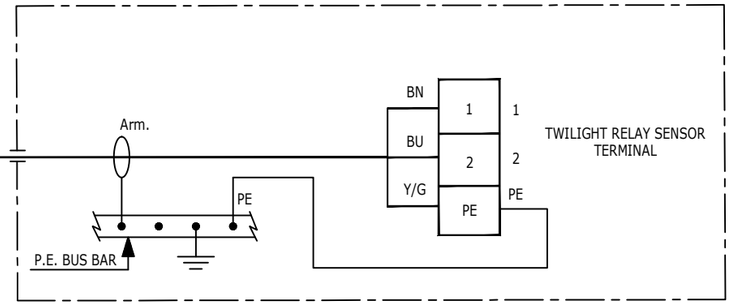


DESCRIPTION: LIGHTING & SMALL POWER DB BOP
TAG NUMBER: DP-200N1
CUBICLE/CB: +01/Q2

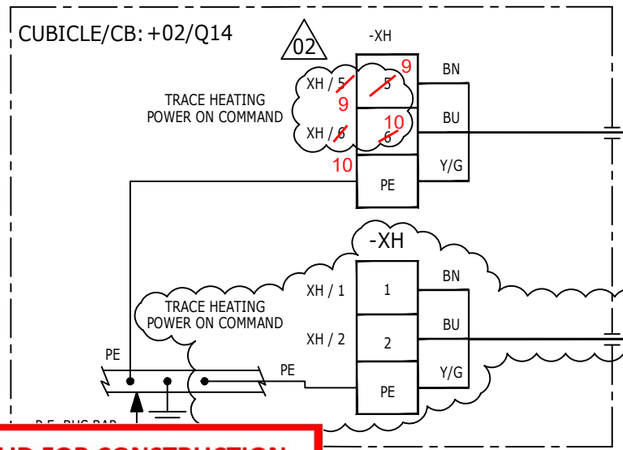


P-EPH-200N1-01
3G4 mm²

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



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

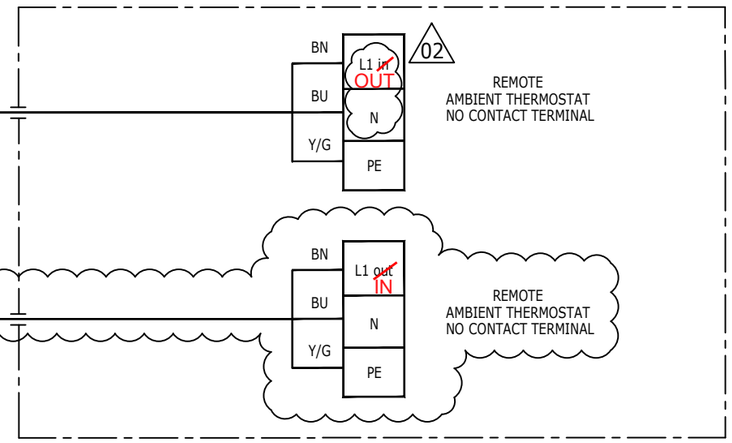


P-EAT-200N1-01
3G2.5 mm²

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_I	20/01/25	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

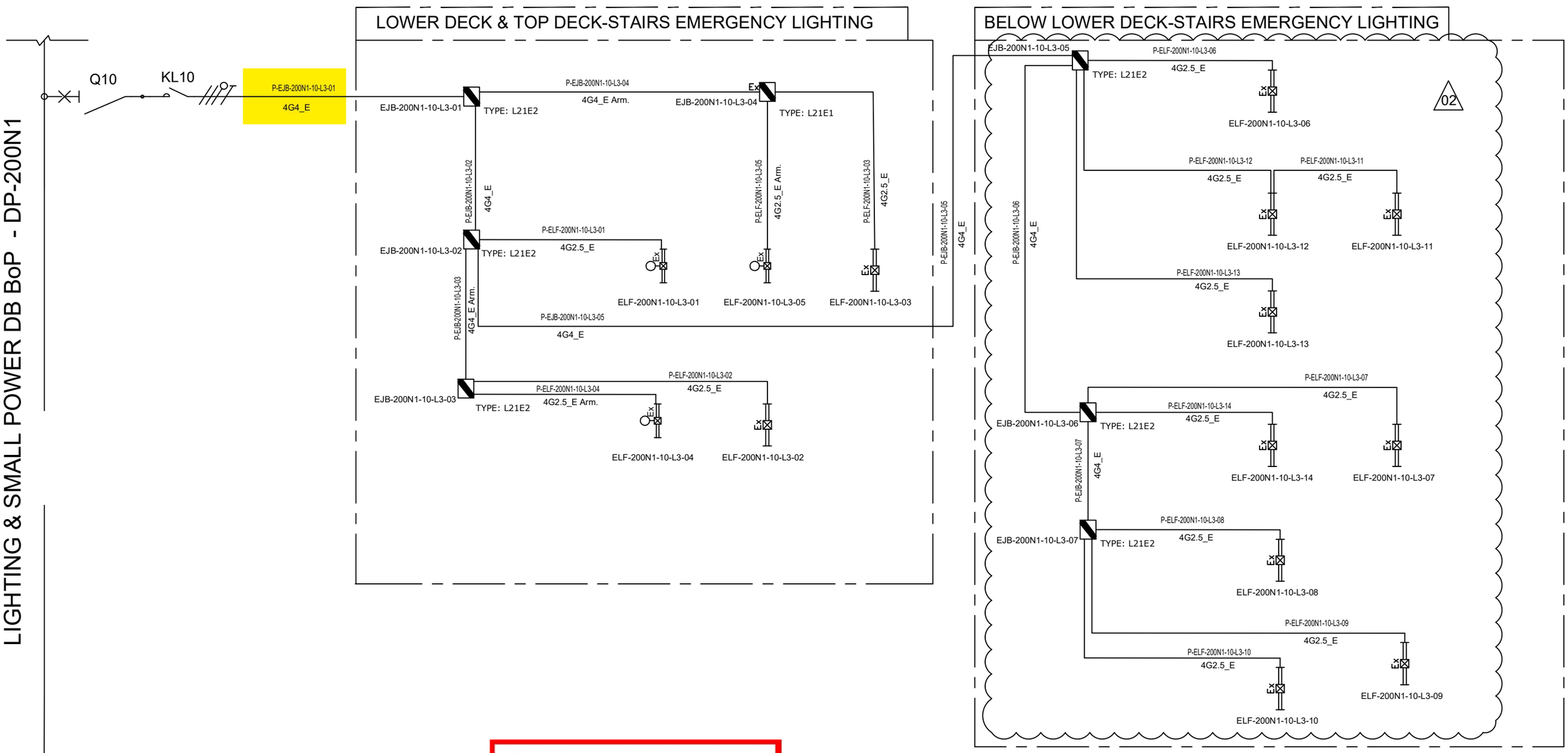
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : 1:X

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

F.to UNI A3: 420mmx297mm

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

LIGHTING & SMALL POWER DB BoP - DP-200N1



NOTE:	
ELF-200N1-10-L3-01	LOWER DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-02	
ELF-200N1-10-L3-03	
ELF-200N1-10-L3-04	TOP DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-05	

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

REV.:	DATE:	SIGNATURE:
2_G	16/01/25	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
			ELF-200N1-10-L3-09		
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
STAIRS EMERGENCY LIGHTING (LOWER DECK,TOP DECK AND BELOW LOWER DECK)

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

SCALE : NTS

A3

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

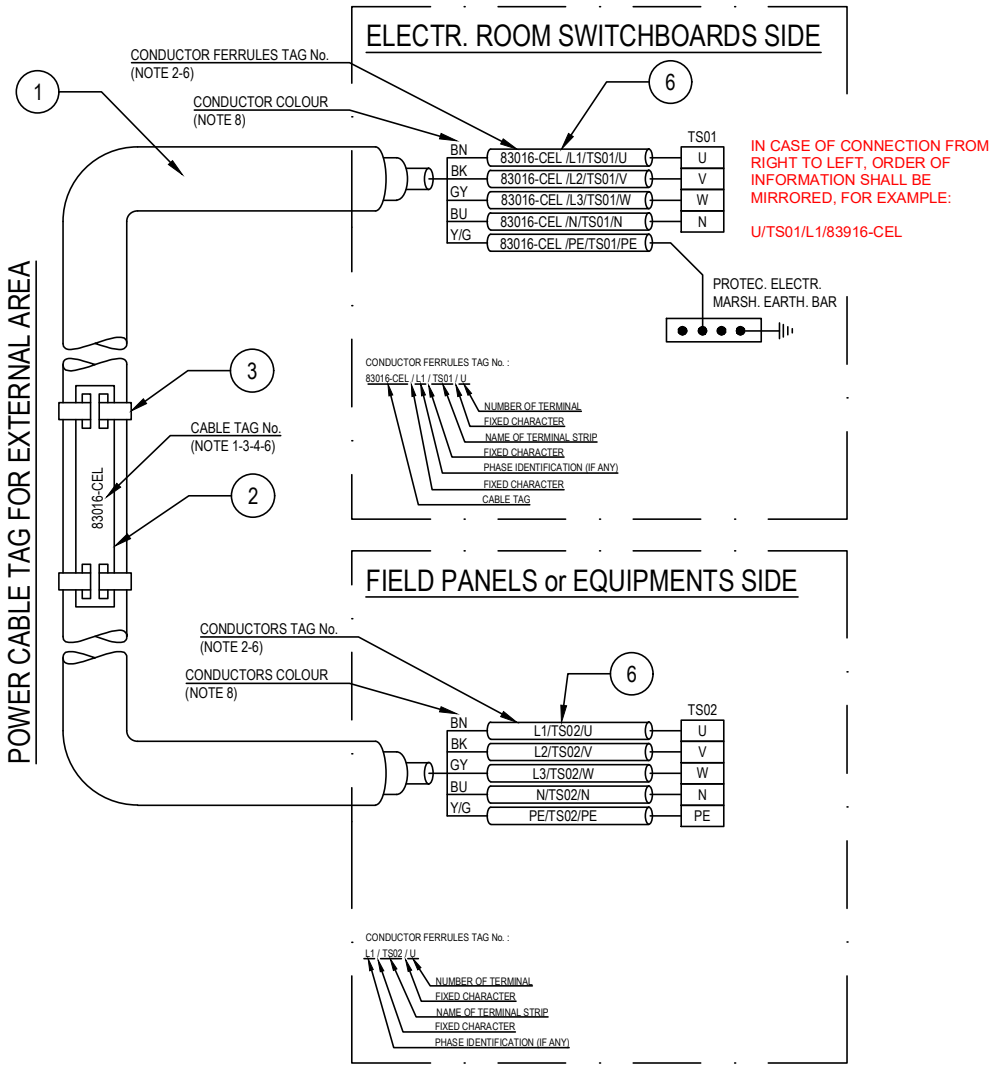
SHEET 007

REV. 02

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

F.to UNI A3: 420mmx297mm

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

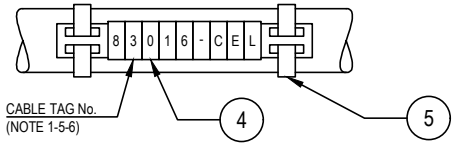
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

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

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

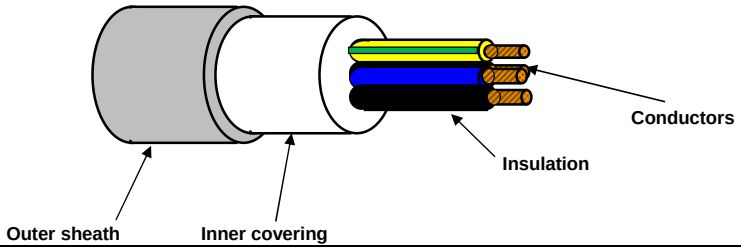
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-EJB-200N1-10-L3-01	Cable	EL	VFC	123A90-DDL-EL-LIS-20148						DP-200N1	LV 0,4 / 0,23 kV Distribution Switchgear	Lower Deck (B-200)	01/Q10	EJB-200N1-10-L3-01	Emergency Lighting JB	Lower Deck Stairs	Junction Box	ELECV11-4G4_E	Cable Cu Cl.2/E/PR/LSZH 0,6/1kV 4G4mm²_E - Grey	M25	n.a.			T1_M25_Single				L-450-101-LVT-030 / L-600-101-LVT-020 / L-600-101-LVT-019 / L-600-101-LVT-017 / E-MCT-201 / L-750-101-LVT-013 / L-750-101-LVT-014 / L-300-101-LVT-079 / L-150-101-LVT-100

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G4_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G4 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(15,5 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-ELF-200N1-10-L3-02	: Stair Emergency Lighting JB / Stair Emergency Lighting Fixture		Dwg	123A90-DDL-EL-LIS-20148	
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece		Module	UD/LD	
TASK	code	C10000747	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline Electrical	Form	CPX09	LV Power Cable

CABLE DATA

Type: Cu Cl.2/EPR/LSZH Cores/Size mm²: 4G2,5_E mm2 Color: GREY

From: EJB-200N1-10-L3-03 To: ELF-200N1-10-L3-02

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	OK
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-ELF-200N1-10-L3-02	: Stair Emergency Lighting JB / Stair Emergency Lighting Fixture	Dwg	123A90-DDL-EL-LIS-20148		
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece	Module	UD/LD		
TASK	code	C10000747	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form CPX09	LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0.8	
6		PH 2	0.8	
7		PH 3	0.8	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0.8	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

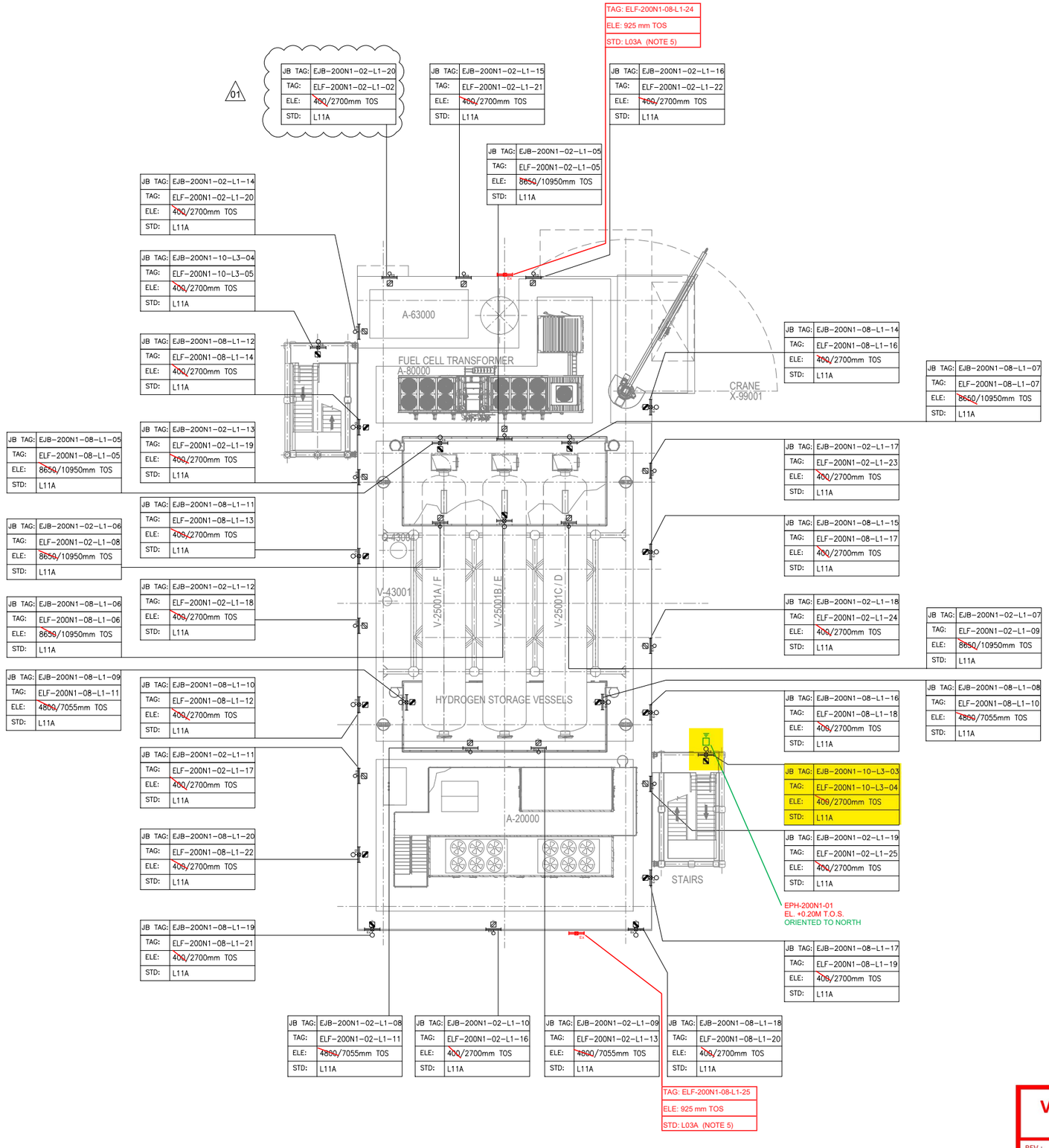
TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	VOLCRAFT 1000V - ET-200 S/N:H240103023	TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207
Calibration certificate N° and date:	N°LAT 042 00768/24 _ 12/10/2024	Calibration certificate N° and date:	N°7722/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679/C30000681

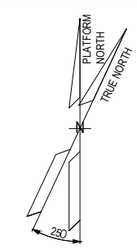
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROETTI MARINO)	
Name	Michele Tartaglia	Paolo Schintu	
Date	2025-01-23	2025-01-24	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-23T08:13:05.953Z	PROVERLIS Digitaly signed by Paolo Schintu 2025-01-24T17:42:36.022Z	

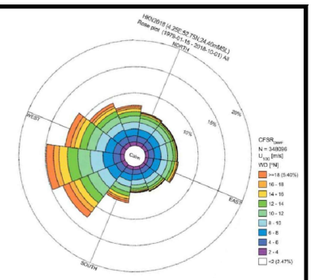
DRAWING NO. 123A90-DDL-EL-DL-20118

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

ROSETTI MARINO SpA

CROSSWIND | ROSETTI MARINO

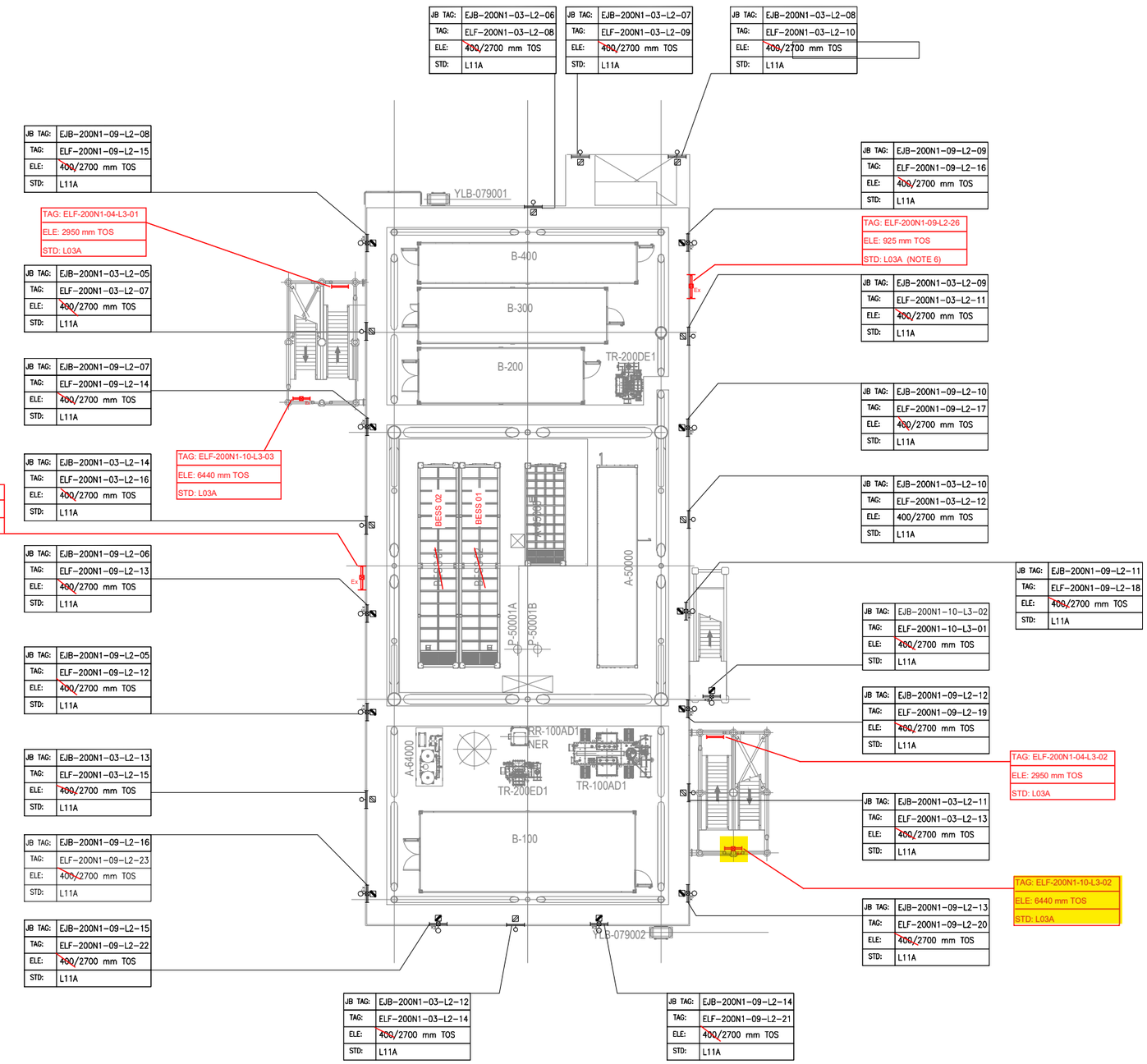
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

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 1of2	REV. 01

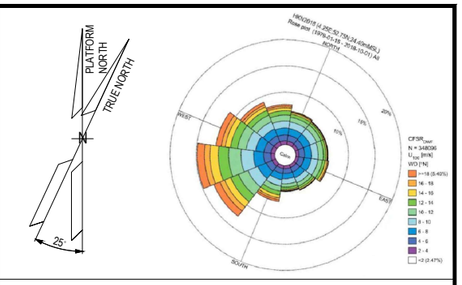
File Name : 123A90-DDL-EL-DL-20118

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

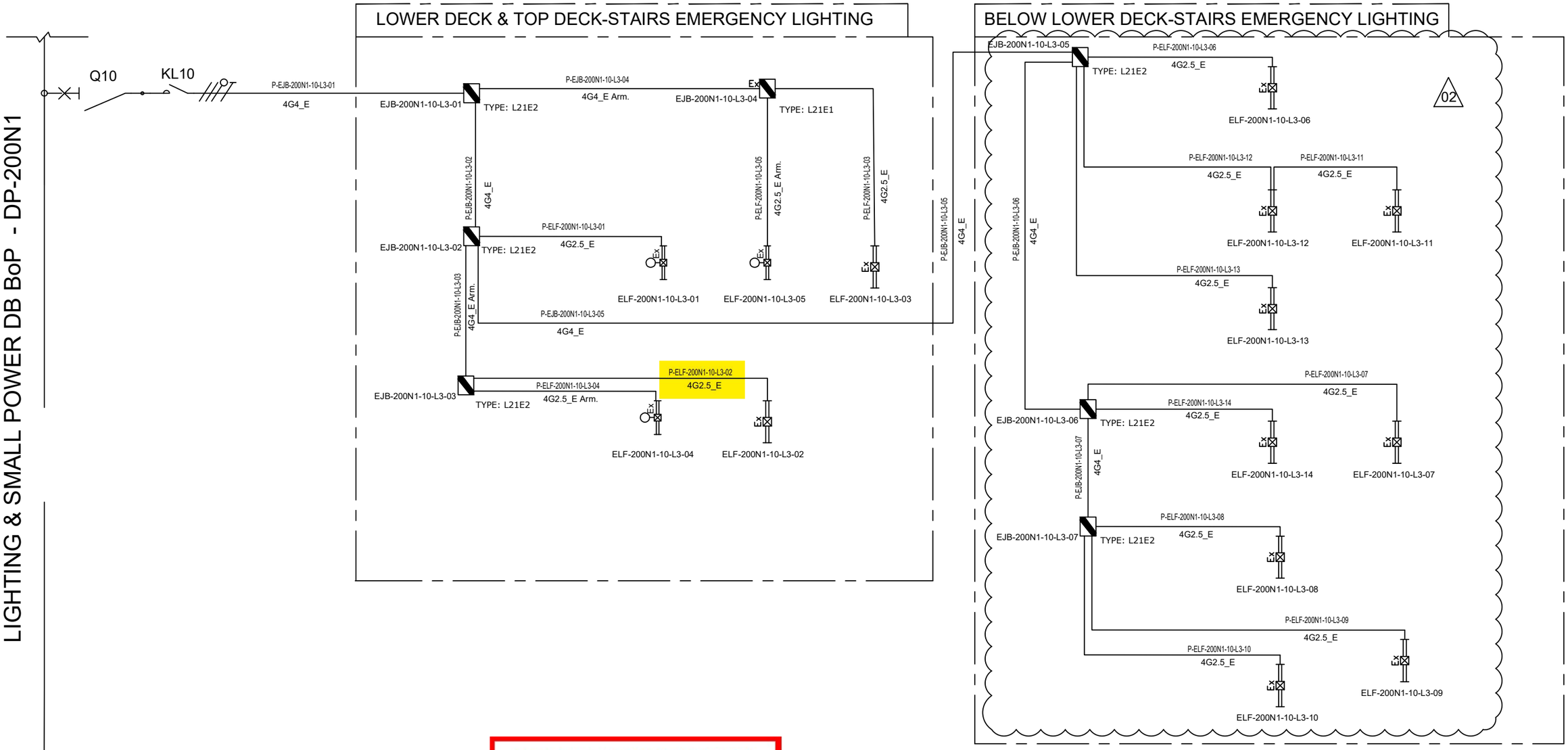
ROSETTI MARINO

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

LIGHTING & SMALL POWER DB BoP - DP-200N1



NOTE:	
ELF-200N1-10-L3-01	LOWER DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-02	
ELF-200N1-10-L3-03	
ELF-200N1-10-L3-04	TOP DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-05	

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

REV.:	DATE:	SIGNATURE:
2_G	16/01/25	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
			ELF-200N1-10-L3-09		
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
STAIRS EMERGENCY LIGHTING (LOWER DECK,TOP DECK AND BELOW LOWER DECK)

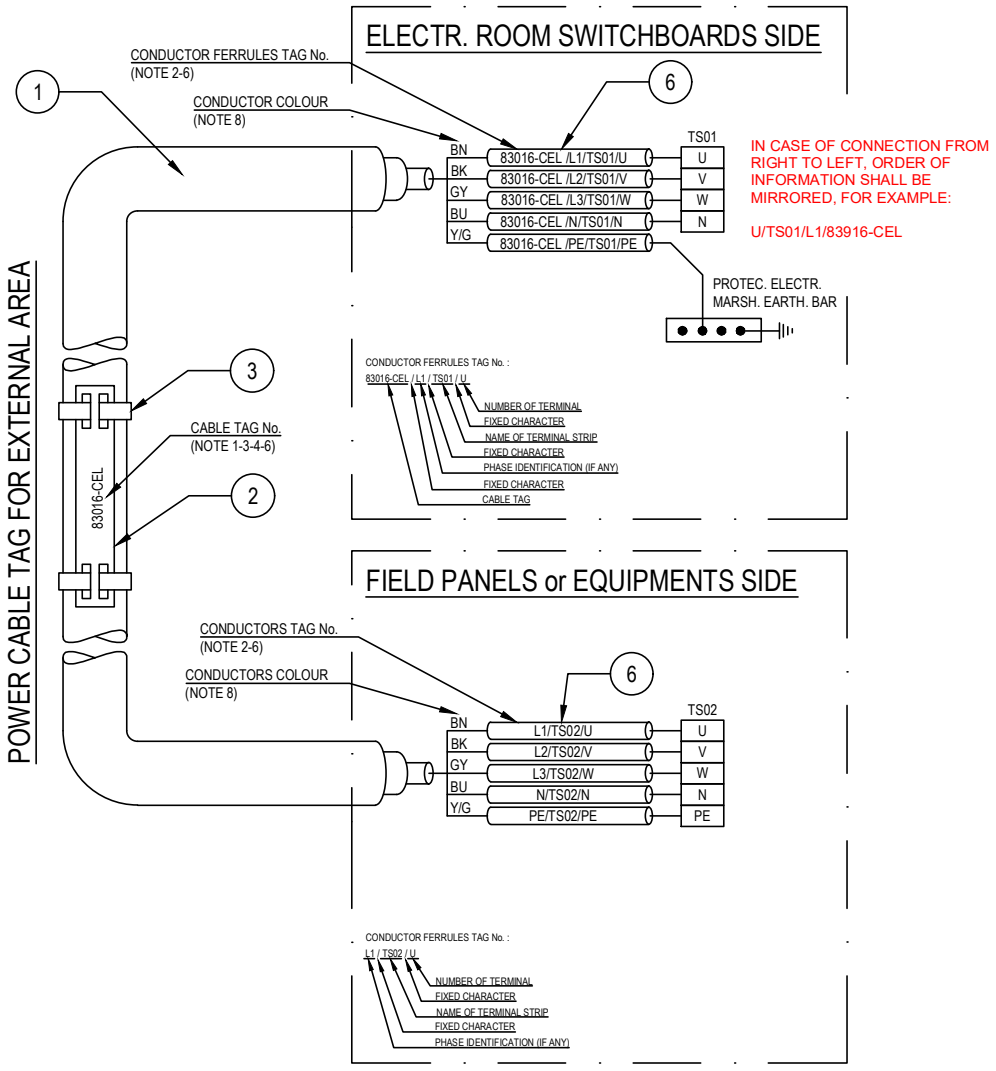
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	007	02

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

F.to UNI A3: 420mmx297mm

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

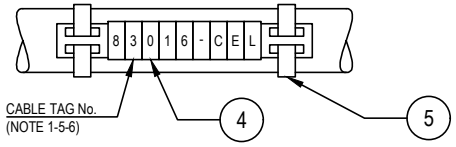
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

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

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

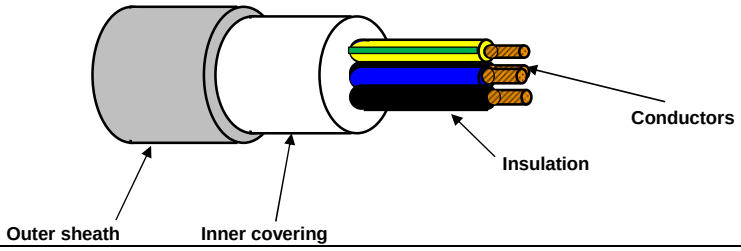
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-10-L3-02	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-10-L3-03	Emergency Lighting JB	Upper Deck Stairs		ELF-200N1-10-L3-02	Emergency Lighting Fixture	Lower Deck Stairs		ELECV12-4G2.5_E	Cable Cu Cl.2/EPR/LSZH 0.6/1kV 4G2.5mm²_E - Grey	M25	T1_M25_Single			T1_M25_Single	M20	ADAP_M20Mx M25F		L-50-102-LVT-041 / L-50-102-LVT-062 / L-150-102-LVT-003 / L-150-102-LVT-004 / L-50-102-LVT-051

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G2,5_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G2,5 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(14,0 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-ELF-200N1-10-L3-03	: Stair Emergency Lighting Fixture / Stair Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	UD/LD
TASK	code	C10000748		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 4G2,5_E mm2 Color GREY

From EJB-200N1-10-L3-04 To ELF-200N1-10-L3-03

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	OK
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ITEM	Tag	P-ELF-200N1-10-L3-03	: Stair Emergency Lighting Fixture / Stair Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	UD/LD
TASK	code	C10000748		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,7	
6		PH 2	0,7	
7		PH 3	0,7	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,7	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

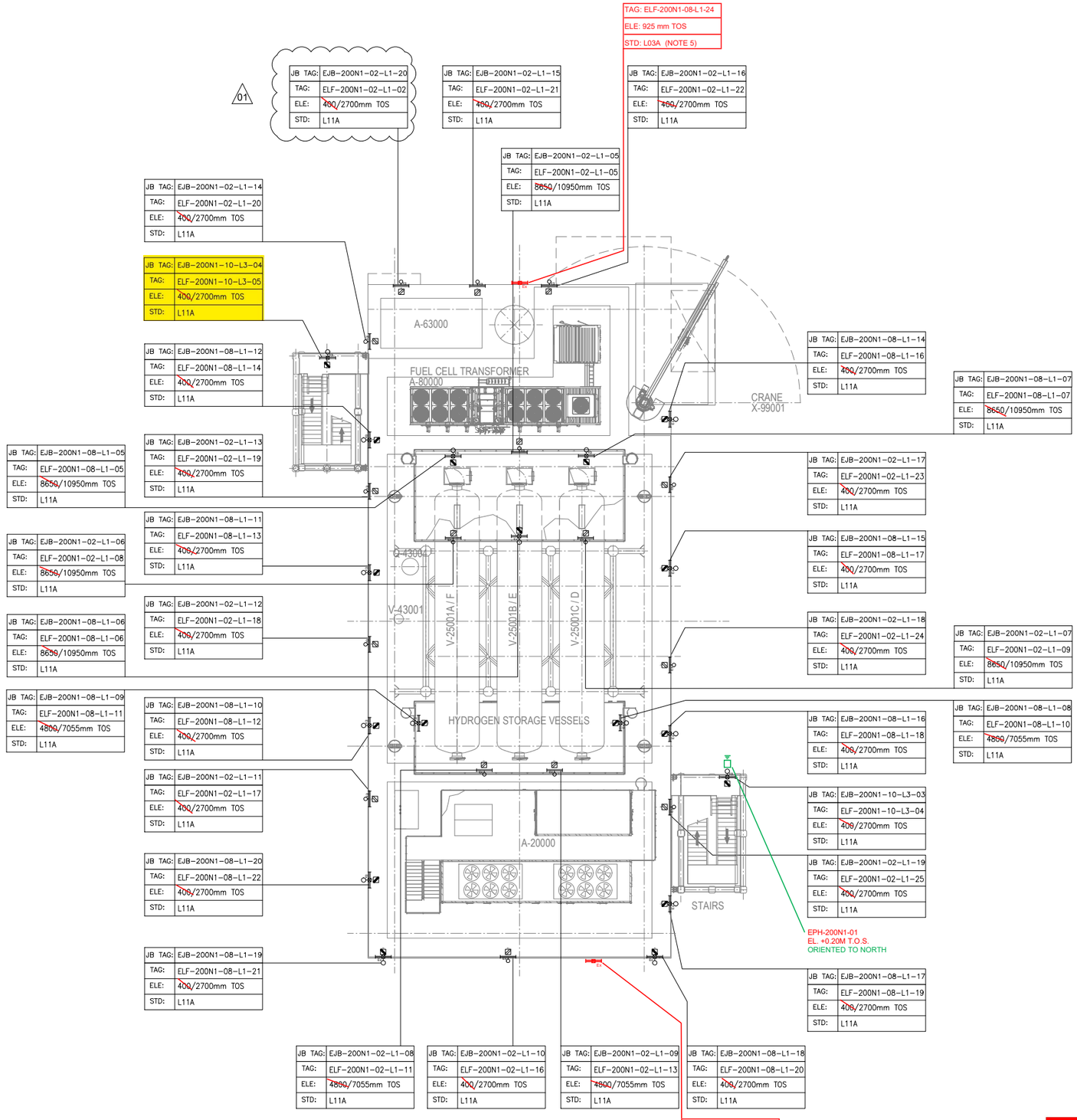
TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	VOLCRAFT 1000V - ET-200 S/N:H240103023	TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207
Calibration certificate N° and date:	N°LAT 042 00768/24 _ 12/10/2024	Calibration certificate N° and date:	N°7722/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679/C30000681

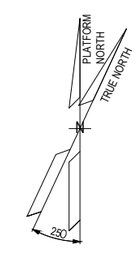
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Paolo Schintu	
Date	2025-01-23	2025-01-24	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-23T08:13:39.511Z	PROVERLIS Digitaly signed by Paolo Schintu 2025-01-24T17:42:05.468Z	

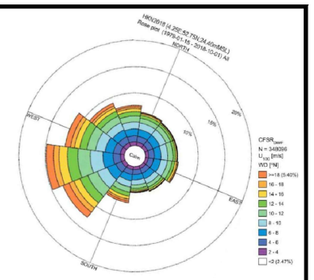
DRAWING NO. 123A90-DDL-EL-DL-20118

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

ROSETTI MARINO SpA

CROSSWIND | ROSETTI MARINO

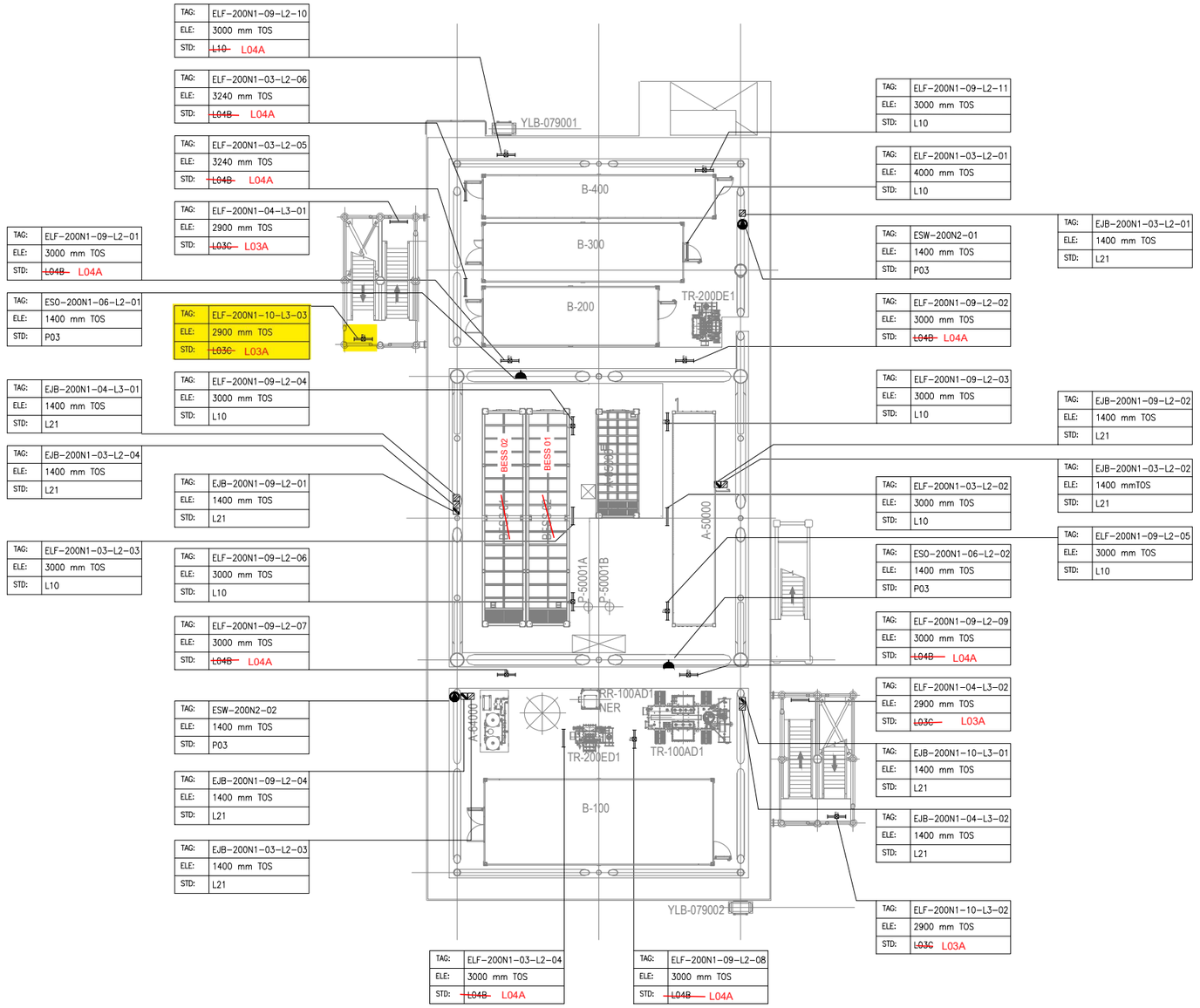
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – TOP DECK

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 1of2	REV. 01

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

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

REV. 01



TAG:	ELF-200N1-09-L2-10
ELE:	3000 mm TOS
STD:	~~L10~~ L04A

TAG:	ELF-200N1-03-L2-06
ELE:	3240 mm TOS
STD:	~~L04B~~ L04A

TAG:	ELF-200N1-03-L2-05
ELE:	3240 mm TOS
STD:	~~L04B~~ L04A

TAG:	ELF-200N1-04-L3-01
ELE:	2900 mm TOS
STD:	~~L03C~~ L03A

TAG:	ELF-200N1-09-L2-01
ELE:	3000 mm TOS
STD:	~~L04B~~ L04A

TAG:	ESO-200N1-06-L2-01
ELE:	1400 mm TOS
STD:	P03

TAG:	ELF-200N1-10-L3-03
ELE:	2900 mm TOS
STD:	~~L03C~~ L03A

TAG:	EJB-200N1-04-L3-01
ELE:	1400 mm TOS
STD:	L21

TAG:	EJB-200N1-03-L2-04
ELE:	1400 mm TOS
STD:	L21

TAG:	ELF-200N1-03-L2-03
ELE:	3000 mm TOS
STD:	L10

TAG:	ELF-200N1-09-L2-04
ELE:	3000 mm TOS
STD:	L10

TAG:	EJB-200N1-09-L2-01
ELE:	1400 mm TOS
STD:	L21

TAG:	ELF-200N1-09-L2-06
ELE:	3000 mm TOS
STD:	L10

TAG:	ELF-200N1-09-L2-07
ELE:	3000 mm TOS
STD:	~~L04B~~ L04A

TAG:	ESW-200N2-02
ELE:	1400 mm TOS
STD:	P03

TAG:	EJB-200N1-09-L2-04
ELE:	1400 mm TOS
STD:	L21

TAG:	EJB-200N1-03-L2-03
ELE:	1400 mm TOS
STD:	L21

TAG:	ELF-200N1-03-L2-04
ELE:	3000 mm TOS
STD:	~~L04B~~ L04A

TAG:	ELF-200N1-09-L2-08
ELE:	3000 mm TOS
STD:	~~L04B~~ L04A

TAG:	ELF-200N1-09-L2-11
ELE:	3000 mm TOS
STD:	L10

TAG:	ELF-200N1-03-L2-01
ELE:	4000 mm TOS
STD:	L10

TAG:	ESW-200N2-01
ELE:	1400 mm TOS
STD:	P03

TAG:	EJB-200N1-03-L2-01
ELE:	1400 mm TOS
STD:	L21

TAG:	ELF-200N1-09-L2-02
ELE:	3000 mm TOS
STD:	~~L04B~~ L04A

TAG:	ELF-200N1-09-L2-03
ELE:	3000 mm TOS
STD:	L10

TAG:	EJB-200N1-09-L2-02
ELE:	1400 mm TOS
STD:	L21

TAG:	EJB-200N1-03-L2-02
ELE:	1400 mmTOS
STD:	L21

TAG:	ELF-200N1-03-L2-02
ELE:	3000 mm TOS
STD:	L10

TAG:	ELF-200N1-09-L2-05
ELE:	3000 mm TOS
STD:	L10

TAG:	ESO-200N1-06-L2-02
ELE:	1400 mm TOS
STD:	P03

TAG:	ELF-200N1-09-L2-09
ELE:	3000 mm TOS
STD:	~~L04B~~ L04A

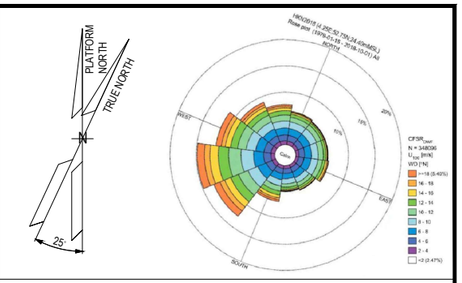
TAG:	ELF-200N1-04-L3-02
ELE:	2900 mm TOS
STD:	~~L03C~~ L03A

TAG:	EJB-200N1-10-L3-01
ELE:	1400 mm TOS
STD:	L21

TAG:	EJB-200N1-04-L3-02
ELE:	1400 mm TOS
STD:	L21

TAG:	ELF-200N1-10-L3-02
ELE:	2900 mm TOS
STD:	~~L03C~~ L03A

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

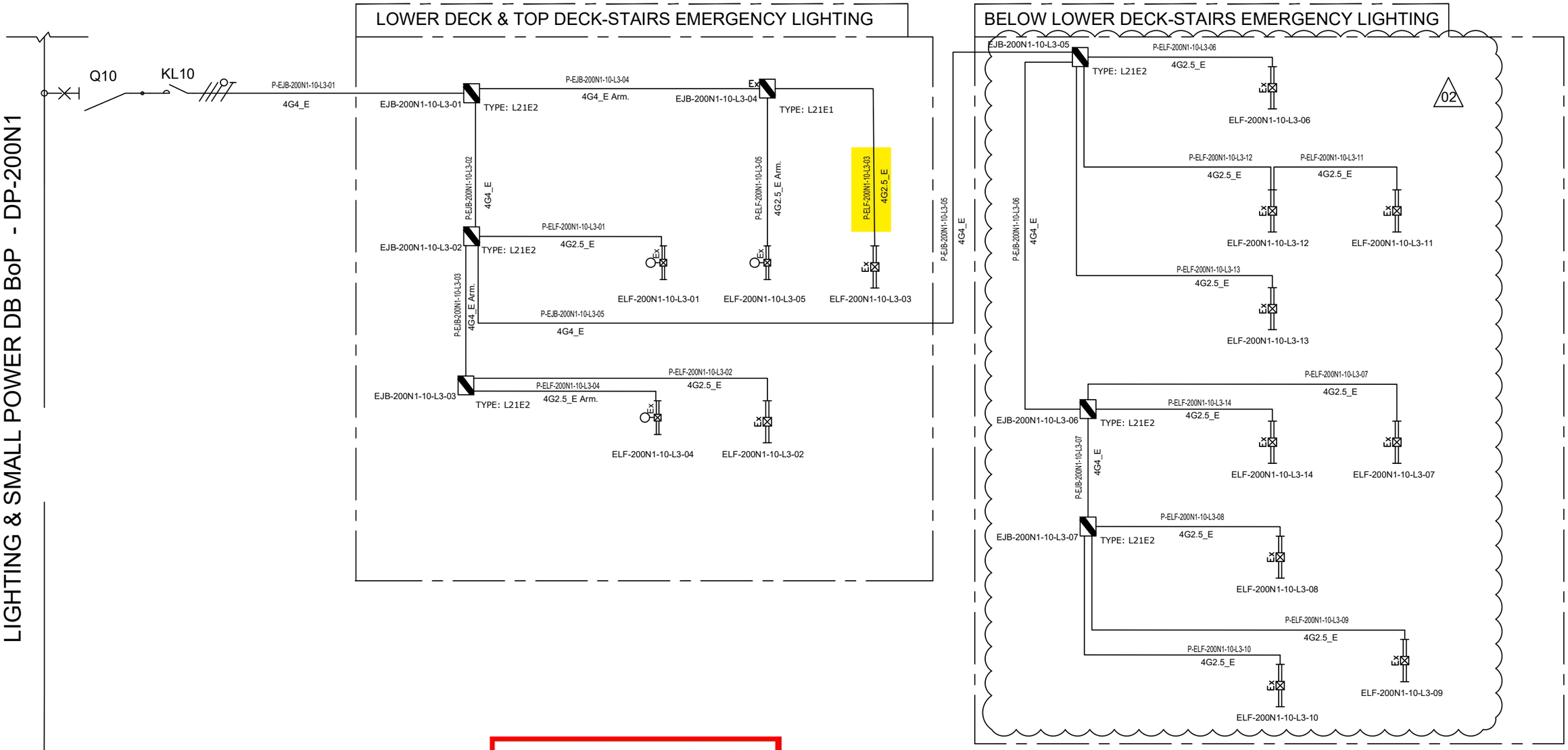
TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

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.	SHEET	REV.
	123A90-DDL-EL-DL-20119	2of2	01

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

LIGHTING & SMALL POWER DB BoP - DP-200N1



NOTE:	
ELF-200N1-10-L3-01	LOWER DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-02	
ELF-200N1-10-L3-03	
ELF-200N1-10-L3-04	TOP DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-05	

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

REV.:	DATE:	SIGNATURE:
2_G	16/01/25	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
		ELF-200N1-10-L3-09			
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
STAIRS EMERGENCY LIGHTING (LOWER DECK,TOP DECK AND BELOW LOWER DECK)

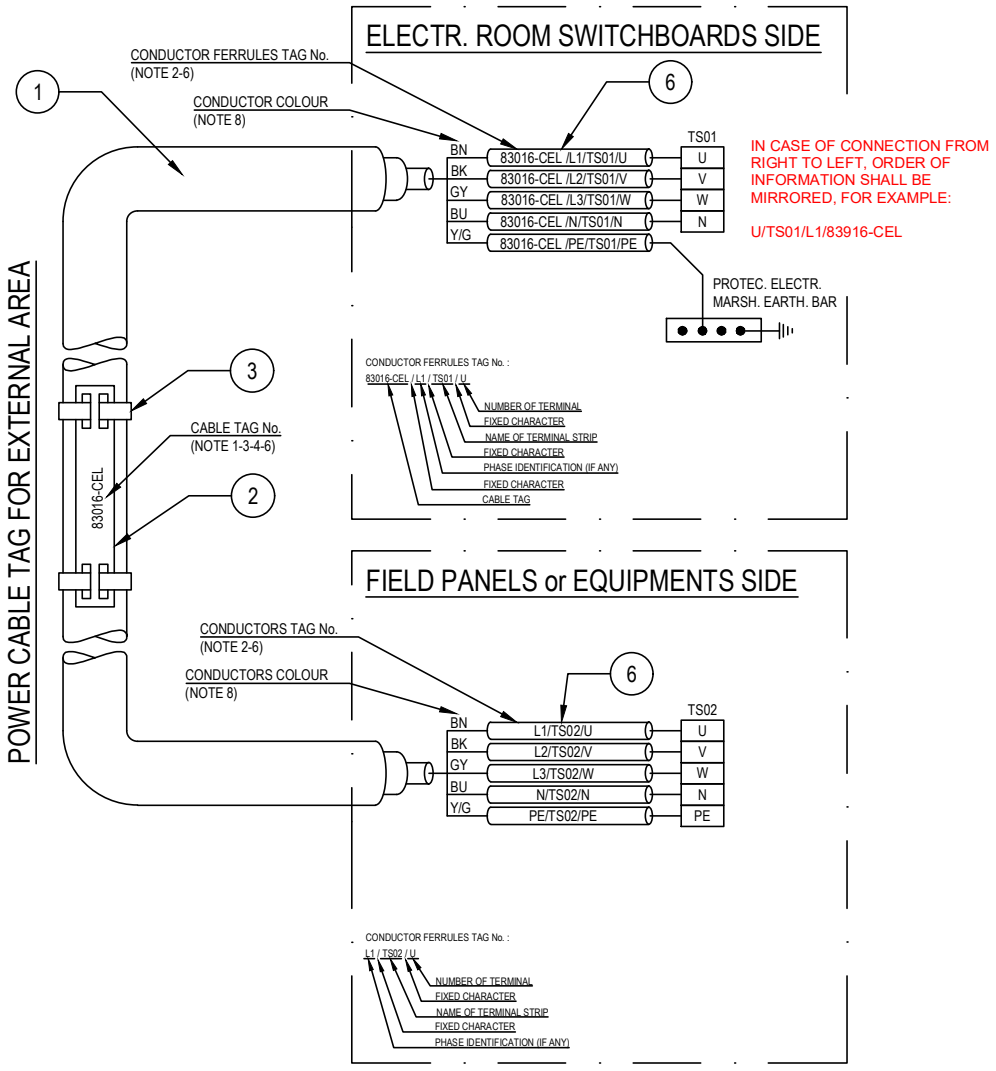
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	007	02

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

F.to UNI A3: 420mmx297mm

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

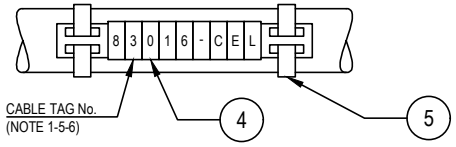
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

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

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

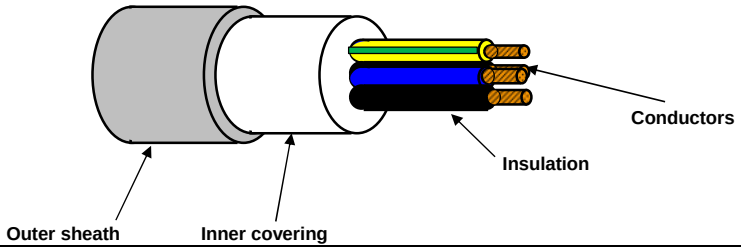
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-10-L3-03	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-10-L3-04	Emergency Lighting JB	Upper Deck Stairs		ELF-200N1-10-L3-03	Emergency Lighting Fixture	Lower Deck Stairs		ELECV12-4G2.5_E	Cable Cu Cl.2/EPR/LSZH 0.6/1kV 4G2.5mm²_E - Grey	M25	T1_M25_Single			T1_M25_Single	M20	ADAP_M20Mx M25F		L-50-102-LVT-061 / L-150-102-LVT-005 / L-50-102-LVT-052

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G2,5_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G2,5 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(14,0 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-ELF-200N1-10-L3-01	: Stair Emergency Lighting JB / Stair Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	LD
TASK	code	C10000817		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 4G2,5_E mm2 Color GREY

From EJB-200N1-10-L3-02 To ELF-200N1-10-L3-01

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	OK
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	OK
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	P-ELF-200N1-10-L3-01	: Stair Emergency Lighting JB / Stair Emergency Lighting Fixture		Dwg	123A90-DDL-EL-LIS-20148	
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece		Module	LD	
TASK	code	C10000817	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline Electrical	Form	CPX09	LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,2	
6		PH 2	0,2	
7		PH 3	0,2	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,2	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

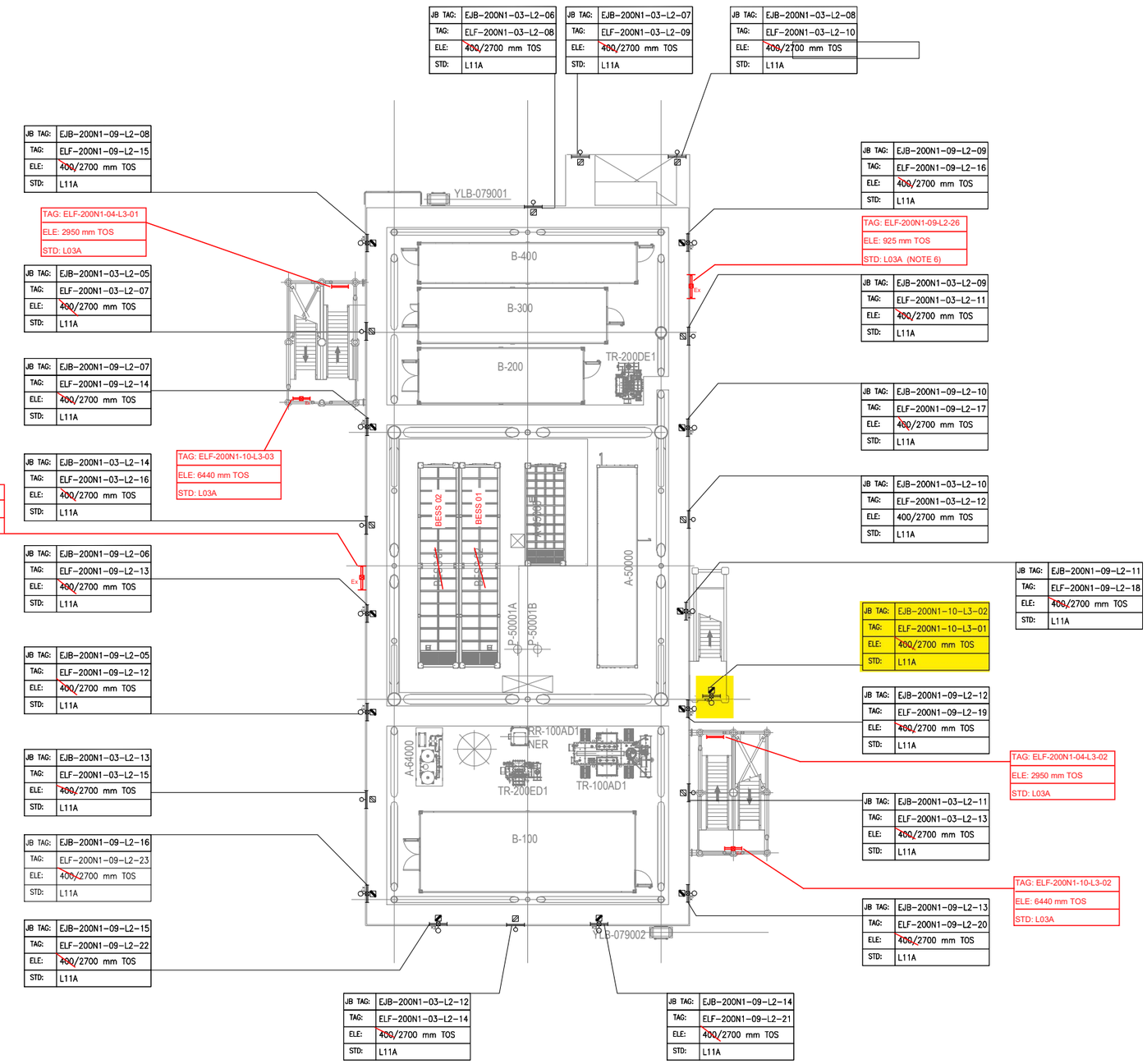
TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	VOLCRAFT 1000V - ET-200 S/N:H240103023	TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207
Calibration certificate N° and date:	N°LAT 042 00768/24 _ 12/10/2024	Calibration certificate N° and date:	N°7722/24 _ 10/07/2024

Comments:

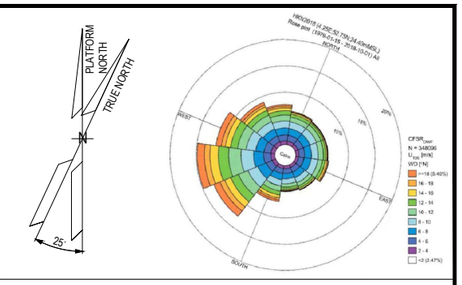
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	VIP	RM(ROSETTI MARINO)	
Name	Madhankumar Arunagiri	Giovanni Tangianu	
Date	2025-04-17	2025-04-17	
Signature	PROVERLIS Digitaly signed by Madhankumar Arunagiri 2025-04-17T12:33:22.938Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2025-04-17T13:45:53.789Z	

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

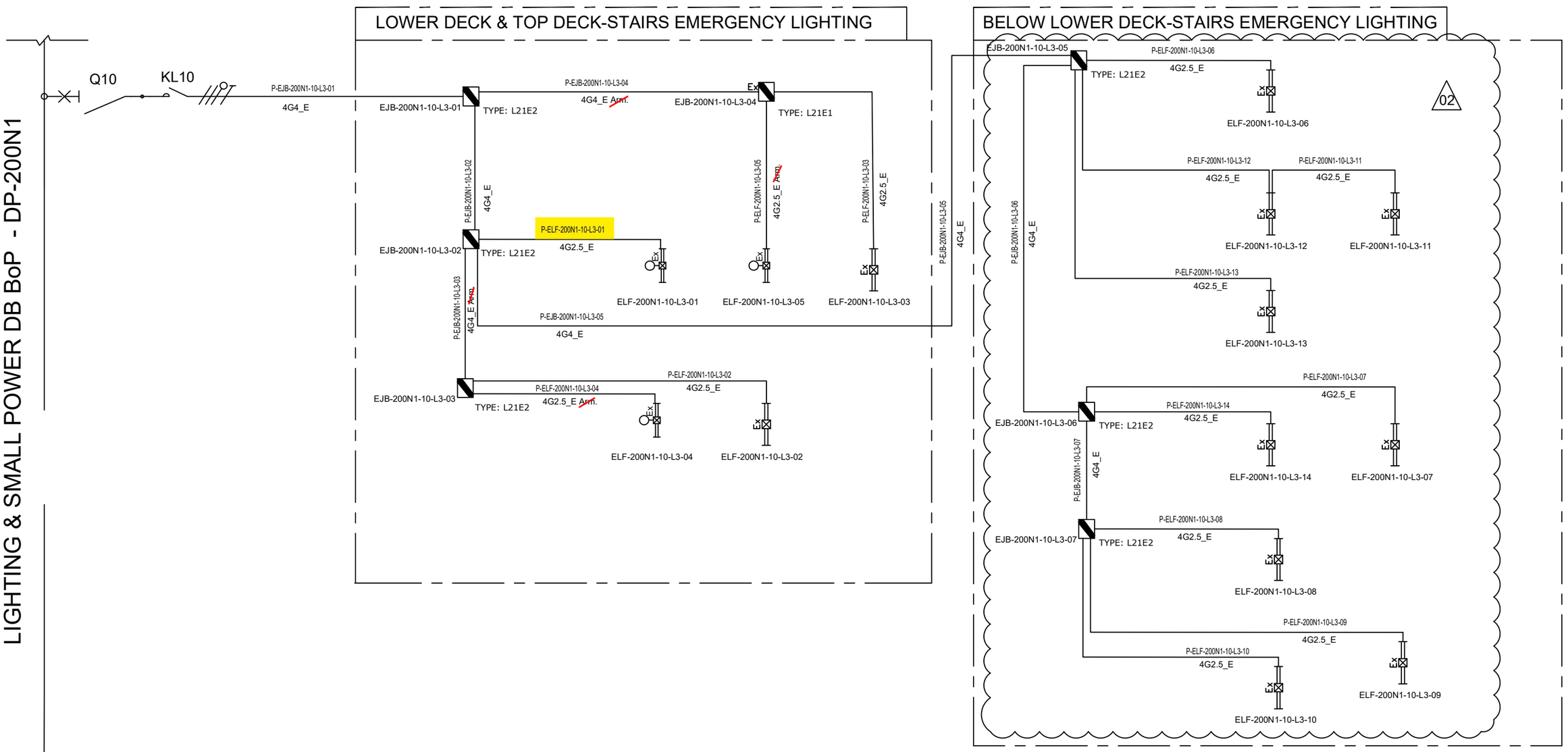
ROSETTI MARINO

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

LIGHTING & SMALL POWER DB BoP - DP-200N1



NOTE:	
ELF-200N1-10-L3-01	LOWER DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-02	
ELF-200N1-10-L3-03	
ELF-200N1-10-L3-04	TOP DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-05	

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

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

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
		ELF-200N1-10-L3-09			
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
STAIRS EMERGENCY LIGHTING (LOWER DECK,TOP DECK AND BELOW LOWER DECK)

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

SCALE : NTS

A3

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

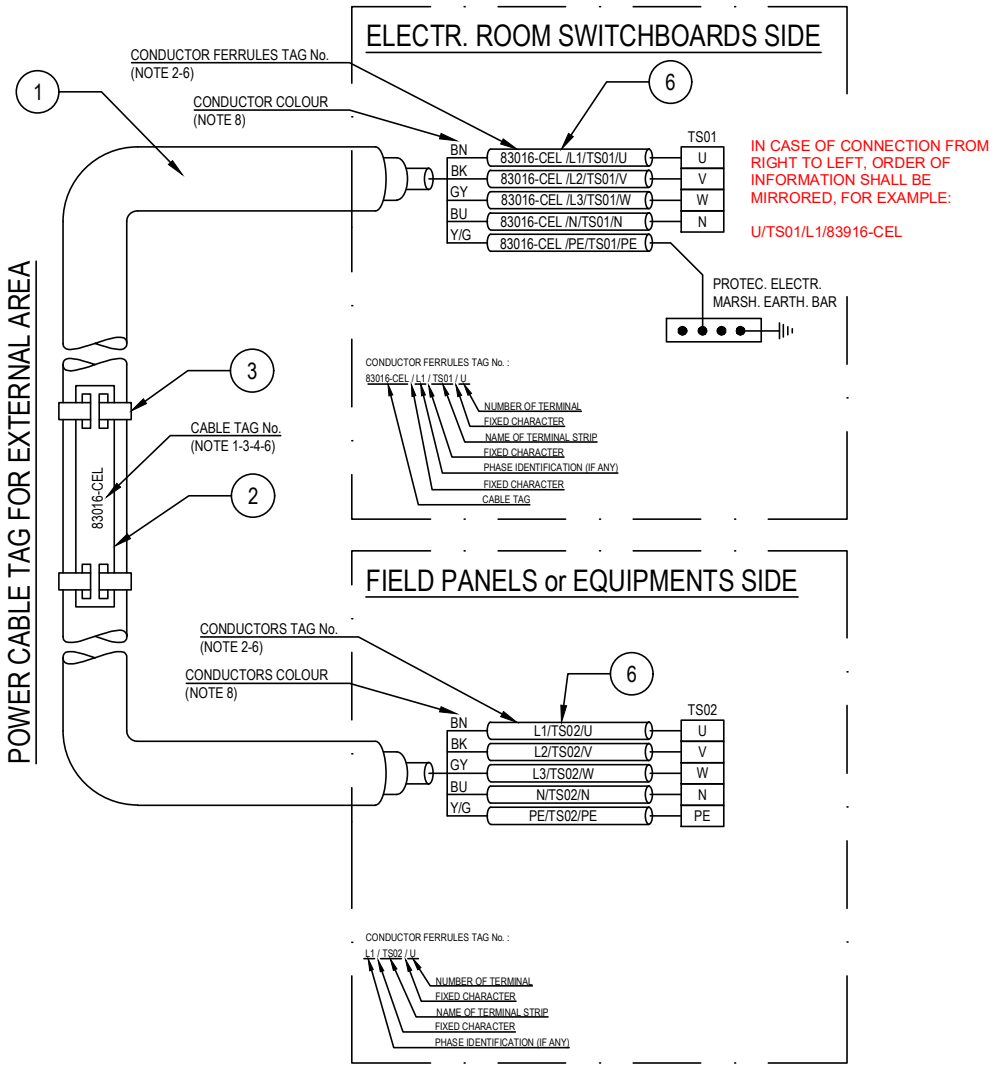
SHEET 007

REV. 02

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

F.to UNI A3: 420mmx297mm

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

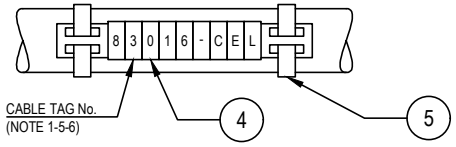
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

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

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

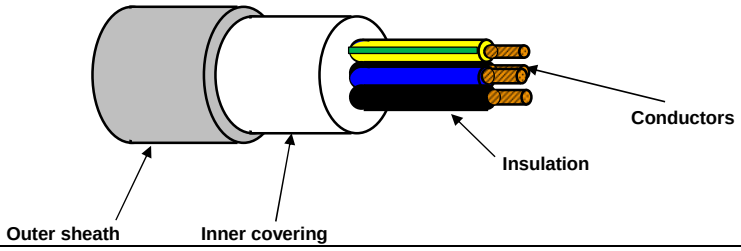
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-10-L3-01	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-10-L3-02	Emergency Lighting JB	Lower Deck Stairs		ELF-200N1-10-L3-01	Emergency Lighting Fixture	Lower Deck Stairs		ELECV12-4G2.5_E	Cable Cu Cl.2/EPR/LSZH 0.6/1kV 4G2.5mm²_E - Grey	M25	T1_M25_Single			T1_M25_Single	M20	ADAP_M20Mx M25F		L-50-101-LVT-141

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G2,5_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G2,5 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(14,0 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-EJB-200N1-10-L3-02	: Stair Emergency Lighting JB / Stair Emergency Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	LD
TASK	code	C10000824		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 4G4_E mm2 Color GREY

From EJB-200N1-10-L3-01 To EJB-200N1-10-L3-02

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	Note
4	Check cable is supported and fixed to rack according to project specification.	OK
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	P-EJB-200N1-10-L3-02	: Stair Emergency Lighting JB / Stair Emergency Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	LD
TASK	code	C10000824		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,26	
6		PH 2	0,26	
7		PH 3	0,26	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,26	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

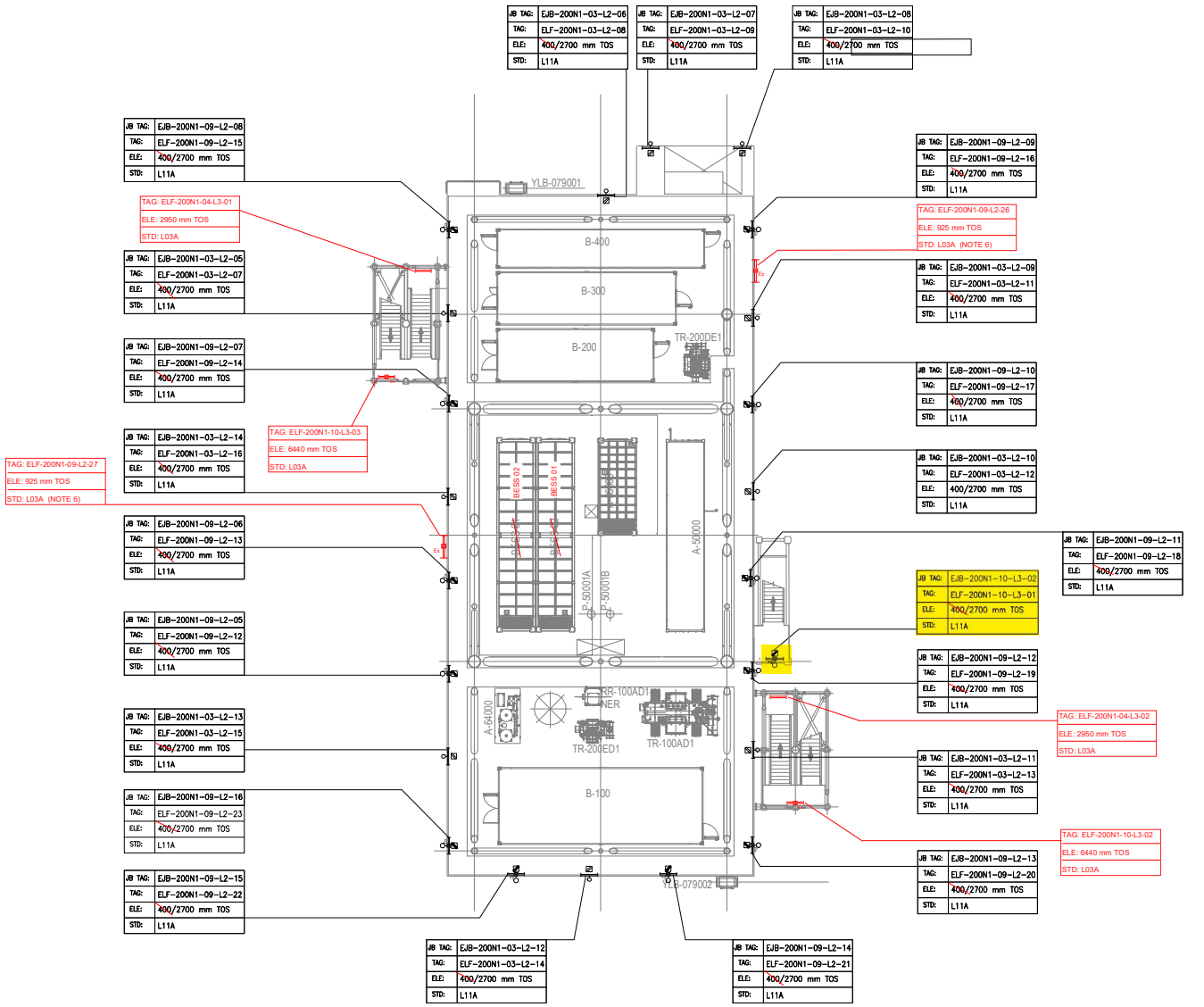
TYPE / SERIAL N° :	VOLCRAFT 1000V - ET-200 S/N:H240103023	TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207
Calibration certificate N° and date:	N°LAT 042 00768/24 _ 12/10/2024	Calibration certificate N° and date:	N°7722/24 _ 10/07/2024

Comments: Note 03: Cable installation and connection on both side will be completed during OFFSHORE phase. (See Ref. task C10004921).

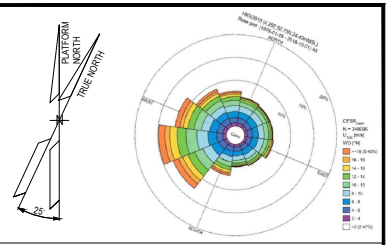
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	VIP	RM(ROSETTI MARINO)	
Name	Madhankumar Arunagiri	Giovanni Tangianu	
Date	2025-03-11	2025-03-11	
Signature	PROVERLIS Digitaly signed by Madhankumar Arunagiri 2025-03-11T10:23:20.869Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2025-03-11T15:09:02.787Z	

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

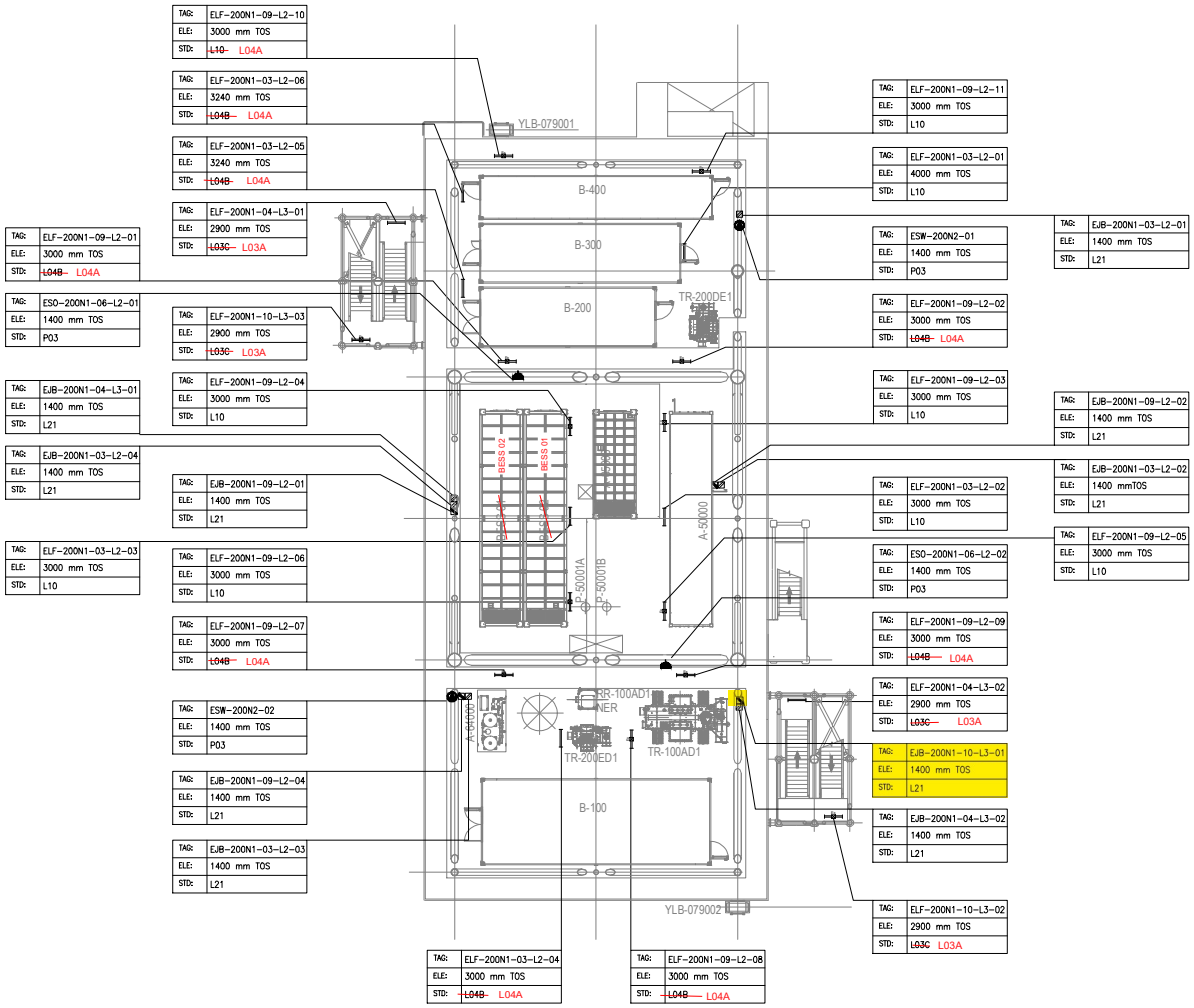
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

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

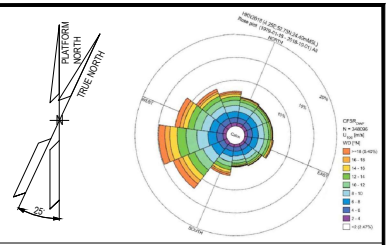
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DRAWING NO. 123A90-DDL-EL-DL-20119

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

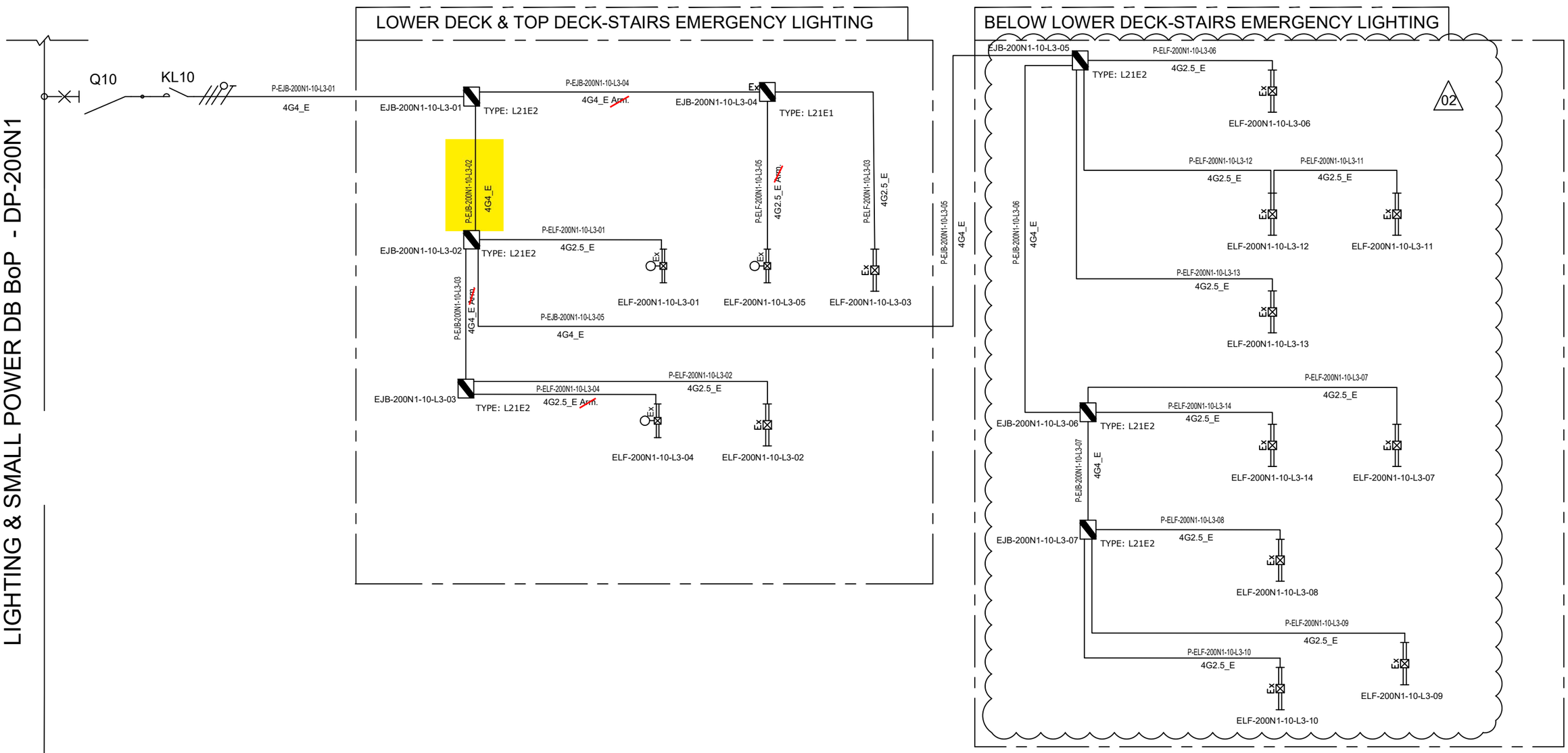
ROSETTI MARINO

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

LIGHTING & SMALL POWER DB BoP - DP-200N1



NOTE:	
ELF-200N1-10-L3-01	LOWER DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-02	
ELF-200N1-10-L3-03	
ELF-200N1-10-L3-04	TOP DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-05	

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

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

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
		ELF-200N1-10-L3-09			
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
STAIRS EMERGENCY LIGHTING (LOWER DECK,TOP DECK AND BELOW LOWER DECK)

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

SCALE : NTS

A3

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

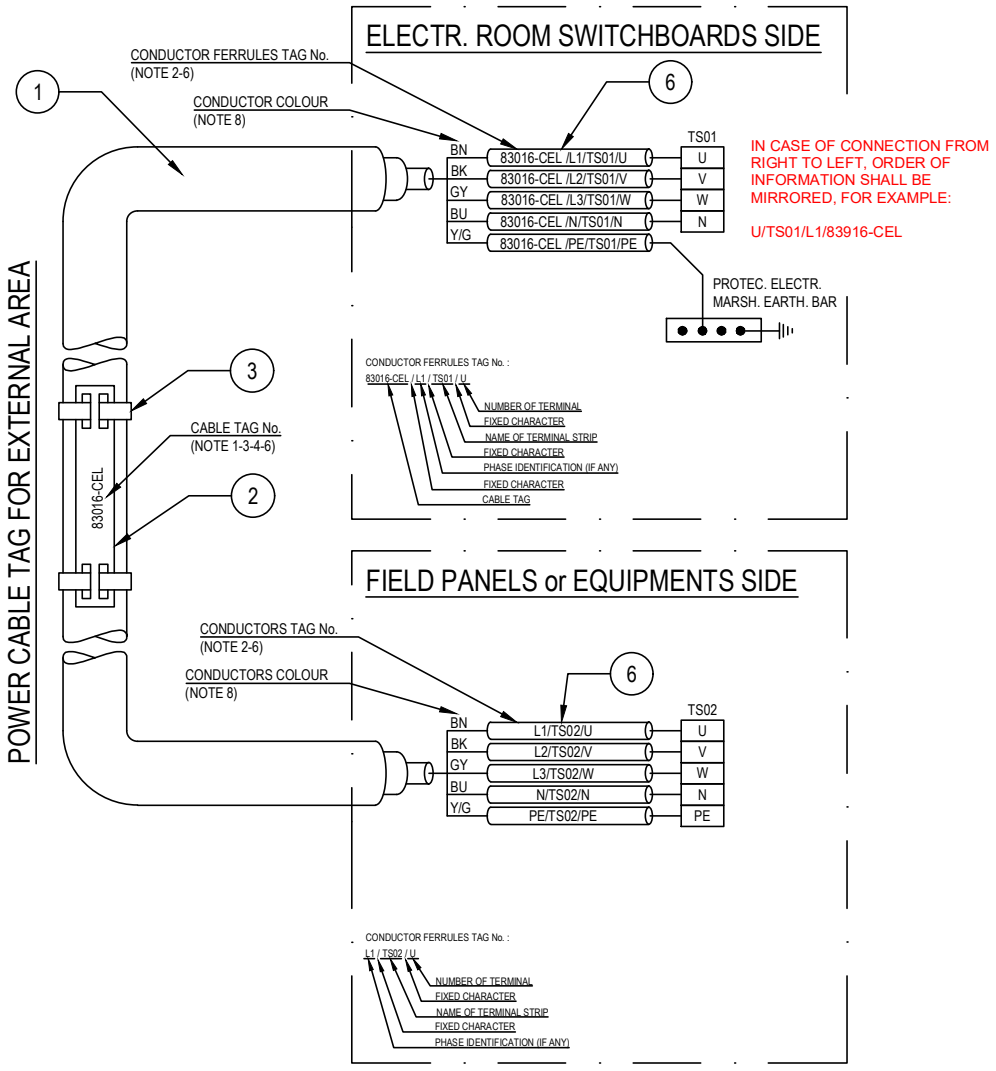
SHEET 007

REV. 02

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

F.to UNI A3: 420mmx297mm

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

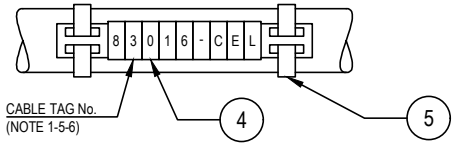
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

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

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

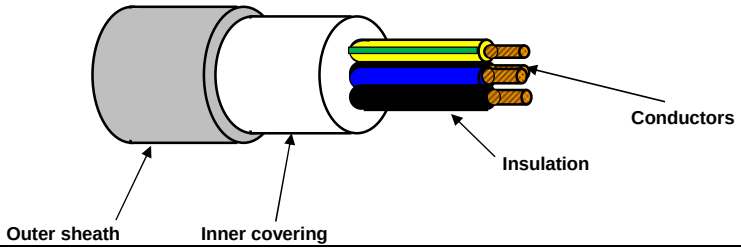
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-EJB-200N1-10-L3-02	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-10-L3-01	Emergency Lighting JB	Lower Deck Stairs		EJB-200N1-10-L3-02	Emergency Lighting JB	Lower Deck Stairs		ELECV11-4G4_E	Cable Cu Cl.2/EPR/LSZH 0,6/1kV 4G4mm²_E - Grey	M25	T1_M25_Single			T1_M25_Single	M20	ADAP_M20Mx M25F		L-150-101-LVT-100 / L-300-101-LVT-079 / L-300-101-LVT-080 / L-50-101-LVT-142

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G4_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G4 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(15,5 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-ELF-200N1-10-L3-04	: Stair Emergency Lighting JB / Stair Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	UD
TASK	code	C10000825		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 4G2,5_E mm2 Color GREY

From EJB-200N1-10-L3-03 To ELF-200N1-10-L3-04

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	OK
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-ELF-200N1-10-L3-04	: Stair Emergency Lighting JB / Stair Emergency Lighting Fixture		Dwg	123A90-DDL-EL-LIS-20148	
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece		Module	UD	
TASK	code	C10000825	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline Electrical	Form	CPX09	LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,6	
6		PH 2	0,6	
7		PH 3	0,6	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,6	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

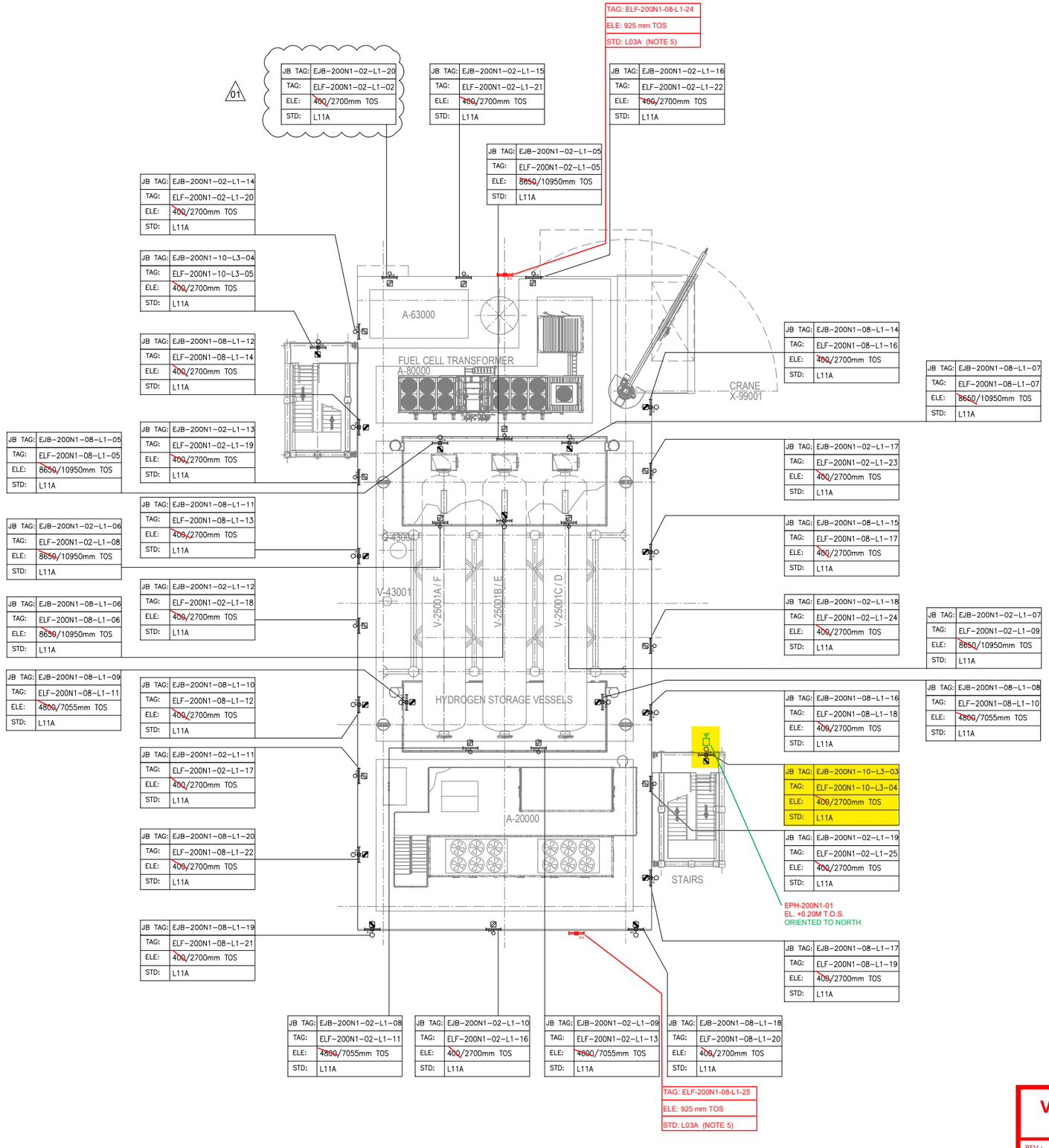
TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	VOLCRAFT 1000V - ET-200 S/N:H240103023	TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207
Calibration certificate N° and date:	N°LAT 042 00768/24 _ 12/10/2024	Calibration certificate N° and date:	N°7722/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000681

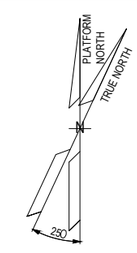
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Paolo Schintu	
Date	2025-01-23	2025-01-24	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-23T08:14:07.071Z	PROVERLIS Digitaly signed by Paolo Schintu 2025-01-24T17:41:13.700Z	

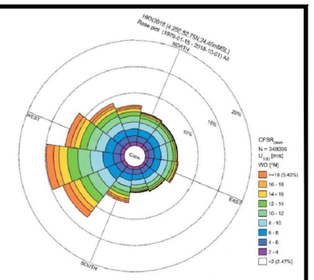
DRAWING NO. 123A90-DDL-EL-DL-20118

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

ROSETTI MARINO SpA

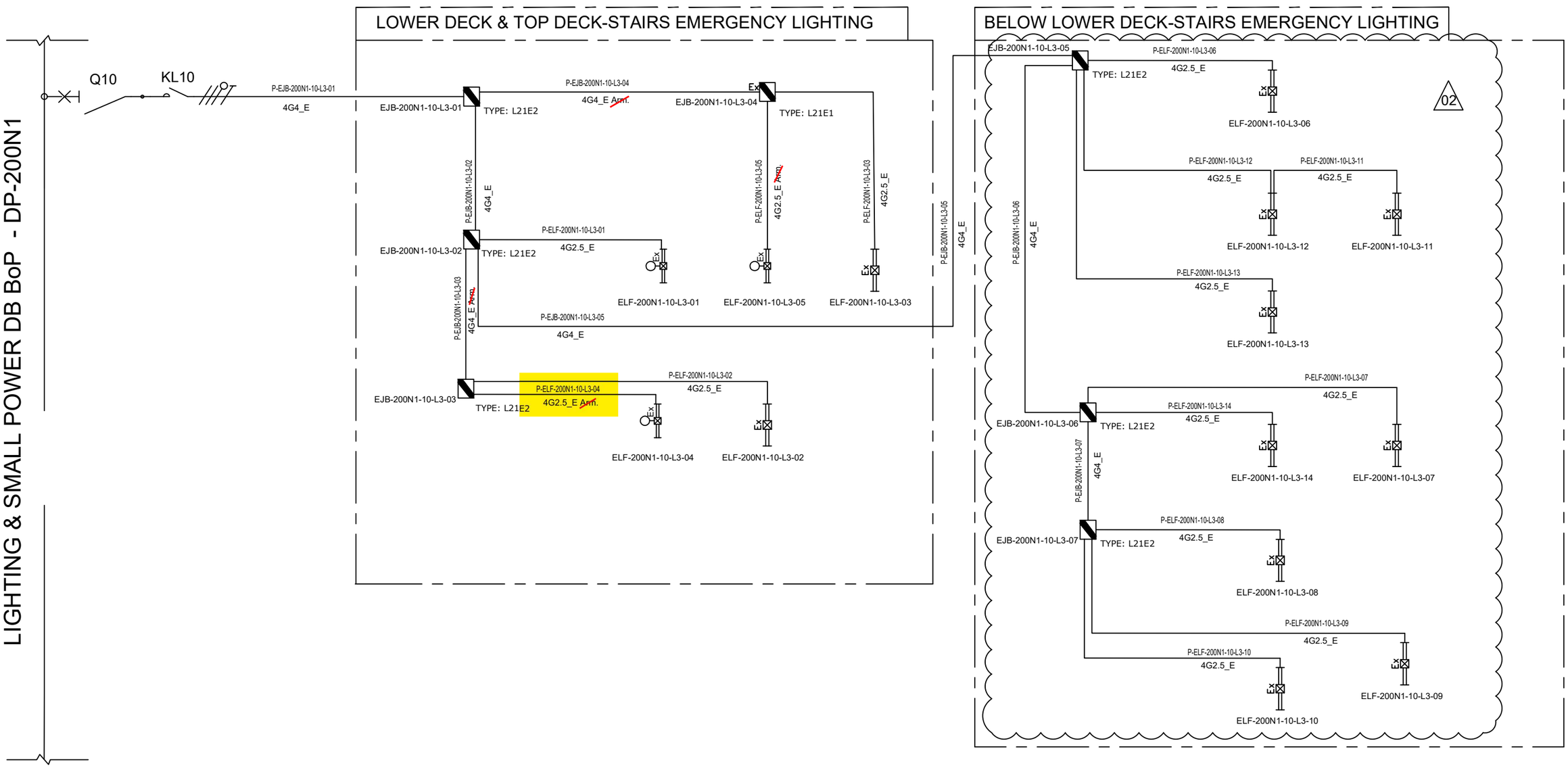
CROSSWIND | ROSETTI MARINO

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 1of2	REV. 01

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

LIGHTING & SMALL POWER DB BoP - DP-200N1



NOTE:	
ELF-200N1-10-L3-01	LOWER DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-02	
ELF-200N1-10-L3-03	
ELF-200N1-10-L3-04	TOP DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-05	

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

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

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
		ELF-200N1-10-L3-09			
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
STAIRS EMERGENCY LIGHTING (LOWER DECK,TOP DECK AND BELOW LOWER DECK)

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

SCALE : NTS

A3

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

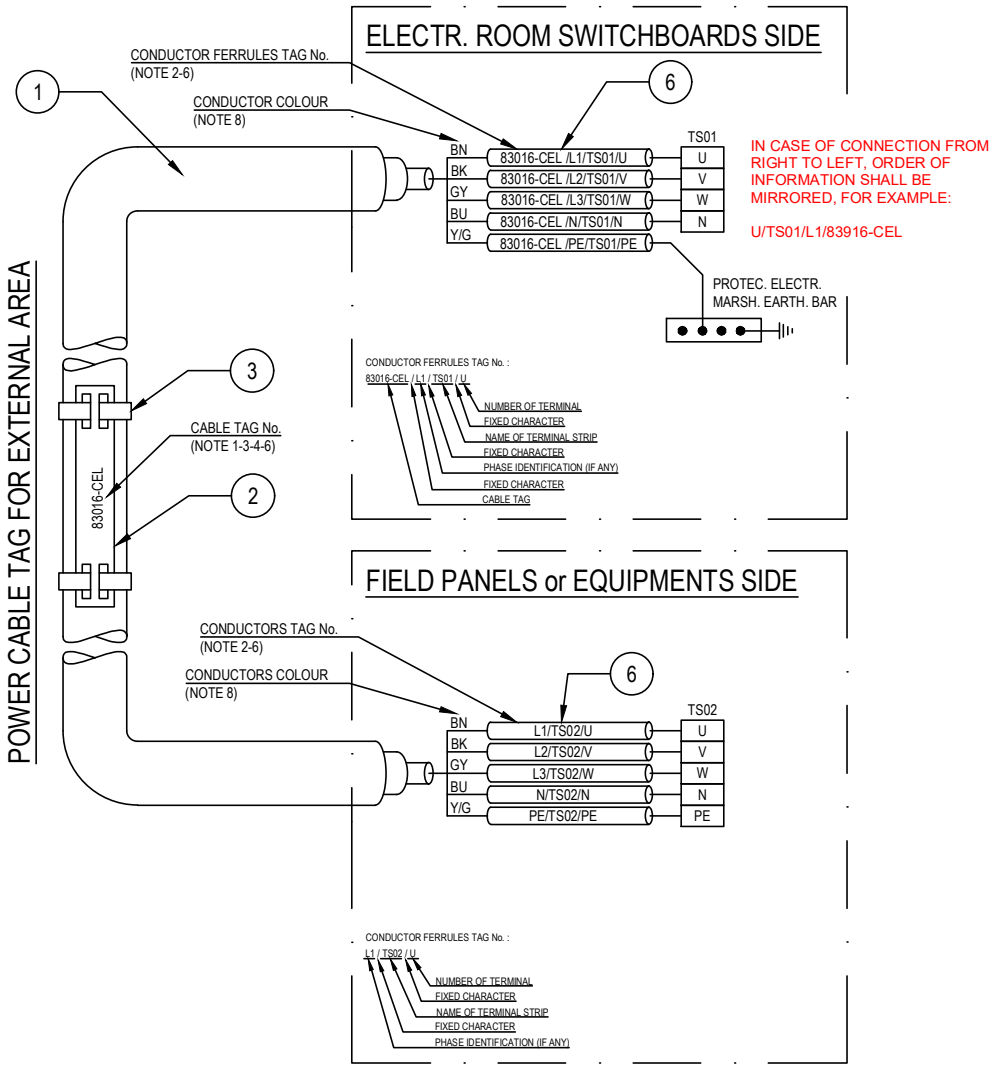
SHEET 007

REV. 02

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

F.to UNI A3: 420mmx297mm

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

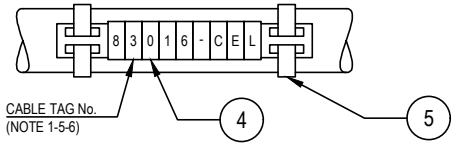
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

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

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

F.to UNI A3: 420mmx297mm

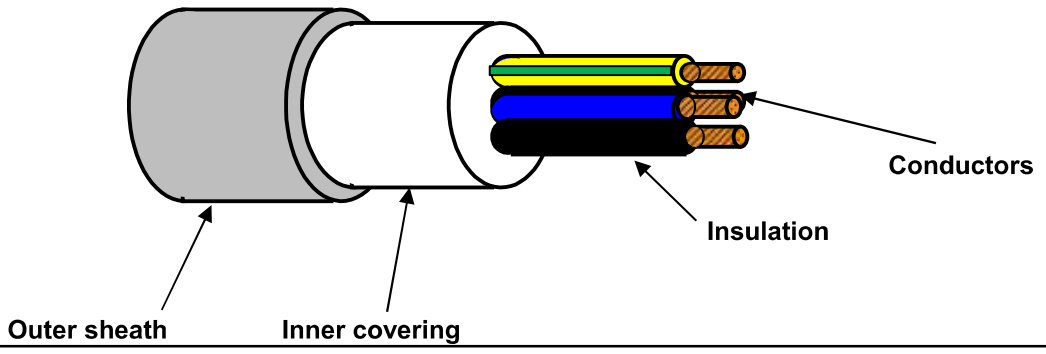
File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Info	Category	Discipl	Eng Status	NativeDoc	Service	Entity Type	Main Function	Module	Area	From Tag	From Main Fun	From Tag Section	To Tag	To Main Func	To Tag Sectio	Material ID	Material Desc.	Gland St	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-10-L3-04		Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-10-L3-03	Emergency Lighting JB		ELF-200N1-10-L3-04	Emergency Lighting Fixture		ELECV12-4G2,5_E	Cable Cu Cl.2/EPR/LSZH 0,6/1kV 4G2,5mm^2_E - Grey	M25	T1_M25_Single			T1_M25_Single				L-50-102-LVT-041

FLEI s.r.l.

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G2,5_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Black - Brown - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	Not required	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60092.360, Average Thickness 1,2 mm	
Outer sheath color code:	**Grey**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G2,5 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**	
Outer diameter :	(14,0 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance :	IEC 61034.2 (LT ≥ 60%)	
Hazardous Areas :	IEC 60079.14:2013 par.9.3.2a	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

All proprietary rights reserved according to law. This document shall be not reproduced without written permission. FLEI reserves the right to change characteristics and technical data of product shown at any time.

ITEM	Tag	P-EJB-200N1-10-L3-03	: Stair Emergency Lighting JB / Stair Emergency Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	LD/UD
TASK	code	C10000826		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type: Cu Cl.2/EPR/LSZH | Cores/Size mm²: 4G4_E mm2 | Color: GREY

From: EJB-200N1-10-L3-02 | To: EJB-200N1-10-L3-03

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	Note
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	Note
13	If required produce Red Line Mark Up for "AS BUILT"	

ITEM	Tag	P-EJB-200N1-10-L3-03	: Stair Emergency Lighting JB / Stair Emergency Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	LD/UD
TASK	code	C10000826		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0.2	
6		PH 2	0.2	
7		PH 3	0.2	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0.2	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>1999	
11		PH2 / PH1-PH3-A-E	>1999	
12		PH3 / PH1-PH2-A-E	>1999	
13	CABLE IS CORRECTLY RE-CONNECTED.		NA	

TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	VOLCRAFT 1000V - ET-200 S/N:H240103023	TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207
Calibration certificate N° and date:	N°LAT 042 00768/24 _ 12/10/2024	Calibration certificate N° and date:	N°7722/24 _ 10/07/2024

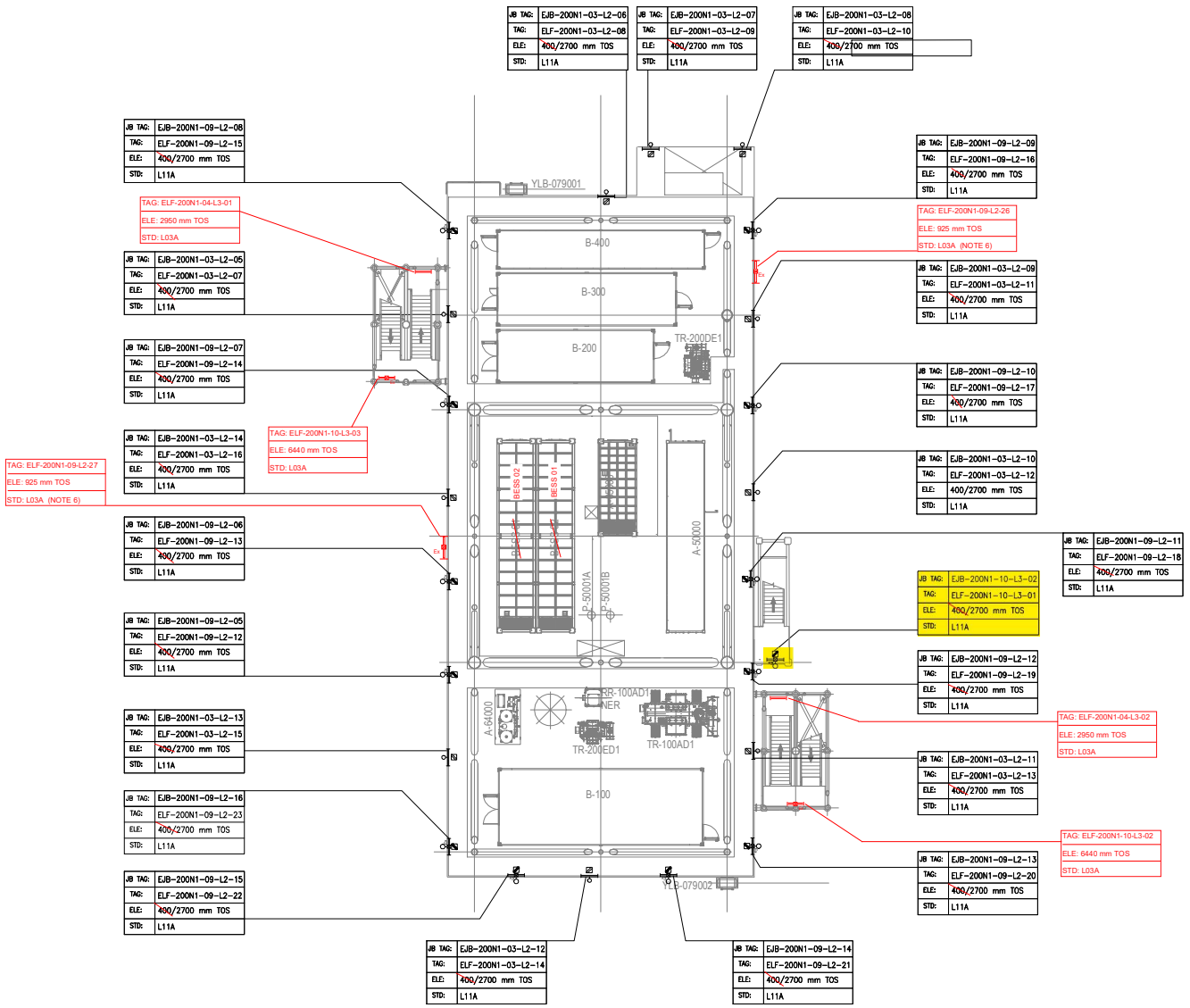
Comments: Nota 4: refer to PL C30000679/C30000681

Note 3,12: Cable dressing and termination will be completed on OFFSHORE phase. Refer to task

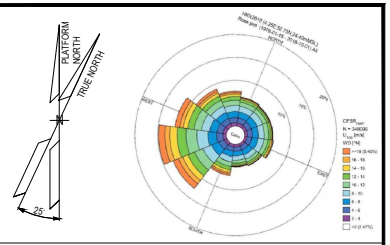
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Alessio Polo	
Date	2025-02-18	2025-02-20	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-02-18T09:39:10.601Z	PROVERLIS Digitaly signed by Alessio Polo 2025-02-20T15:03:50.308Z	

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

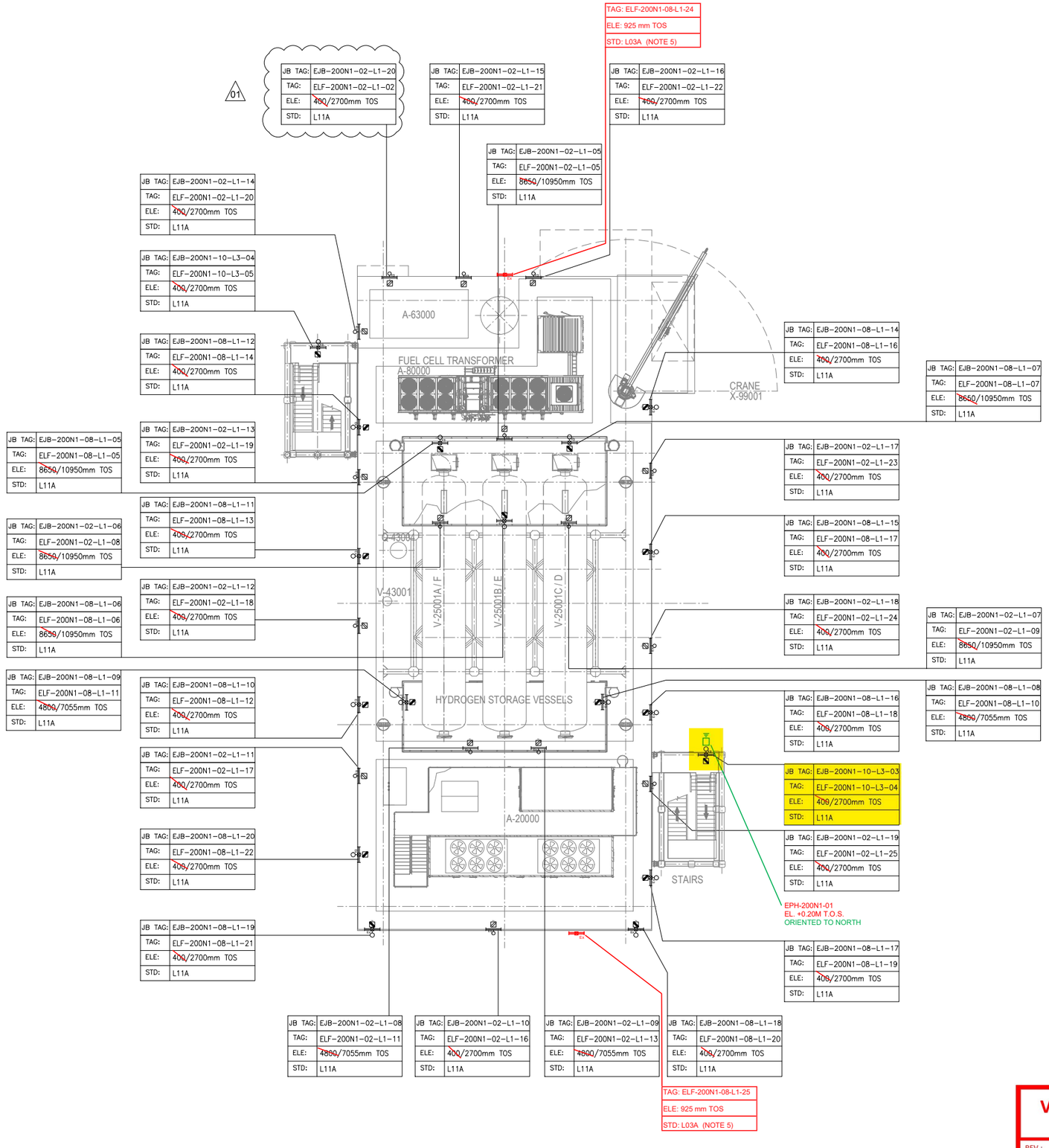
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

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

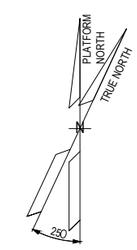
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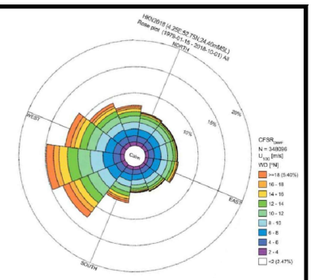
DRAWING NO. 123A90-DDL-EL-DL-20118

REV. 01



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





NOTES

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

ROSETTI MARINO SpA

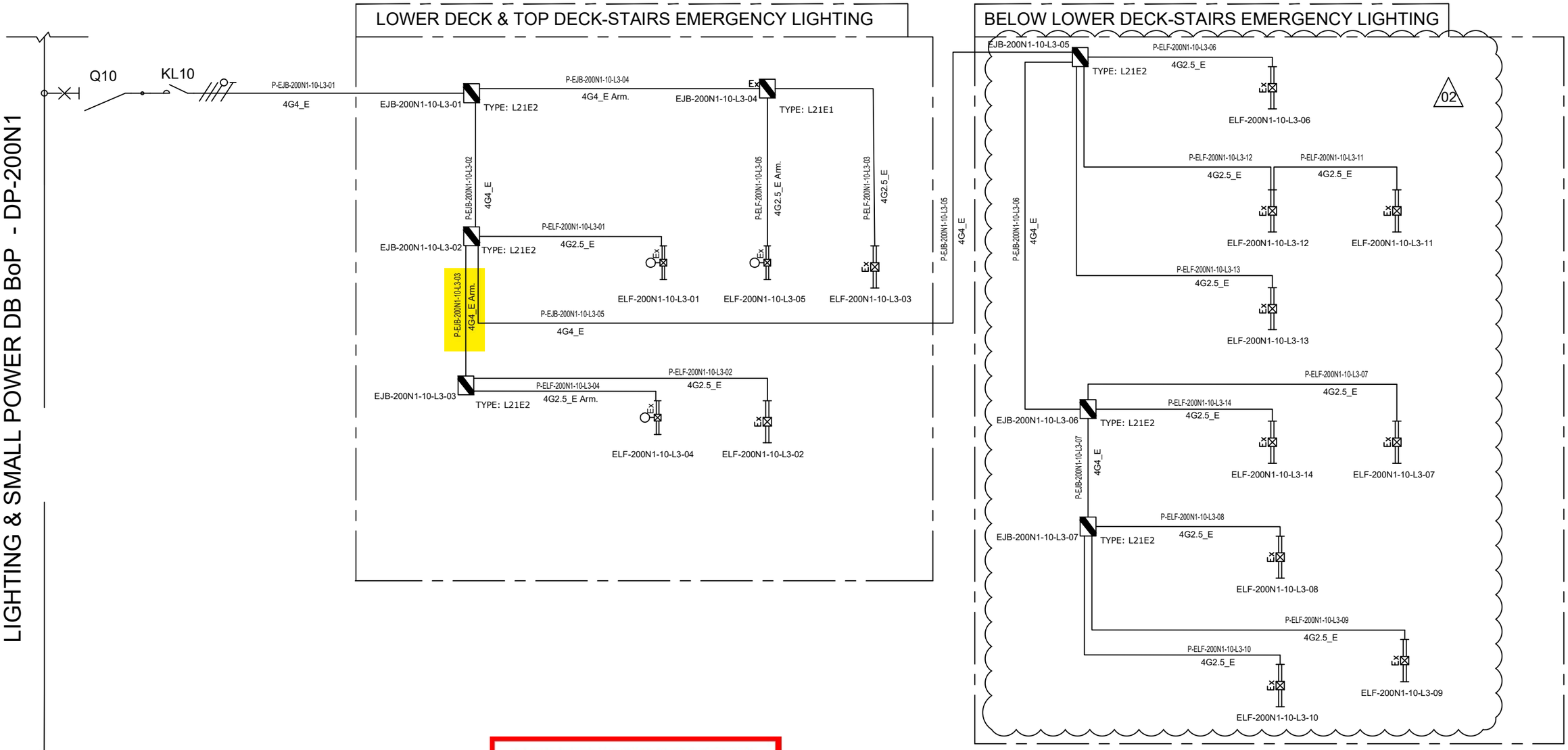
CROSSWIND | ROSETTI MARINO

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 1of2	REV. 01

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

LIGHTING & SMALL POWER DB BoP - DP-200N1



NOTE:	
ELF-200N1-10-L3-01	LOWER DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-02	
ELF-200N1-10-L3-03	
ELF-200N1-10-L3-04	TOP DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-05	

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

REV.:	DATE:	SIGNATURE:
2_G	16/01/25	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
		ELF-200N1-10-L3-09			
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
STAIRS EMERGENCY LIGHTING (LOWER DECK,TOP DECK AND BELOW LOWER DECK)

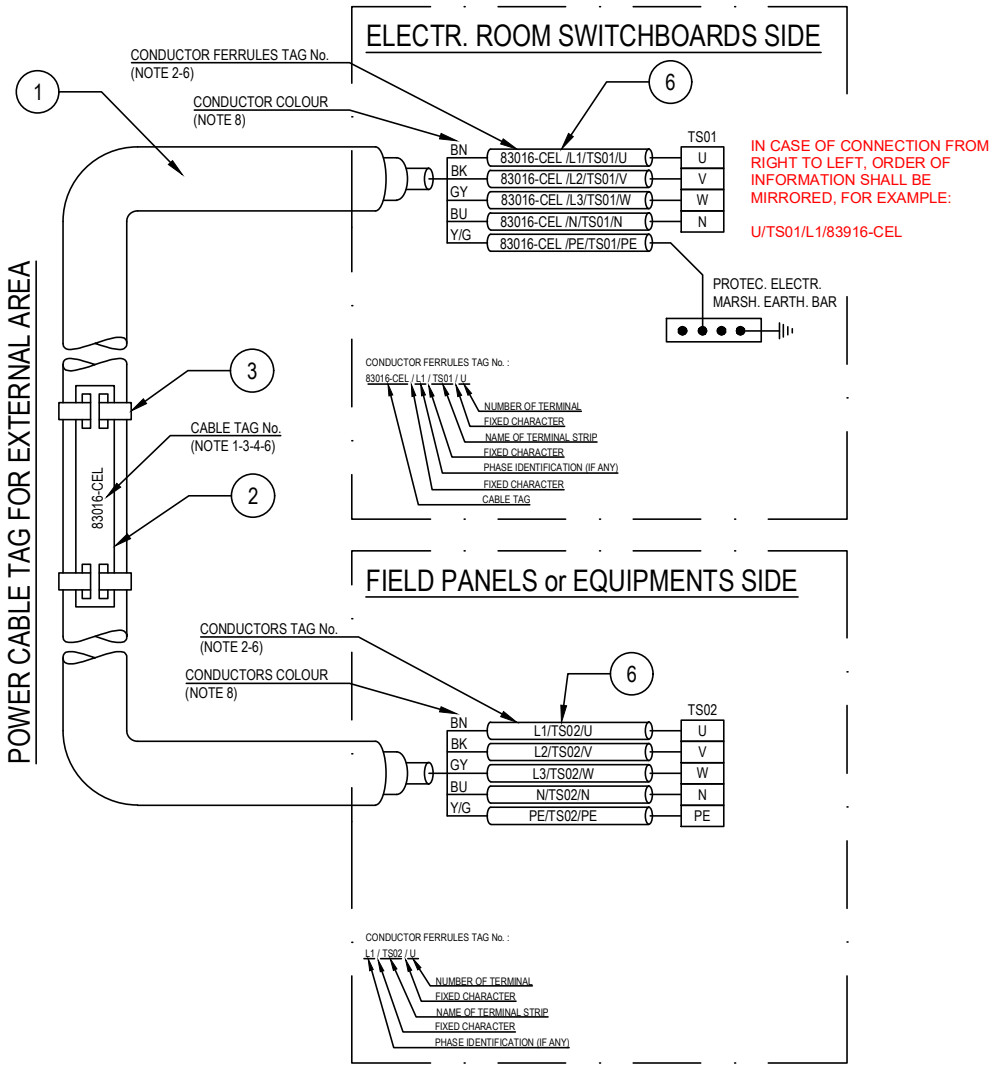
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	007	02

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

F.to UNI A3: 420mmx297mm

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

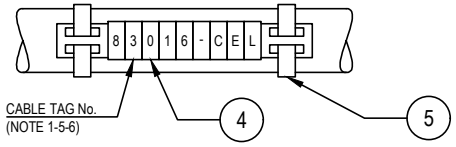
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

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

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

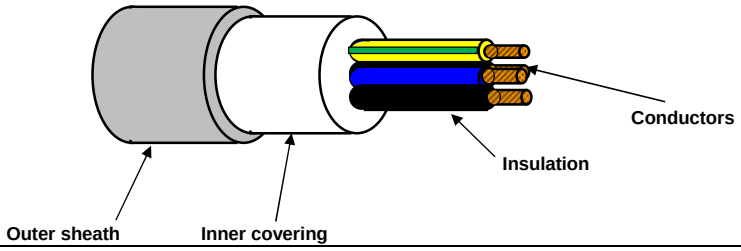
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-EJB-200N1-10-L3-03	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-10-L3-02	Emergency Lighting JB	Lower Deck Stairs		EJB-200N1-10-L3-03	Emergency Lighting JB	Upper Deck Stairs		ELECV11-4G4_E	Cable Cu Cl.2/EPR/LSZH 0,6/1kV 4G4mm²_E - Grey	M25	T1_M25_Single			T1_M25_Single				L-50-101-LVT-141 / L-50-101-LVT-142 / L-300-101-LVT-080 / L-300-101-LVT-079 / L-150-102-LVT-003 / L-50-102-LVT-062 / L-50-102-LVT-041

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G4_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G4 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(15,5 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

All proprietary rights reserved according to law. This document shall be not reproduced without written permission. FLEI reserves the right to change characteristics and technical data of product shown at any time.

ITEM	Tag	P-ELF-200N1-10-L3-05	: Stair Emergency Lighting JB / Stair Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	UD
TASK	code	C10000827		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 4G2,5_E mm2 Color GREY

From EJB-200N1-10-L3-04 To ELF-200N1-10-L3-05

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	OK
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	OK
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-ELF-200N1-10-L3-05	: Stair Emergency Lighting JB / Stair Emergency Lighting Fixture		Dwg	123A90-DDL-EL-LIS-20148	
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece		Module	UD	
TASK	code	C10000827	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline Electrical	Form	CPX09	LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0.1	
6		PH 2	0.1	
7		PH 3	0.1	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0.2	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>1999	
11		PH2 / PH1-PH3-A-E	>1999	
12		PH3 / PH1-PH2-A-E	>1999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

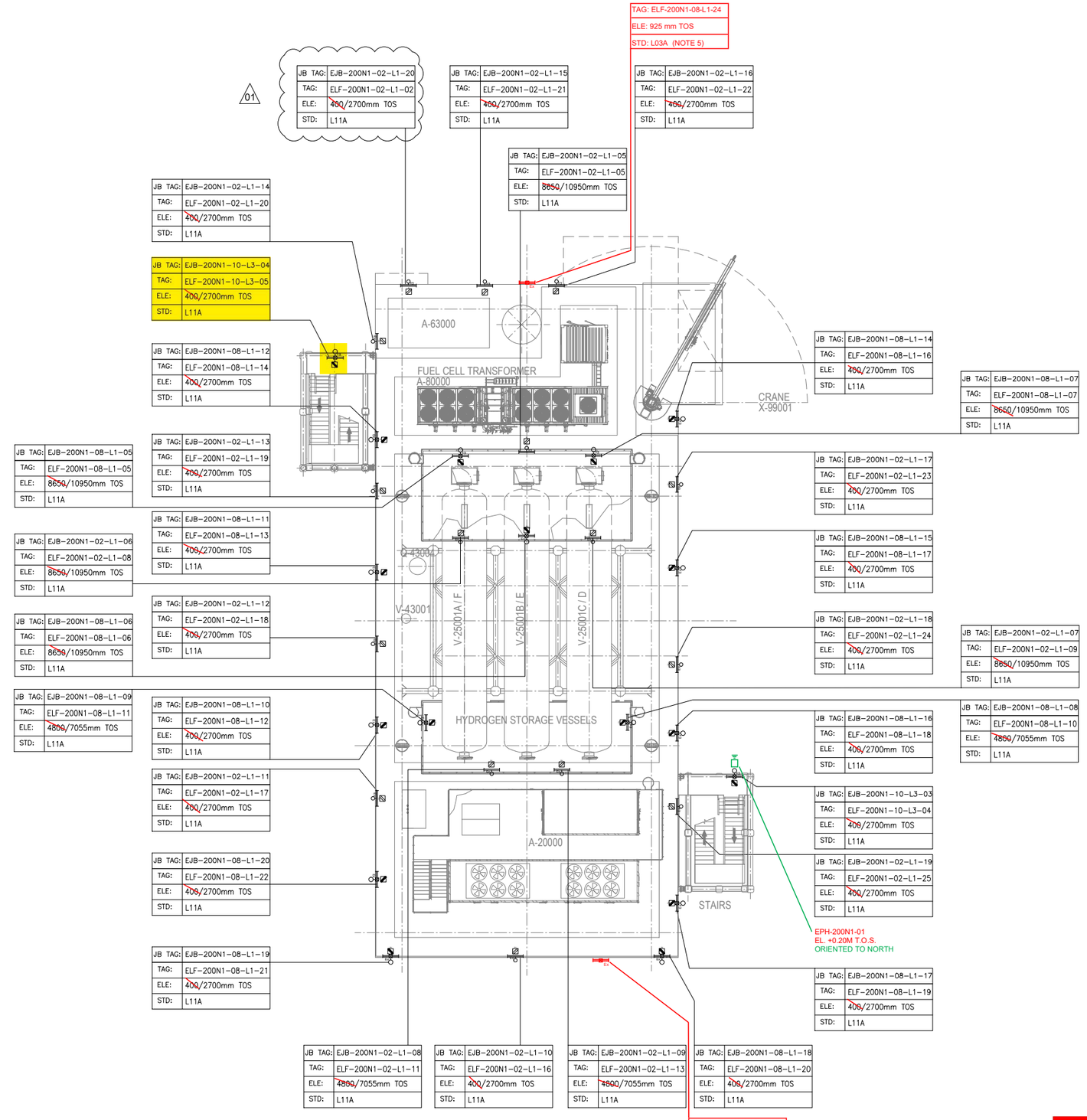
TYPE / SERIAL N° :	VOLCRAFT 1000V - ET-200 S/N:H240103023	TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207
Calibration certificate N° and date:	N°LAT 042 00768/24 _ 12/10/2024	Calibration certificate N° and date:	N°7722/24 _ 10/07/2024

Comments:

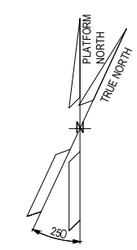
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Alessio Polo	
Date	2025-02-18	2025-02-20	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-02-18T09:39:21.673Z	PROVERLIS Digitaly signed by Alessio Polo 2025-02-20T14:28:17.565Z	

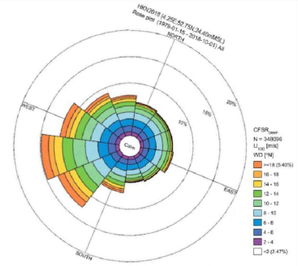
DRAWING NO. 123A90-DDL-EL-DL-20118

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

ROSETTI MARINO SpA

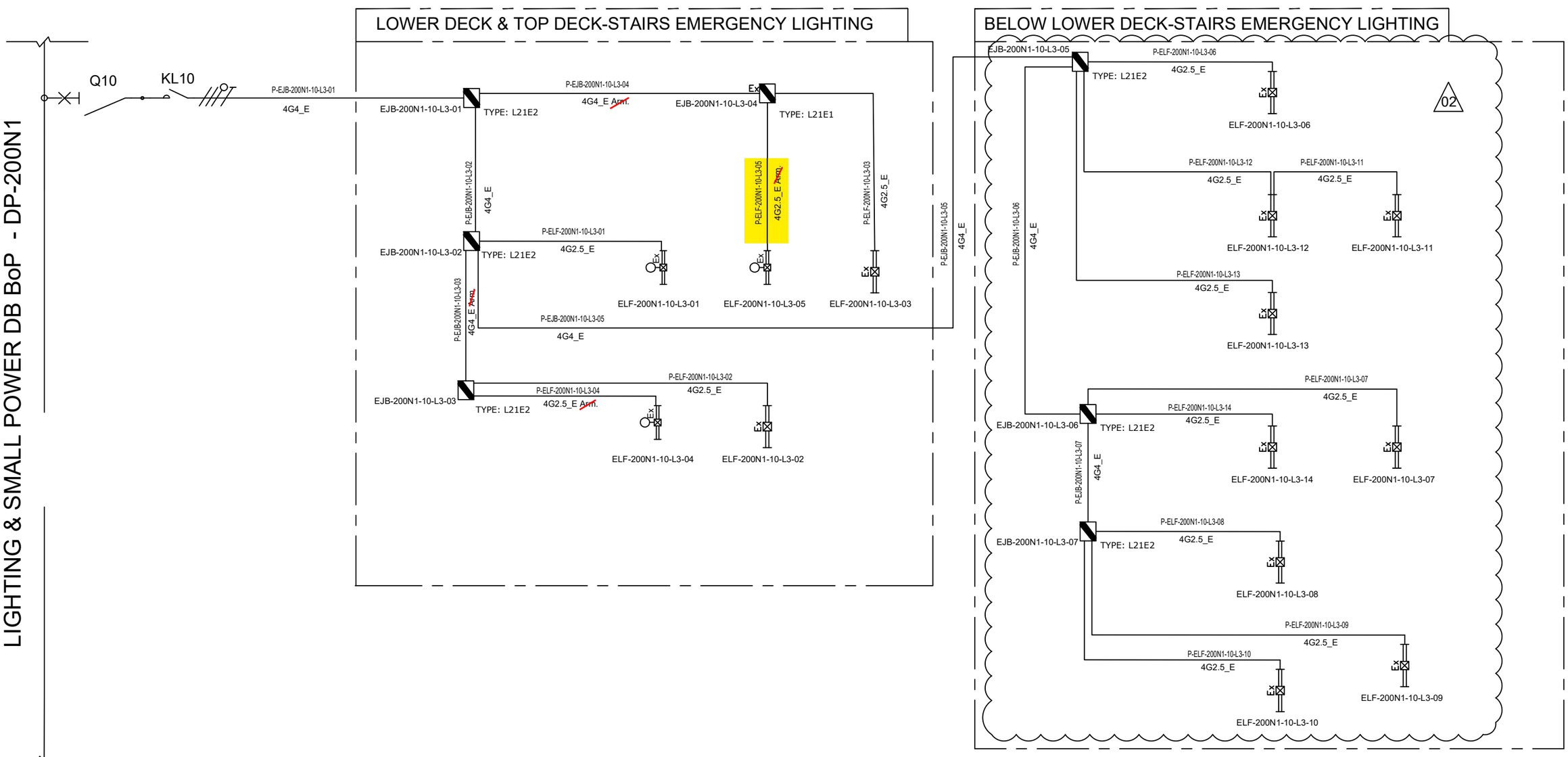
CROSSWIND | ROSETTI MARINO

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 1of2	REV. 01

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

LIGHTING & SMALL POWER DB BoP - DP-200N1



NOTE:	
ELF-200N1-10-L3-01	LOWER DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-02	
ELF-200N1-10-L3-03	
ELF-200N1-10-L3-04	TOP DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-05	

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

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

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
		ELF-200N1-10-L3-09			
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
STAIRS EMERGENCY LIGHTING (LOWER DECK,TOP DECK AND BELOW LOWER DECK)

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

SCALE : NTS

A3

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

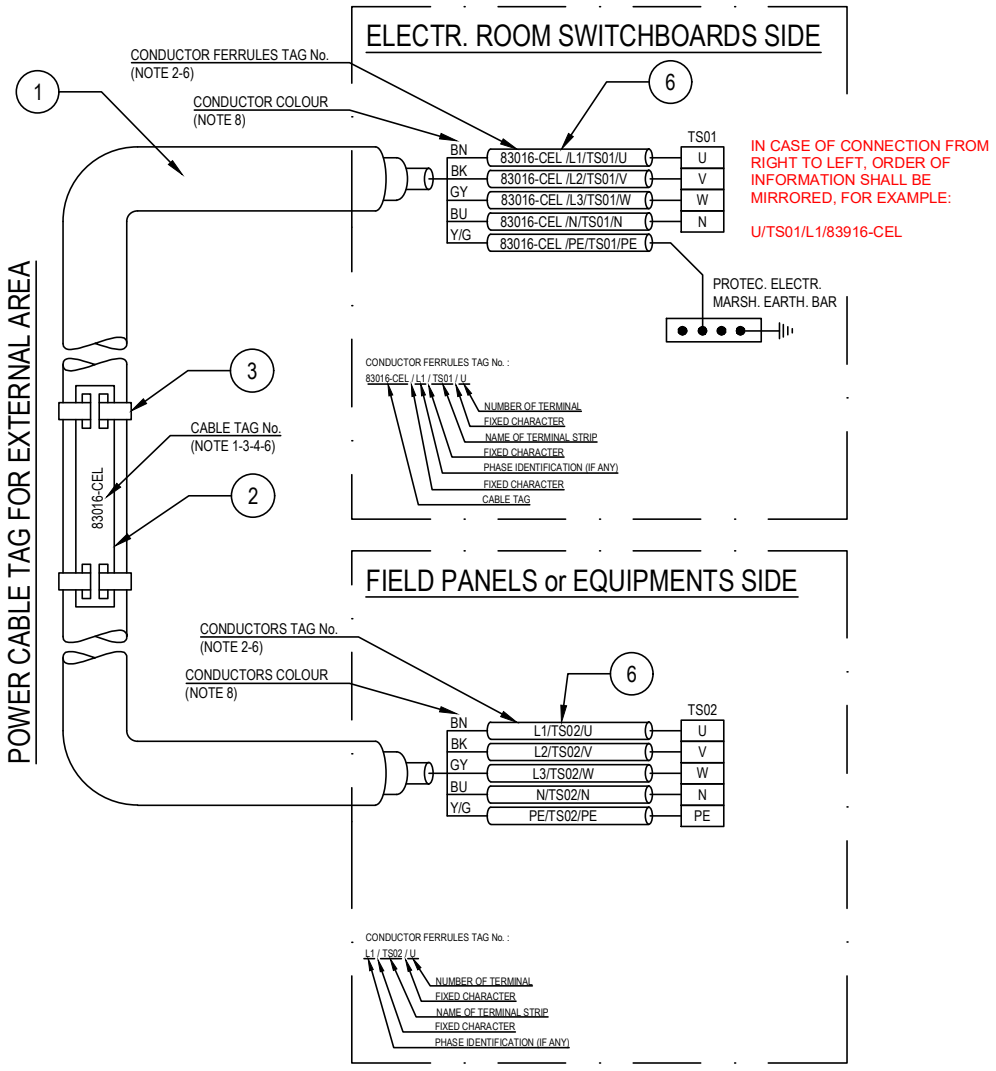
SHEET 007

REV. 02

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

F.to UNI A3: 420mmx297mm

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

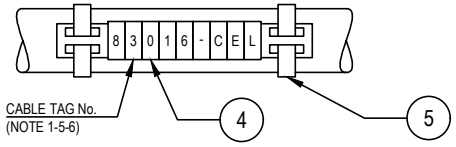
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

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

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

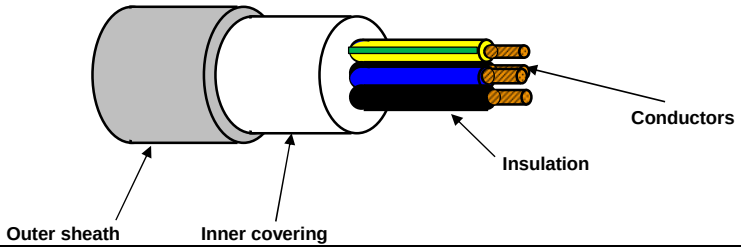
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-10-L3-05	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-10-L3-04	Emergency Lighting JB	Upper Deck Stairs		ELF-200N1-10-L3-05	Emergency Lighting Fixture	Upper Deck Stairs		ELECV22-4G2,5_E	Cable Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1kV 4G2,5mm²_E - Orange	M20	T2_M20_Double			T2_M20_Double				L-50-102-LVT-040

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G2,5_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G2,5 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(14,0 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-EJB-200N1-10-L3-04	: Stair Emergency Lighting JB / Stair Emergency Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	LD/UD
TASK	code	C10000828		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 4G4_E mm2 Color GREY

From EJB-200N1-10-L3-01 To EJB-200N1-10-L3-04

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	OK
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-EJB-200N1-10-L3-04	: Stair Emergency Lighting JB / Stair Emergency Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	LD/UD
TASK	code	C10000828		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,6	
6		PH 2	0,6	
7		PH 3	0,6	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,6	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

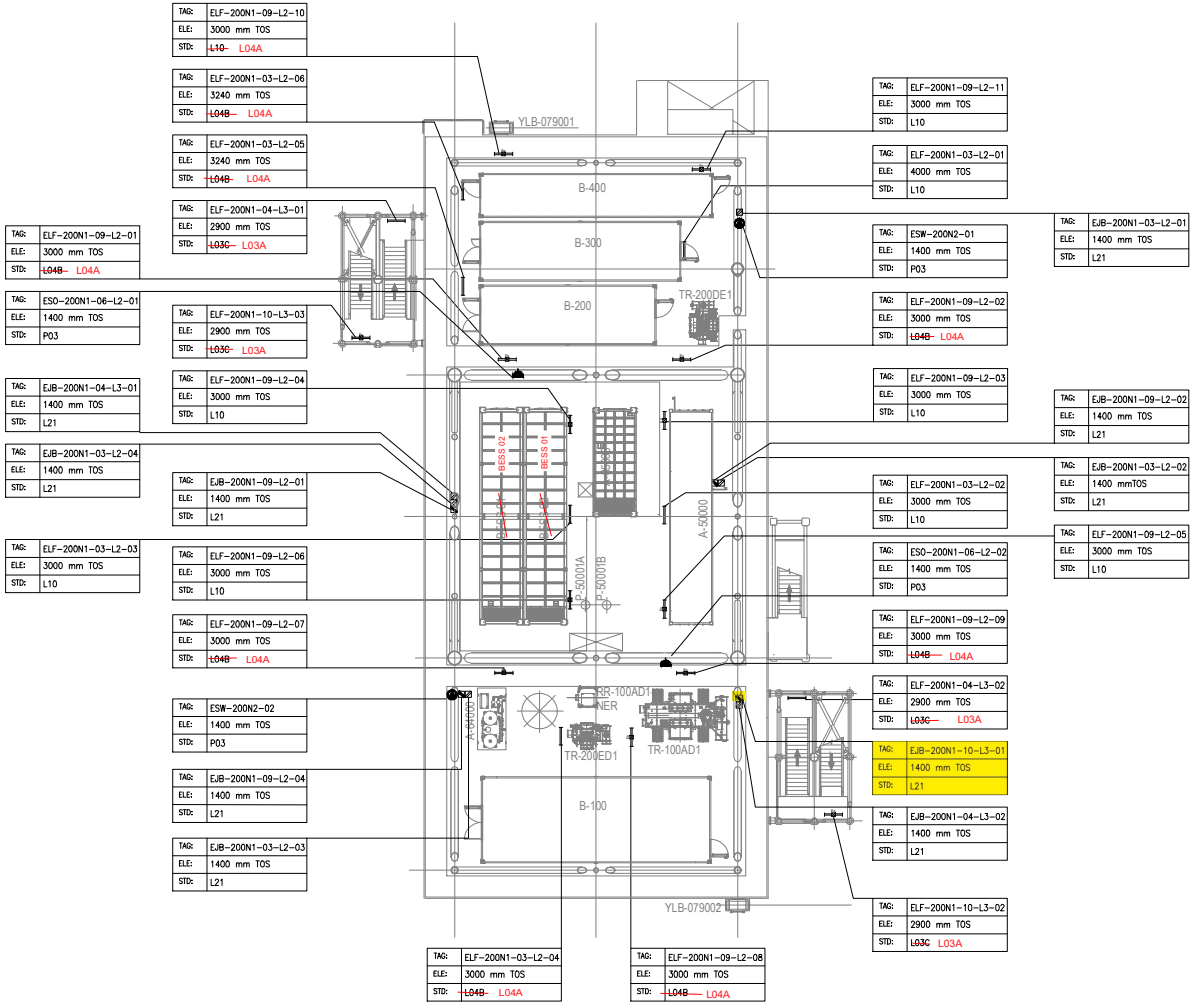
TYPE / SERIAL N° :	VOLCRAFT 1000V - ET-200 S/N:H240103023	TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207
Calibration certificate N° and date:	N°LAT 042 00768/24 _ 12/10/2024	Calibration certificate N° and date:	N°7722/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679/C30000681

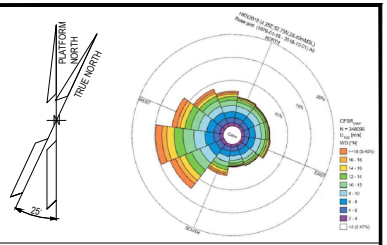
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Paolo Schintu	
Date	2025-01-28	2025-01-30	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-28T07:46:15.138Z	PROVERLIS Digitaly signed by Paolo Schintu 2025-01-30T14:56:15.479Z	

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

VALID FOR CONSTRUCTION

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

ROSETTI MARINO SpA

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)

CROSSWIND

ROSETTI MARINO

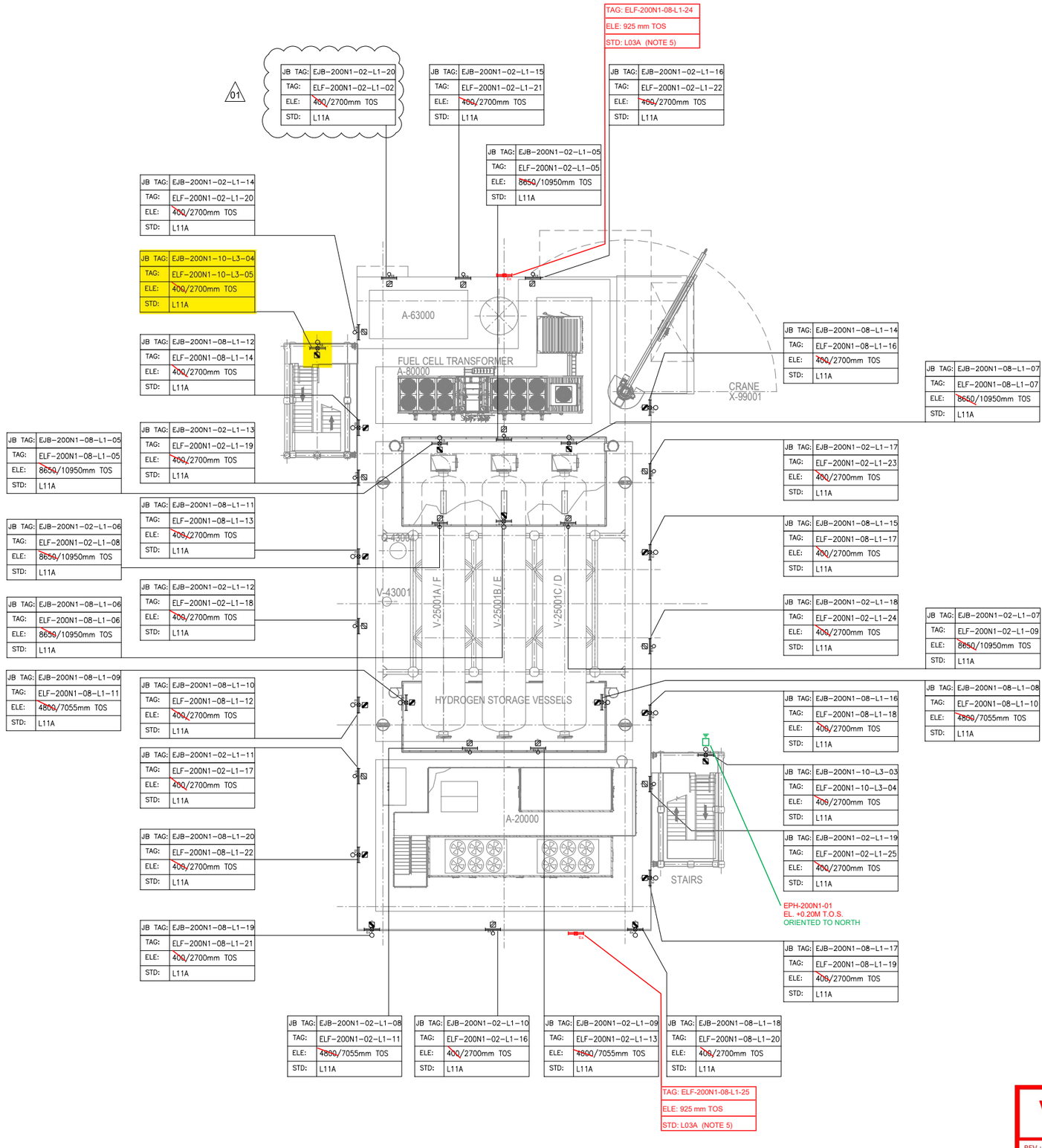
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

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

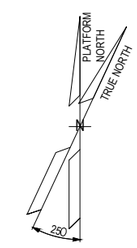
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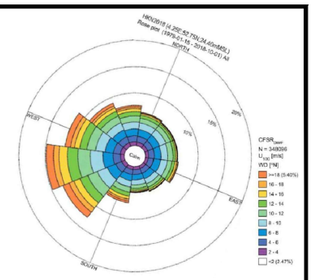
DRAWING NO. 123A90-DDL-EL-DL-20118

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

ROSETTI MARINO SpA

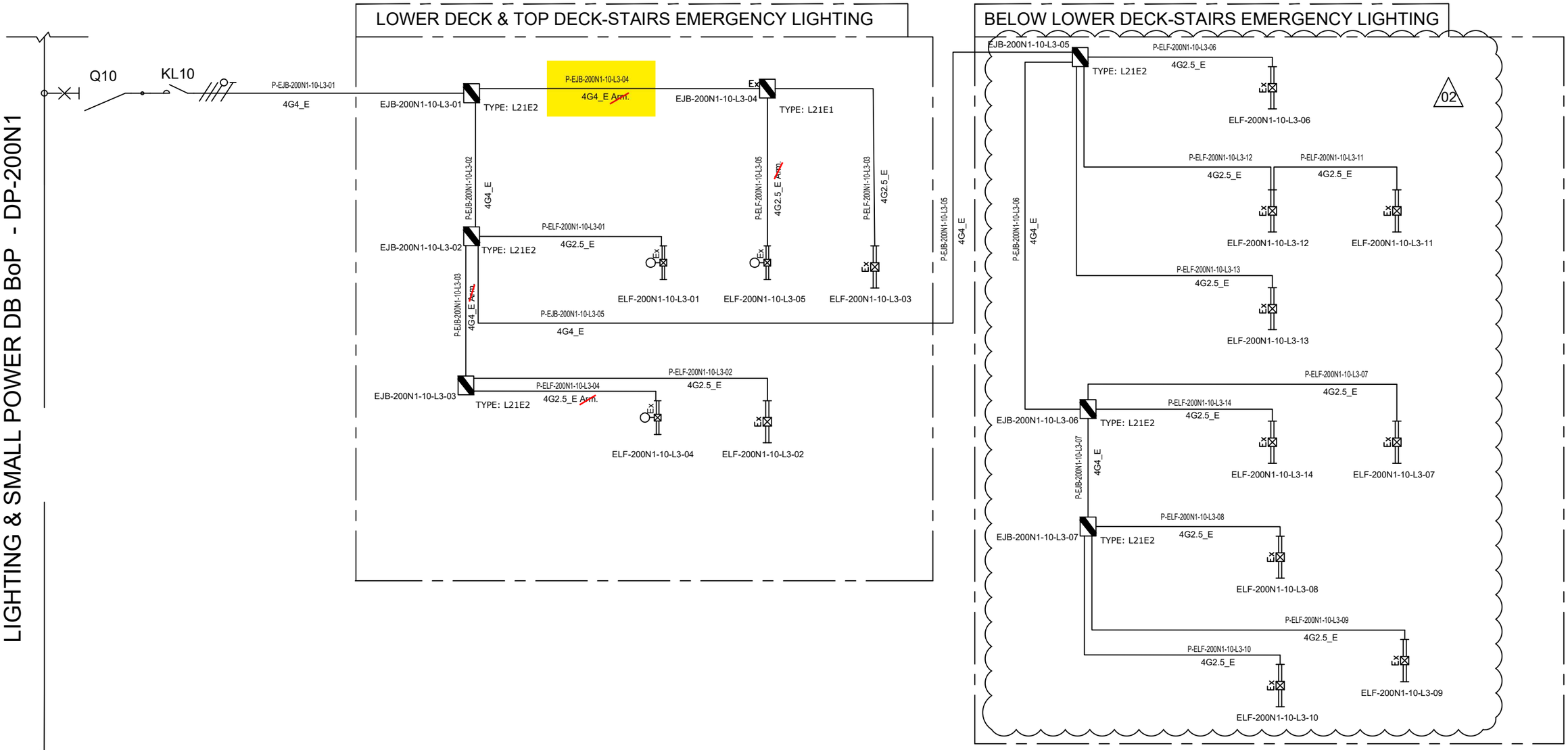
CROSSWIND | ROSETTI MARINO

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 1of2	REV. 01

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

LIGHTING & SMALL POWER DB BoP - DP-200N1



NOTE:	
ELF-200N1-10-L3-01	LOWER DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-02	
ELF-200N1-10-L3-03	
ELF-200N1-10-L3-04	TOP DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-05	

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

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

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
		ELF-200N1-10-L3-09			
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
STAIRS EMERGENCY LIGHTING (LOWER DECK,TOP DECK AND BELOW LOWER DECK)

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

SCALE : NTS

A3

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

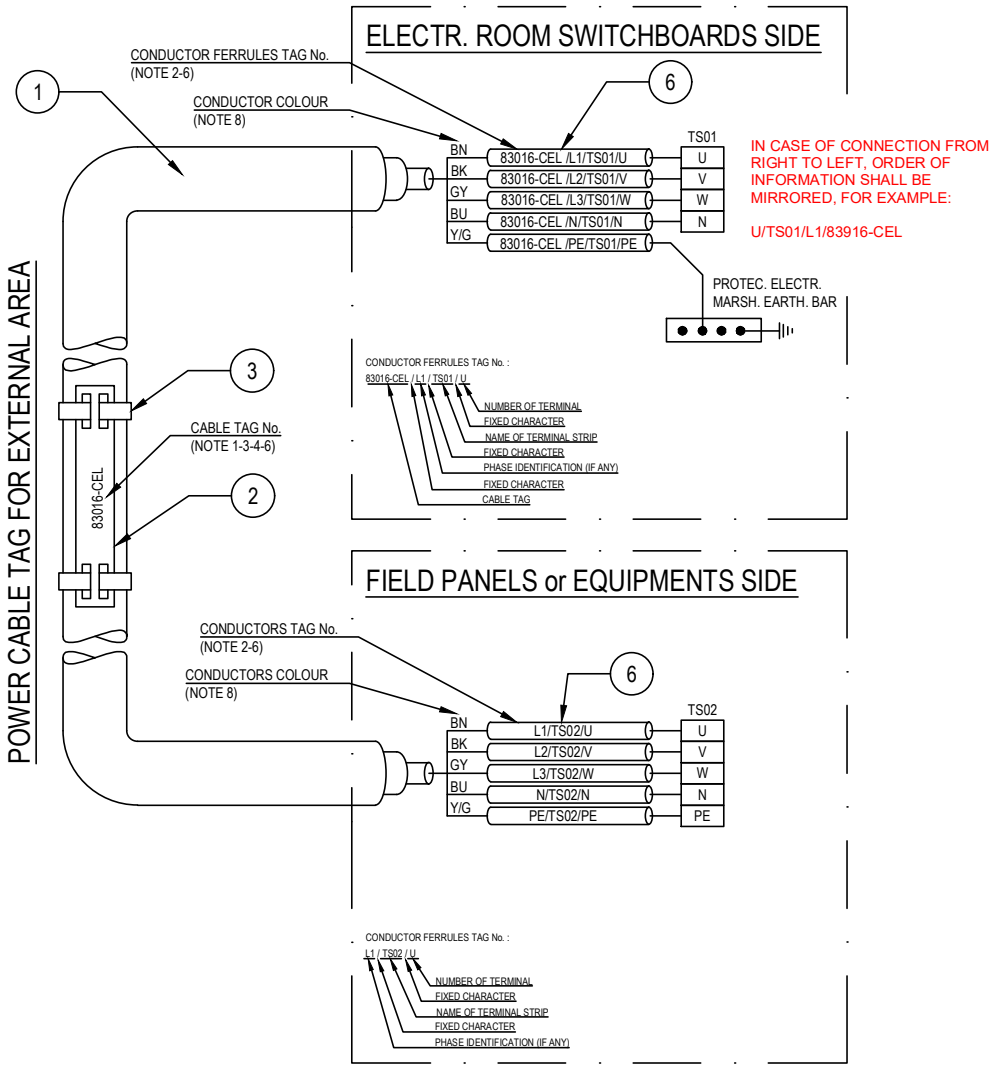
SHEET 007

REV. 02

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

F.to UNI A3: 420mmx297mm

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

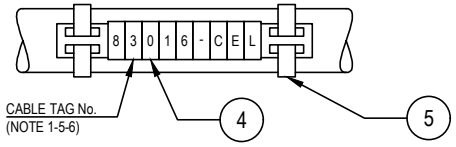
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

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

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

F.to UNI A3: 420mmx297mm

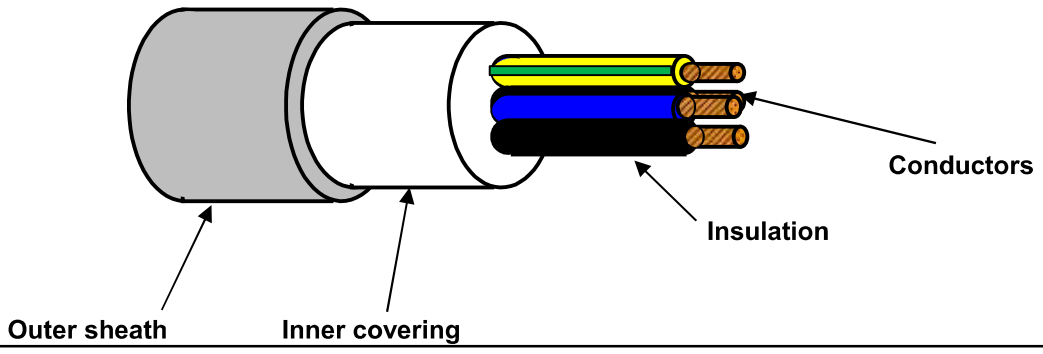
File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Info	Category	Discipl	Eng Status	NativeDoc	Service	Entity Type	Main Functio	Module	Area	From Tag	From Main Func	From Tag Section	To Tag	To Main Func	To Tag Sectio	Material ID	Material Desc.	Gland St	From Gland	From E	From Fitt	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-EJB-200N1-10-L3-04		Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-10-L3-01	Emergency Lighting JB		EJB-200N1-10-L3-04	Emergency Lighting JB		ELECV11-4G4_E	Cable Cu Cl.2/EPR/LSZH 0,6/1kV 4G4mm^2_E - Grey	M25	T1_M25_Single			T1_M25_Single				L-150-101-LVT-100 / L-300-101-LVT-079 / L-750-101-LVT-014 / L-600-101-LVT-094 / L-600-101-LVT-012 / L-300-101-LVT-084 / L-150-102-LVT-005 / L-50-102-LVT-061

FLEI s.r.l.

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G4_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Black - Brown - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	Not required	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60092.360, Average Thickness 1,2 mm	
Outer sheath color code:	**Grey**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G4 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 -**	
	Year of Manufacture - CE + Meter Marking	
Outer diameter :	(15,5 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance :	IEC 61034.2 (LT ≥ 60%)	
Hazardous Areas :	IEC 60079.14:2013 par.9.3.2a	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-ELF-200N1-10-L3-06	: Stair Emergency Lighting JB / Stair Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	TP
TASK	code	C10000829		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type: Cu Cl.2/EPR/LSZH | Cores/Size mm²: 4G2,5_E mm2 | Color: GREY

From: EJB-200N1-10-L3-05 | To: ELF-200N1-10-L3-06

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	OK
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	OK
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ITEM	Tag	P-ELF-200N1-10-L3-06	: Stair Emergency Lighting JB / Stair Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	TP
TASK	code	C10000829		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,3	
6		PH 2	0,3	
7		PH 3	0,3	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,3	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

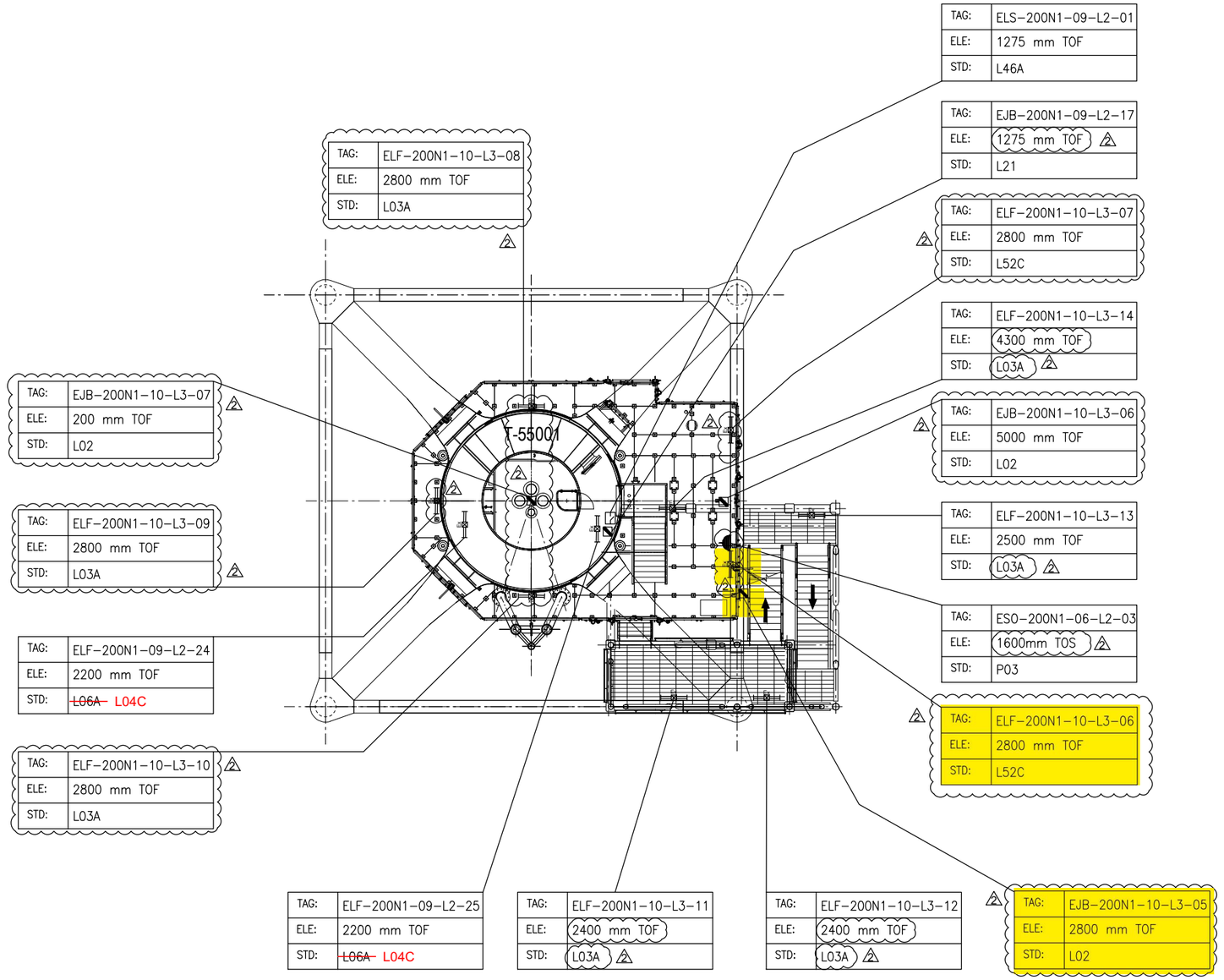
TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	VOLCRAFT 1000V - ET-200 S/N:H240103023	TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207
Calibration certificate N° and date:	N°LAT 042 00768/24 _ 12/10/2024	Calibration certificate N° and date:	N°7722/24 _ 10/07/2024

Comments:

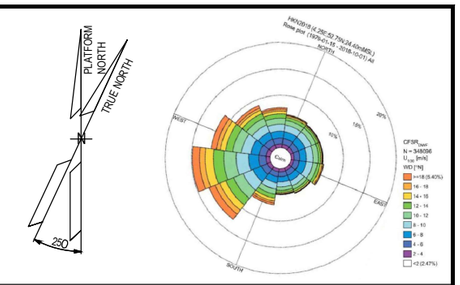
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	VIP	RM(ROSETTI MARINO)	
Name	Madhankumar Arunagiri	Giovanni Tangianu	
Date	2025-04-18	2025-04-29	
Signature	PROVERLIS Digitaly signed by Madhankumar Arunagiri 2025-04-18T05:59:11.569Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2025-04-29T11:57:32.651Z	

DRAWING NO. 123A90-DDL-EL-DL-20120

REV. 02



PLAN ON EXISTING PLATFORM AT EL.+16.860 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S / T.O.F.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. ELEVATION OR STANDARD PRESENT IN THE MASK, WHERE JB AND FIXTURE ARE SHOWN, ARE RELATIVE TO THE ORDER OF THE TAGS, 1°ROW JB AND 2°ROW FIXTURE = ELEVATION JB / ELEVATION FIXTURE.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- SMALL POWER SOCKET WITH INTEGRATED JB
- LOCAL SWITCH IP66 TYPE

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

T.O.S TOP OF STEEL
T.O.F TOP OF FOOTING (Walkway plan)

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20120**

REV.:	DATE:	SIGNATURE:
2_B	27/01/25	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-EL-DL-20102	ELECTRICAL EQUIPMENT LAYOUT - TRANSITION PIECE
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-PP-DL-70070	BASE LOAD POWER HUB (BLPH) - PLOT PLAN - LOWER AND UPPER DECK
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
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	04/06/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

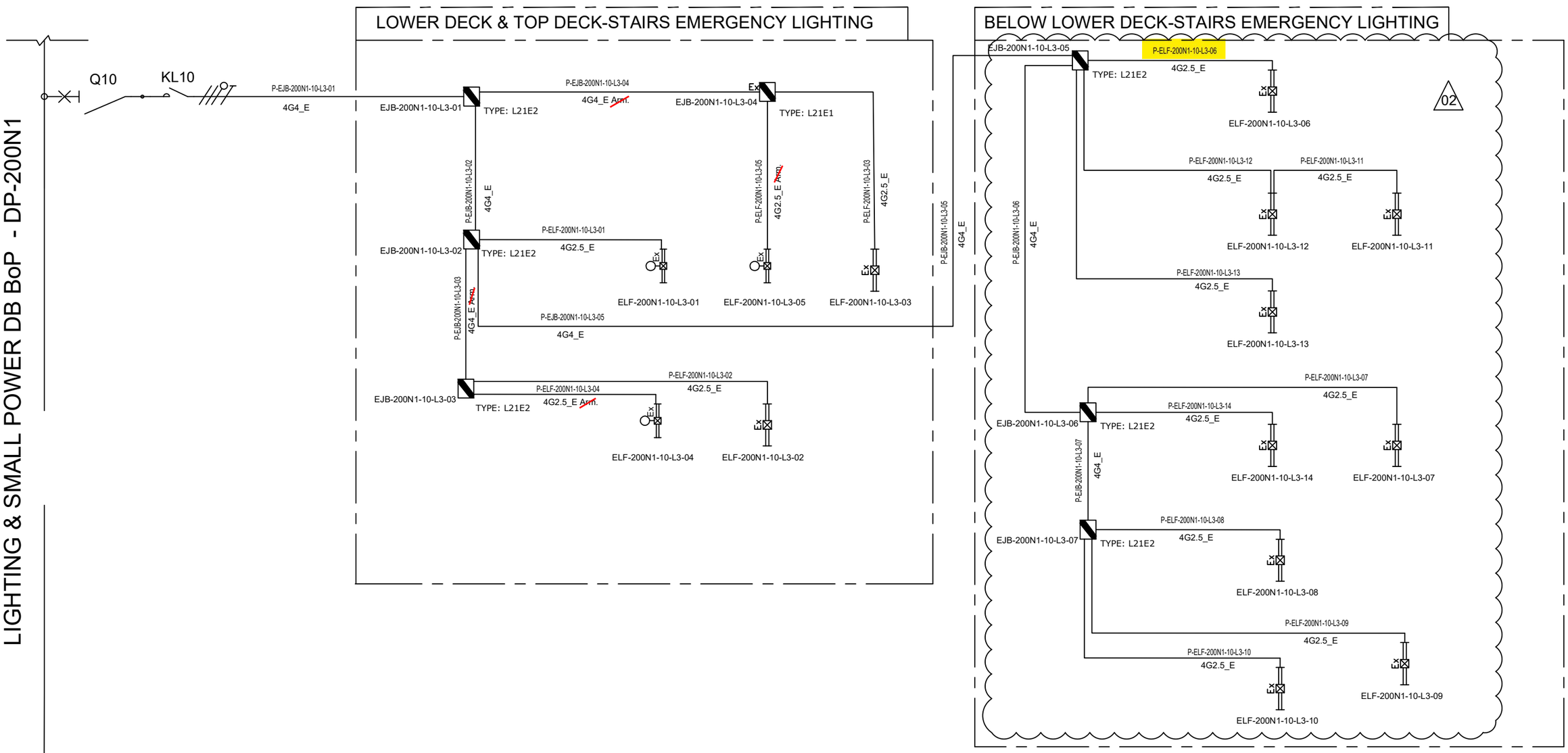
ROSETTI MARINO

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

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:100
DRAWN AMA	CHECKED CGI	APPROVED DLO	DATE 07/10/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20120	SHEET 001	REV. 02

File Name : 123A90-DDL-EL-DL-20120

LIGHTING & SMALL POWER DB BoP - DP-200N1



NOTE:	
ELF-200N1-10-L3-01	LOWER DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-02	
ELF-200N1-10-L3-03	
ELF-200N1-10-L3-04	TOP DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-05	

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

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

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
		ELF-200N1-10-L3-09			
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
STAIRS EMERGENCY LIGHTING (LOWER DECK,TOP DECK AND BELOW LOWER DECK)

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

SCALE : NTS

A3

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

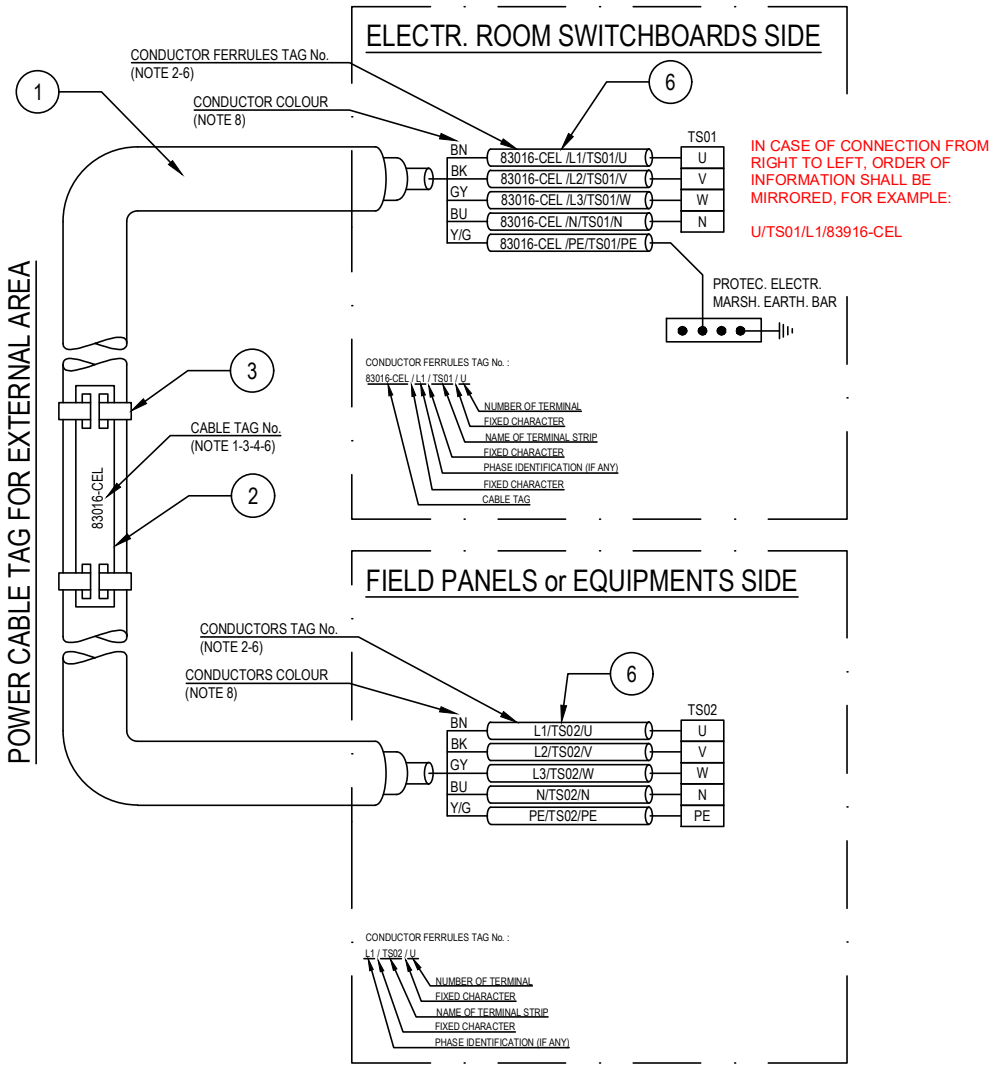
SHEET 007

REV. 02

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

F.to UNI A3: 420mmx297mm

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

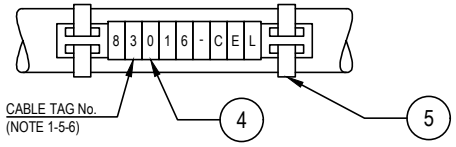
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

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

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

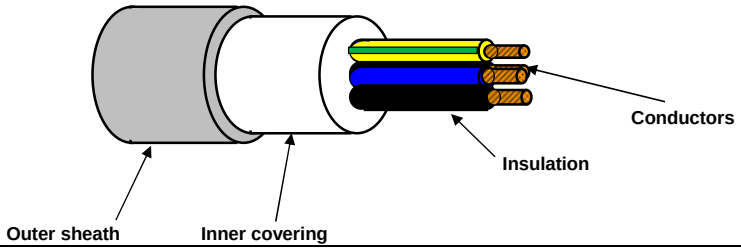
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-10-L3-06	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-10-L3-05	Emergency Lighting JB	Below Lower Deck Stairs		ELF-200N1-10-L3-06	Emergency Lighting Fixture	Below Lower Deck Stairs		ELECV12-4G2.5_E	Cable Cu Cl.2/EPR/LSZH 0.6/1kV 4G2.5mm²_E - Grey	M25	T1_M25_Single			T1_M25_Single	M20	ADAP_M20Mx M25F		L-50-100-LVT-010

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G2,5_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G2,5 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(14,0 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-EJB-200N1-10-L3-05	: Stair Emergency Lighting JB / Stair Emergency Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	LD/TP
TASK	code	C10000830		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 5G4_E mm2 Color GREY

From EJB-200N1-10-L3-02 To EJB-200N1-10-L3-05

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	Note
4	Check cable is supported and fixed to rack according to project specification.	OK
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	OK
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	P-EJB-200N1-10-L3-05	: Stair Emergency Lighting JB / Stair Emergency Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	LD/TP
TASK	code	C10000830		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,3	
6		PH 2	0,3	
7		PH 3	0,3	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,3	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

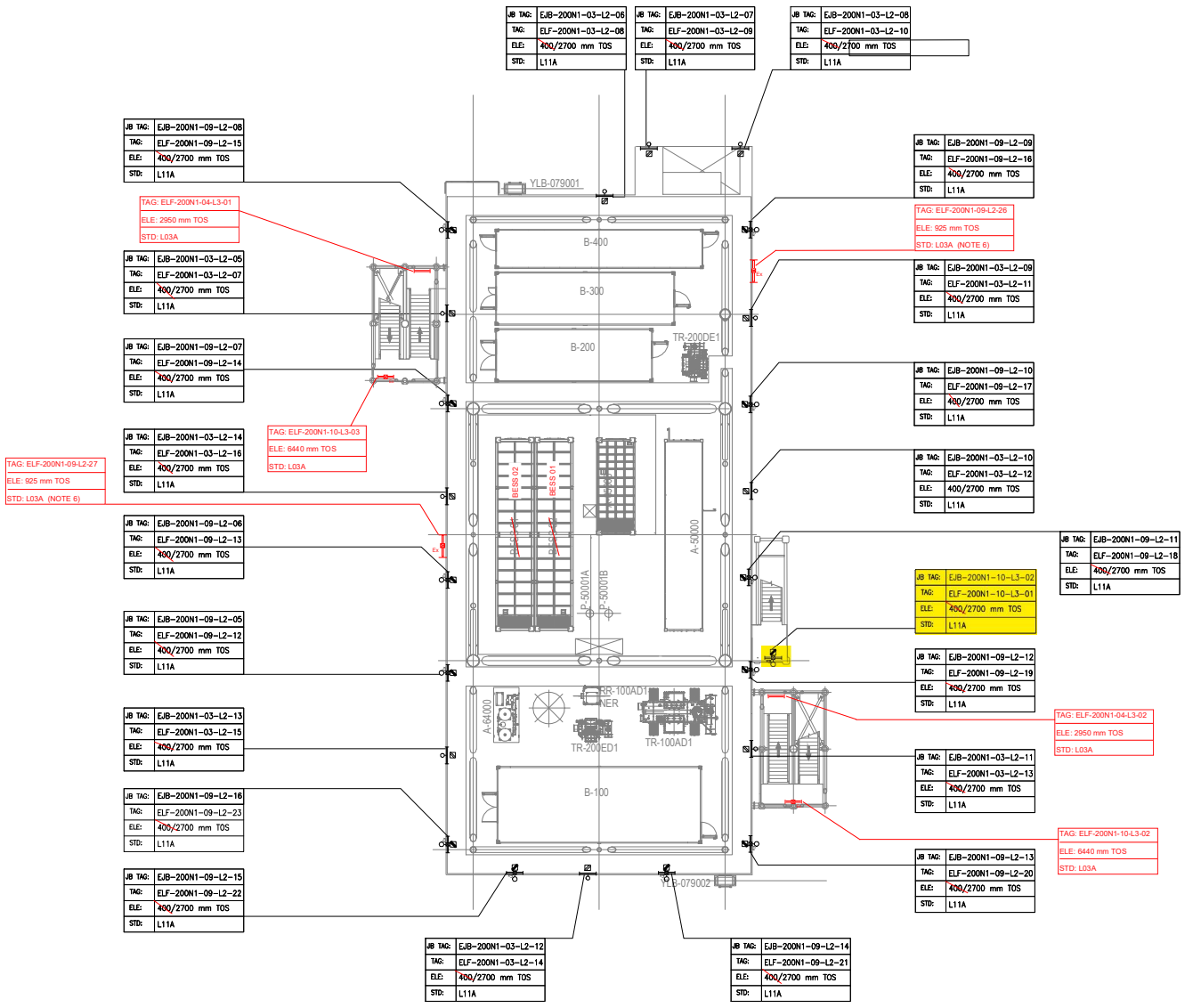
TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	VOLCRAFT 1000V - ET-200 S/N:H240103023	TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207
Calibration certificate N° and date:	N°LAT 042 00768/24 _ 12/10/2024	Calibration certificate N° and date:	N°7722/24 _ 10/07/2024

Comments:
CORE CONTINUITY PH 4= 0.3
CORES / ARMOUR+EARTH INS. PH 4 = >999 M

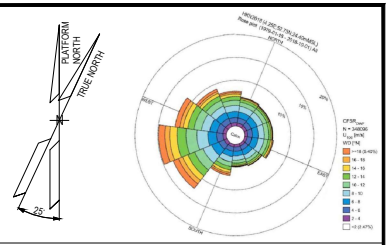
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	VIP	RM(ROSETTI MARINO)	
Name	Madhankumar Arunagiri	Giovanni Tangianu	
Date	2025-04-17	2025-04-17	
Signature	PROVERLIS Digitaly signed by Madhankumar Arunagiri 2025-04-17T12:34:08.636Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2025-04-17T14:03:19.697Z	

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

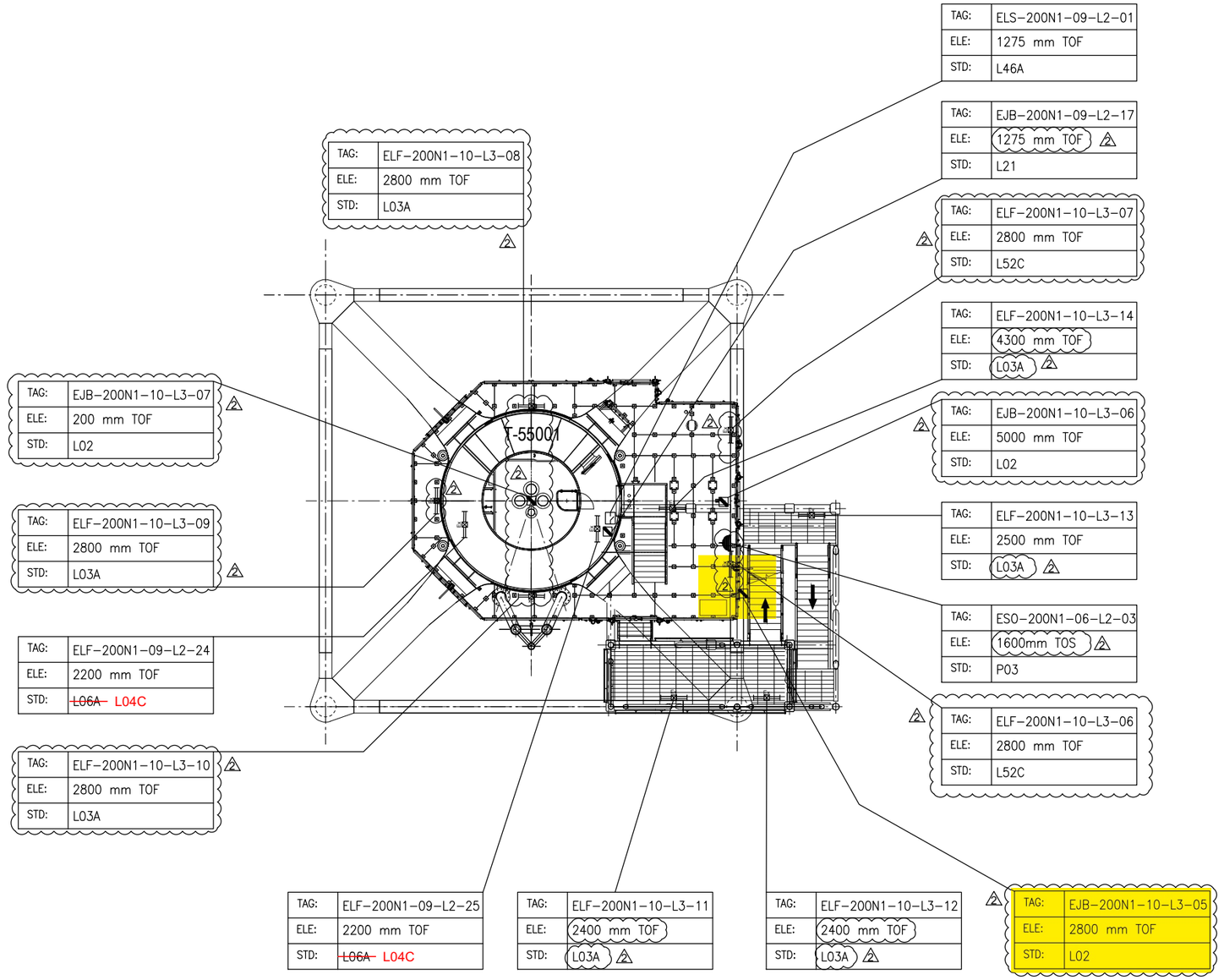
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

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

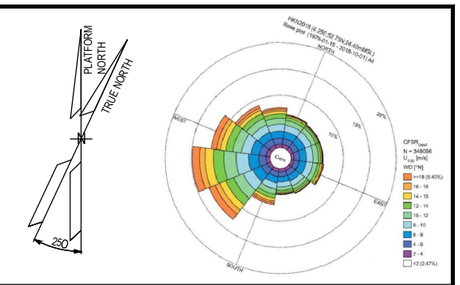
File Name : 123A90-DDL-EL-DL-20119

DRAWING NO. 123A90-DDL-EL-DL-20120

REV. 02



PLAN ON EXISTING PLATFORM AT EL.+16.860 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S / T.O.F.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. ELEVATION OR STANDARD PRESENT IN THE MASK, WHERE JB AND FIXTURE ARE SHOWN, ARE RELATIVE TO THE ORDER OF THE TAGS, 1°ROW JB AND 2°ROW FIXTURE = ELEVATION JB / ELEVATION FIXTURE.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- SMALL POWER SOCKET WITH INTEGRATED JB
- LOCAL SWITCH IP66 TYPE

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

T.O.S TOP OF STEEL
T.O.F TOP OF FOOTING (Walkway plan)

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20120**

REV.:	DATE:	SIGNATURE:
2_B	27/01/25	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-EL-DL-20102	ELECTRICAL EQUIPMENT LAYOUT - TRANSITION PIECE
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-PP-DL-70070	BASE LOAD POWER HUB (BLPH) - PLOT PLAN - LOWER AND UPPER DECK
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
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	04/06/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

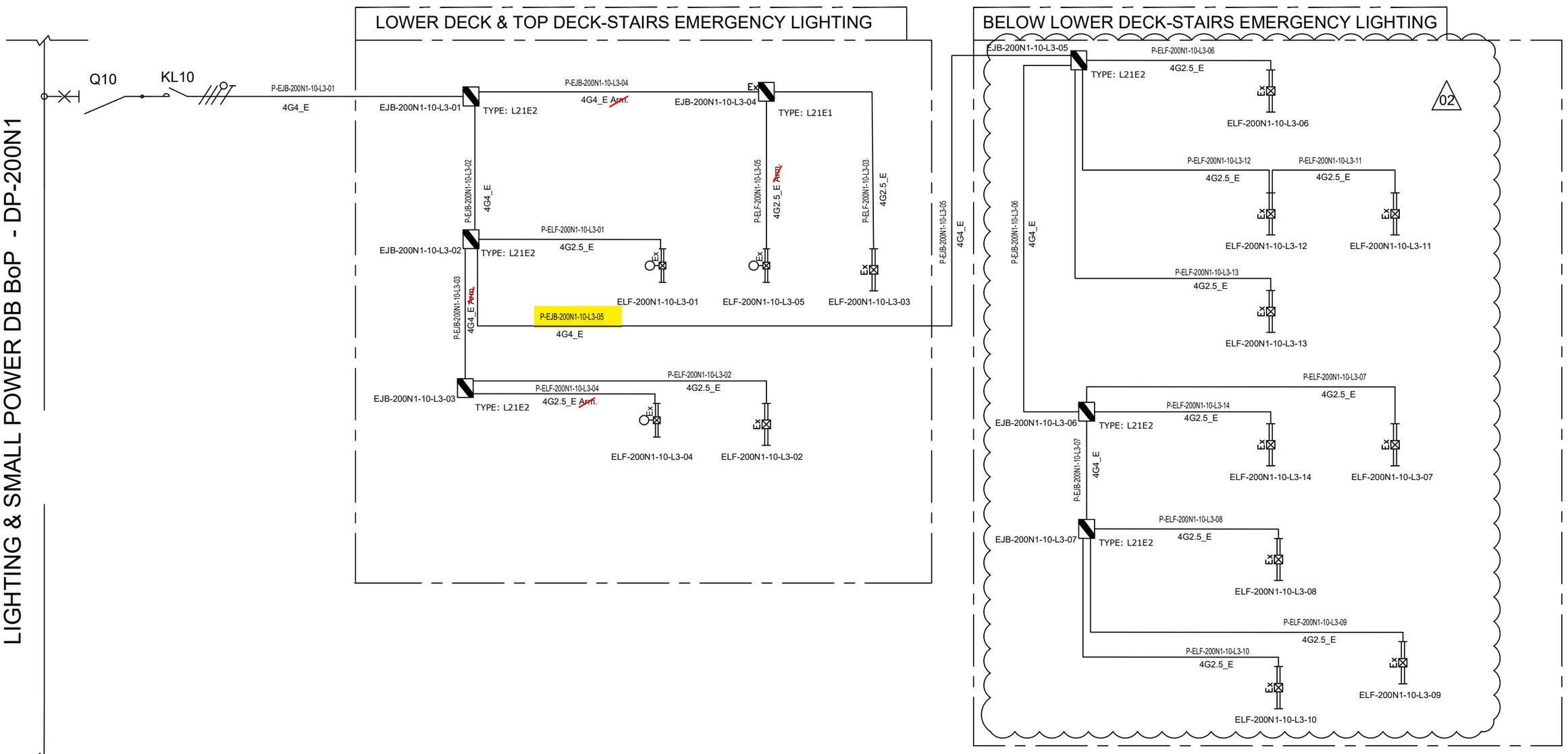
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – BELOW LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:100
DRAWN AMA	CHECKED CGI	APPROVED DLO	DATE 07/10/24

A1	DRAWING NO. 123A90-DDL-EL-DL-20120	SHEET 001	REV. 02

File Name : 123A90-DDL-EL-DL-20120

LIGHTING & SMALL POWER DB BoP - DP-200N1



NOTE:	
ELF-200N1-10-L3-01	LOWER DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-02	
ELF-200N1-10-L3-03	
ELF-200N1-10-L3-04	TOP DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-05	

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

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

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
		ELF-200N1-10-L3-09			
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
STAIRS EMERGENCY LIGHTING (LOWER DECK,TOP DECK AND BELOW LOWER DECK)

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

SCALE : NTS

A3

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

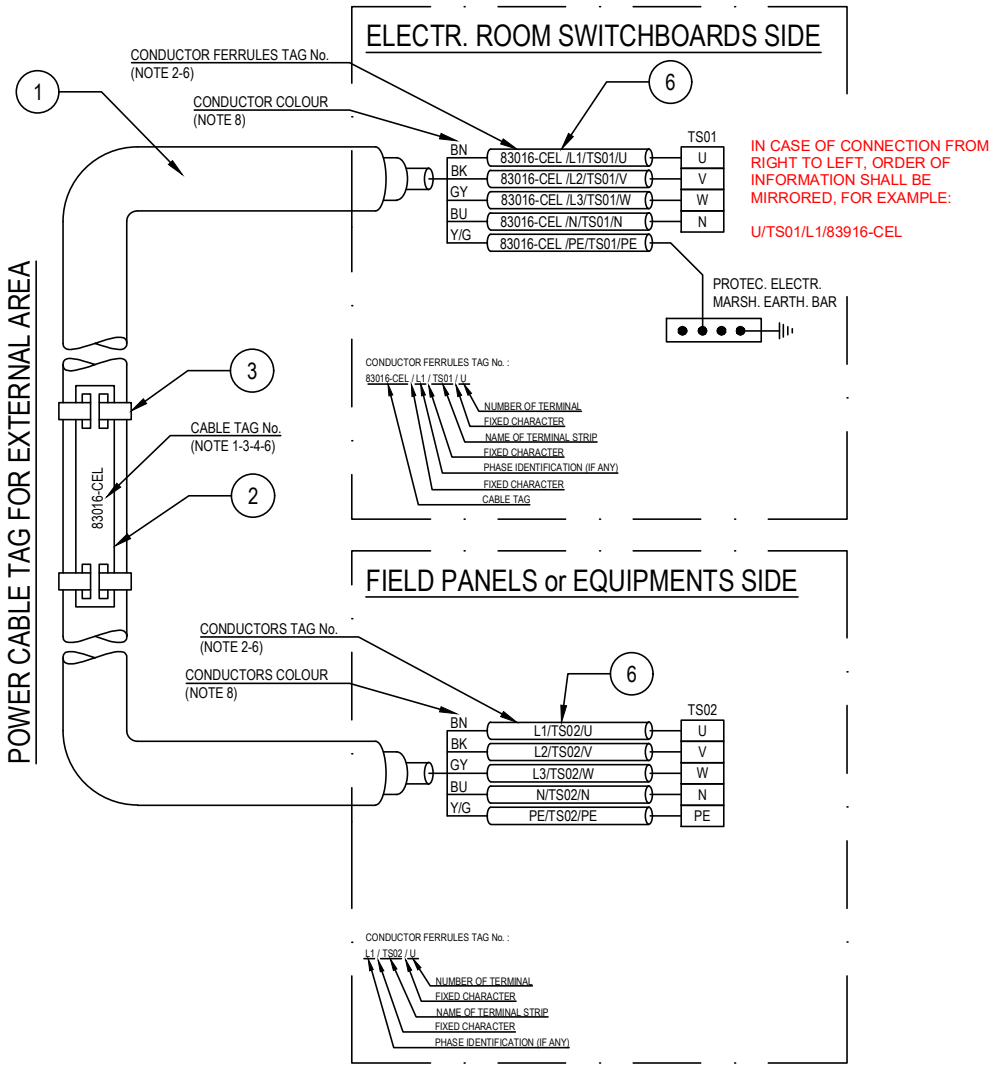
SHEET 007

REV. 02

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

F.to UNI A3: 420mmx297mm

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

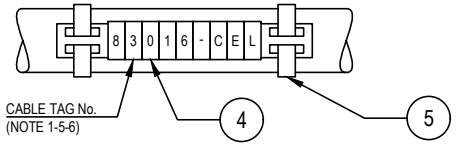
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

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

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

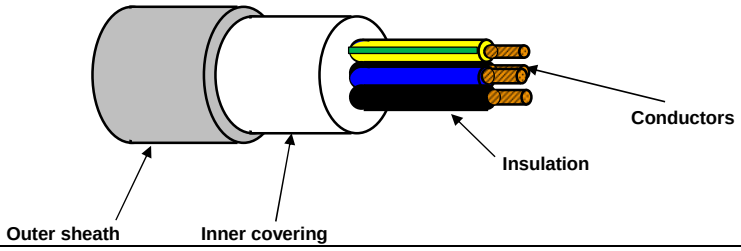
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-EJB-200N1-10-L3-05	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-10-L3-02	Emergency Lighting JB	Lower Deck Stairs		EJB-200N1-10-L3-05	Emergency Lighting JB	Below Lower Deck Stairs		ELECV11-4G4_E	Cable Cu Cl.2/EPR/LSZH 0,6/1kV 4G4mm²_E - Grey	M25	T1_M25_Single			T1_M25_Single	M20	ADAP_M20Mx M25F		L-50-101-LVT-142 / L-300-101-LVT-080 / L-150-100-LVT-008 / L-150-100-LVT-007

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G4_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G4 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(15,5 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

All proprietary rights reserved according to law. This document shall be not reproduced without written permission. FLEI reserves the right to change characteristics and technical data of product shown at any time.

ITEM	Tag	P-ELF-200N1-10-L3-07	: Stair Emergency Lighting JB / Stair Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	TP
TASK	code	C10000831		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type: Cu Cl.2/EPR/LSZH | Cores/Size mm²: 4G2,5_E mm2 | Color: GREY

From: EJB-200N1-10-L3-06 | To: ELF-200N1-10-L3-07

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	OK
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	OK
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ITEM	Tag	P-ELF-200N1-10-L3-07	: Stair Emergency Lighting JB / Stair Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	TP
TASK	code	C10000831		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,3	
6		PH 2	0,3	
7		PH 3	0,3	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,3	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

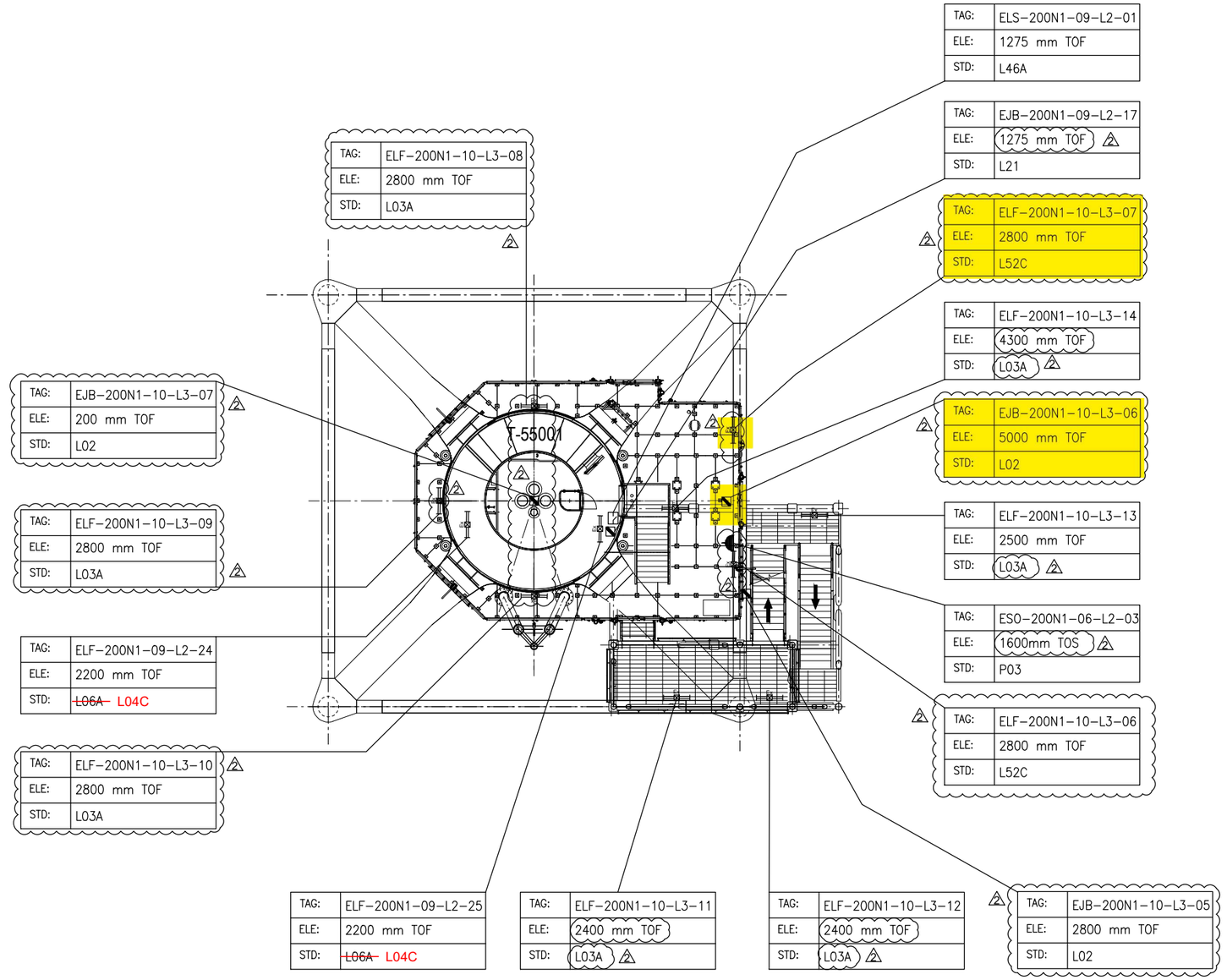
TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	VOLCRAFT 1000V - ET-200 S/N:H240103023	TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207
Calibration certificate N° and date:	N°LAT 042 00768/24 _ 12/10/2024	Calibration certificate N° and date:	N°7722/24 _ 10/07/2024

Comments:

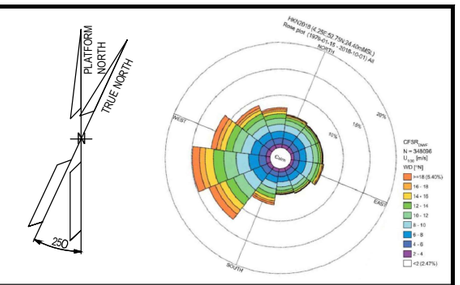
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	VIP	RM(ROSETTI MARINO)	
Name	Madhankumar Arunagiri	Giovanni Tangianu	
Date	2025-04-18	2025-04-30	
Signature	PROVERLIS Digitaly signed by Madhankumar Arunagiri 2025-04-18T05:59:57.699Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2025-04-30T08:55:16.811Z	

DRAWING NO. 123A90-DDL-EL-DL-20120

REV. 02



PLAN ON EXISTING PLATFORM AT EL.+16.860 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S / T.O.F.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. ELEVATION OR STANDARD PRESENT IN THE MASK, WHERE JB AND FIXTURE ARE SHOWN, ARE RELATIVE TO THE ORDER OF THE TAGS, 1°ROW JB AND 2°ROW FIXTURE = ELEVATION JB / ELEVATION FIXTURE.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- SMALL POWER SOCKET WITH INTEGRATED JB
- LOCAL SWITCH IP66 TYPE

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

T.O.S TOP OF STEEL
T.O.F TOP OF FOOTING (Walkway plan)

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20120**

REV.:	DATE:	SIGNATURE:
2_B	27/01/25	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-EL-DL-20102	ELECTRICAL EQUIPMENT LAYOUT - TRANSITION PIECE
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-PP-DL-70070	BASE LOAD POWER HUB (BLPH) - PLOT PLAN - LOWER AND UPPER DECK
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
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	04/06/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

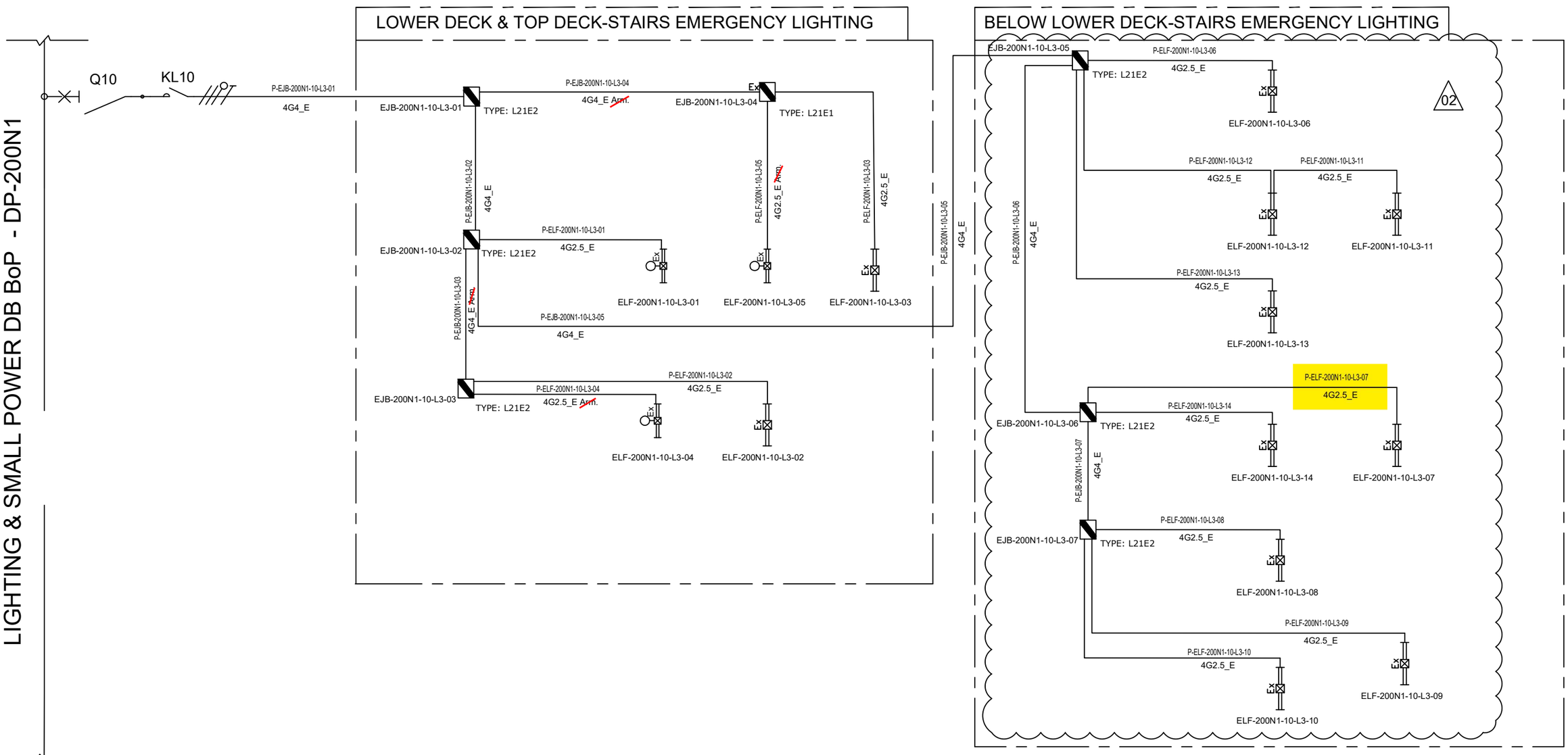
ROSETTI MARINO

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

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:100
DRAWN AMA	CHECKED CGI	APPROVED DLO	DATE 07/10/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20120	SHEET 001	REV. 02

File Name : 123A90-DDL-EL-DL-20120

LIGHTING & SMALL POWER DB BoP - DP-200N1



NOTE:	
ELF-200N1-10-L3-01	LOWER DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-02	
ELF-200N1-10-L3-03	
ELF-200N1-10-L3-04	TOP DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-05	

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

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

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
		ELF-200N1-10-L3-09			
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
STAIRS EMERGENCY LIGHTING (LOWER DECK,TOP DECK AND BELOW LOWER DECK)

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

SCALE : NTS

A3

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

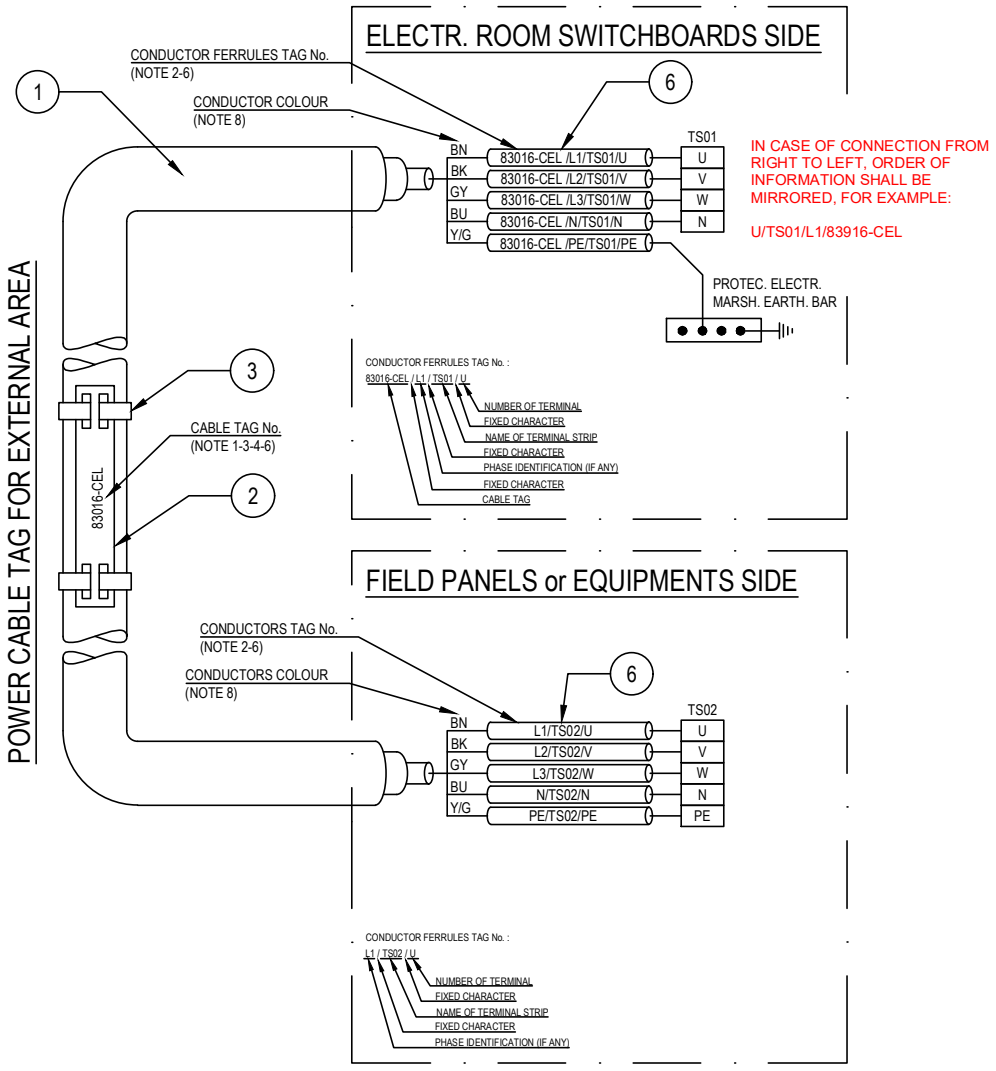
SHEET 007

REV. 02

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

F.to UNI A3: 420mmx297mm

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
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5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

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1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
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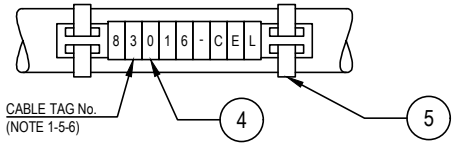
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- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

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

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

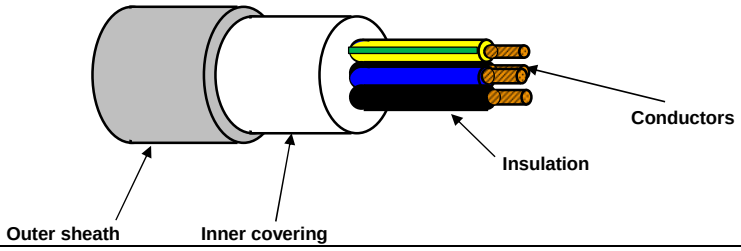
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-10-L3-07	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-10-L3-06	Emergency Lighting JB	Below Lower Deck Stairs		ELF-200N1-10-L3-07	Emergency Lighting Fixture	Below Lower Deck Stairs		ELECV12-4G2.5_E	Cable Cu Cl.2/EPR/LSZH 0.6/1kV 4G2.5mm²_E - Grey	M25	T1_M25_Single			T1_M25_Single	M20	ADAP_M20Mx M25F		L-50-100-LVT-011

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G2,5_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G2,5 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(14,0 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-EJB-200N1-10-L3-06	: Stair Emergency Lighting JB / Stair Emergency Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	TP
TASK	code	C10000832		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 4G4_E mm2 Color GREY

From EJB-200N1-10-L3-05 To EJB-200N1-10-L3-06

1	Confirm cable is as specified in project cable schedule	Note
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	OK
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	OK
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	P-EJB-200N1-10-L3-06	: Stair Emergency Lighting JB / Stair Emergency Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	TP
TASK	code	C10000832		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,2	
6		PH 2	0,2	
7		PH 3	0,2	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,2	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	VOLCRAFT 1000V - ET-200 S/N:H240103023
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°LAT 042 00768/24 _ 12/10/2024

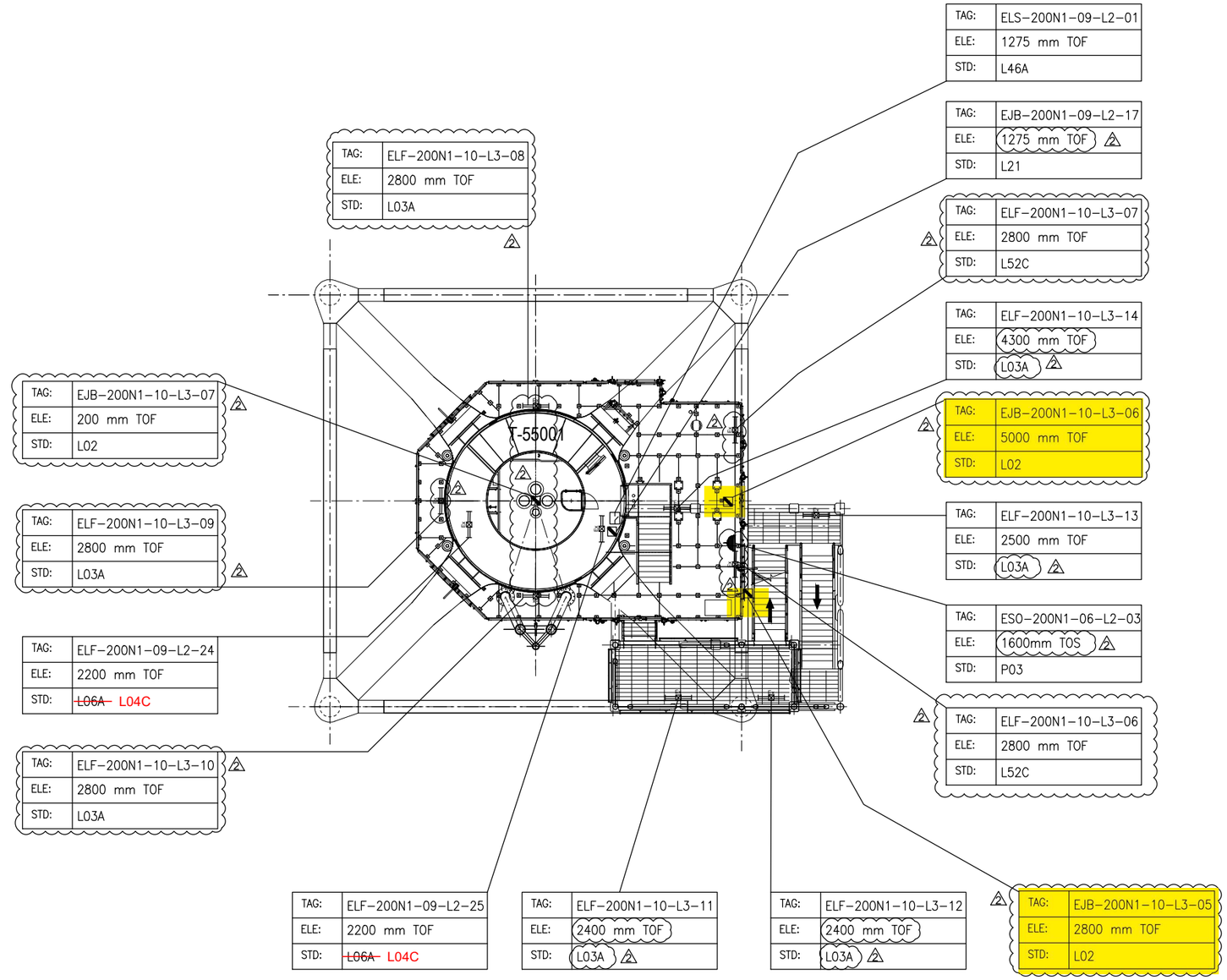
Comments: Note: THE WIRING AND TYPE OF CABLE MUST BE UPDATE. (FIELD INSTALLED 5g4_E).

CORE CONTINUITY : PH 4= 0.2

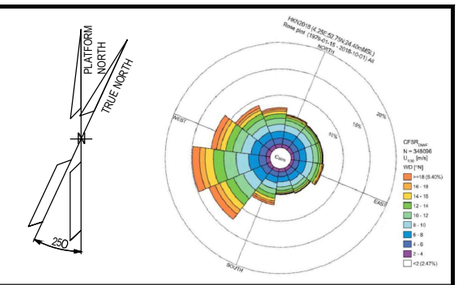
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	VIP	RM(ROSETTI MARINO)	
Name	Madhankumar Arunagiri	Giovanni Tangianu	
Date	2025-04-18	2025-04-29	
Signature	PROVERLIS Digitaly signed by Madhankumar Arunagiri 2025-04-18T06:00:28.505Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2025-04-29T12:12:13.511Z	

DRAWING NO. 123A90-DDL-EL-DL-20120

REV. 02



PLAN ON EXISTING PLATFORM AT EL.+16.860 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S / T.O.F.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. ELEVATION OR STANDARD PRESENT IN THE MASK, WHERE JB AND FIXTURE ARE SHOWN, ARE RELATIVE TO THE ORDER OF THE TAGS, 1°ROW JB AND 2°ROW FIXTURE = ELEVATION JB / ELEVATION FIXTURE.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- SMALL POWER SOCKET WITH INTEGRATED JB
- LOCAL SWITCH IP66 TYPE

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

T.O.S TOP OF STEEL
T.O.F TOP OF FOOTING (Walkway plan)

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20120**

REV.:	DATE:	SIGNATURE:
2_B	27/01/25	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-EL-DL-20102	ELECTRICAL EQUIPMENT LAYOUT - TRANSITION PIECE
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-PP-DL-70070	BASE LOAD POWER HUB (BLPH) - PLOT PLAN - LOWER AND UPPER DECK
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
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	04/06/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

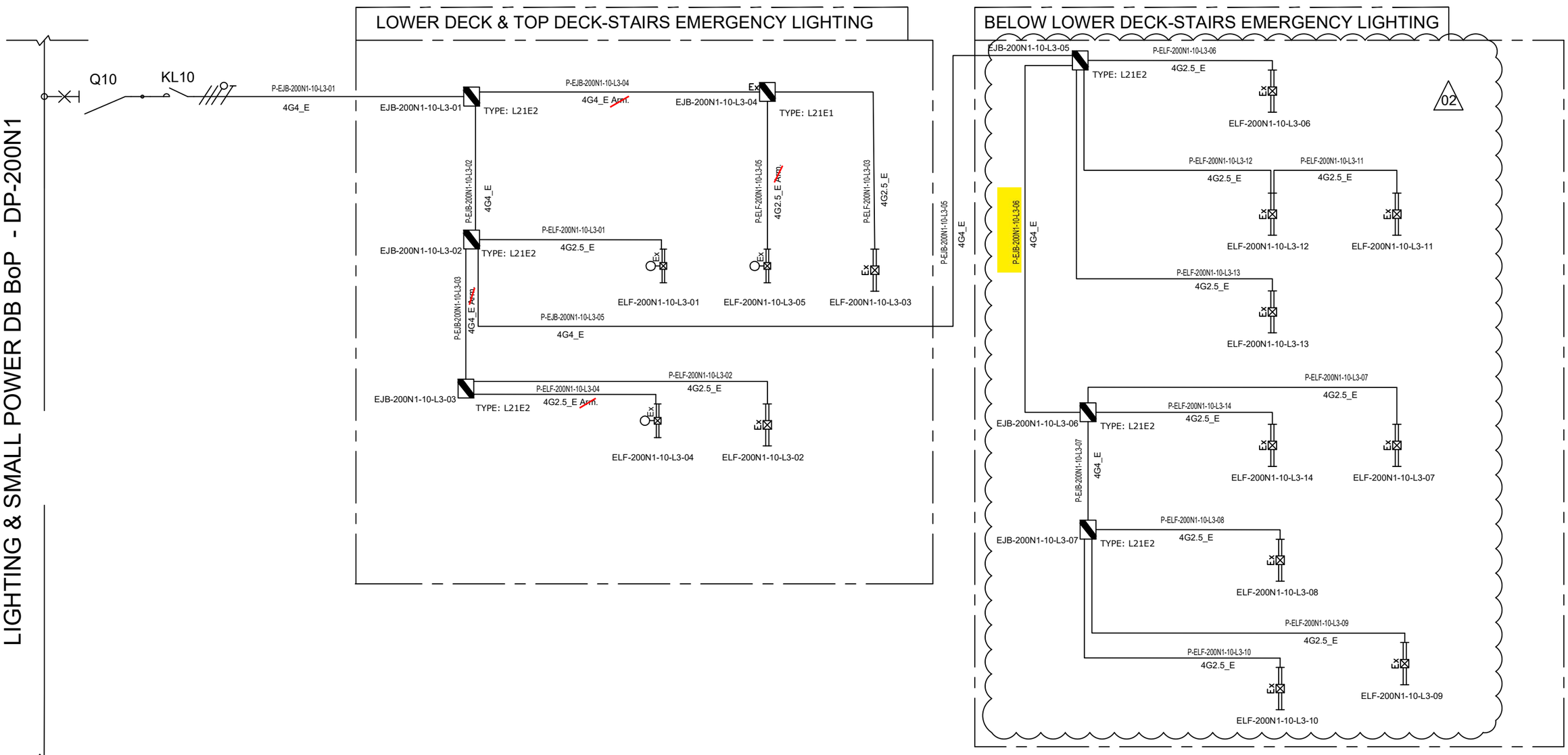
ROSETTI MARINO

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

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:100
DRAWN AMA	CHECKED CGI	APPROVED DLO	DATE 07/10/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20120	SHEET 001	REV. 02

File Name : 123A90-DDL-EL-DL-20120

LIGHTING & SMALL POWER DB BoP - DP-200N1



NOTE:	
ELF-200N1-10-L3-01	LOWER DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-02	
ELF-200N1-10-L3-03	
ELF-200N1-10-L3-04	TOP DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-05	

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

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

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
		ELF-200N1-10-L3-09			
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
STAIRS EMERGENCY LIGHTING (LOWER DECK,TOP DECK AND BELOW LOWER DECK)

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

SCALE : NTS

A3

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

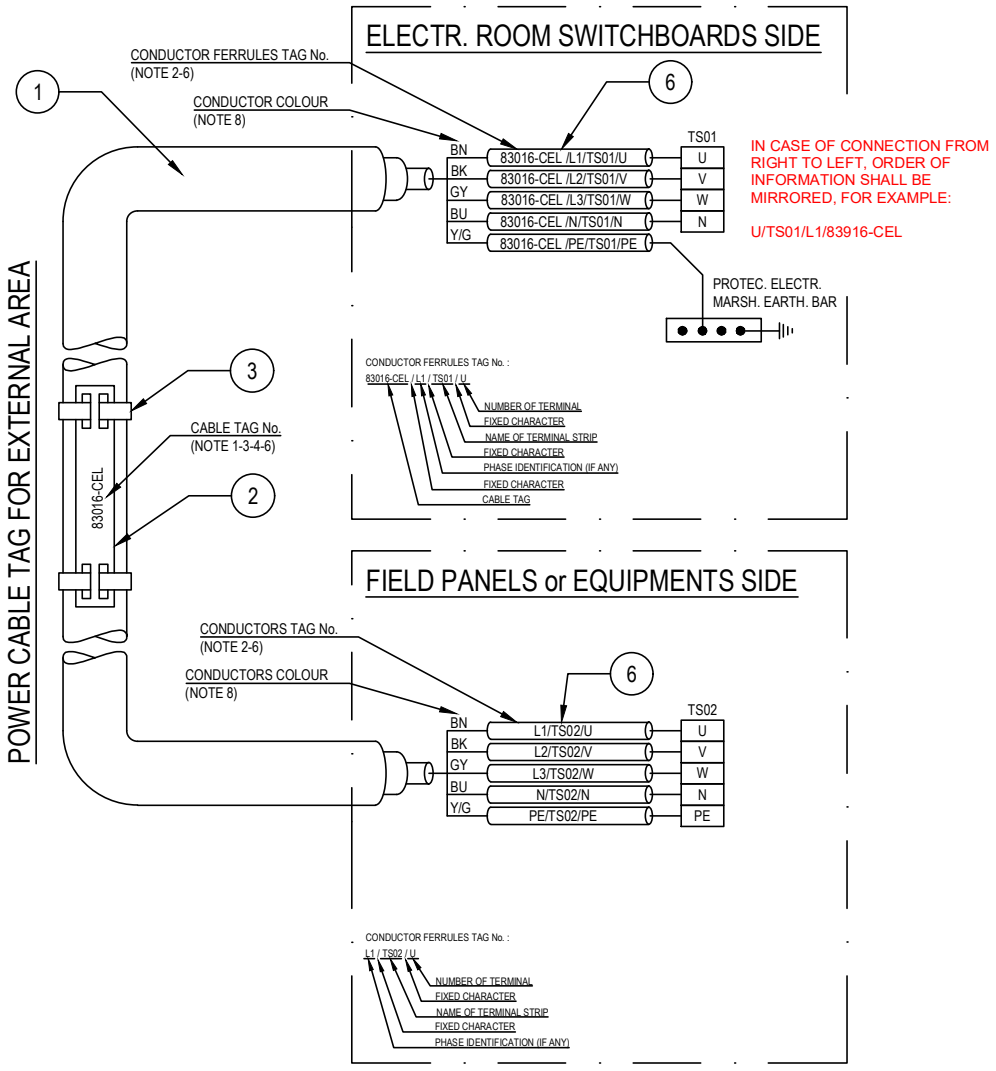
SHEET 007

REV. 02

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

F.to UNI A3: 420mmx297mm

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

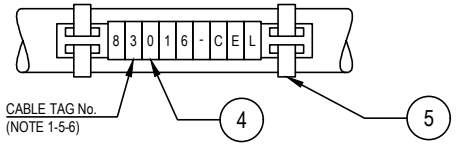
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

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

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

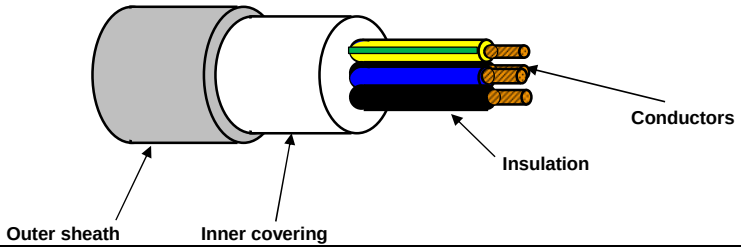
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-EJB-200N1-10-L3-06	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-10-L3-05	Emergency Lighting JB	Below Lower Deck Stairs		EJB-200N1-10-L3-06	Emergency Lighting JB	Below Lower Deck Stairs		ELECV11-4G4_E	Cable Cu Cl.2/EPR/LSZH 0,6/1kV 4G4mm²_E - Grey	M25	T1_M25_Single			T1_M25_Single				L-150-100-LVT-007 / L-150-100-LVT-018 / L-S0-100-LVT-020

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G4_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G4 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(15,5 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-ELF-200N1-10-L3-08	: Stair Emergency Lighting JB / Stair Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	TP
TASK	code	C10000833		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type: Cu Cl.2/EPR/LSZH | Cores/Size mm²: 4G2,5_E mm2 | Color: BLACK

From: EJB-200N1-10-L3-07 | To: ELF-200N1-10-L3-08

1	Confirm cable is as specified in project cable schedule	PL
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	OK
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	OK
8	Confirm cable labelling is in accordance with specifications.	OK
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	●

REFER TO FINAL SHEET FOR ACCEPTANCE

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-ELF-200N1-10-L3-08	: Stair Emergency Lighting JB / Stair Emergency Lighting Fixture		Dwg	123A90-DDL-EL-LIS-20148	
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece		Module	TP	
TASK	code	C10000833	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline Electrical	Form	CPX09	LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,2	
6		PH 2	0,2	
7		PH 3	0,2	
8	ARMOUR CONTINUITY Ω		0,2	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,2	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>1999	
11		PH2 / PH1-PH3-A-E	>1999	
12		PH3 / PH1-PH2-A-E	>1999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

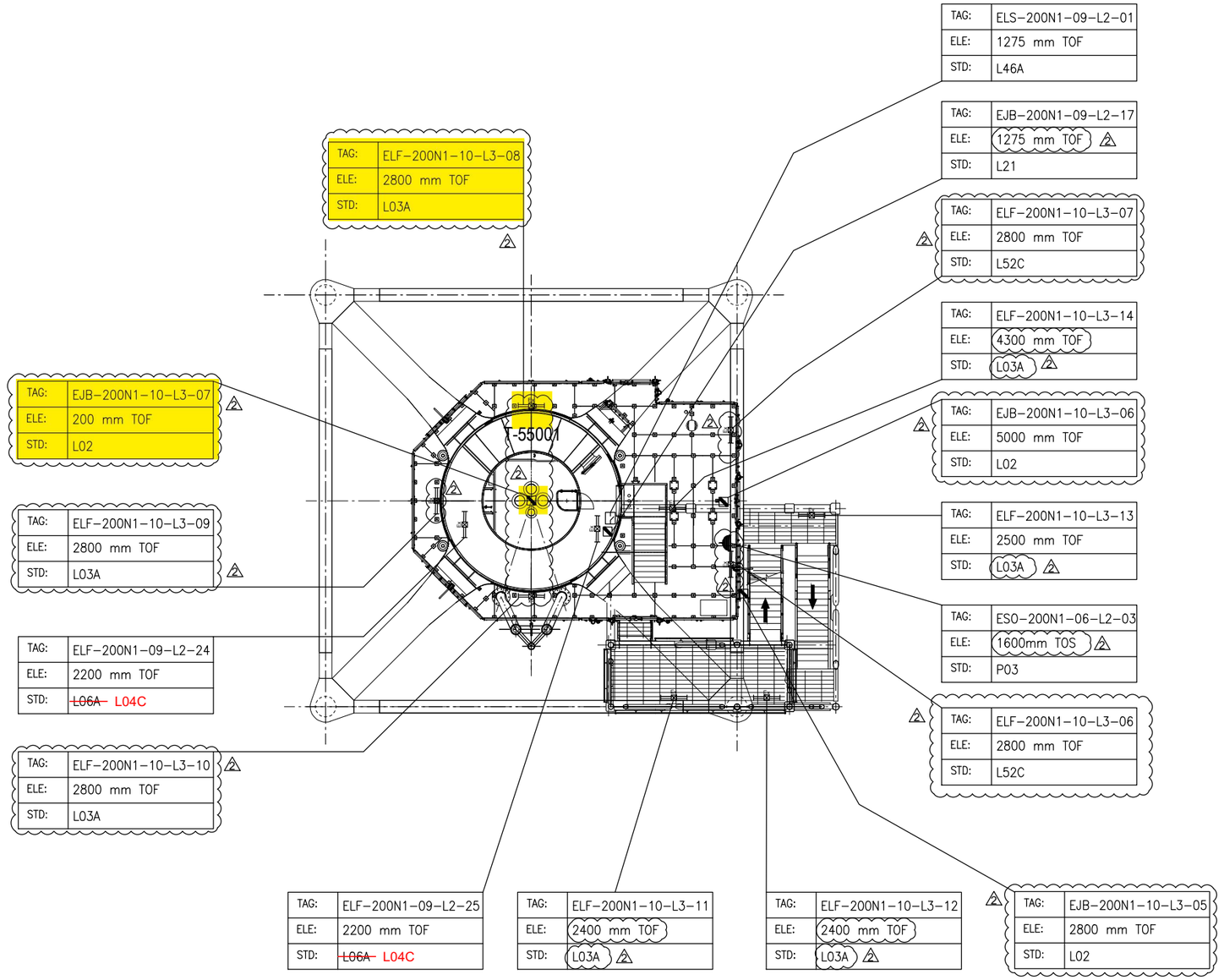
TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	VOLCRAFT 1000V - ET-200 S/N:H240103023	TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207
Calibration certificate N° and date:	N°LAT 042 00768/24 _ 12/10/2024	Calibration certificate N° and date:	N°7722/24 _ 10/07/2024

Comments:

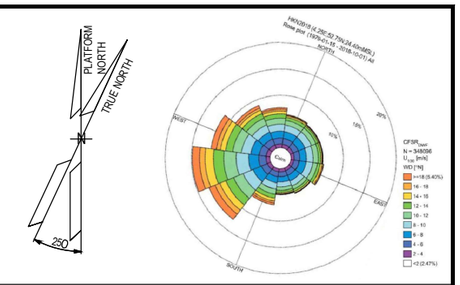
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	VIP	RM(ROSETTI MARINO)	
Name	Madhankumar Arunagiri	Giovanni Tangianu	
Date	2025-04-18	2025-05-05	
Signature	PROVERLIS Digitaly signed by Madhankumar Arunagiri 2025-04-18T06:01:01.320Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2025-05-05T11:17:41.916Z	

DRAWING NO. 123A90-DDL-EL-DL-20120

REV. 02



PLAN ON EXISTING PLATFORM AT EL.+16.860 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S / T.O.F.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. ELEVATION OR STANDARD PRESENT IN THE MASK, WHERE JB AND FIXTURE ARE SHOWN, ARE RELATIVE TO THE ORDER OF THE TAGS, 1°ROW JB AND 2°ROW FIXTURE = ELEVATION JB / ELEVATION FIXTURE.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- SMALL POWER SOCKET WITH INTEGRATED JB
- LOCAL SWITCH IP66 TYPE

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

T.O.S TOP OF STEEL
T.O.F TOP OF FOOTING (Walkway plan)

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20120**

REV.:	DATE:	SIGNATURE:
2_B	27/01/25	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-EL-DL-20102	ELECTRICAL EQUIPMENT LAYOUT - TRANSITION PIECE
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-PP-DL-70070	BASE LOAD POWER HUB (BLPH) - PLOT PLAN - LOWER AND UPPER DECK
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
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	04/06/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

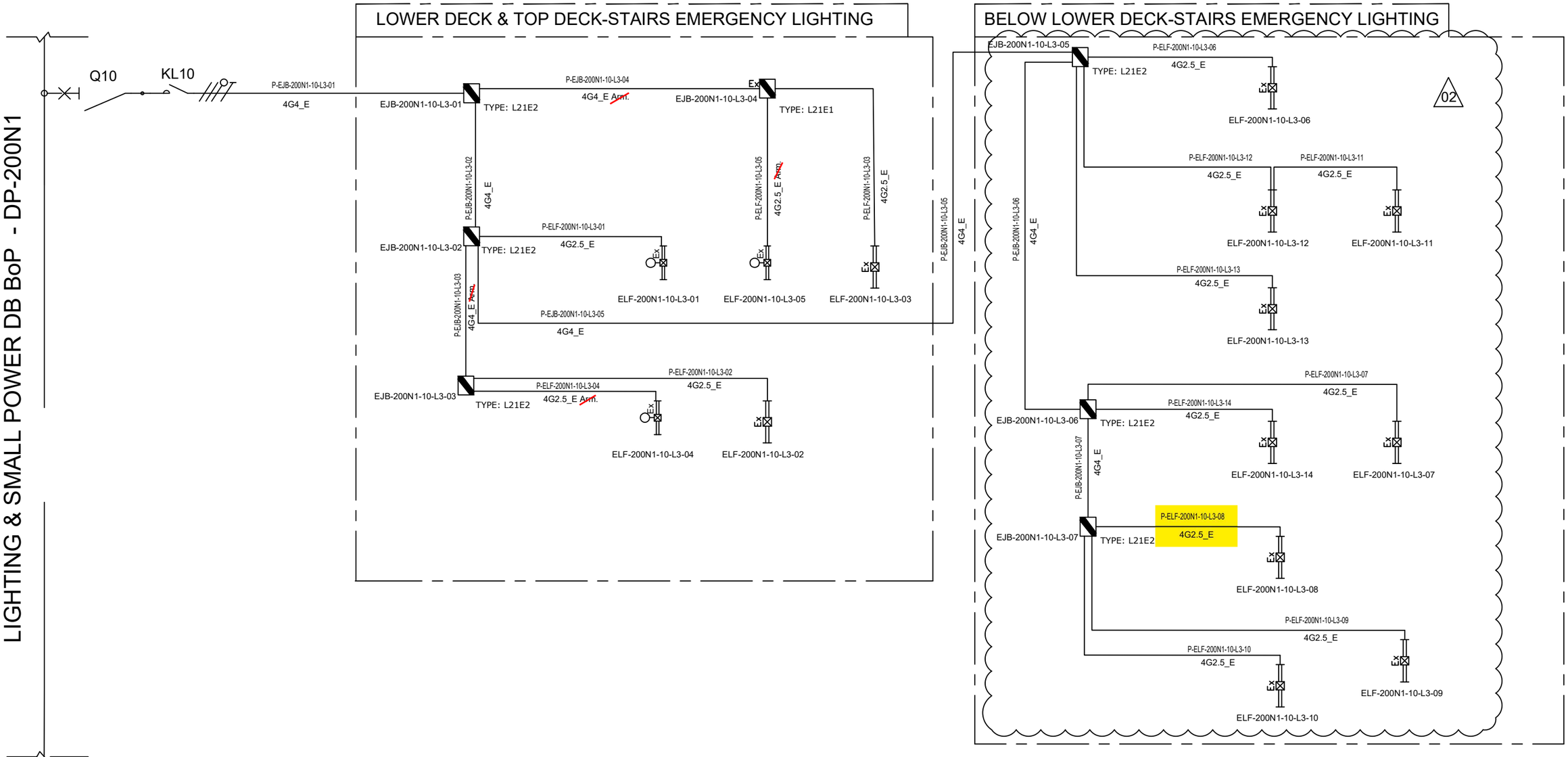
ROSETTI MARINO

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

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:100
DRAWN AMA	CHECKED CGI	APPROVED DLO	DATE 07/10/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20120	SHEET 001	REV. 02

File Name : 123A90-DDL-EL-DL-20120

LIGHTING & SMALL POWER DB BoP - DP-200N1



NOTE:	
ELF-200N1-10-L3-01	LOWER DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-02	
ELF-200N1-10-L3-03	
ELF-200N1-10-L3-04	TOP DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-05	

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

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

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
			ELF-200N1-10-L3-09		
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
STAIRS EMERGENCY LIGHTING (LOWER DECK,TOP DECK AND BELOW LOWER DECK)

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

SCALE : NTS

A3

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

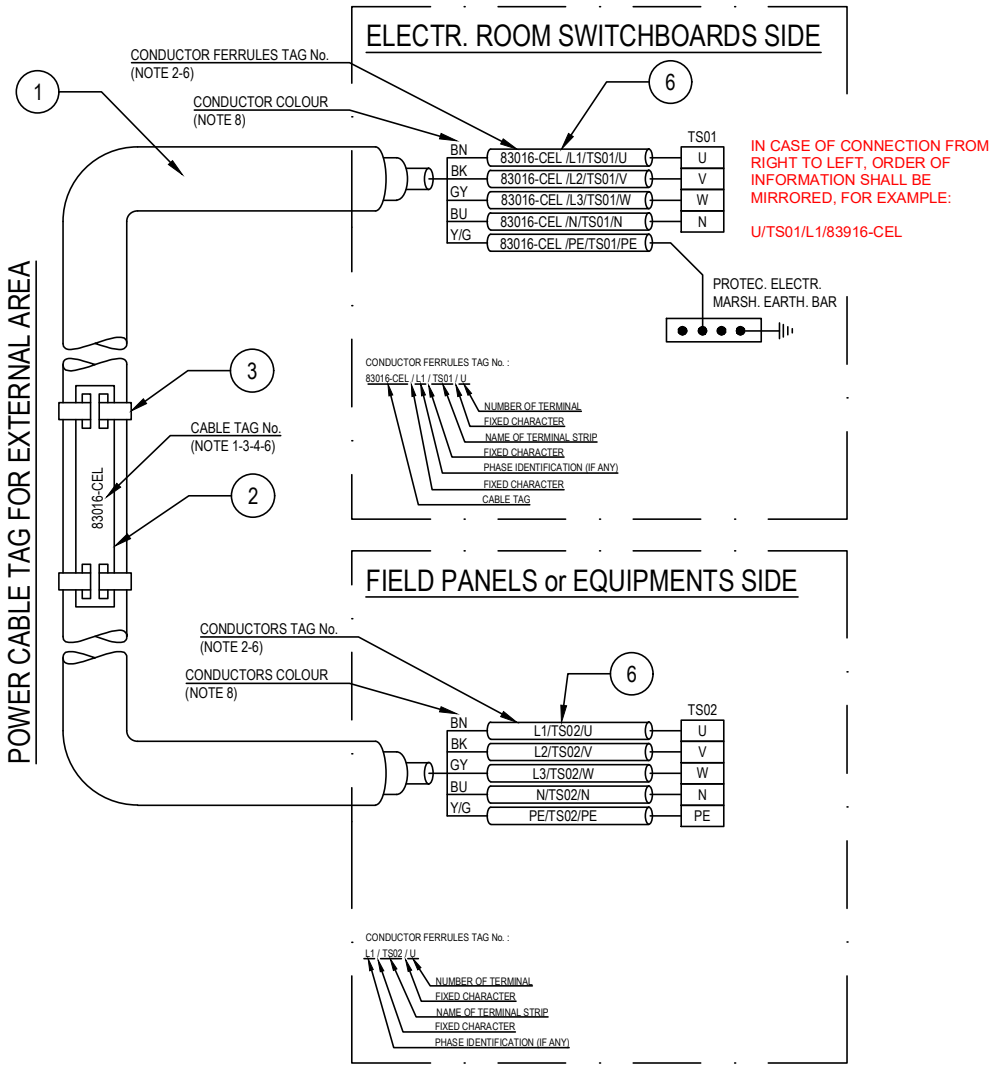
SHEET 007

REV. 02

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

F.to UNI A3: 420mmx297mm

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

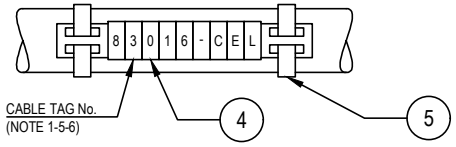
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

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

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

F.to UNI A3: 420mmx297mm

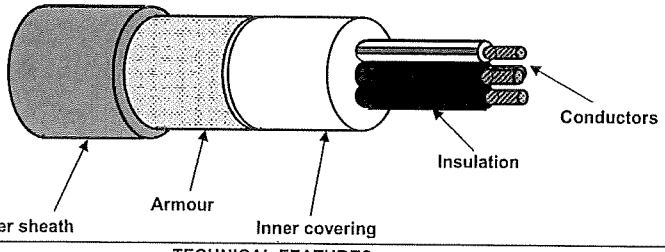
File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-10-L3-08	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-10-L3-07	Emergency Lighting JB	Below Lower Deck Stairs		ELF-200N1-10-L3-08	Emergency Lighting Fixture	Below Lower Deck Stairs		ELECV12-4G2.5_E	Cable Cu Cl.2/EPR/LSZH 0.6/1kV 4G2.5mm²_E - Grey	M25	T1_M25_Single			T1_M25_Single	M20	ADAP_M20Mx M25F		L-50-100-LVT-012

FLEI s.r.l.

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G2,5_E - L.V. POWER CABLE - Flame Retardant - Armoured



TECHNICAL FEATURES

Conductors :	STRANDED plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	XLPE compound, quality to IEC 60092.360, Nominal Thickness 0,7 mm
Cores colour code :	Black - Brown - Grey - Yellow/Green
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	Black or Natural
Armour :	Galvanized Steel Wire Braid Armour (coverage ≥ 90%)
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type SHF1 to IEC 60092.360, Average Thickness 1,2 mm
Outer sheath color code:	Black
Outer printing (INKJET) :	FLEI - 4G2,5 SQMM - XLPE/LSZH/EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.24 - Year of Manufacture - CE + Meter Marking
Under Armour diameter :	(12,8 ± 10%) mm
Over Armour diameter :	(14,0 ± 10%) mm
Outer diameter :	(16,8 ± 10%) mm
Bending radius :	cable outer diameter x 10 (In fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	IEC 60092.353
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.24
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Hazardous Areas :	IEC 60079.14:2013 par.9.3.2a
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	EJB-200N1-10-L3-01	: JB Emergency Lighting stairs			Dwg	123A90-DDL-EL-DL-20119
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	LD
TASK	code	C10001302		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX31 Junction and Marshalling Box

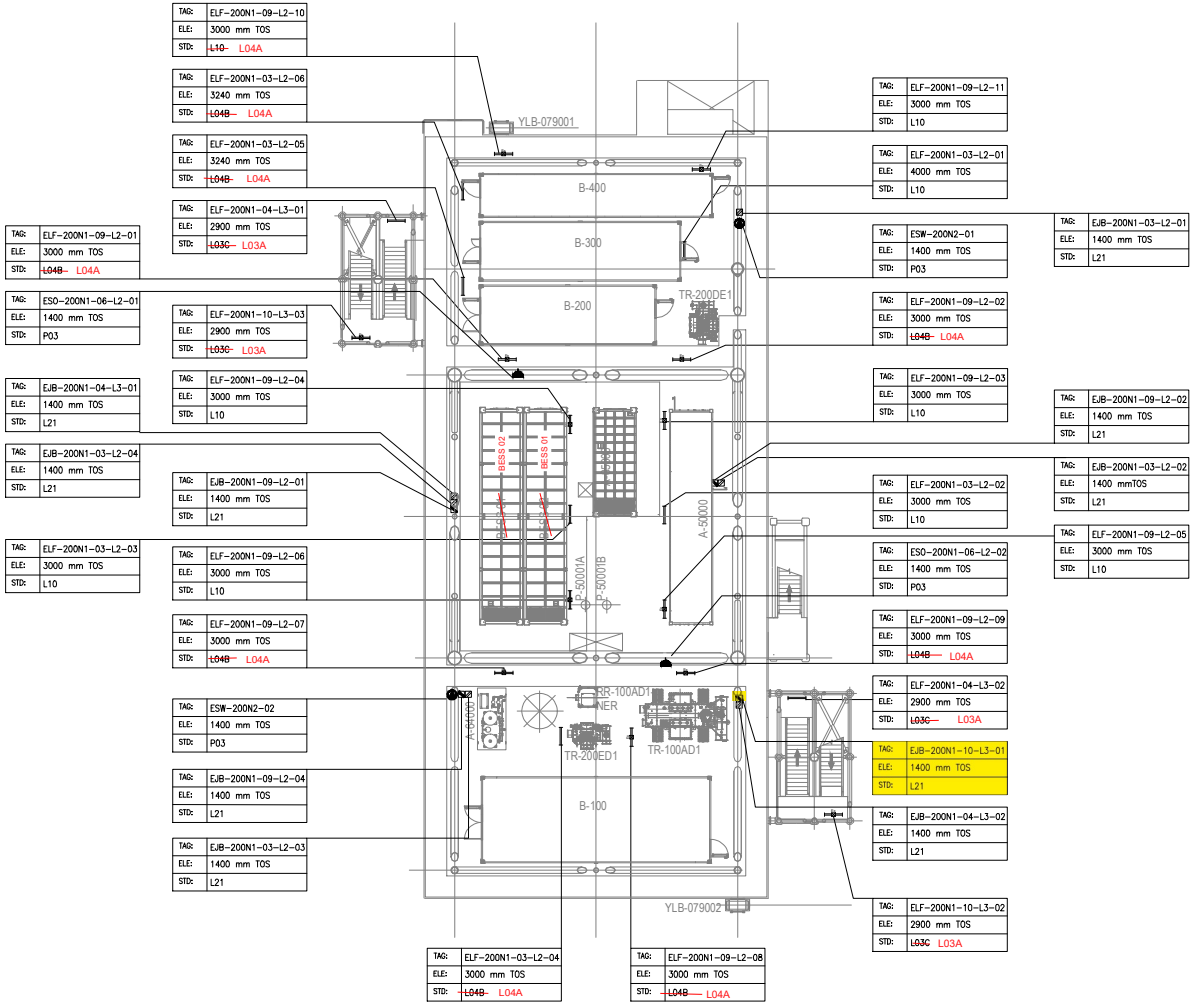
1	Check box is de-energized and safe.	OK
2	Check box is correctly mounted and easily accessible.	OK
3	Check box tagging against drawing.	OK
4	Check nameplate data is correct.	OK
5	Check flameproof joints are clean and greased with approved lubricants (if required).	NA
6	Check for damaging gaskets.	OK
7	Check all bolts are fitted and correcly tighted .	OK
8	Check all unused entries are suitably plugged.	OK
9	Check earthing and bonding against drawings.	OK
10	Check terminal blocks segregation barriers are fitted where necessary.	OK
11	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

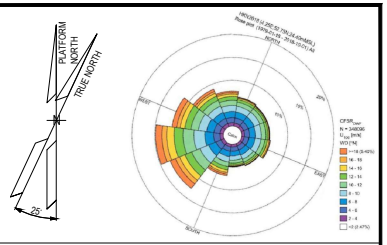
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Paolo Schintu	
Date	2025-01-28	2025-01-31	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-28T07:47:28.066Z	PROVERLIS Digitaly signed by Paolo Schintu 2025-01-31T12:25:54.309Z	

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

VALID FOR CONSTRUCTION

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

ROSETTI MARINO SpA

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)

CROSSWIND

ROSETTI MARINO

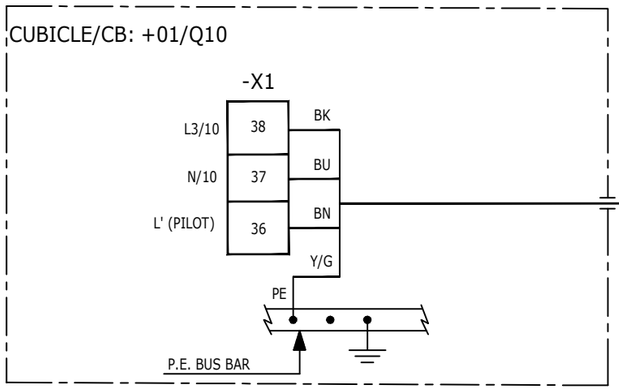
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

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

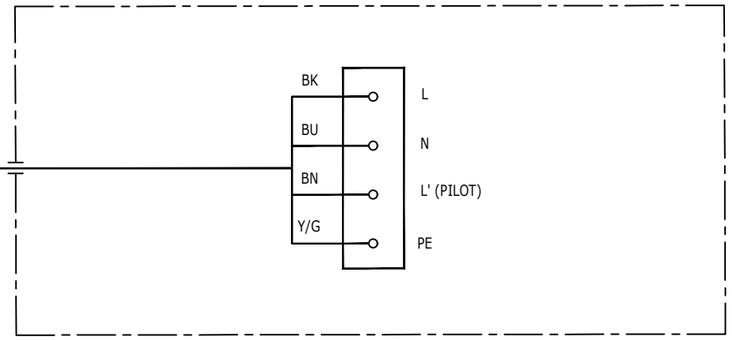
FROM	TO

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

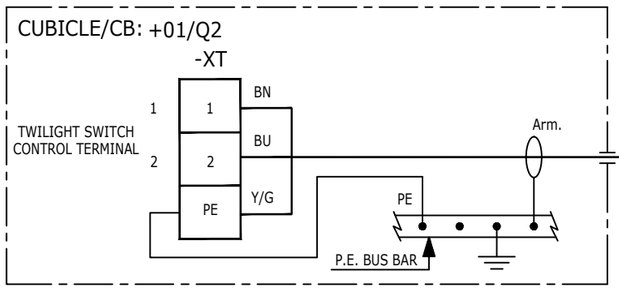


P-EJB-200N1-10-L3-01
4G4_E mm²

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

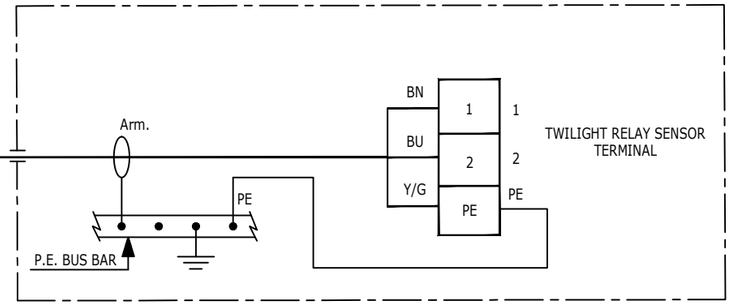


DESCRIPTION: LIGHTING & SMALL POWER DB BOP
TAG NUMBER: DP-200N1
CUBICLE/CB: +01/Q2

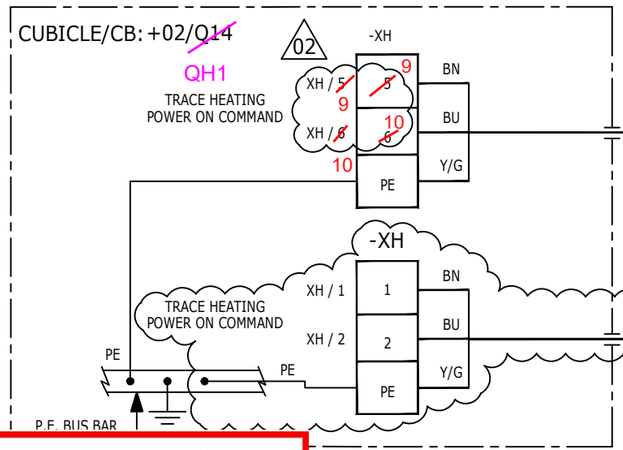


P-EPH-200N1-01
3G4 mm²

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



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

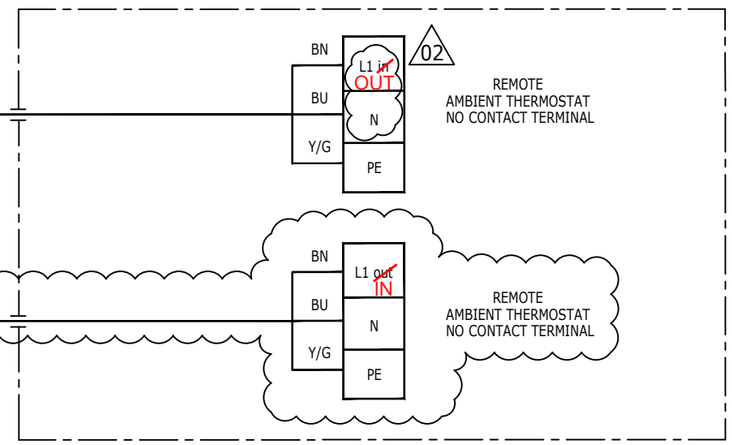


P-EAT-200N1-01
3G2.5 mm²

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_J	27/01/25	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

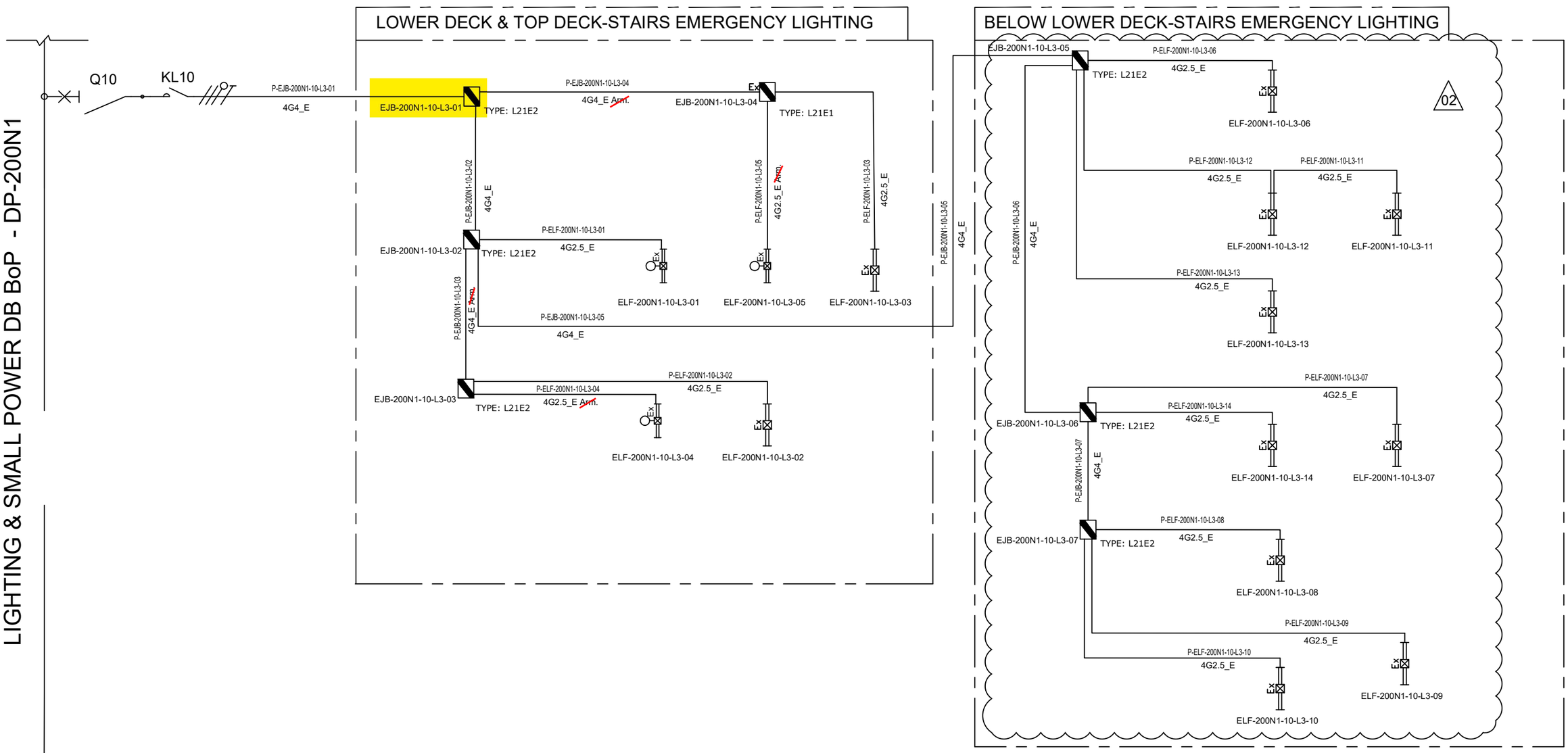
SCALE : 1:X

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

F.to UNI A3: 420mmx297mm

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

LIGHTING & SMALL POWER DB BoP - DP-200N1



NOTE:	
ELF-200N1-10-L3-01	LOWER DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-02	
ELF-200N1-10-L3-03	
ELF-200N1-10-L3-04	TOP DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-05	

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

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

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
		ELF-200N1-10-L3-09			
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
STAIRS EMERGENCY LIGHTING (LOWER DECK,TOP DECK AND BELOW LOWER DECK)

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

SCALE : NTS

A3

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

SHEET 007

REV. 02

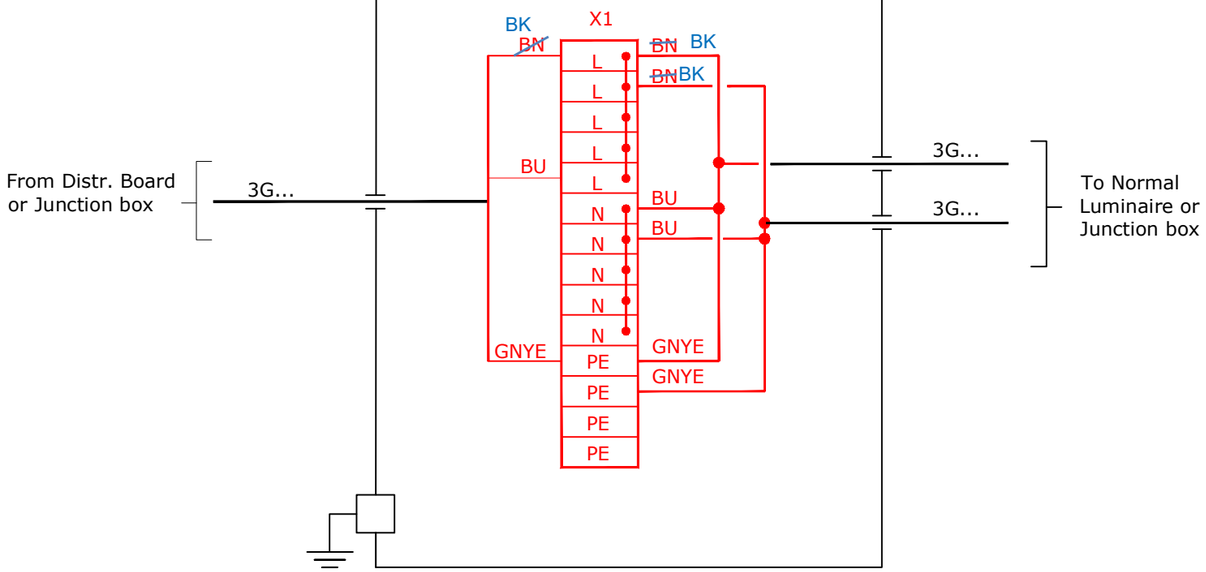
File Name : 123A90-DDL-EL-DG-20125

F.to UNI A3: 420mmx297mm

TYPE : L21N1 & L21N2

ITEM: NORMAL LIGHTING JUNCTION BOX

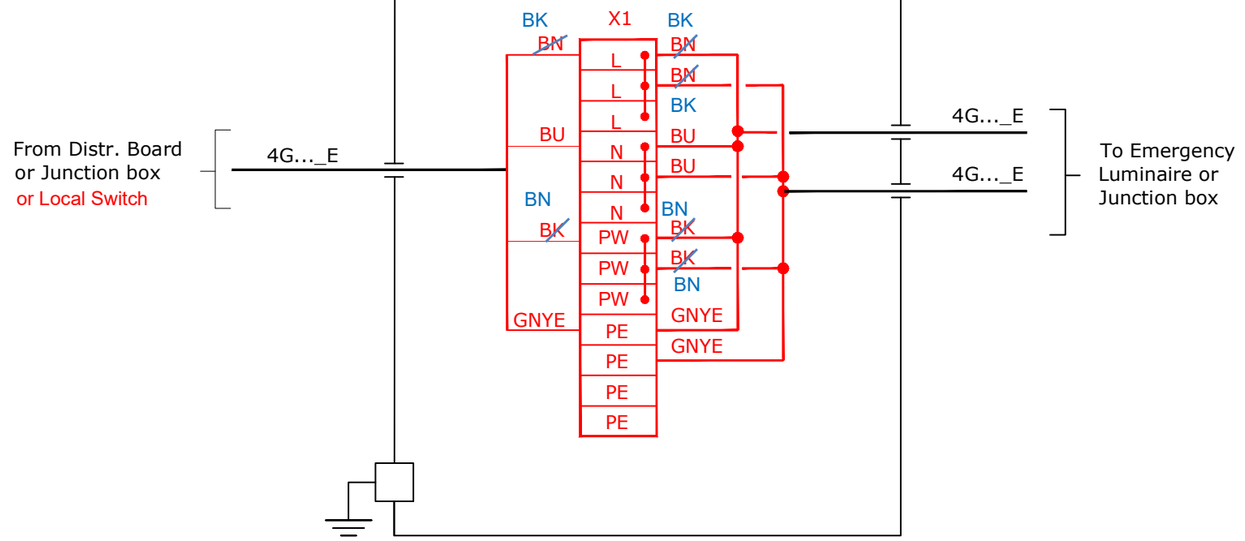
TAG : Typical



TYPE : L21E1 & L21E2

ITEM: EMERGENCY LIGHTING JUNCTION BOX

TAG : Typical



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)

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

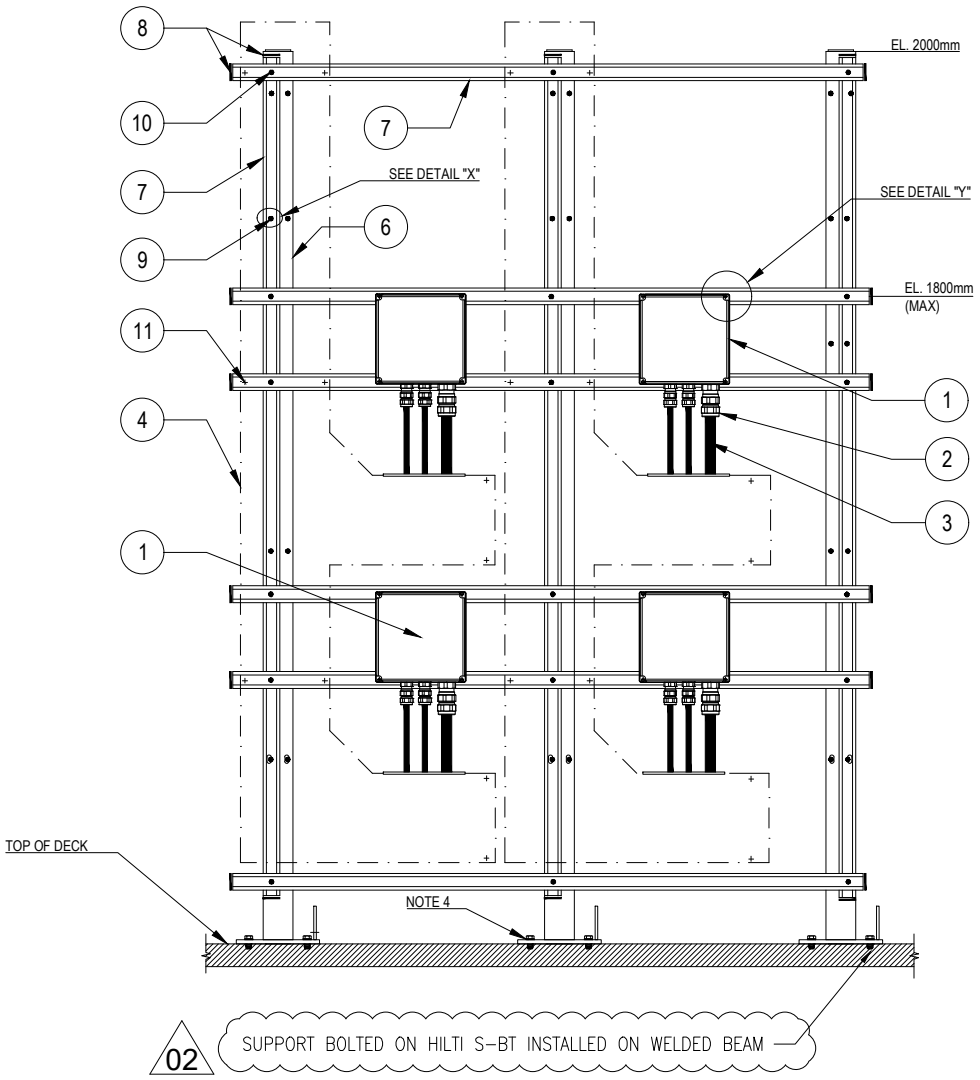
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

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

F.to UNI A3: 420mmx297mm

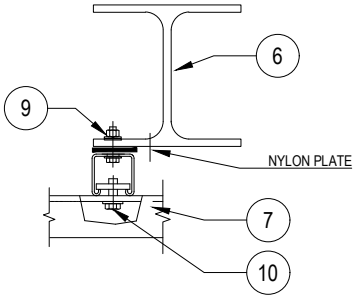
File Name : 123A90-DDL-EL-DG-20125

L21

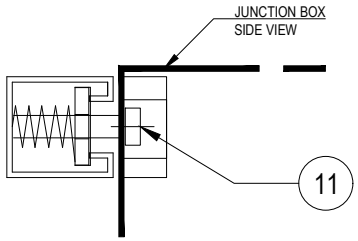


02

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	JUNCTION BOX (Ex)	GRP			
2	CABLE GLAND (Ex) FOR ARMOURED/UNARMOURED CABLE	NICK.PL.BRASS			NOTE 2
3	ARMOURED/UNARMOURED CABLE				
4	CABLE LADDER WITH COVER	AISI 316L			
6	PROFILE SUPPORT	PAINTED C.S			
7	SINGLE U-CHANNEL PERFORATED ON NO. 3 SIDE	AISI 316L	41x41x2		NOTE 1
8	PLUG FOR U-CHANNEL	LPDE			
9	HEXAGONAL BOLT M10X40 WITH LARGE PLANE WASHER, NYLON PLANE WASHER, PLANE WASHERS, GROWER SPRING WASHER AND NUT	AISI 316L	M10x40		
10	HEXAGONAL BOLT M12X30 COMPLETE WITH LARGE PLANE WASHER, PLANE WASHER AND NUT FOR U-CHANNEL WITH SPRING	AISI 316L	M12x30		
11	ALLEN KEY BOLT COMPLETE WITH PLANE WASHER, NUT FOR U-CHANNEL WITH SPRING	AISI 316L	M6x30		NOTE 3



DETAIL "X"



DETAIL "Y"

NOTES:

1) THE EXACT DIMENSIONS WILL BE DEFINED DURING ASSEMBLY PHASE.
2) CABLE GLAND COMPLETE WITH LOCKNUT, NYLON WASHER, SERRATED WASHER, EXTERNAL RUBBER RING AND EARTH TAG (IF NECESSARY).
3) FOR INSTRUMENT JUNCTION BOX USE HEXAGONAL BOLT M10X30 COMPLETE WITH PLANE WASHER, GROWER AND NUT FOR U-CHANNEL WITH SPRING
4) SUPPORT BOLTED ON HILTI S-BT INSTALLED ON THE DECK

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
JUNCTION BOXES MOUNTED RACK SUPPORT

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

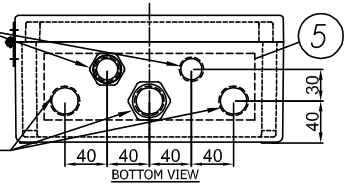
A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 005 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

(10)(4) N°2 PASSING HOLES Ø20.2
C/W N°1 BNK PLUG M20 +
N°1 DUSTPROOF PVC PLUG

(3)(3) N°3 PASSING HOLES Ø25.2
C/W N°1 BNK PLUG M25 +
N°2 DUSTPROOF PVC PLUG



(8) I2400722-B015I00029809

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC
Via Italia 33 - 20060 Gessate (MI) ITALY

CE 0080 II 2G II 2D
FIDI 21ATEX 0090X
IECEx FIDI 21.0015X
Year of construction:

MADE IN ITALY

TYPE: AQ-252612P
230VAC 50Hz 20A
Max Dis. P. 6W

Ex eb IIC T6 Gb
Ex tb IIIC T85°C Db
T.amb. -20/+40°C
IP66
Serial Nr.

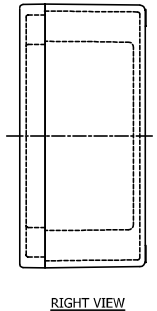
WARNINGS : DO NOT OPEN WHEN ENERGIZED

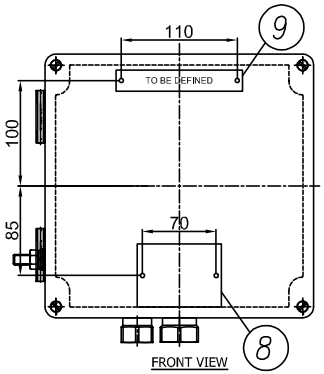
(9) PLATE DETAIL



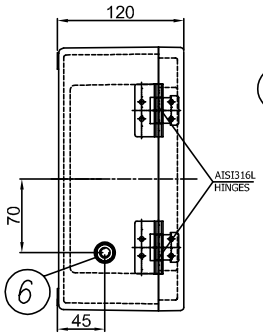
MATERIAL: LAMINATED PLASTIC
BACKGROUND: WHITE
LETTERS:BLACK

(7) JB for Normal Lighting have terminals bridge: L-L-L-L-L, N-N-N-N-N, PE-PE-PE-PE-PE - JB for Emergency Lighting have terminals bridge: L-L-L, N-N-N, PW-PW-PW, PE-PE-PE-PE-PE

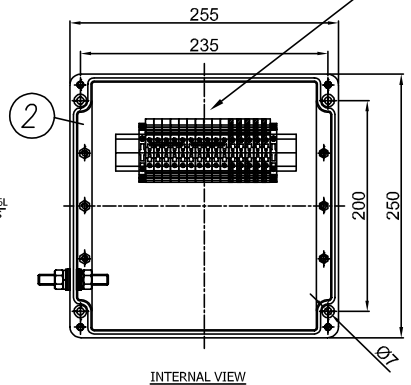

RIGHT VIEW



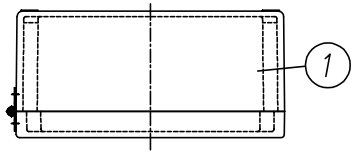
FRONT VIEW



LEFT VIEW



INTERNAL VIEW



TOP VIEW

ITEM	DESCRIPTION	Pcs Q.TY	NOTE/MAT.	CODE	MANUFACTURER
11	DUSTPROOF PVC PLUG Ø25	2	–	.	TECHNOR ITALSMEA
10	DUSTPROOF PVC PLUG Ø20	1	–	.	TECHNOR ITALSMEA
9	LAMINATED PLASTIC TAG 120X20	1	–	.	TECHNOR ITALSMEA
8	AISI316L CERTIFICATE PLATE 80X60	1	–	.	TECHNOR ITALSMEA
7	BEIGE TERMINAL BLOCK SIZE 6 SQMM EARTH TERMINAL BLOCK SIZE 6 SQMM	10 5	WDU–6 WPE–6	.	WEIDMULLER
6	AISI316L INT/EXT EARTH BOLT M10	1	BTP–10	.	TECHNOR ITALSMEA
5	BRASS CONTINUITY PLATE THK. 0.8 MM	1	–	.	TECHNOR ITALSMEA
4	NICKEL PLATED BRASS PLUG M20	1	T20	.	TECHNOR ITALSMEA
3	NICKEL PLATED BRASS PLUG M25	1	T25	.	TECHNOR ITALSMEA
2	INTERNAL MOUNTING PLATE	1	PS–2526	.	TECHNOR ITALSMEA
1	GRP ENCLOSURE	1	AQ–252612P	.	TECHNOR ITALSMEA

-UNPAINTED (BLACK NATURAL)
Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti
TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting

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

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

SHEET 004

REV. 04

F.to UNI A3: 420mmx297mm

File Name : 1724001481-EL-DA-00003 Rev. 01

ENCLOSURE N°	TAG LIST	NORMAL LIGHTNING	EMERGENCY LIGHTNING
1	EJB-200N1-03-L2-04	X	
2	EJB-200N1-03-L2-03	X	
3	EJB-200N1-03-L2-01	X	
4	EJB-200N1-03-L2-02	X	
5	EJB-200N1-03-L2-12	X	
6	EJB-200N1-03-L2-11	X	
7	EJB-200N1-03-L2-10	X	
8	EJB-200N1-03-L2-09	X	
9	EJB-200N1-03-L2-08	X	
10	EJB-200N1-03-L2-07	X	
11	EJB-200N1-03-L2-06	X	
12	EJB-200N1-03-L2-05	X	
13	EJB-200N1-03-L2-14	X	
14	EJB-200N1-03-L2-13		X
15	EJB-200N1-09-L2-17		X
16	EJB-200N1-09-L2-01		X
17	EJB-200N1-09-L2-04		X
18	SPARE (TO BE PROVIDED BLANK)		X
19	EJB-200N1-09-L2-02		X
20	EJB-200N1-09-L2-15		X
21	EJB-200N1-09-L2-14		X
22	EJB-200N1-09-L2-13		X
23	EJB-200N1-09-L2-12		X
24	EJB-200N1-09-L2-11		X
25	EJB-200N1-09-L2-10		X
26	EJB-200N1-09-L2-09		X
27	EJB-200N1-09-L2-08		X
28	EJB-200N1-09-L2-07		X
29	EJB-200N1-09-L2-06		X
30	EJB-200N1-09-L2-05		X
31	EJB-200N1-09-L2-16	X	
32	EJB-200N1-04-L3-01	X	
33	EJB-200N1-04-L3-02	X	
34	EJB-200N1-10-L3-05		X
35	EJB-200N1-10-L3-06		X
36	EJB-200N1-10-L3-07		X
37	EJB-200N1-10-L3-08		X
38	EJB-200N1-10-L3-09		X
39	EJB-200N1-10-L3-02		X
40	EJB-200N1-10-L3-01		X
41	EJB-200N1-10-L3-03		X
42	EJB-200N1-10-L3-04		X
43	EJB-200N1-02-L1-03	X	
44	EJB-200N1-02-L1-02	X	
45	EJB-200N1-02-L1-01	X	
46	SPARE (TO BE PROVIDED BLANK)	X	
47	EJB-200N1-02-L1-10	X	
48	EJB-200N1-02-L1-19	X	
49	EJB-200N1-02-L1-18	X	

ENCLOSURE N°	TAG LIST	NORMAL LIGHTNING	EMERGENCY LIGHTNING
50	EJB-200N1-02-L1-17	X	
51	EJB-200N1-02-L1-16	X	
52	EJB-200N1-02-L1-15	X	
53	EJB-200N1-02-L1-14	X	
54	EJB-200N1-02-L1-13	X	
55	EJB-200N1-02-L1-12	X	
56	EJB-200N1-02-L1-11	X	
57	EJB-200N1-02-L1-06	X	
58	EJB-200N1-02-L1-05	X	
59	EJB-200N1-02-L1-07	X	
60	EJB-200N1-02-L1-08	X	
61	EJB-200N1-02-L1-09	X	
62	EJB-200N1-08-L1-03		X
63	SPARE (TO BE PROVIDED BLANK)		X
64	EJB-200N1-08-L1-01		X
65	EJB-200N1-08-L1-04		X
66	EJB-200N1-08-L1-19		X
67	EJB-200N1-08-L1-18		X
68	EJB-200N1-08-L1-17		X
69	EJB-200N1-08-L1-16		X
70	EJB-200N1-08-L1-15		X
71	EJB-200N1-08-L1-14		X
72	~~EJB-200N1-08-L1-13~~ EJB-200N1-02-L1-20	X	
73	EJB-200N1-08-L1-12		X
74	EJB-200N1-08-L1-11		X
75	EJB-200N1-08-L1-10		X
76	EJB-200N1-08-L1-20		X
77	EJB-200N1-08-L1-05		X
78	EJB-200N1-08-L1-06		X
79	EJB-200N1-08-L1-07		X
80	EJB-200N1-08-L1-09		X
81	EJB-200N1-08-L1-08		X
82	EJB-200F2-01	X	
83	EJB-200F2-02	X	
84	SPARE (TO BE PROVIDED BLANK)	X	
85	SPARE (TO BE PROVIDED BLANK)	X	
86	SPARE (TO BE PROVIDED BLANK)	X	
87	SPARE (TO BE PROVIDED BLANK)	X	
88	SPARE (TO BE PROVIDED BLANK)	X	
89	SPARE (TO BE PROVIDED BLANK)		X
90	SPARE (TO BE PROVIDED BLANK)		X
91	SPARE (TO BE PROVIDED BLANK)		X
92	SPARE (TO BE PROVIDED BLANK)		X

Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting–Tag List

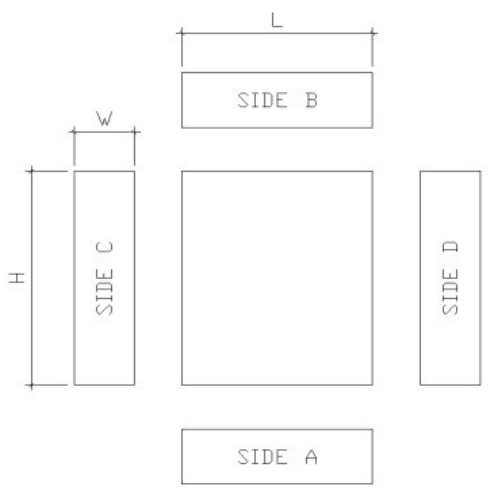
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 1724001481–EL–DA–00003 | SHEET 005 | REV. 04

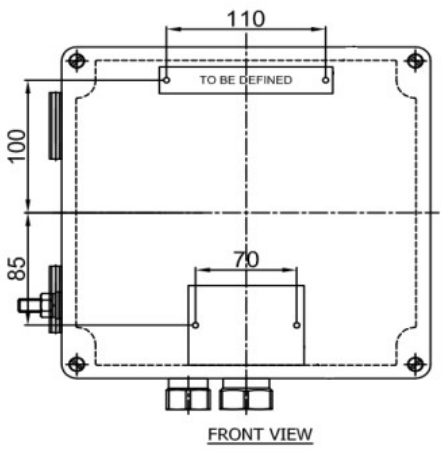
F.to UNI A3: 420mmx297mm

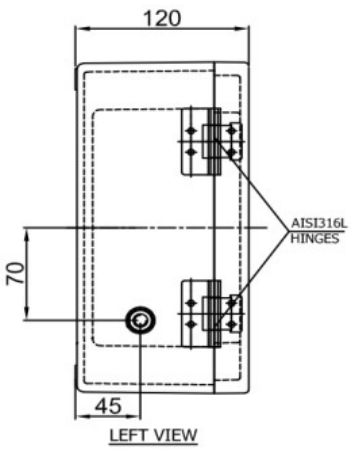
File Name : 1724001481-EL-DA-00003 Rev. 01

Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	Junction Box for Normal & Emergency Lighting				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by Vendor	AQ-252612P		01
4	Serial Number	by Vendor	B011041010004		01
5	Quantity	40+4(Spare)		(39+5 Spare)	01
6	Application	Lighting pole JB/Lighting JB			00
7	**Installation area**				
8	Indoor/Outdoor	Outdoor			00
9	Safe Area/Hazardous Area	Safe area			00
10	Zone 1/Zone 2	NA			00
11	Temp. Class	NA	Ex eb IIC, T6 Gb		01
12	**Electrical input data**				
13	Voltage	230 V ac	230 V ac		00
14	Number of Phases	1ph + N + PE			00
15	**Material**				
16	Body	GRP	GRP		01
17	Execution	Normal	Ex eb	Will be used ATEX even in safe area	01
18	Protection Degree	IP56	IP 66		01
19	**Accessories**				
20	Hinged Cover	Required	AISI316L Hinges		01
21	Gasket	Required			00
22	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
23	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
24	Internal Ground Bar	Required		connected to earth stud	00
25	Earth Stud	Required			00
26	Drainage Valve	Required			00
27	Pad lockable Cover	Required			00
28	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
29	**Side 'A'**				
30	Hubs Qty.	5	5		01
31	Size	No.3 M25, No.2 M20	No.3 Ø 25.2 mm, No.2 Ø 20.2 mm		01
32	Thread	ISO-M			00
33	Plug	No. 1 M20, No.1 M25	No. 1 Ø 20.2 mm, No.1 Ø 25.2 mm	nickel-plated brass	01
34	**Side 'B'**				
35	Hubs Qty.	Not Required			00
36	Size	NA			00
37	Thread	NA			00
38	**Side 'C'**				
39	Hubs Qty.	Not Required			00
40	Size	NA			00
41	Thread	NA			00
42	**Side 'D'**				
43	Hubs Qty.	Not Required			00
44	Size	NA			
45	Thread	NA			
46	**Terminals**				
47	Size [mm^2]	Suitable for 6 Sq.mm & 2.5 Sq.mm Cable	M25 & M20	suitable with wire-end ferrules DIN 46228	01
48	Qty.	n°5 for Ph // n°5 for N // n°5 for PE	n°5 for Ph // n°5 for N // n°5 for PE	jumpered	01
49	**Bonding Cable (yellow/Green)**				
50	Size [mm^2]	by vendor		6 mm^2	01
51	Qty.	Min. 0.15m			00
52	**Dimension**				
53	Height 'H' [mm]	by vendor	120 mm		01
54	Width 'W' [mm]	by vendor	250 mm		01
55	Length 'L' [mm]	by vendor	255 mm		01
56	Weight [Kg]	by vendor	2.65 Kg		01
57	JB Code (*)	Remarks			
58					



NOTES:
(*) Filled by Vendor





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ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	EJB-200N1-10-L3-06	: JB - EMERGENCY LIGHTING			Dwg	123A90-DDL-EL-DL-20120
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	TP
TASK	code	C10001312		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX31 Junction and Marshalling Box

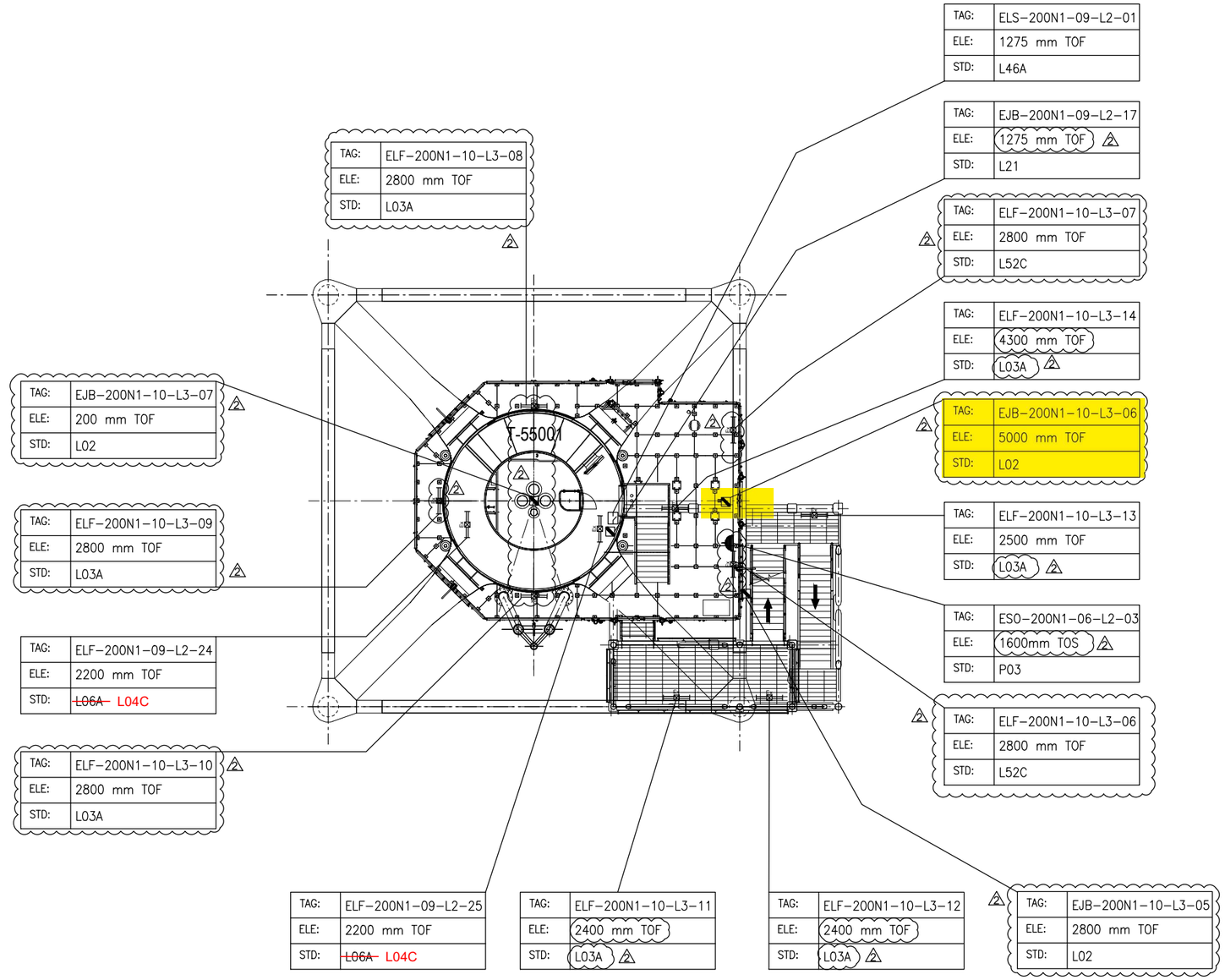
1	Check box is de-energized and safe.	OK
2	Check box is correctly mounted and easily accessible.	OK
3	Check box tagging against drawing.	OK
4	Check nameplate data is correct.	OK
5	Check flameproof joints are clean and greased with approved lubricants (if required).	NA
6	Check for damaging gaskets.	OK
7	Check all bolts are fitted and correcly tighted .	OK
8	Check all unused entries are suitably plugged.	OK
9	Check earthing and bonding against drawings.	OK
10	Check terminal blocks segregation barriers are fitted where necessary.	NA
11	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

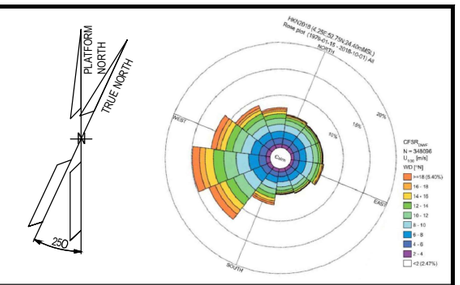
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	VIP	RM(ROSETTI MARINO)	
Name	Madhankumar Arunagiri	Giovanni Tangianu	
Date	2025-04-18	2025-05-05	
Signature	PROVERLIS Digitaly signed by Madhankumar Arunagiri 2025-04-18T06:11:41.036Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2025-05-05T11:10:33.628Z	

DRAWING NO. 123A90-DDL-EL-DL-20120

REV. 02



PLAN ON EXISTING PLATFORM AT EL.+16.860 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S / T.O.F.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. ELEVATION OR STANDARD PRESENT IN THE MASK, WHERE JB AND FIXTURE ARE SHOWN, ARE RELATIVE TO THE ORDER OF THE TAGS, 1°ROW JB AND 2°ROW FIXTURE = ELEVATION JB / ELEVATION FIXTURE.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- SMALL POWER SOCKET WITH INTEGRATED JB
- LOCAL SWITCH IP66 TYPE

JB TAG:	JB–TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

T.O.S TOP OF STEEL
T.O.F TOP OF FOOTING (Walkway plan)

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20120**

REV.:	DATE:	SIGNATURE:
2_B	27/01/25	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-EL-DL-20102	ELECTRICAL EQUIPMENT LAYOUT - TRANSITION PIECE
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-PP-DL-70070	BASE LOAD POWER HUB (BLPH) - PLOT PLAN - LOWER AND UPPER DECK
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
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	04/06/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

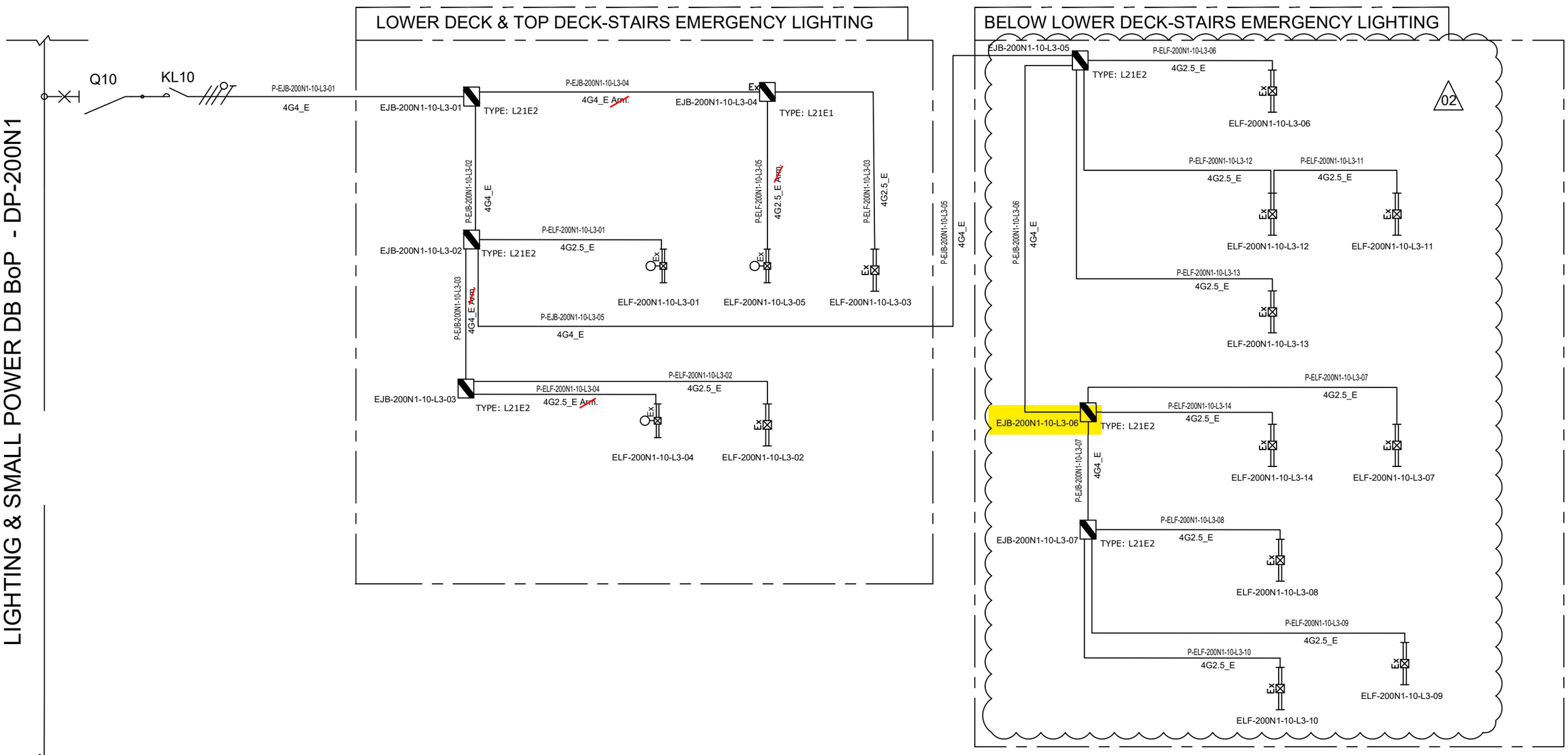
ROSETTI MARINO

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

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:100
DRAWN AMA	CHECKED CGI	APPROVED DLO	DATE 07/10/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20120	SHEET 001	REV. 02

File Name : 123A90-DDL-EL-DL-20120

LIGHTING & SMALL POWER DB BoP - DP-200N1



NOTE:	
ELF-200N1-10-L3-01	LOWER DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-02	
ELF-200N1-10-L3-03	
ELF-200N1-10-L3-04	TOP DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-05	

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

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

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
			ELF-200N1-10-L3-09		
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
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 EMERGENCY LIGHTING (LOWER DECK,TOP DECK AND BELOW LOWER DECK)

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	007	02

CROSSWIND

ROSETTI MARINO

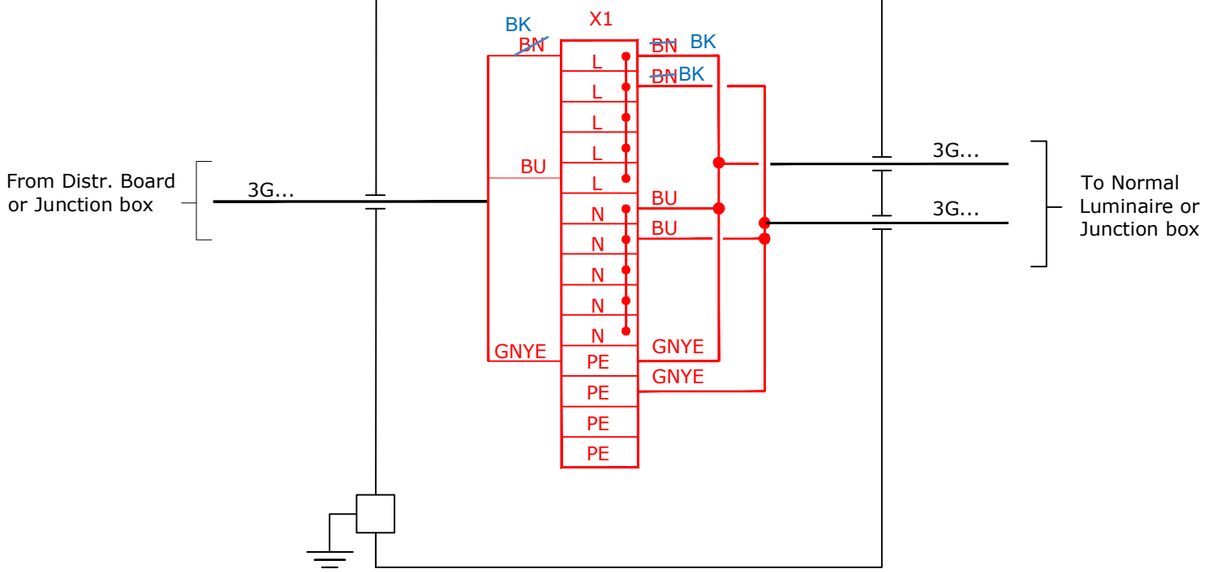
F.to UNI A3: 420mmx297mm

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

TYPE : L21N1 & L21N2

ITEM: NORMAL LIGHTING JUNCTION BOX

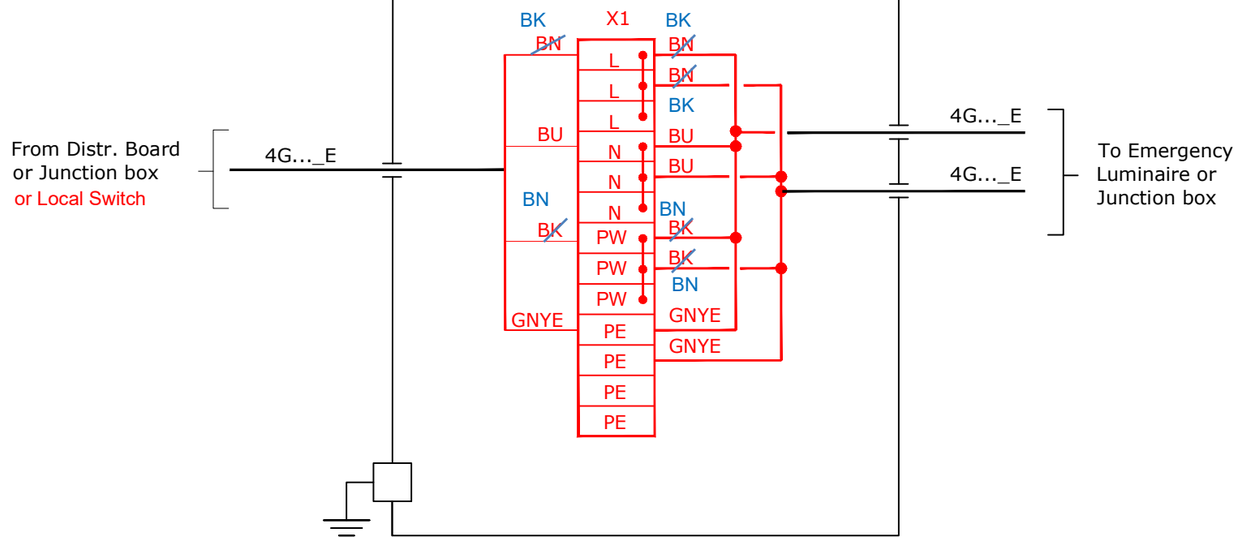
TAG : Typical



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. 123A90-DDL-EL-DG-20125

SHEET 016

REV. 01

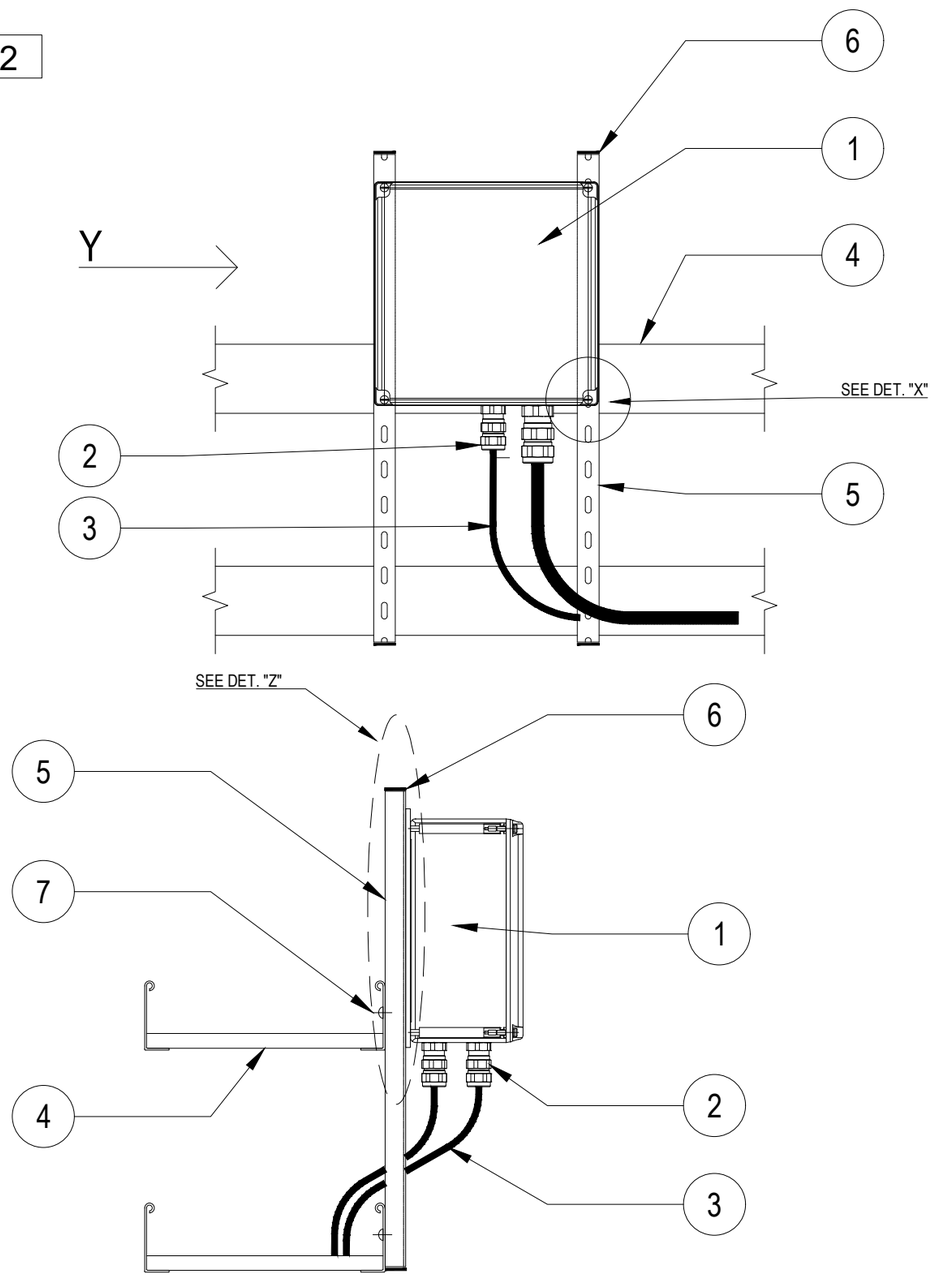
File Name : 123A90-DDL-EL-DG-20125

F.to UNI A3: 420mmx297mm

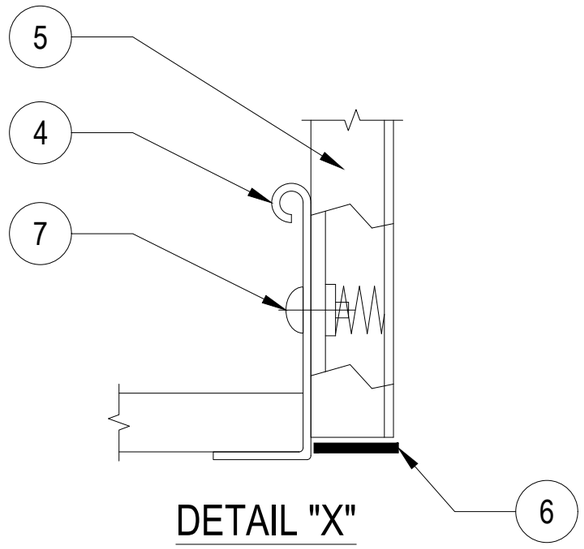
L02

02

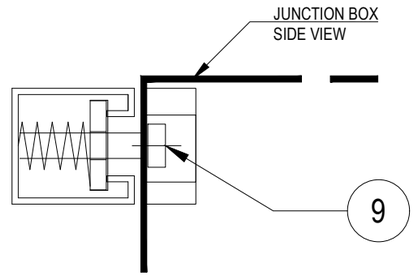
POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	JUNCTION BOX (Ex)	GRP			
2	CABLE GLAND FOR ARMOURED/UNARMOURED CABLE	NICK.PL.BRASS			NOTE 2
3	ARMOURED/UNARMOURED CABLE				
4	CABLE LADDER	AISI 316L			
5	SINGLE U-CHANNEL PERFORATED ON NO.3 SIDE	AISI 316L	41x41x2		NOTE 1
6	PLUG FOR U-CHANNEL	LPDE			
7	ROUND HEAD SCREW WITH SQUARE NECK AND NUT FOR U-CHANNEL WITH SPRING	AISI 316L	M6x20	4	
9	ALLEN KEY BOLT COMPLETE WITH PLANE WASHER, NUT FOR U-CHANNEL WITH SPRING	AISI 316L	M6x30		



VIEW "Y"



DETAIL "X"



DETAIL "Z"

NOTES:

1) THE EXACT DIMENSIONS WILL BE DEFINED DURING ASSEMBLY PHASE.

2) CABLE GLAND COMPLETE WITH LOCKNUT, NYLON WASHER, SERRATED WASHER, EXTERNAL RUBBER RING AND EARTH TAG (IF NECESSARY).

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING AND SOCKET JB MOUNTED ON CABLE LADDER

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

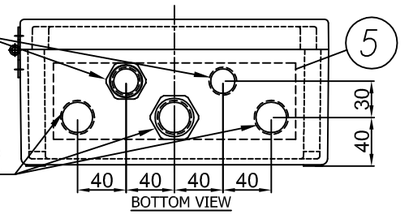
A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 004 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

(10)(4) N°2 PASSING HOLES Ø20.2
C/W N°1 BNK PLUG M20 +
N°1 DUSTPROOF PVC PLUG

(3)(3) N°3 PASSING HOLES Ø25.2
C/W N°1 BNK PLUG M25 +
N°2 DUSTPROOF PVC PLUG



BOTTOM VIEW

(8) I2400722-B015I00029809

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC
Via Italia 33 - 20060 Cassano (MI) ITALY

CE 0080 Ex II 2G II 2D
FIDI 21ATEX 0090X
IECEx FIDI 21.0015X
Year of construction:

MADE IN ITALY

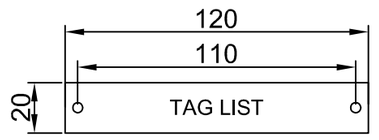
TYPE: AQ-252612P
230VAC 50Hz 20A
Max Dis. P. 6W

Ex eb IIC T6 Gb
Ex tb IIIC T85°C Db
IP66
T.amb. -20/+40°C
Serial Nr.

WARNINGS : DO NOT OPEN WHEN ENERGIZED

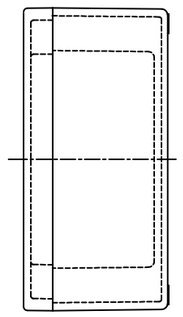
A002MAX

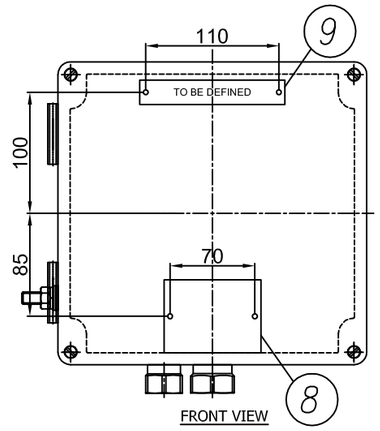
(9) PLATE DETAIL



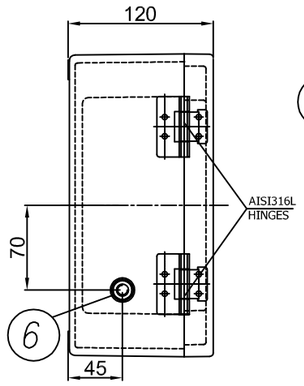
MATERIAL: LAMINATED PLASTIC
BACKGROUND: WHITE
LETTERS: BLACK

(7) Terminals numbered: NOTE 1

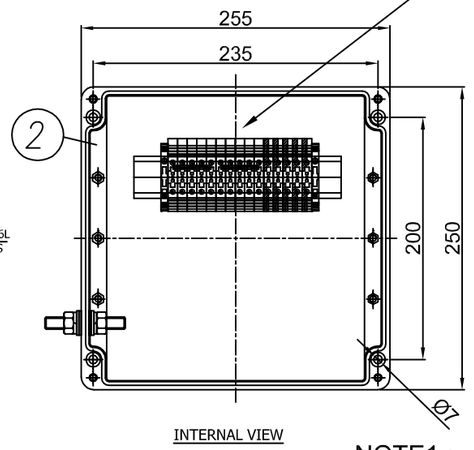

RIGHT VIEW



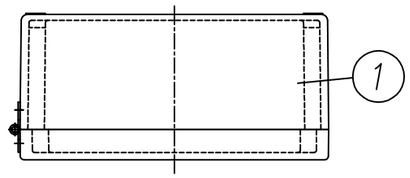
FRONT VIEW



LEFT VIEW



INTERNAL VIEW



TOP VIEW

NOTE1 :
- JB for Normal Lighting have terminals bridge: L-L-L-L-L, N-N-N-N-N, PE-PE-PE-PE-PE - JB for Emergency Lighting have terminals bridge: L-L-L, N-N-N, PW-PW-PW, PE-PE-PE-PE-PE

ITEM	DESCRIPTION	Pcs Q.TY	NOTE/MAT.	CODE	MANUFACTURER
11	DUSTPROOF PVC PLUG Ø25	2	–	.	TECHNOR ITALSMEA
10	DUSTPROOF PVC PLUG Ø20	1	–	.	TECHNOR ITALSMEA
9	LAMINATED PLASTIC TAG 120X20	1	–	.	TECHNOR ITALSMEA
8	AISI316L CERTIFICATE PLATE 80X60	1	–	.	TECHNOR ITALSMEA
7	BEIGE TERMINAL BLOCK SIZE 6 SQMM EARTH TERMINAL BLOCK SIZE 6 SQMM	10 5	WDU–6 WPE–6	.	WEIDMULLER
6	AISI316L INT/EXT EARTH BOLT M10	1	BTP–10	.	TECHNOR ITALSMEA
5	BRASS CONTINUITY PLATE THK. 0.8 MM	1	–	.	TECHNOR ITALSMEA
4	NICKEL PLATED BRASS PLUG M20	1	T20	.	TECHNOR ITALSMEA
3	NICKEL PLATED BRASS PLUG M25	1	T25	.	TECHNOR ITALSMEA
2	INTERNAL MOUNTING PLATE	1	PS–2526	.	TECHNOR ITALSMEA
1	GRP ENCLOSURE	1	AQ–252612P	.	TECHNOR ITALSMEA

-UNPAINTED (BLACK NATURAL)
Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti
TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
05	20/12/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting

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

A3 | DRAWING NO. 1724001481–EL–DA–00003 | SHEET 004 | REV. 05

F.to UNI A3: 420mmx297mm

File Name : 1724001481–EL–DA–00003 Rev. 01

ENCLOSURE N°	TAG LIST	NORMAL LIGHTING	EMERGENCY LIGHTING
1	EJB-200N1-03-L2-04	X	
2	EJB-200N1-03-L2-03	X	
3	EJB-200N1-03-L2-01	X	
4	EJB-200N1-03-L2-02	X	
5	EJB-200N1-03-L2-12	X	
6	EJB-200N1-03-L2-11	X	
7	EJB-200N1-03-L2-10	X	
8	EJB-200N1-03-L2-09	X	
9	EJB-200N1-03-L2-08	X	
10	EJB-200N1-03-L2-07	X	
11	EJB-200N1-03-L2-06	X	
12	EJB-200N1-03-L2-05	X	
13	EJB-200N1-03-L2-14	X	
14	EJB-200N1-03-L2-13		X
15	EJB-200N1-09-L2-17		X
16	EJB-200N1-09-L2-01		X
17	EJB-200N1-09-L2-04		X
18	SPARE (TO BE PROVIDED BLANK)		X
19	EJB-200N1-09-L2-02		X
20	EJB-200N1-09-L2-15		X
21	EJB-200N1-09-L2-14		X
22	EJB-200N1-09-L2-13		X
23	EJB-200N1-09-L2-12		X
24	EJB-200N1-09-L2-11		X
25	EJB-200N1-09-L2-10		X
26	EJB-200N1-09-L2-09		X
27	EJB-200N1-09-L2-08		X
28	EJB-200N1-09-L2-07		X
29	EJB-200N1-09-L2-06		X
30	EJB-200N1-09-L2-05		X
31	EJB-200N1-09-L2-16	X	
32	EJB-200N1-04-L3-01	X	
33	EJB-200N1-04-L3-02	X	
34	EJB-200N1-10-L3-05		X
35	EJB-200N1-10-L3-06		X
36	EJB-200N1-10-L3-07		X
37	EJB-200N1-10-L3-08		X
38	EJB-200N1-10-L3-09		X
39	EJB-200N1-10-L3-02		X
40	EJB-200N1-10-L3-01		X
41	EJB-200N1-10-L3-03		X
42	EJB-200N1-10-L3-04		X
43	EJB-200N1-02-L1-03	X	
44	EJB-200N1-02-L1-02	X	
45	EJB-200N1-02-L1-01	X	
46	SPARE (TO BE PROVIDED BLANK)	X	
47	EJB-200N1-02-L1-10	X	
48	EJB-200N1-02-L1-19	X	
49	EJB-200N1-02-L1-18	X	

ENCLOSURE N°	TAG LIST	NORMAL LIGHTING	EMERGENCY LIGHTING
50	EJB-200N1-02-L1-17	X	
51	EJB-200N1-02-L1-16	X	
52	EJB-200N1-02-L1-15	X	
53	EJB-200N1-02-L1-14	X	
54	EJB-200N1-02-L1-13	X	
55	EJB-200N1-02-L1-12	X	
56	EJB-200N1-02-L1-11	X	
57	EJB-200N1-02-L1-06	X	
58	EJB-200N1-02-L1-05	X	
59	EJB-200N1-02-L1-07	X	
60	EJB-200N1-02-L1-08	X	
61	EJB-200N1-02-L1-09	X	
62	EJB-200N1-08-L1-03		X
63	SPARE (TO BE PROVIDED BLANK)		X
64	EJB-200N1-08-L1-01		X
65	EJB-200N1-08-L1-04		X
66	EJB-200N1-08-L1-19		X
67	EJB-200N1-08-L1-18		X
68	EJB-200N1-08-L1-17		X
69	EJB-200N1-08-L1-16		X
70	EJB-200N1-08-L1-15		X
71	EJB-200N1-08-L1-14		X
72	EJB-200N1-02-L1-20	X	
73	EJB-200N1-08-L1-12		X
74	EJB-200N1-08-L1-11		X
75	EJB-200N1-08-L1-10		X
76	EJB-200N1-08-L1-20		X
77	EJB-200N1-08-L1-05		X
78	EJB-200N1-08-L1-06		X
79	EJB-200N1-08-L1-07		X
80	EJB-200N1-08-L1-09		X
81	EJB-200N1-08-L1-08		X
82	EJB-200F2-01	X	
83	EJB-200F2-02	X	
84	SPARE (TO BE PROVIDED BLANK)	X	
85	SPARE (TO BE PROVIDED BLANK)	X	
86	SPARE (TO BE PROVIDED BLANK)	X	
87	SPARE (TO BE PROVIDED BLANK)	X	
88	SPARE (TO BE PROVIDED BLANK)	X	
89	SPARE (TO BE PROVIDED BLANK)		X
90	SPARE (TO BE PROVIDED BLANK)		X
91	SPARE (TO BE PROVIDED BLANK)		X
92	SPARE (TO BE PROVIDED BLANK)		X

Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
05	20/12/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting–Tag List

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

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

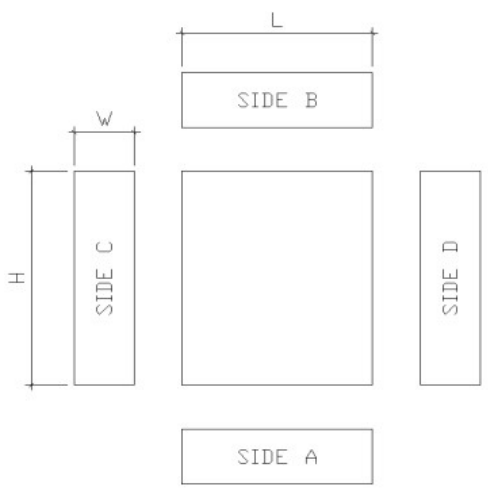
SHEET 005

REV. 05

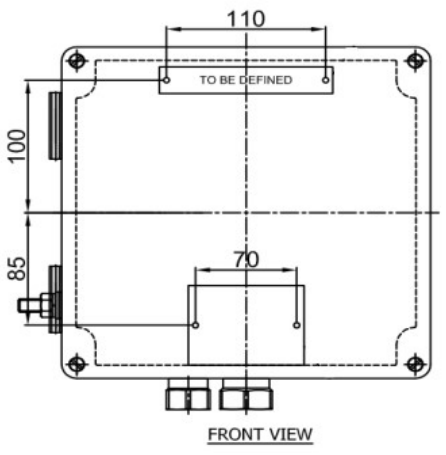
F.to UNI A3: 420mmx297mm

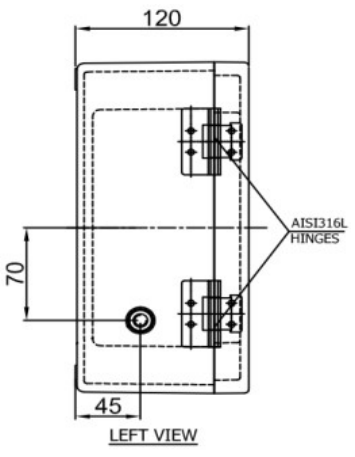
File Name : 1724001481-EL-DA-00003 Rev. 01

Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	Junction Box for Normal & Emergency Lighting				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by Vendor	AQ-252612P		01
4	Serial Number	by Vendor	B011041010004		01
5	Quantity	40+4(Spare)		(39+5 Spare)	01
6	Application	Lighting pole JB/Lighting JB			00
7	**Installation area**				
8	Indoor/Outdoor	Outdoor			00
9	Safe Area/Hazardous Area	Safe area			00
10	Zone 1/Zone 2	NA			00
11	Temp. Class	NA	Ex eb IIC, T6 Gb		01
12	**Electrical input data**				
13	Voltage	230 V ac	230 V ac		00
14	Number of Phases	1ph + N + PE			00
15	**Material**				
16	Body	GRP	GRP		01
17	Execution	Normal	Ex eb	Will be used ATEX even in safe area	01
18	Protection Degree	IP56	IP 66		01
19	**Accessories**				
20	Hinged Cover	Required	AISI316L Hinges		01
21	Gasket	Required			00
22	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
23	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
24	Internal Ground Bar	Required		connected to earth stud	00
25	Earth Stud	Required			00
26	Drainage Valve	Required			00
27	Pad lockable Cover	Required			00
28	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
29	**Side 'A'**				
30	Hubs Qty.	5	5		01
31	Size	No.3 M25, No.2 M20	No.3 Ø 25.2 mm, No.2 Ø 20.2 mm		01
32	Thread	ISO-M			00
33	Plug	No. 1 M20, No.1 M25	No. 1 Ø 20.2 mm, No.1 Ø 25.2 mm	nickel-plated brass	01
34	**Side 'B'**				
35	Hubs Qty.	Not Required			00
36	Size	NA			00
37	Thread	NA			00
38	**Side 'C'**				
39	Hubs Qty.	Not Required			00
40	Size	NA			00
41	Thread	NA			00
42	**Side 'D'**				
43	Hubs Qty.	Not Required			00
44	Size	NA			
45	Thread	NA			
46	**Terminals**				
47	Size [mm^2]	Suitable for 6 Sq.mm & 2.5 Sq.mm Cable	M25 & M20	suitable with wire-end ferrules DIN 46228	01
48	Qty.	n°5 for Ph // n°5 for N // n°5 for PE	n°5 for Ph // n°5 for N // n°5 for PE	jumpered	01
49	**Bonding Cable (yellow/Green)**				
50	Size [mm^2]	by vendor		6 mm^2	01
51	Qty.	Min. 0.15m			00
52	**Dimension**				
53	Height 'H' [mm]	by vendor	120 mm		01
54	Width 'W' [mm]	by vendor	250 mm		01
55	Length 'L' [mm]	by vendor	255 mm		01
56	Weight [Kg]	by vendor	2.65 Kg		01
57	JB Code (*)	Remarks			
58					



NOTES:
(*) Filled by Vendor





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ITEM	Tag	ELF-200N1-10-L3-01	: EMERGENCY LIGHT			Dwg	123A90-DDL-EL-DL-20119
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	LD
TASK	code	C10001316		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	PL
3	Check equipment is undamaged and correcly tagged.	OK
4	Check nameplate data is correct.	OK
5	Check all bolts are fitted and all unused entries are suitably plugged.	OK
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	OK
8	Check items are properly fixed on support.	OK
9	If required produce Red Line Mark Up for "AS BUILT"	

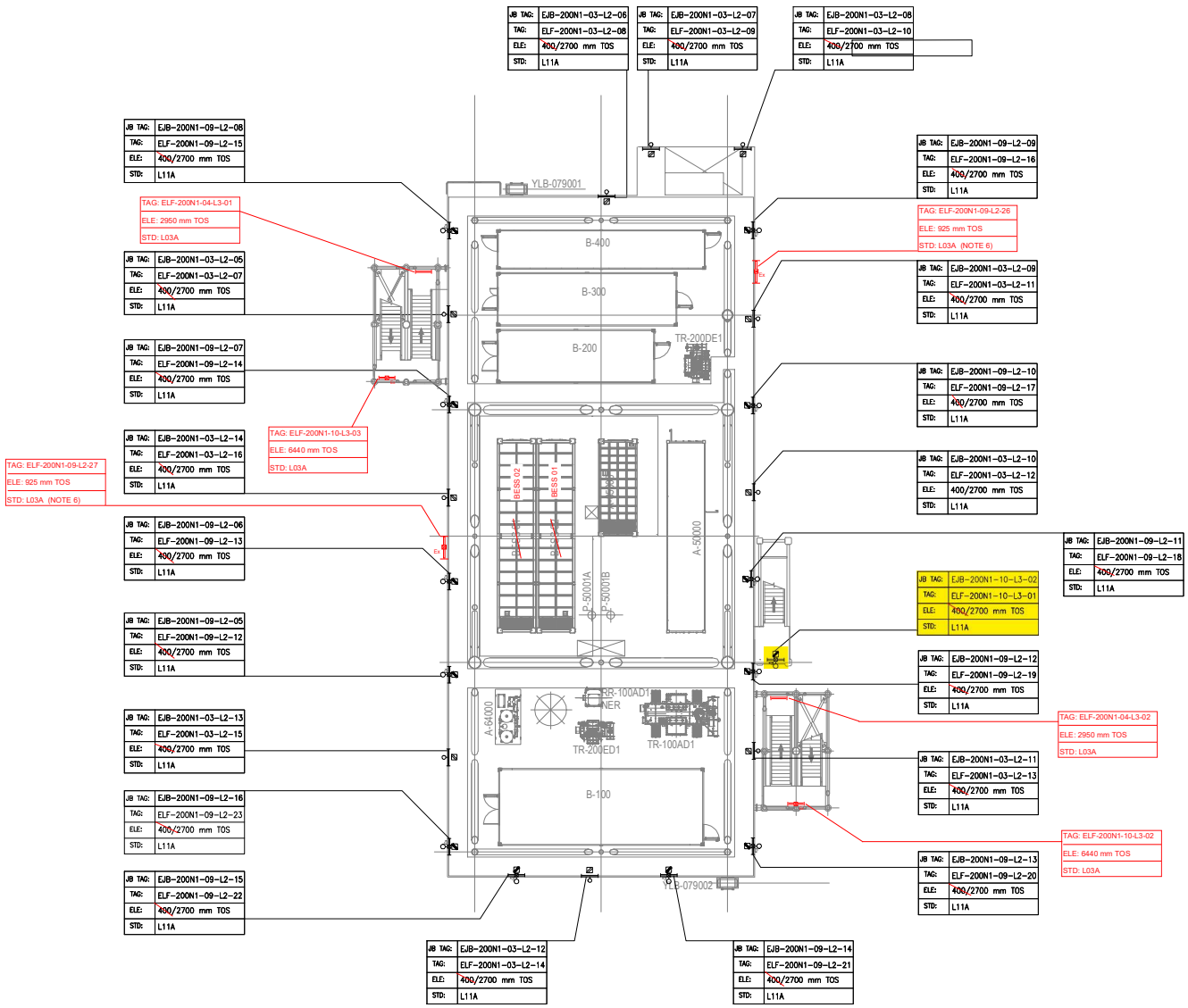
Comments:

Note 02: Light installation and connection on both side will be completed during OFFSHORE phase. (See Ref. task C10004921).

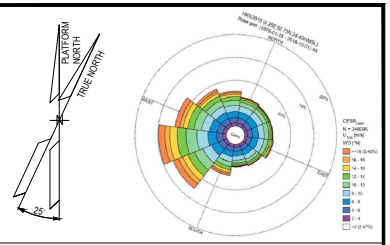
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	VIP	RM(ROSETTI MARINO)	
Name	Madhankumar Arunagiri	Giovanni Tangianu	
Date	2025-04-17	2025-04-17	
Signature	PROVERLIS Digitaly signed by Madhankumar Arunagiri 2025-04-17T12:34:58.879Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2025-04-17T14:12:18.122Z	

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

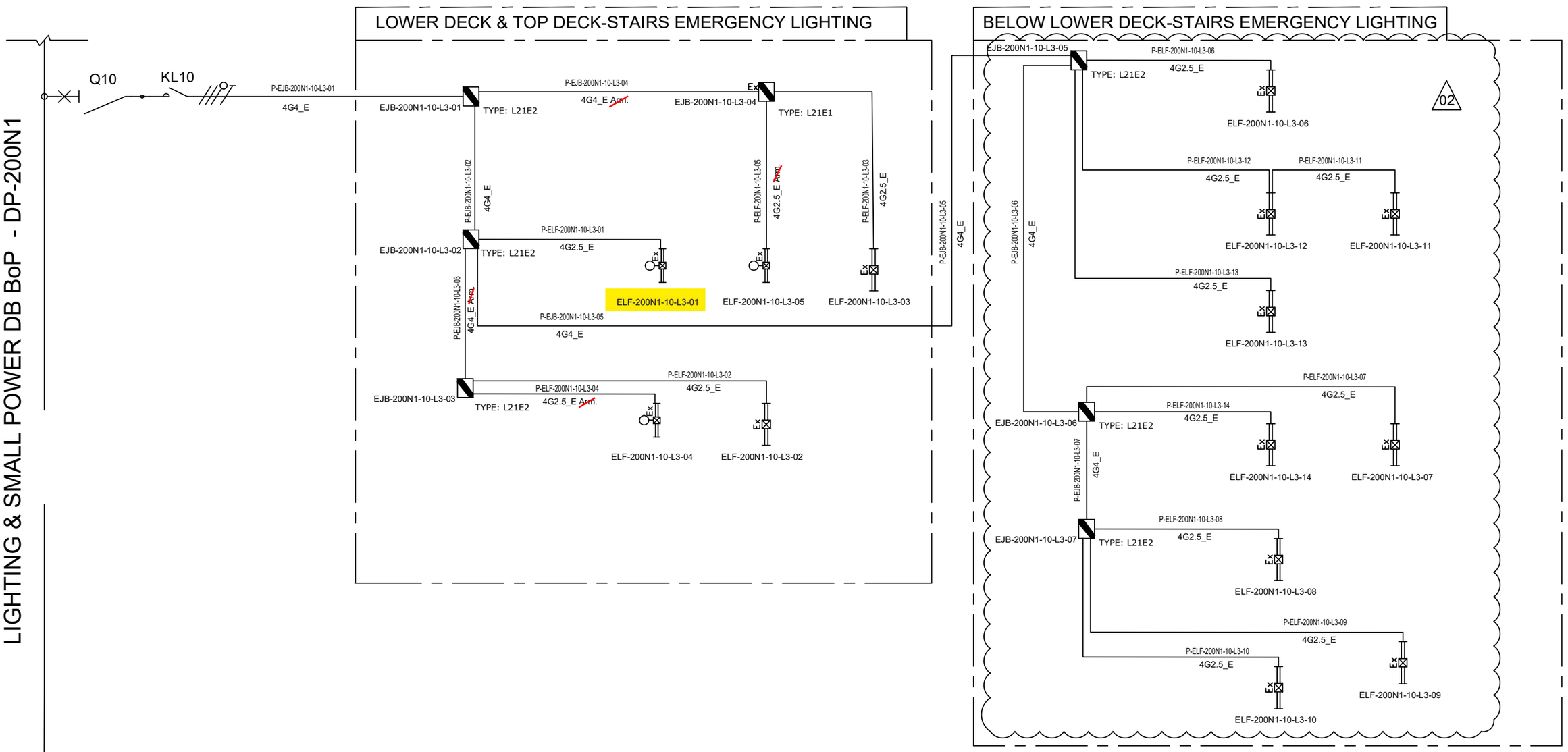
ROSETTI MARINO

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

LIGHTING & SMALL POWER DB BoP - DP-200N1



NOTE:	
ELF-200N1-10-L3-01	LOWER DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-02	
ELF-200N1-10-L3-03	
ELF-200N1-10-L3-04	TOP DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-05	

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

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

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
		ELF-200N1-10-L3-09			
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
STAIRS EMERGENCY LIGHTING (LOWER DECK,TOP DECK AND BELOW LOWER DECK)

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

SCALE : NTS

A3

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

SHEET 007

REV. 02

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

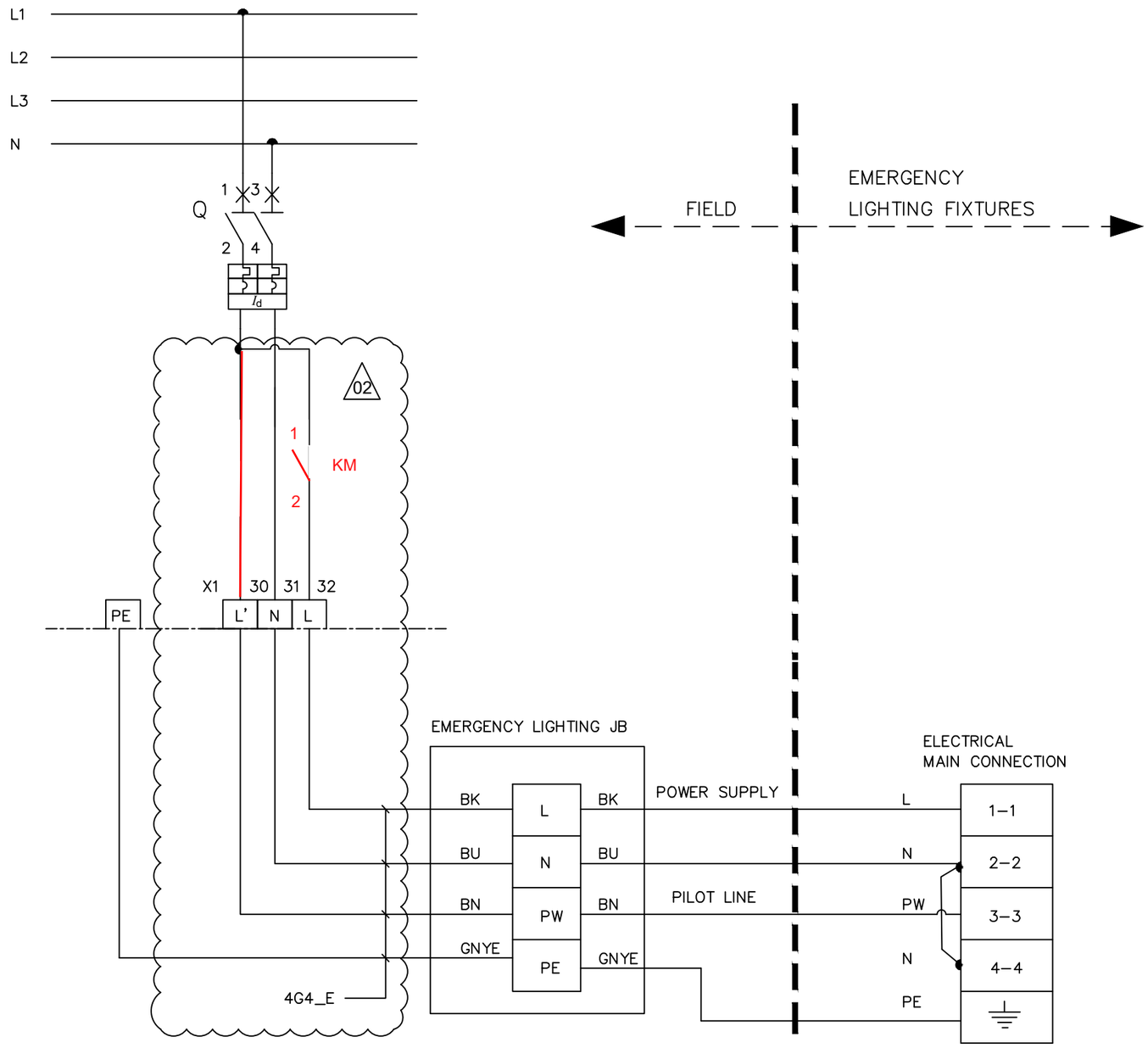
F.to UNI A3: 420mmx297mm

DP–200N1

FOR EMERGENCY LIGHTING

INTERNAL BUS BAR 400V–230V / 50Hz

EMERGENCY LIGHTS WIRING DIAGRAM



L – POWER SUPPLY

N – NEUTRAL

PW – PILOT LINE

PE – PROTECTIVE EARTH

BN – BROWN (L')

BK – BLACK (L)

BU – BLUE (N)

GNYE – GREEN/YELLOW (PE)

02

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
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
EMERGENCY LIGHTS WIRING DIAGRAM

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

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

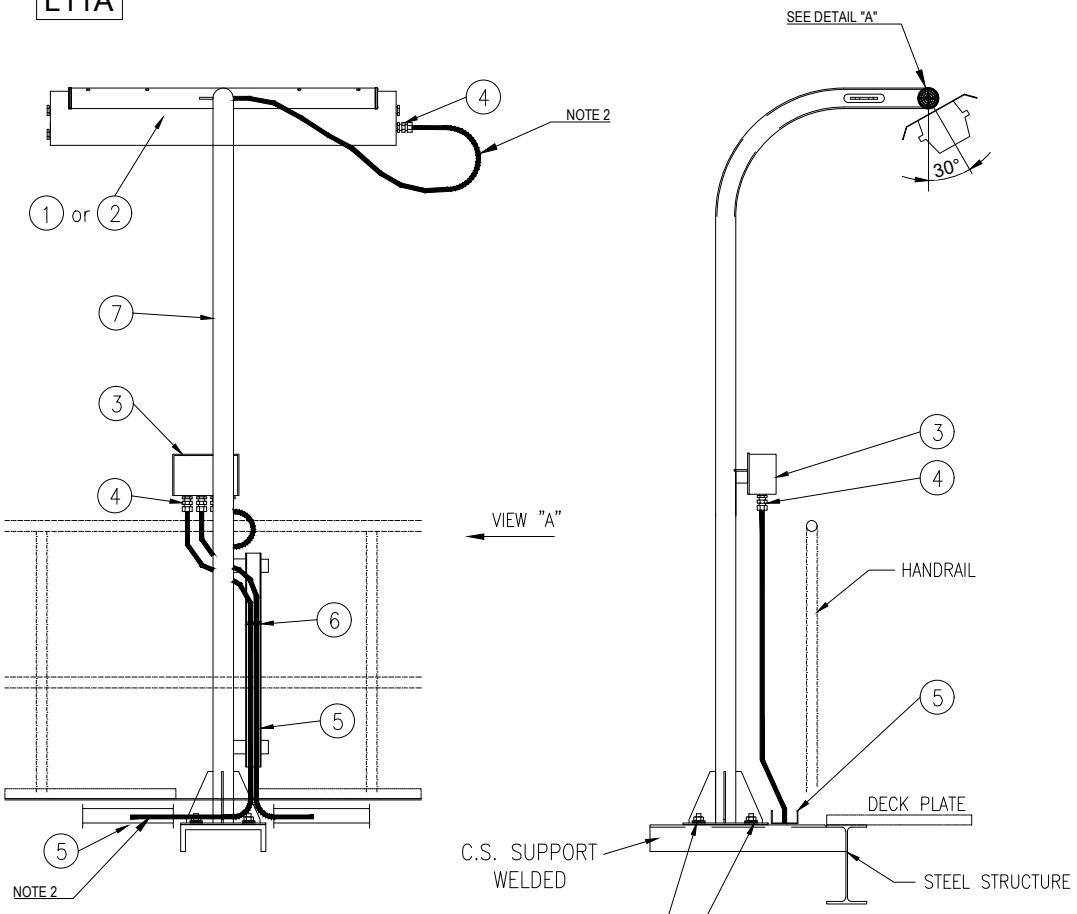
SHEET 014

REV. 02

F.to UNI A3: 420mmx297mm

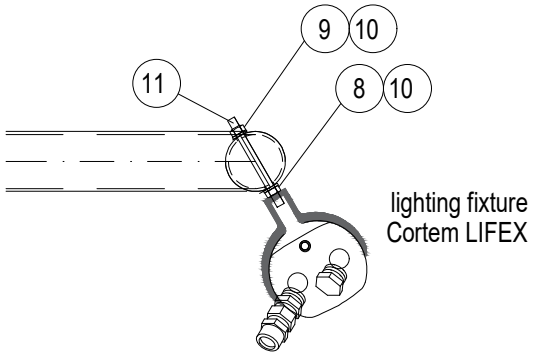
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L11A



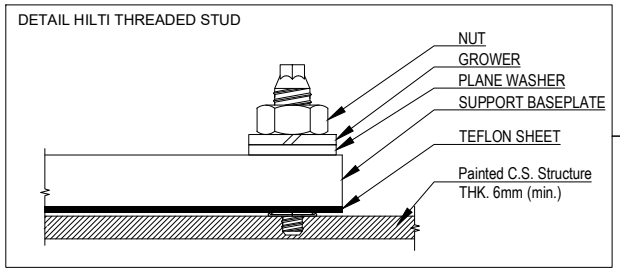
VIEW "A"

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND ~~C/W EARTH TAG,~~ WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

02

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

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

A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

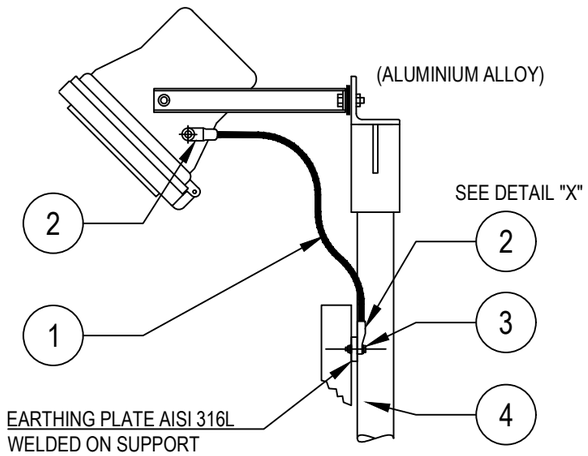
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

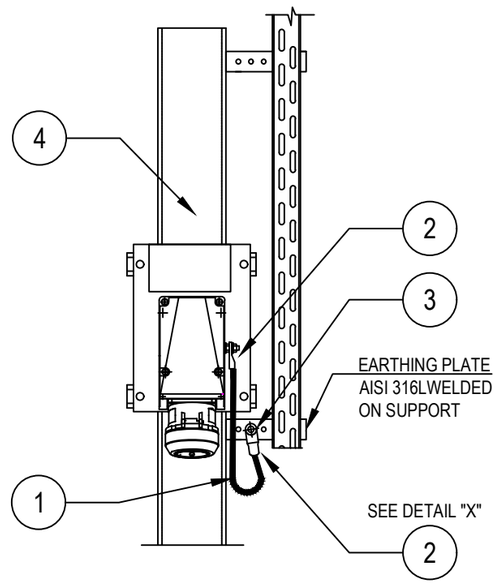
E05

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	Y/G INSULATING COPPER CONDUCTOR	COPPER	$6mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$6mm^2$	2	
3	HEXAG. BOLTS, PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M8X30	1	

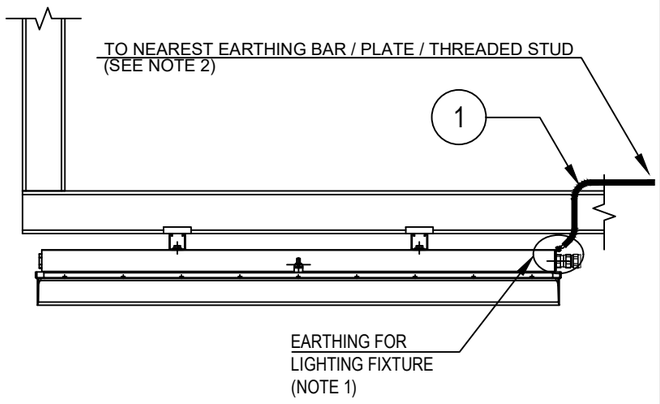
LIGHTING FIXTURE/GENERAL ITEM ON POLE



POWER SOCKET OUTLET

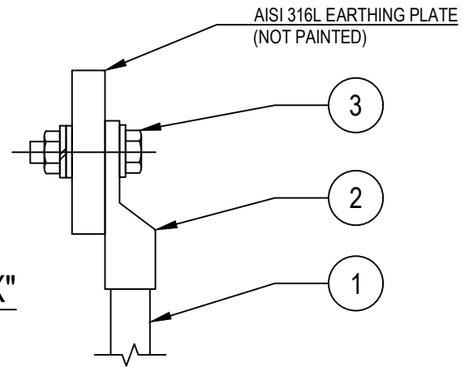


LIGHTING FIXTURES



Refer also to TYP. "E32" (SEE SHEET 23)

DETAIL "X"



TYPICAL VALID ALSO FOR NAVAID LIGHTS

NOTES:

1) ALL LIGHTING FIXTURES AND RELEVANT ARMOUR OF THE CABLE, ARE CONNECTED TO EARTH CONNECTION THROUGH THE EARTHING TAG OF THE CABLE GLAND

2) FOR EARTHING POINT USE ONE OF THE FOLLOWING METHODS:
TYP. E03A-D sh. 004 (EARTHING BAR ON STRUCT. UNISTRUT AND CABLE TRAY)
TYP. E11C sh. 003 (EARTHING PLATE)
TYP. E11D sh. 003 (THREADED STUD ON EXTERNAL STRUCTURE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_I	07/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR ELECTRICAL EQUIPMENTS

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

A3 | DRAWING NO. 123A90-DDL-EL-DD-20090 | SHEET 006 | REV. 02

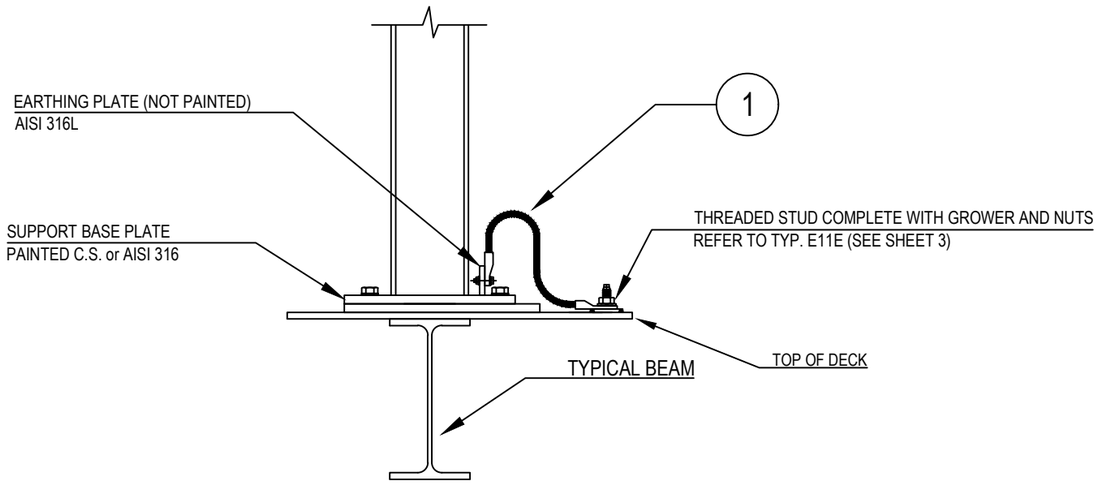
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

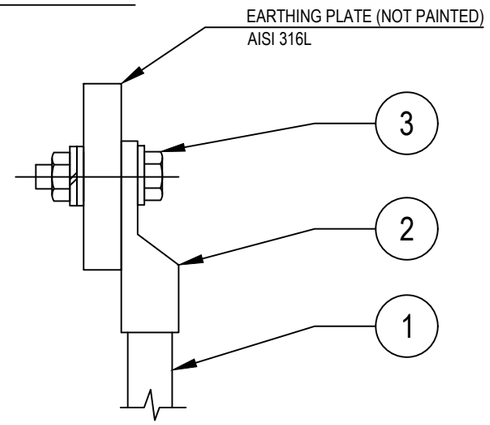
E24

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	As. R. Y/G INSULATING COPPER CONDUCTOR	COPPER	35mm^2		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	35mm^2	2	~~NOTE 1~~
3	HEXAG. BOLT M10X30 COMPLETE WITH PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M10X30	2	

GENERIC SUPPORT BOLTED ON STRUCTURE



DETAIL "X"



NOTES:
1) ~~CABLE LUG CRIMPING METHOD SHALL BE HEXAGONAL COMPRESSION DIES ONLY.~~
2) EXTERNAL EARTHING CONNECTION ONLY SHALL BE PROTECTED AGAINST CORROSION USING OXIDE RESISTANT COMPOUND (E.G. COPPER GREASE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_I	07/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR POLE/SUPPORT OF GENERIC EQUIPMENTS

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

A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–EL–DD–20090	012	02

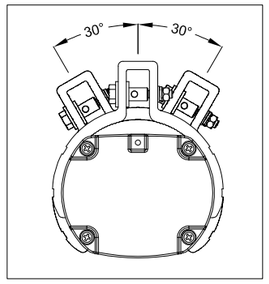
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 2
- Q.TY: 78
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

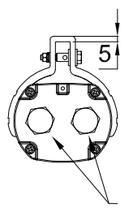
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



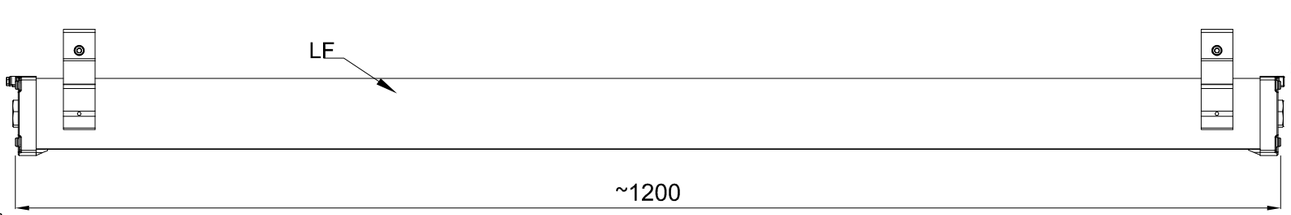
LF INFORMATION	
NOMINAL POWER	60W
CONSUMED POWER	40,9W
POWER FACTOR	>0,96
RATED CURRENT	185 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6218 lm
LIGHT INTENSITY	2191 cd
EFFICIENCY	152 lm/W
WEIGHT	3,5 Kg
IP PROTECTION	IP66
AUTONOMY	180 min
LUMEN EMERG. MODE	1168 lm

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-1260N-BB	110-277Vac 50-60Hz 60W (RED. TO 40W) LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

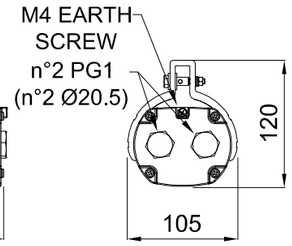
LEFT SIDE (OUT)



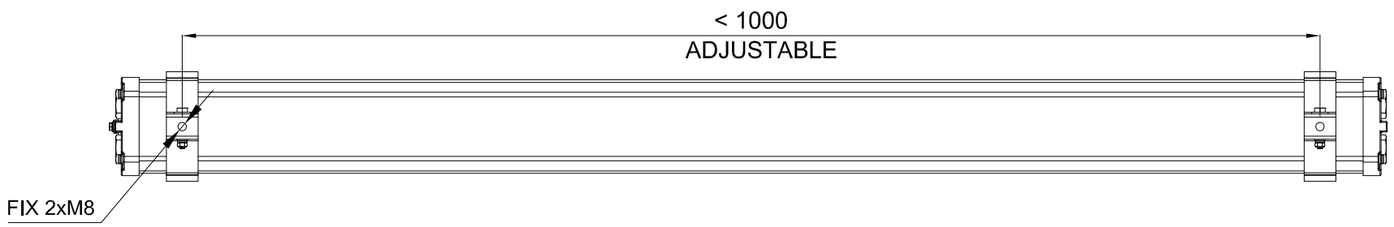
FRONT SIDE



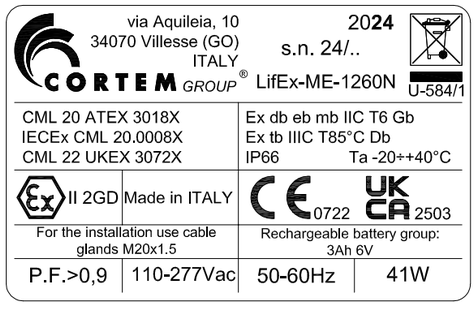
RIGHT SIDE (IN)



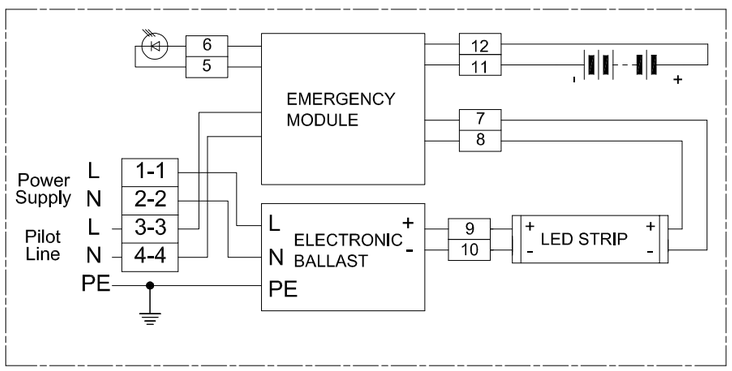
TOP SIDE



CERTIFICATE NAMEPLATE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
002 LIFEX-ME-1260N-BB/C2402693/20.

CORTEM JOB: COV2402693
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27521
SHEET 2 / NEXT /
TOT. 2

CORTEM GROUP
cortem
FONDISONZO
ELFIT

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AND IT CANNOT BE REPRODUCED WITHOUT CORTEM'S
AUTHORIZATION

Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	45W LED Linear Luminaire-Emergency Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-1260N-BB		01
4	Serial Number	by vendor			00
5	Quantity	78 Nos.	78 Nos	(69+9 Spare)	01
6	Location / Module	Lower deck/Upper deck/ Below lower deck			00
7	**LED Lamp**				
8	Nominal power	45 watts	60 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Required			00
25	Battery type	NiCd internal battery, gas-tight	Ni/Mh		01
26	Autonomy	180 mins.	180 min		01
27	Emergency luminous flux	1168 lm	1168 lm		01
28	**Mechanical parameters**				
29	Dimension	by vendor	1200x105x120 (mm)		01
30	Weight	by vendor	4.5kg		01

Note:

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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	ELF-200N1-10-L3-02	: EMERGENCY LIGHT			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	UD
TASK	code	C10001320		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

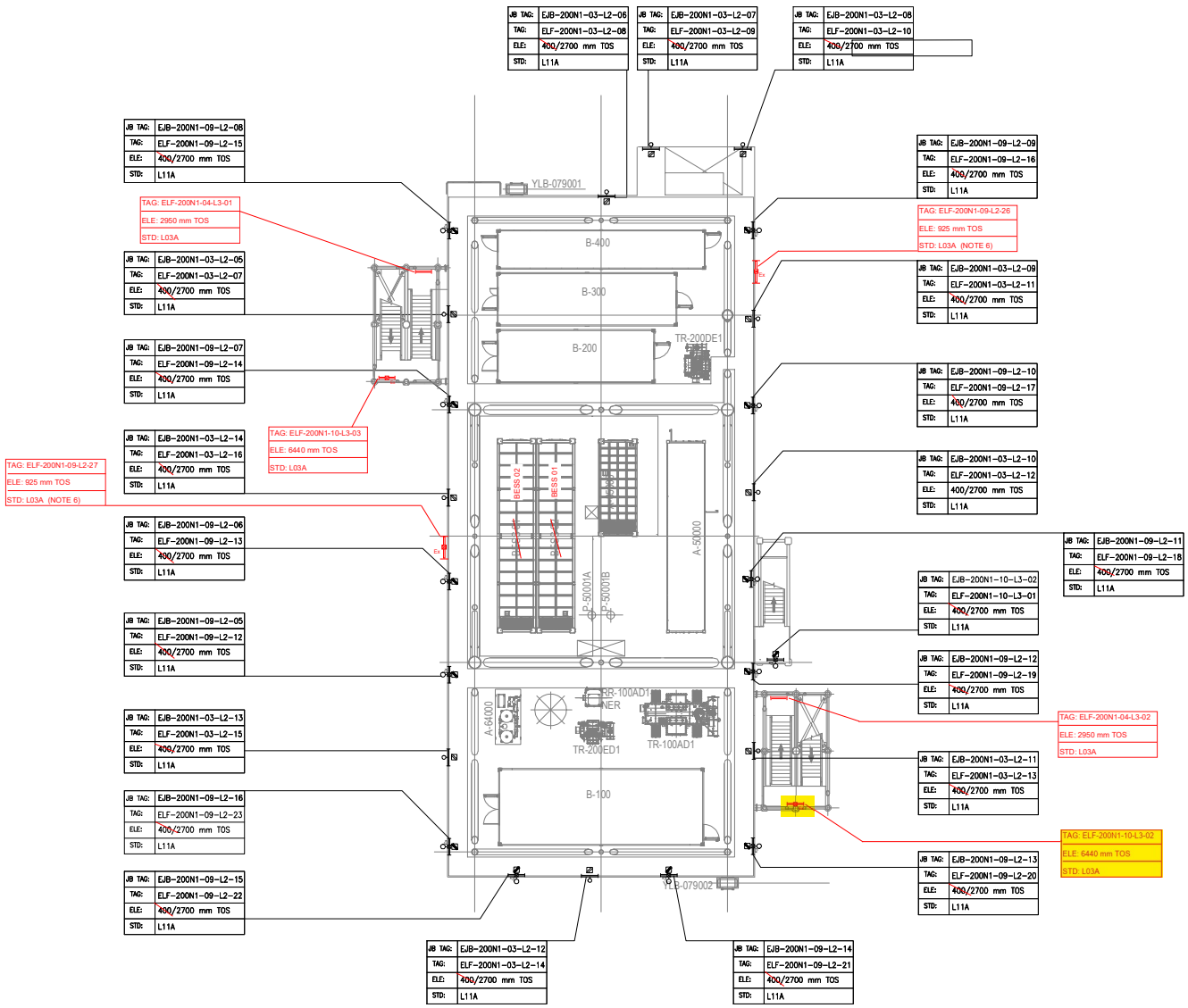
1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	OK
3	Check equipment is undamaged and correcly tagged.	OK
4	Check nameplate data is correct.	OK
5	Check all bolts are fitted and all unused entries are suitably plugged.	OK
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	OK
8	Check items are properly fixed on support.	OK
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

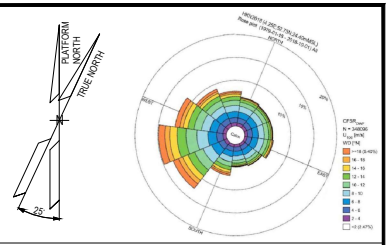
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Paolo Schintu	
Date	2025-01-21	2025-01-24	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-21T16:14:11.234Z	PROVERLIS Digitaly signed by Paolo Schintu 2025-01-24T17:40:30.250Z	

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

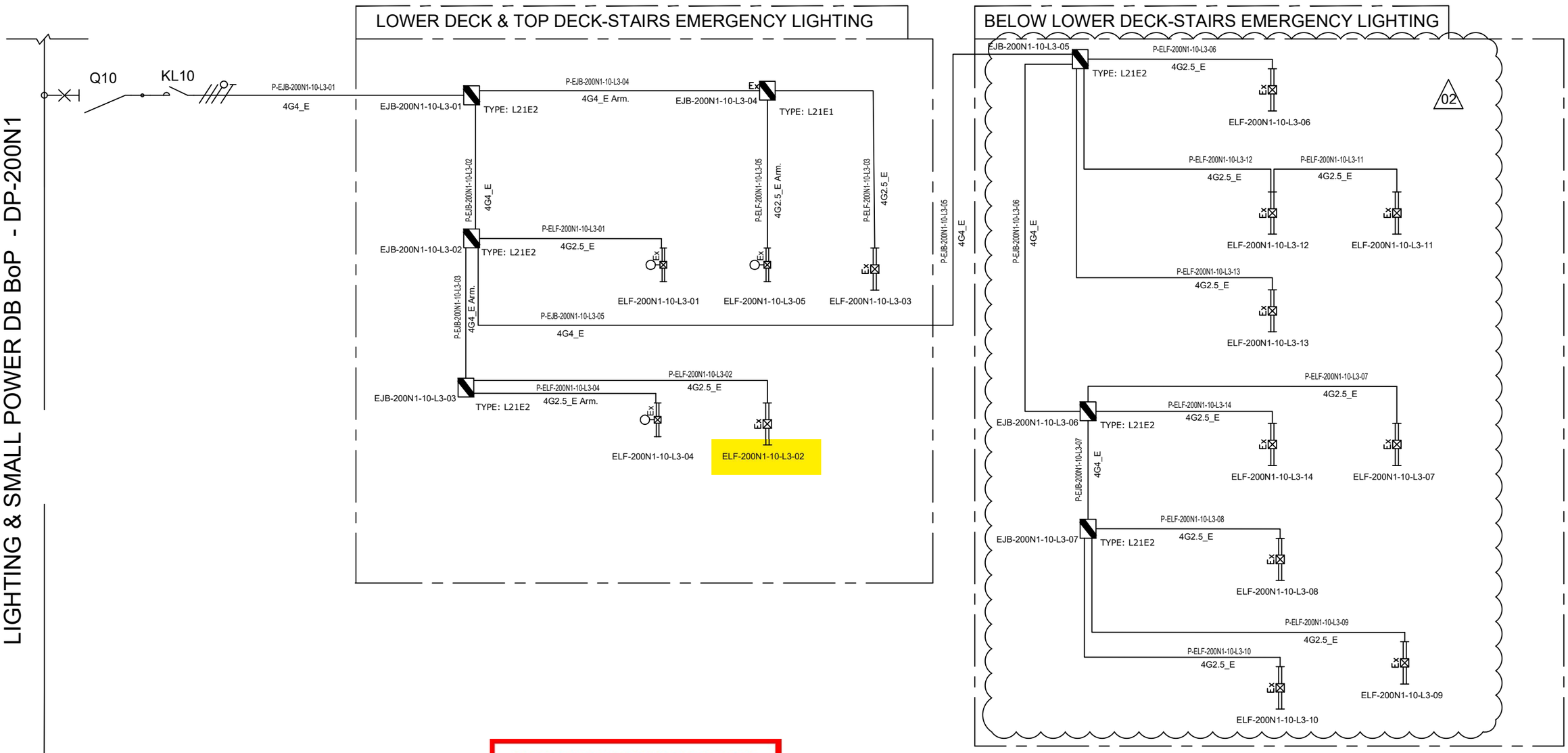
ROSETTI MARINO

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

LIGHTING & SMALL POWER DB BoP - DP-200N1



NOTE:	
ELF-200N1-10-L3-01	LOWER DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-02	
ELF-200N1-10-L3-03	
ELF-200N1-10-L3-04	TOP DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-05	

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

REV.:	DATE:	SIGNATURE:
2_G	16/01/25	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
		ELF-200N1-10-L3-09			
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
STAIRS EMERGENCY LIGHTING (LOWER DECK,TOP DECK AND BELOW LOWER DECK)

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	007	02

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

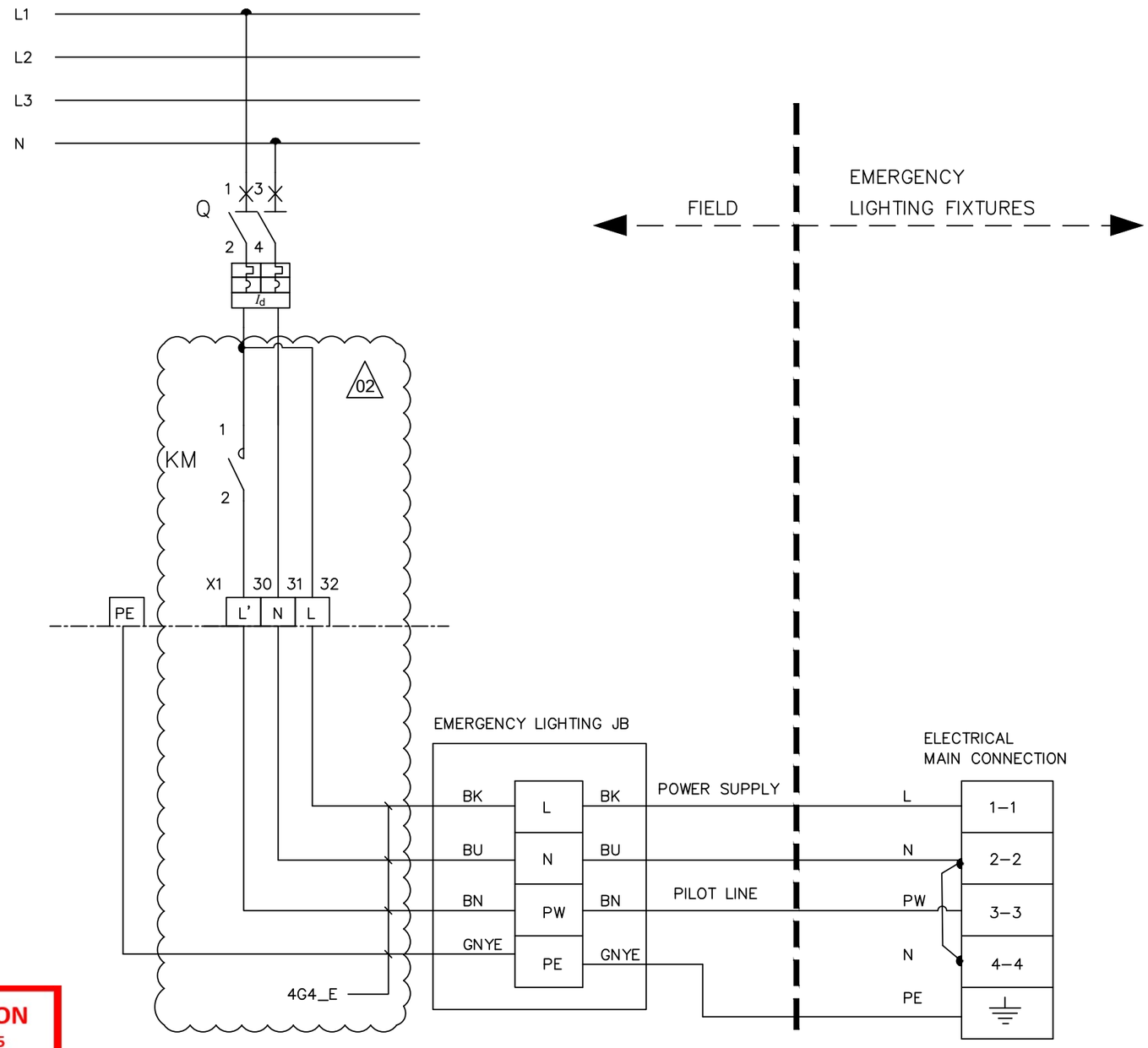
F.to UNI A3: 420mmx297mm

DP–200N1

FOR EMERGENCY LIGHTING

INTERNAL BUS BAR 400V–230V / 50Hz

EMERGENCY LIGHTS WIRING DIAGRAM



L – POWER SUPPLY

N – NEUTRAL

PW – PILOT LINE

PE – PROTECTIVE EARTH

BN – BROWN (L')

BK – BLACK (L)

BU – BLUE (N)

GNYE – GREEN/YELLOW (PE)

VALID FOR CONSTRUCTION

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

REV.:	DATE:	SIGNATURE:
2_G	16/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
EMERGENCY LIGHTS WIRING DIAGRAM

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

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

SHEET 014

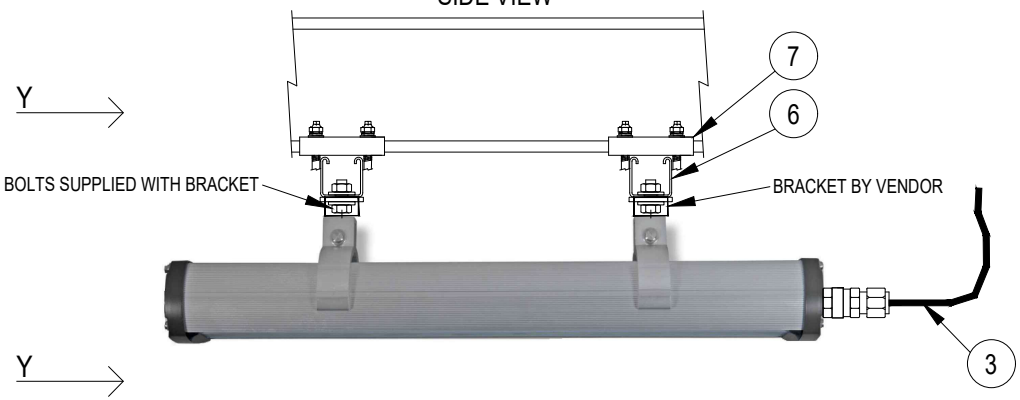
REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

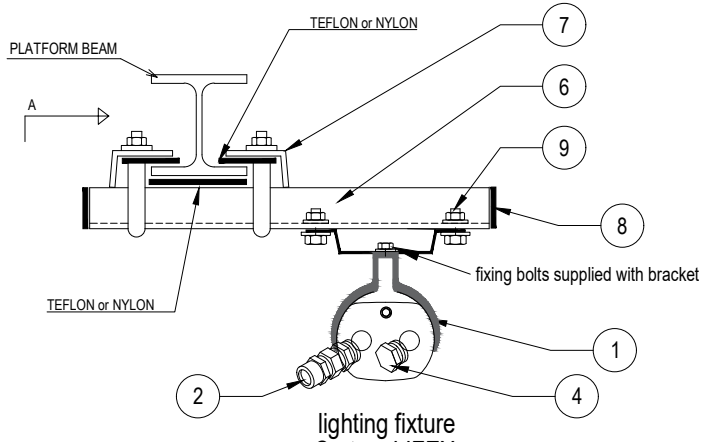
L03A

SIDE VIEW

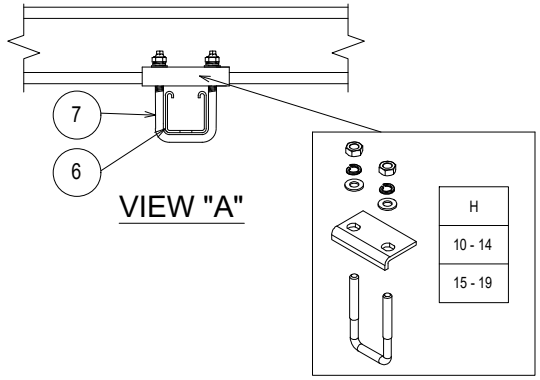


POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	LIGHITNG FIXTURE (Ex e) WITH LED LAMP	ALUMINIUM ALLOY		1	
2	CABLE GLAND (Ex) FOR ARMOURED/UNARMOURED CABLE	NICK.PL.BRASS		1	NOTE 2 NOTE 5
3	ARMOURED/UNARMOURED CABLE				NOTE 5
4	PLUG	NICK.PL.BRASS		AS REQ.	NOTE 3
6	SINGLE U-CHANNEL PERFORATED ON NO.3 SIDE	AISI 316L		AS REQ.	NOTE 1
7	SINGLE U-CHANNEL BEAM ATTACHMENT (10-14) OR (15-19) WITH COLLAR COMPLETE WITH HARDWARE	AISI 316L		4	NOTE 4
8	PLUG FOR U-CHANNEL	LPDE		4	
9	HEX. BOLT M8X16 WITH LARGE PLANE WASHER		M8x16	4	

SECTION "Y-Y"



lighting fixture
Cortem LIFEX



NOTES:

1) THE EXACT DIMENSIONS WILL BE DEFINED DURING ASSEMBLY PHASE.
2) CABLE GLAND COMPLETE WITH LOCKNUT, NYLON WASHER, SERRATED WASHER, EXTERNAL RUBBER RING AND EARTH TAG (IF NECESSARY).
3) UNUSED CABLE ENTRIES MUST BE CLOSED WITH NICKEL PLATED BRASS PLUG.
4) SINGLE U-CHANNEL BEAM ATTACHMENT (CLAMP) IS PRODUCED IN NO. 2 DIFFERENT SIZES (10-14 OR 15-19) SIZE REFERS TO THE THICKNESS OF THE BEAM WHERE THE CLAMP IS INSTALLED.
5) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–LIGHTING SYSTEM
FIXTURE SUSPENSION MOUNTED WITH CLAMPED SUPPORT

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

A3 | DRAWING NO. 123A90–DDL–EL–DD–20091 | SHEET 008 | REV. 02

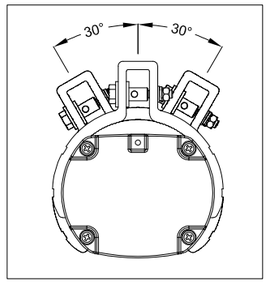
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 2
- Q.TY: 78
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

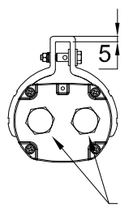
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



LF INFORMATION	
NOMINAL POWER	60W
CONSUMED POWER	40,9W
POWER FACTOR	>0,96
RATED CURRENT	185 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6218 lm
LIGHT INTENSITY	2191 cd
EFFICIENCY	152 lm/W
WEIGHT	3,5 Kg
IP PROTECTION	IP66
AUTONOMY	180 min
LUMEN EMERG. MODE	1168 lm

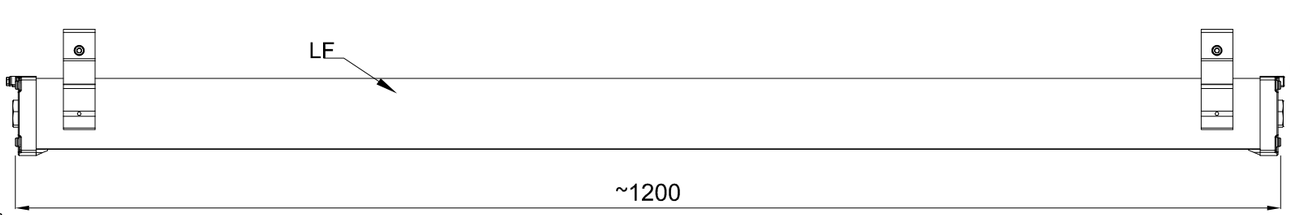
N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-1260N-BB	110-277Vac 50-60Hz 60W (RED. TO 40W) LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

LEFT SIDE (OUT)

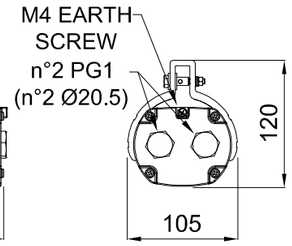


n°2 PG1
(n°2 Ø20.5)

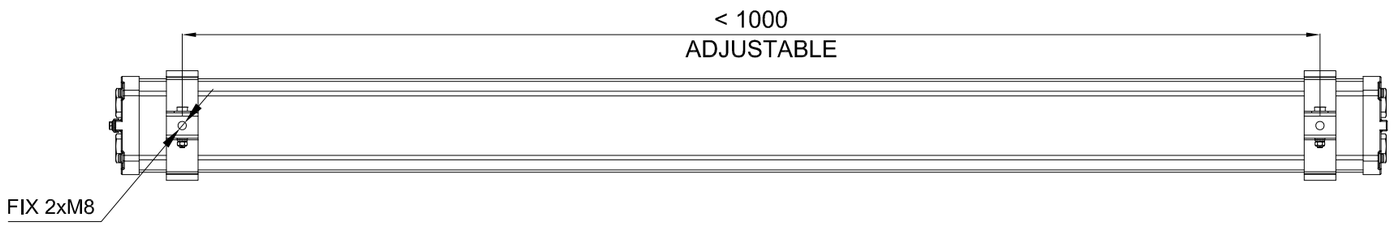
FRONT SIDE



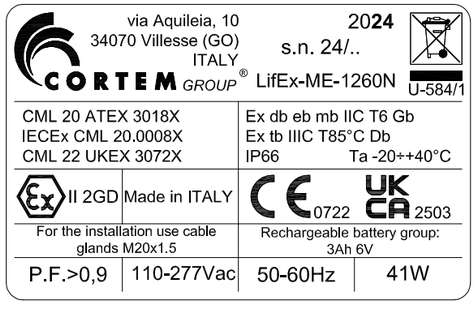
RIGHT SIDE (IN)



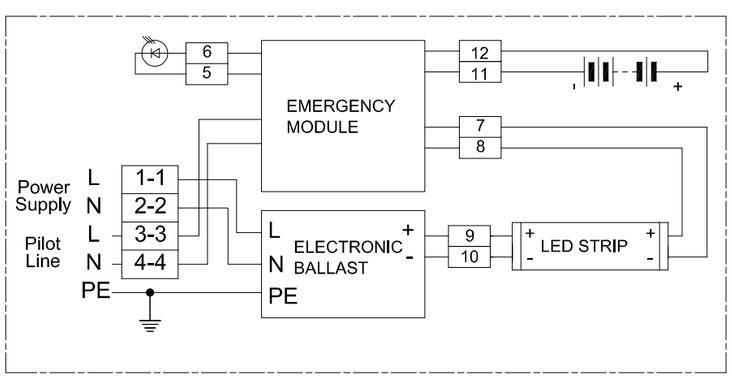
TOP SIDE



CERTIFICATE NAMEPLATE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
002 LIFEX-ME-1260N-BB/C2402693/20.

CORTEM JOB: COV2402693
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27521
SHEET 2 / TOT. 2
NEXT /

CORTEM GROUP
contem
FONDISONZO
ELFIT

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AUTHORIZATION

Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	45W LED Linear Luminaire-Emergency Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-1260N-BB		01
4	Serial Number	by vendor			00
5	Quantity	78 Nos.	78 Nos	(69+9 Spare)	01
6	Location / Module	Lower deck/Upper deck/ Below lower deck			00
7	**LED Lamp**				
8	Nominal power	45 watts	60 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Required			00
25	Battery type	NiCd internal battery, gas-tight	Ni/Mh		01
26	Autonomy	180 mins.	180 min		01
27	Emergency luminous flux	1168 lm	1168 lm		01
28	**Mechanical parameters**				
29	Dimension	by vendor	1200x105x120 (mm)		01
30	Weight	by vendor	4.5kg		01

Note:

This document undergoes an issuance cycle within EDMS "Fusionlive".
Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ROSETTI MARINO

CROSSWIND

ITEM	Tag	ELF-200N1-10-L3-03	: EMERGENCY LIGHT			Dwg	123A90-DDL-EL-DL-20118
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	UD
TASK	code	C10001321		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

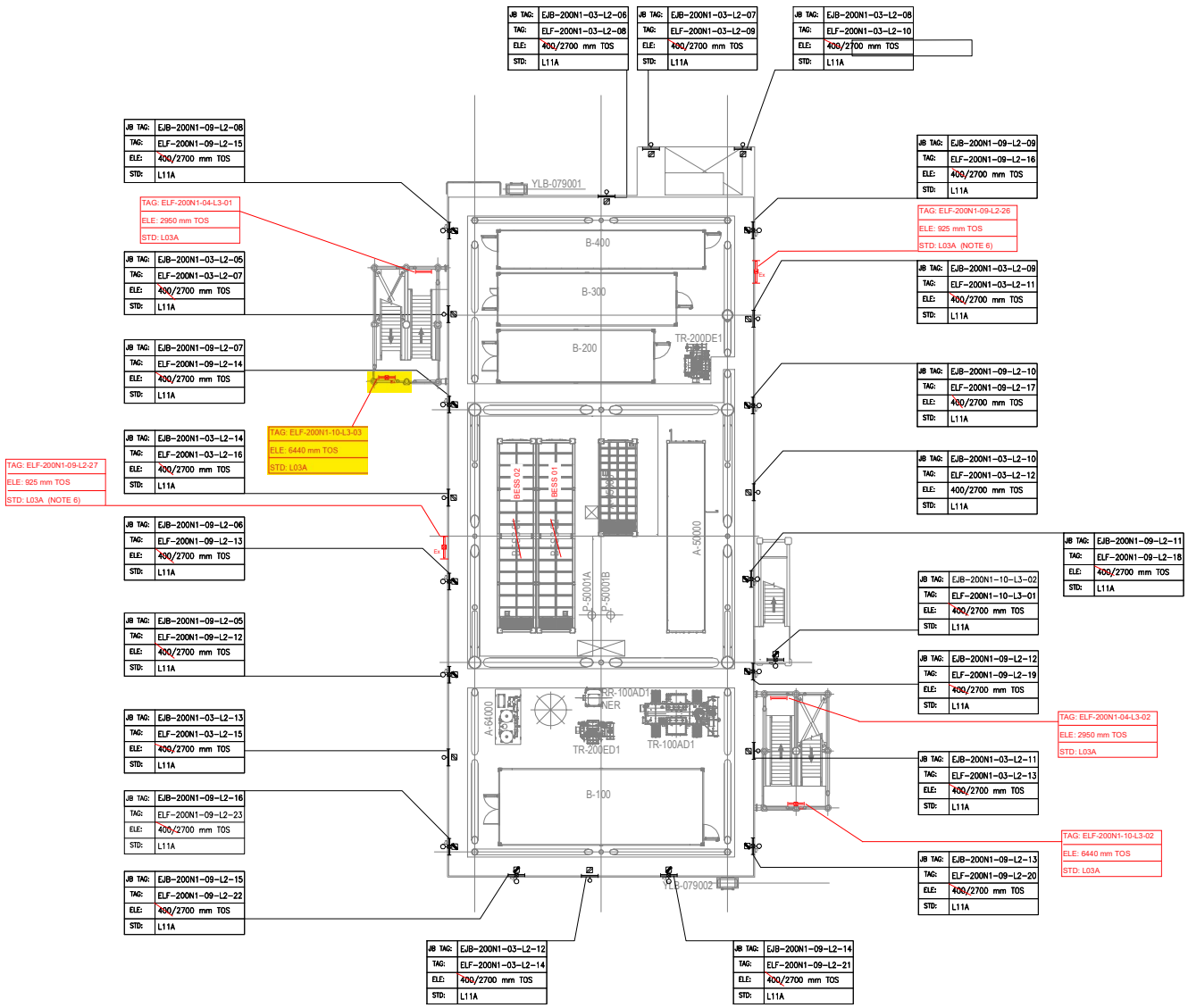
1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	OK
3	Check equipment is undamaged and correcly tagged.	OK
4	Check nameplate data is correct.	OK
5	Check all bolts are fitted and all unused entries are suitably plugged.	OK
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	OK
8	Check items are properly fixed on support.	OK
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

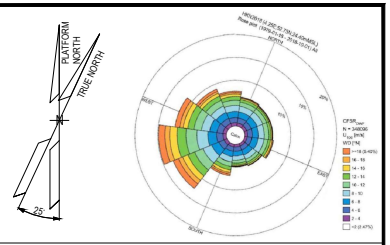
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Paolo Schintu	
Date	2025-01-23	2025-01-24	
Signature	Digitaly signed by Michele Tartaglia 2025-01-23T08:14:50.342Z	Digitaly signed by Paolo Schintu 2025-01-24T17:40:10.183Z	

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

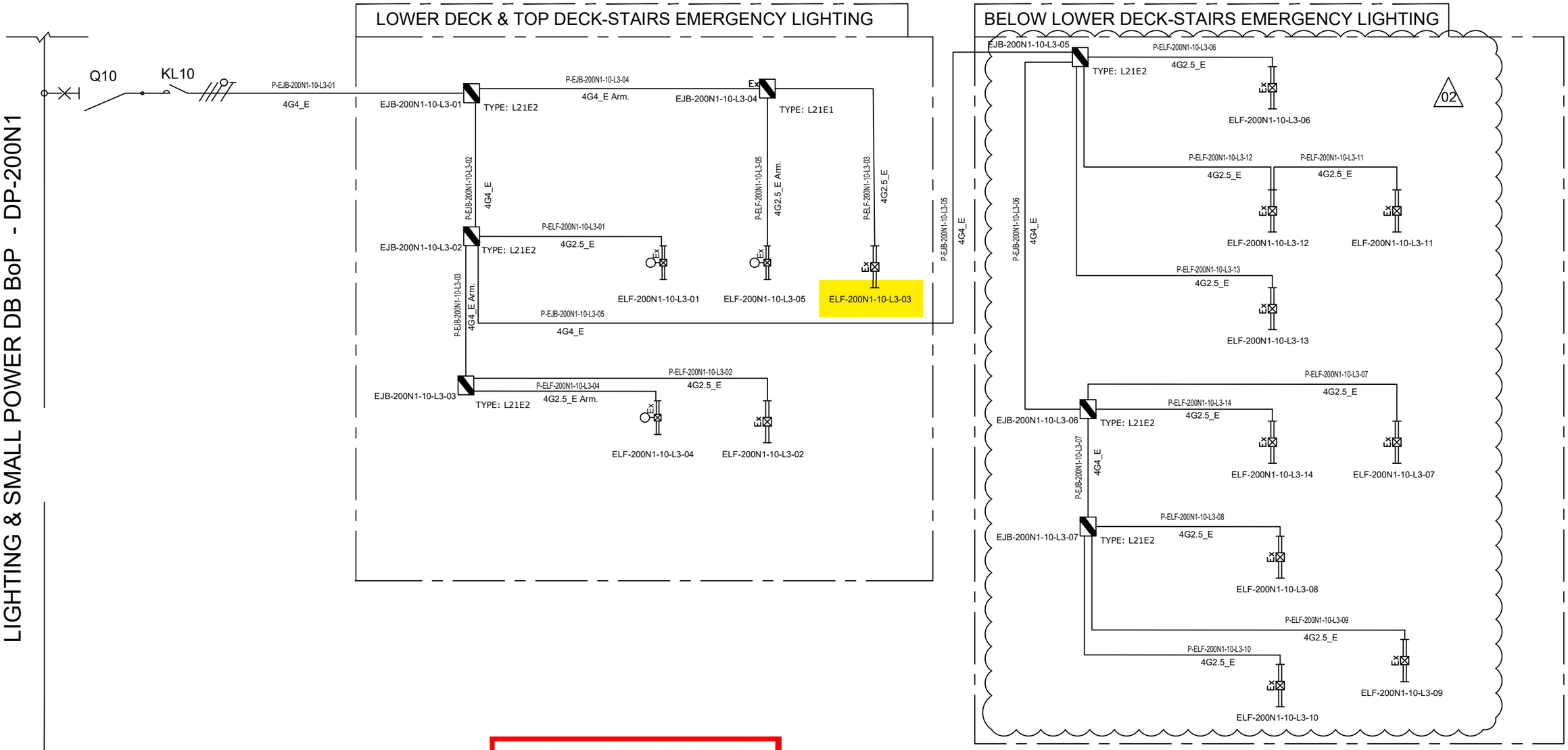
ROSETTI MARINO

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

LIGHTING & SMALL POWER DB BoP - DP-200N1



NOTE:	
ELF-200N1-10-L3-01	LOWER DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-02	
ELF-200N1-10-L3-03	
ELF-200N1-10-L3-04	TOP DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-05	

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

REV.:	DATE:	SIGNATURE:
2_G	16/01/25	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
		ELF-200N1-10-L3-09			
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
STAIRS EMERGENCY LIGHTING (LOWER DECK,TOP DECK AND BELOW LOWER DECK)

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	007	02

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

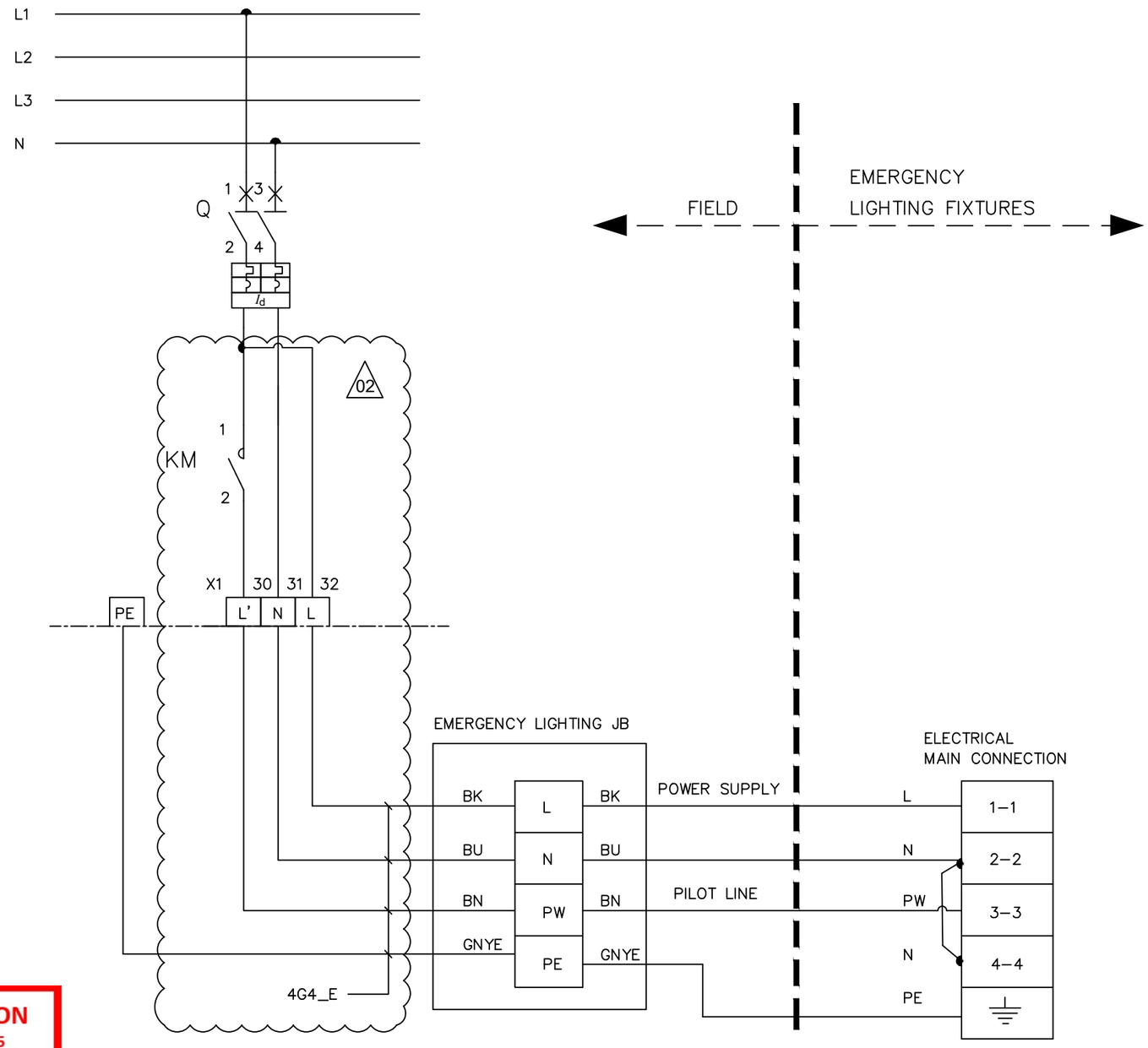
F.to UNI A3: 420mmx297mm

DP–200N1

FOR EMERGENCY LIGHTING

INTERNAL BUS BAR 400V–230V / 50Hz

EMERGENCY LIGHTS WIRING DIAGRAM



L – POWER SUPPLY

N – NEUTRAL

PW – PILOT LINE

PE – PROTECTIVE EARTH

BN – BROWN (L')

BK – BLACK (L)

BU – BLUE (N)

GNYE – GREEN/YELLOW (PE)

VALID FOR CONSTRUCTION

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

REV.:	DATE:	SIGNATURE:
2_G	16/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
EMERGENCY LIGHTS WIRING DIAGRAM

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

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

SHEET 014

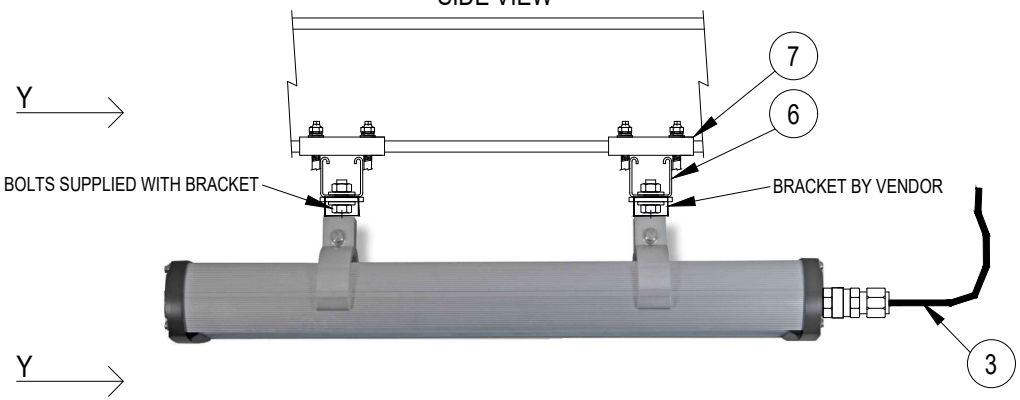
REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

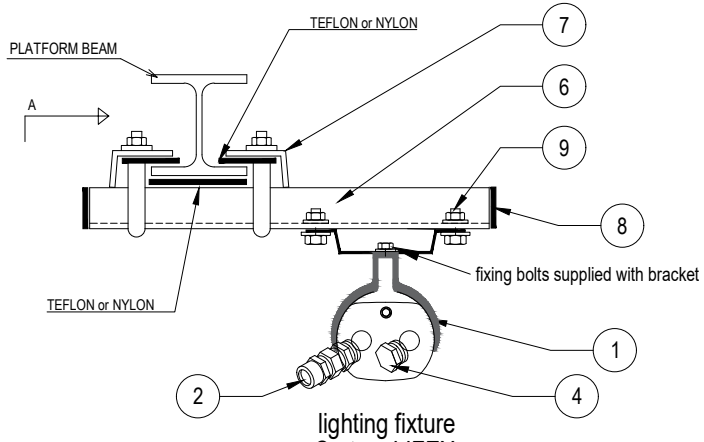
L03A

SIDE VIEW

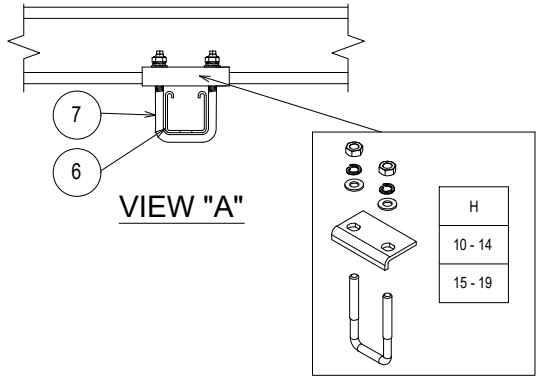


POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	LIGHITNG FIXTURE (Ex e) WITH LED LAMP	ALUMINIUM ALLOY		1	
2	CABLE GLAND (Ex) FOR ARMOURED/UNARMOURED CABLE	NICK.PL.BRASS		1	NOTE 2 NOTE 5
3	ARMOURED/UNARMOURED CABLE				NOTE 5
4	PLUG	NICK.PL.BRASS		AS REQ.	NOTE 3
6	SINGLE U-CHANNEL PERFORATED ON NO.3 SIDE	AISI 316L		AS REQ.	NOTE 1
7	SINGLE U-CHANNEL BEAM ATTACHMENT (10-14) OR (15-19) WITH COLLAR COMPLETE WITH HARDWARE	AISI 316L		4	NOTE 4
8	PLUG FOR U-CHANNEL	LPDE		4	
9	HEX. BOLT M8X16 WITH LARGE PLANE WASHER		M8x16	4	

SECTION "Y-Y"



lighting fixture
Cortem LIFEX



NOTES:

1) THE EXACT DIMENSIONS WILL BE DEFINED DURING ASSEMBLY PHASE.
2) CABLE GLAND COMPLETE WITH LOCKNUT, NYLON WASHER, SERRATED WASHER, EXTERNAL RUBBER RING AND EARTH TAG (IF NECESSARY).
3) UNUSED CABLE ENTRIES MUST BE CLOSED WITH NICKEL PLATED BRASS PLUG.
4) SINGLE U-CHANNEL BEAM ATTACHMENT (CLAMP) IS PRODUCED IN NO. 2 DIFFERENT SIZES (10-14 OR 15-19) SIZE REFERS TO THE THICKNESS OF THE BEAM WHERE THE CLAMP IS INSTALLED.
5) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–LIGHTING SYSTEM
FIXTURE SUSPENSION MOUNTED WITH CLAMPED SUPPORT

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

A3 | DRAWING NO. 123A90–DDL–EL–DD–20091 | SHEET 008 | REV. 02

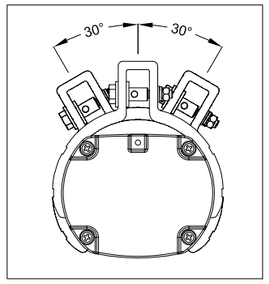
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 2
- Q.TY: 78
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

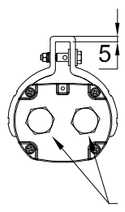
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



LF INFORMATION	
NOMINAL POWER	60W
CONSUMED POWER	40,9W
POWER FACTOR	>0,96
RATED CURRENT	185 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6218 lm
LIGHT INTENSITY	2191 cd
EFFICIENCY	152 lm/W
WEIGHT	3,5 Kg
IP PROTECTION	IP66
AUTONOMY	180 min
LUMEN EMERG. MODE	1168 lm

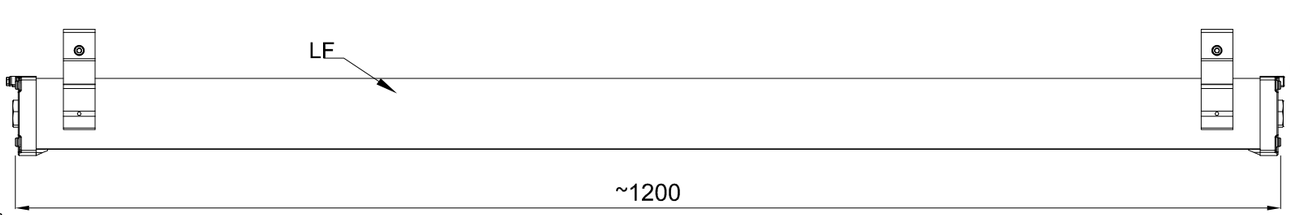
N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-1260N-BB	110-277Vac 50-60Hz 60W (RED. TO 40W) LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

LEFT SIDE (OUT)

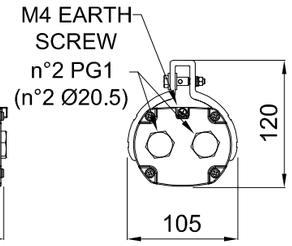


n°2 PG1
(n°2 Ø20.5)

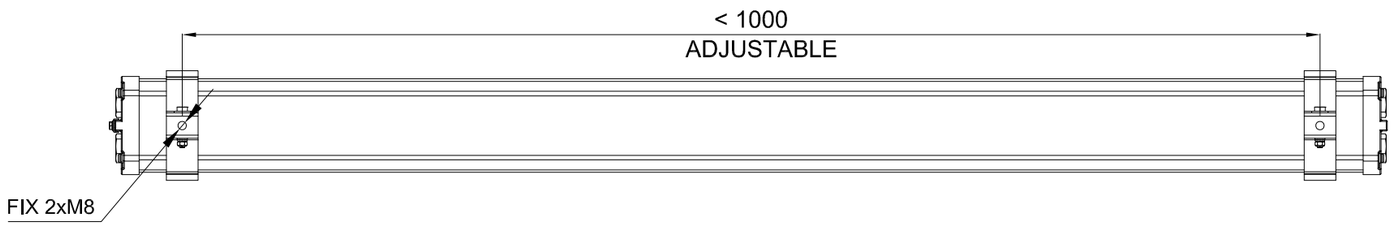
FRONT SIDE



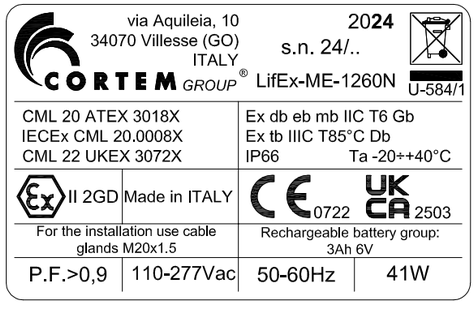
RIGHT SIDE (IN)



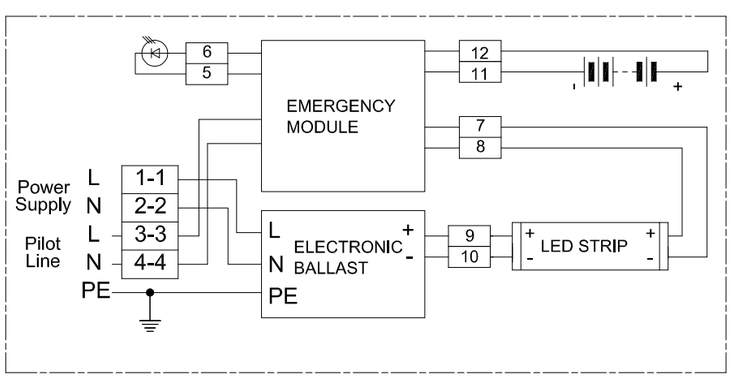
TOP SIDE



CERTIFICATE NAMEPLATE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
002 LIFEX-ME-1260N-BB/C2402693/20.

CORTEM JOB: COV2402693
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27521
SHEET 2 / TOT. 2
NEXT /

CORTEM GROUP
contem
FONDISONZO
ELFIT

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AND IT CANNOT BE REPRODUCED WITHOUT CORTEM'S
AUTHORIZATION

Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	45W LED Linear Luminaire-Emergency Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-1260N-BB		01
4	Serial Number	by vendor			00
5	Quantity	78 Nos.	78 Nos	(69+9 Spare)	01
6	Location / Module	Lower deck/Upper deck/ Below lower deck			00
7	**LED Lamp**				
8	Nominal power	45 watts	60 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Required			00
25	Battery type	NiCd internal battery, gas-tight	Ni/Mh		01
26	Autonomy	180 mins.	180 min		01
27	Emergency luminous flux	1168 lm	1168 lm		01
28	**Mechanical parameters**				
29	Dimension	by vendor	1200x105x120 (mm)		01
30	Weight	by vendor	4.5kg		01

Note:

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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ITEM	Tag	ELF-200N1-10-L3-06	: EMERGENCY LIGHT			Dwg	123A90-DDL-EL-DL-20120
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	TP
TASK	code	C10001322		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

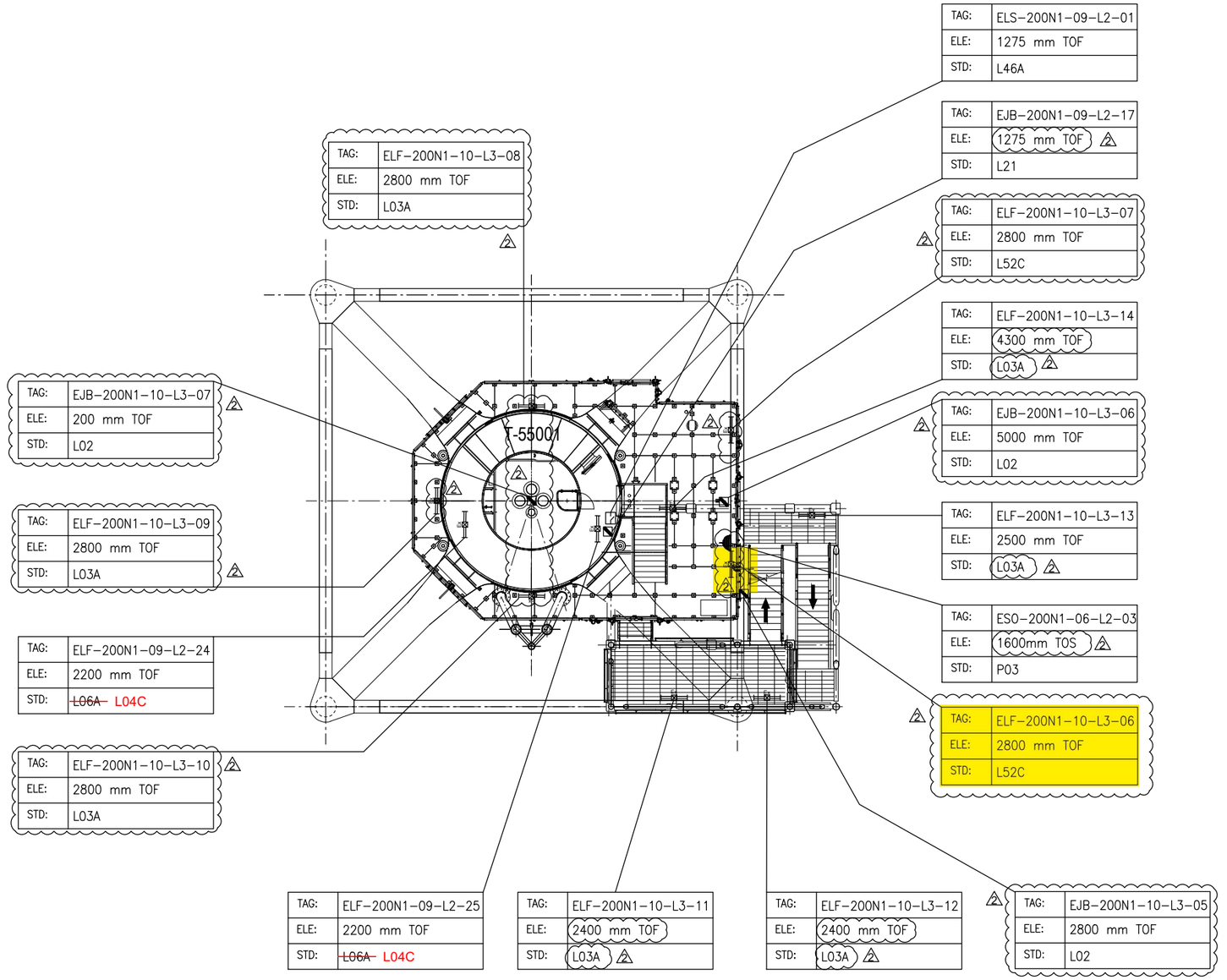
1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	OK
3	Check equipment is undamaged and correcly tagged.	PL
4	Check nameplate data is correct.	OK
5	Check all bolts are fitted and all unused entries are suitably plugged.	OK
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	OK
8	Check items are properly fixed on support.	OK
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

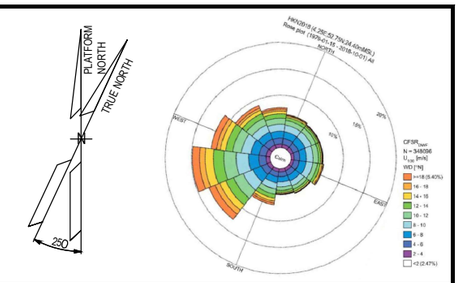
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	VIP	RM(ROSETTI MARINO)	
Name	Madhankumar Arunagiri	Giovanni Tangianu	
Date	2025-04-18	2025-04-29	
Signature	PROVERLIS Digitaly signed by Madhankumar Arunagiri 2025-04-18T06:12:10.453Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2025-04-29T12:31:00.591Z	

DRAWING NO. 123A90-DDL-EL-DL-20120

REV. 02



PLAN ON EXISTING PLATFORM AT EL.+16.860 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S / T.O.F.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. ELEVATION OR STANDARD PRESENT IN THE MASK, WHERE JB AND FIXTURE ARE SHOWN, ARE RELATIVE TO THE ORDER OF THE TAGS, 1°ROW JB AND 2°ROW FIXTURE = ELEVATION JB / ELEVATION FIXTURE.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- SMALL POWER SOCKET WITH INTEGRATED JB
- LOCAL SWITCH IP66 TYPE

JB TAG:	JB–TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

T.O.S TOP OF STEEL
T.O.F TOP OF FOOTING (Walkway plan)

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20120**

REV.:	DATE:	SIGNATURE:
2_B	27/01/25	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-EL-DL-20102	ELECTRICAL EQUIPMENT LAYOUT - TRANSITION PIECE
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-PP-DL-70070	BASE LOAD POWER HUB (BLPH) - PLOT PLAN - LOWER AND UPPER DECK
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
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	04/06/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

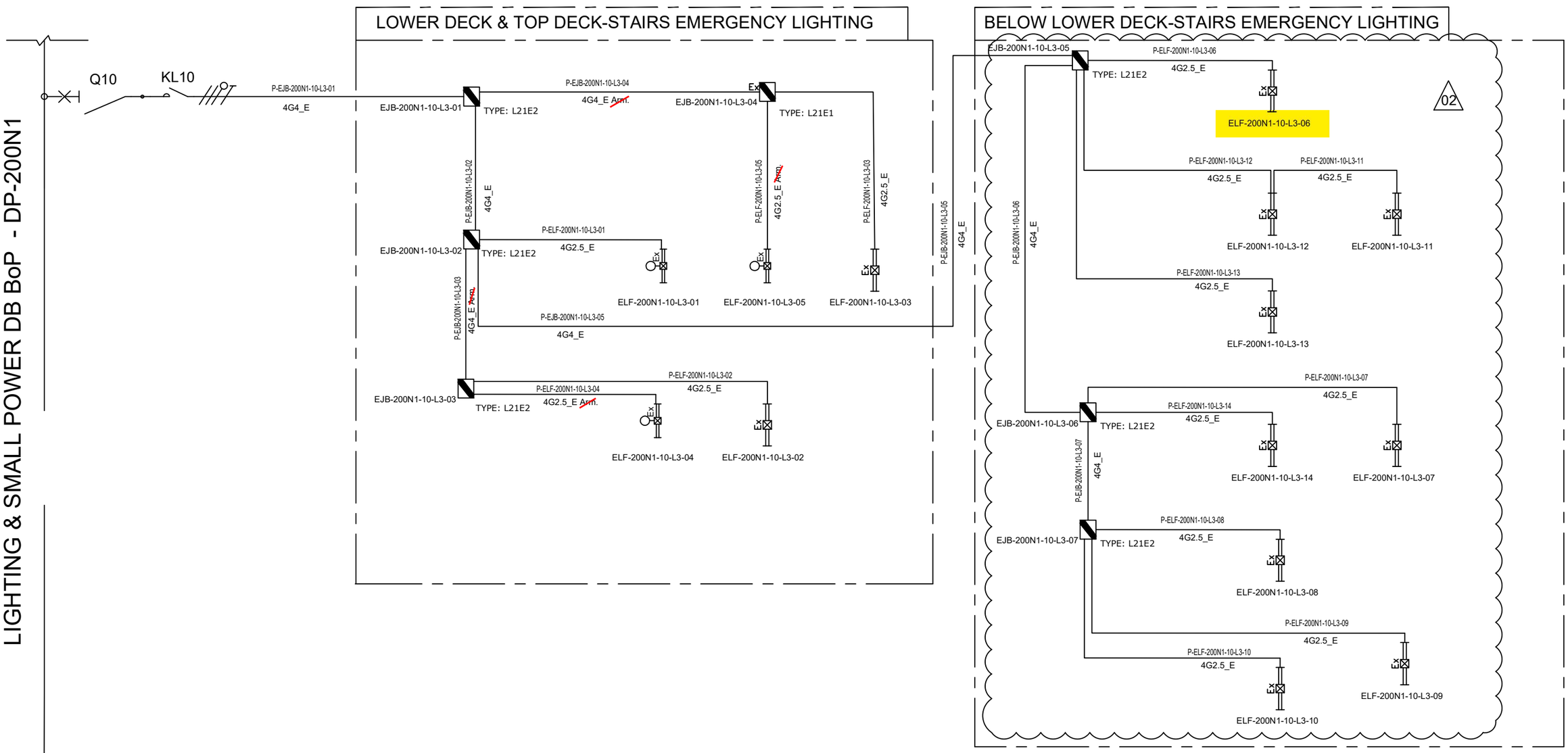
ROSETTI MARINO

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

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:100
DRAWN AMA	CHECKED CGI	APPROVED DLO	DATE 07/10/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20120	SHEET 001	REV. 02

File Name : 123A90-DDL-EL-DL-20120

LIGHTING & SMALL POWER DB BoP - DP-200N1



NOTE:	
ELF-200N1-10-L3-01	LOWER DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-02	
ELF-200N1-10-L3-03	
ELF-200N1-10-L3-04	TOP DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-05	

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

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

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
			ELF-200N1-10-L3-09		
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
STAIRS EMERGENCY LIGHTING (LOWER DECK,TOP DECK AND BELOW LOWER DECK)

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

SCALE : NTS

A3

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

SHEET 007

REV. 02

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

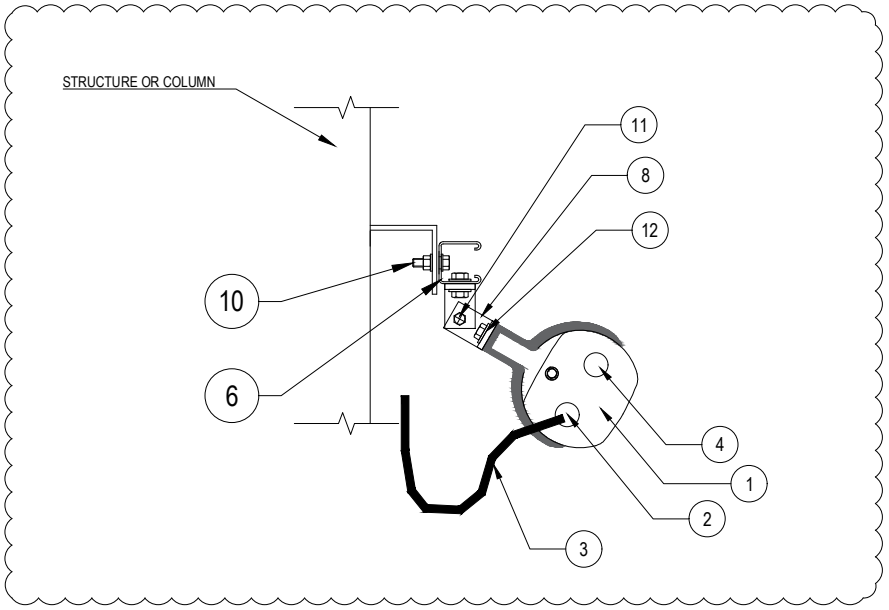
F.to UNI A3: 420mmx297mm

L52C

02

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	LIGHTING FIXT. (EX) WITH LED LAMP	ALUMINIUM ALLOY		1	
2	CABLE GLAND FOR ARM/UNARMOURED CABLE				NOTE 2 NOTE 4
3	ARMOURED/UNARMOURED CABLE				NOTE 4
4	PLUG	NICK.PL.BRASS			NOTE 3
5	CABLE TRAY WITH COVER	AISI 316L	50X50	2	
6	SINGLE U-CHANNEL PERFORATED ON NO.3 SIDE	AISI 316L		AS REQ.	NOTE 1
8	PLUG FOR U-CHANNEL	LPDE		12	
9	PLATE FOR ORTOGONAL CONNECTION WITH 2 HOLES	AISI 316L		4	
10	BOLT M10X40 COMPLETE WITH PLANE WASHERS, GROWER SPRING WASHER AND NUT	AISI 316L		8	
11	HEX. BOLT M10X30 WITH PLANE WASHER AND NUT FOR CHANNEL WITH SPRING	AISI 316L		4	
12	HEX. BOLT M8X16 WITH LARGE PLANE WASHER	AISI 316L		2	

02



NOTES:

1) THE EXACT DIMENSIONS WILL BE DEFINED DURING ASSEMBLY FASE.
2) CABLE GLAND COMPLETE WITH LOCKNUT, NYLON WASHER, SERRATED WASHER, EXTERNAL RUBBER RING AND EARTH TAG (IF NECESSARY).
3) UNUSED CABLE ENTRIES MUST BE CLOSED WITH NICKEL PLATED BRASS PLUG.
4) FOR LAMPS IN HAZARDOUS AREA, USE ARMORED CABLE, DOUBLE CABLE GLAND AND EX JUNCTION BOX.

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON STRUCTURES AND COLUMNS

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

A3 | DRAWING NO. 123A90–DDL–EL–DD–20091 | SHEET 016 | REV. 02

CROSSWIND

ROSETTI MARINO

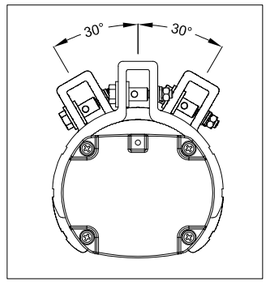
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 2
- Q.TY: 78
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

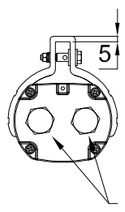
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



LF INFORMATION	
NOMINAL POWER	60W
CONSUMED POWER	40,9W
POWER FACTOR	>0,96
RATED CURRENT	185 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6218 lm
LIGHT INTENSITY	2191 cd
EFFICIENCY	152 lm/W
WEIGHT	3,5 Kg
IP PROTECTION	IP66
AUTONOMY	180 min
LUMEN EMERG. MODE	1168 lm

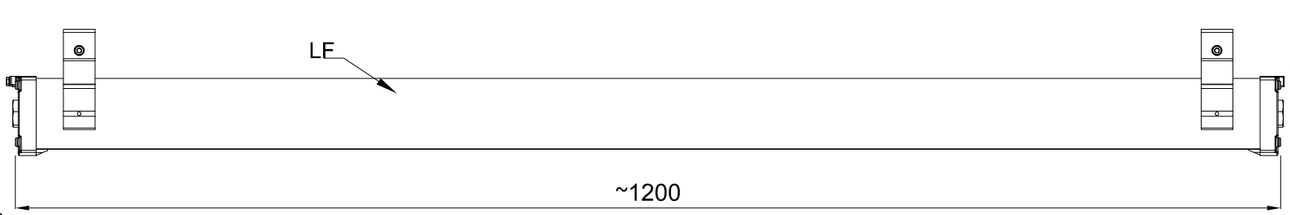
N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-1260N-BB	110-277Vac 50-60Hz 60W (RED. TO 40W) LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

LEFT SIDE (OUT)

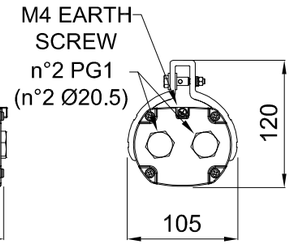


n°2 PG1
(n°2 Ø20.5)

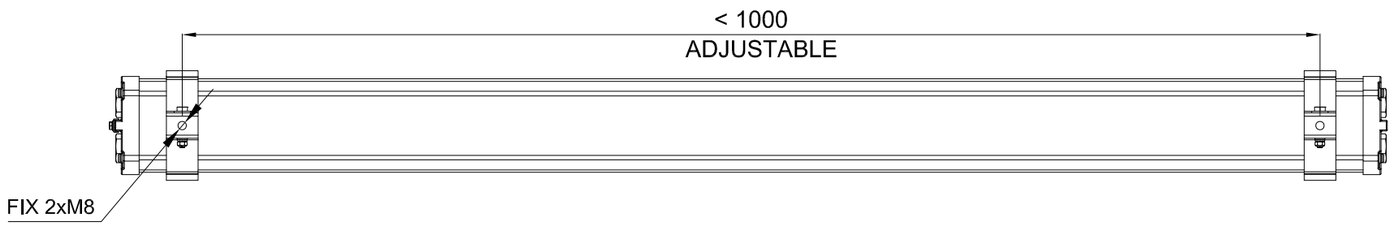
FRONT SIDE



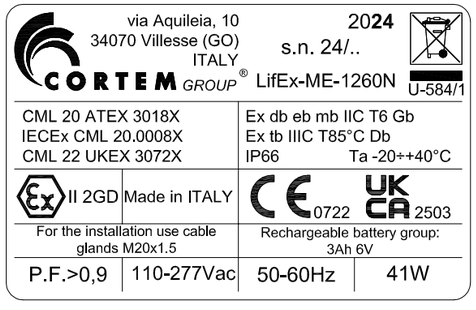
RIGHT SIDE (IN)



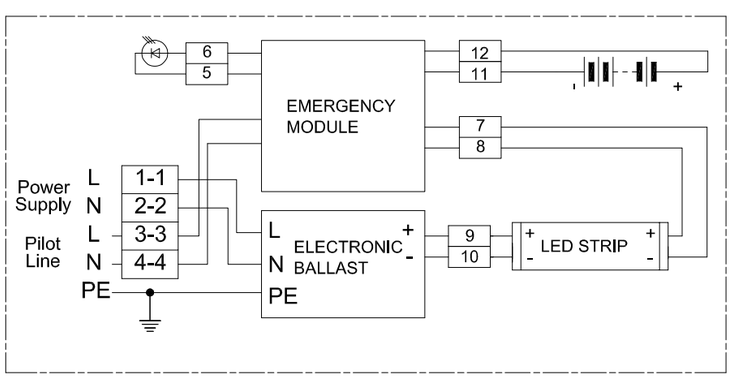
TOP SIDE



CERTIFICATE NAMEPLATE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
002 LIFEX-ME-1260N-BB/C2402693/20.

CORTEM JOB: COV2402693
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27521
SHEET 2 / TOT. 2
NEXT /

CORTEM GROUP
contem
FONDISONZO
ELFIT

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AUTHORIZATION

Smart Professional R. 2012

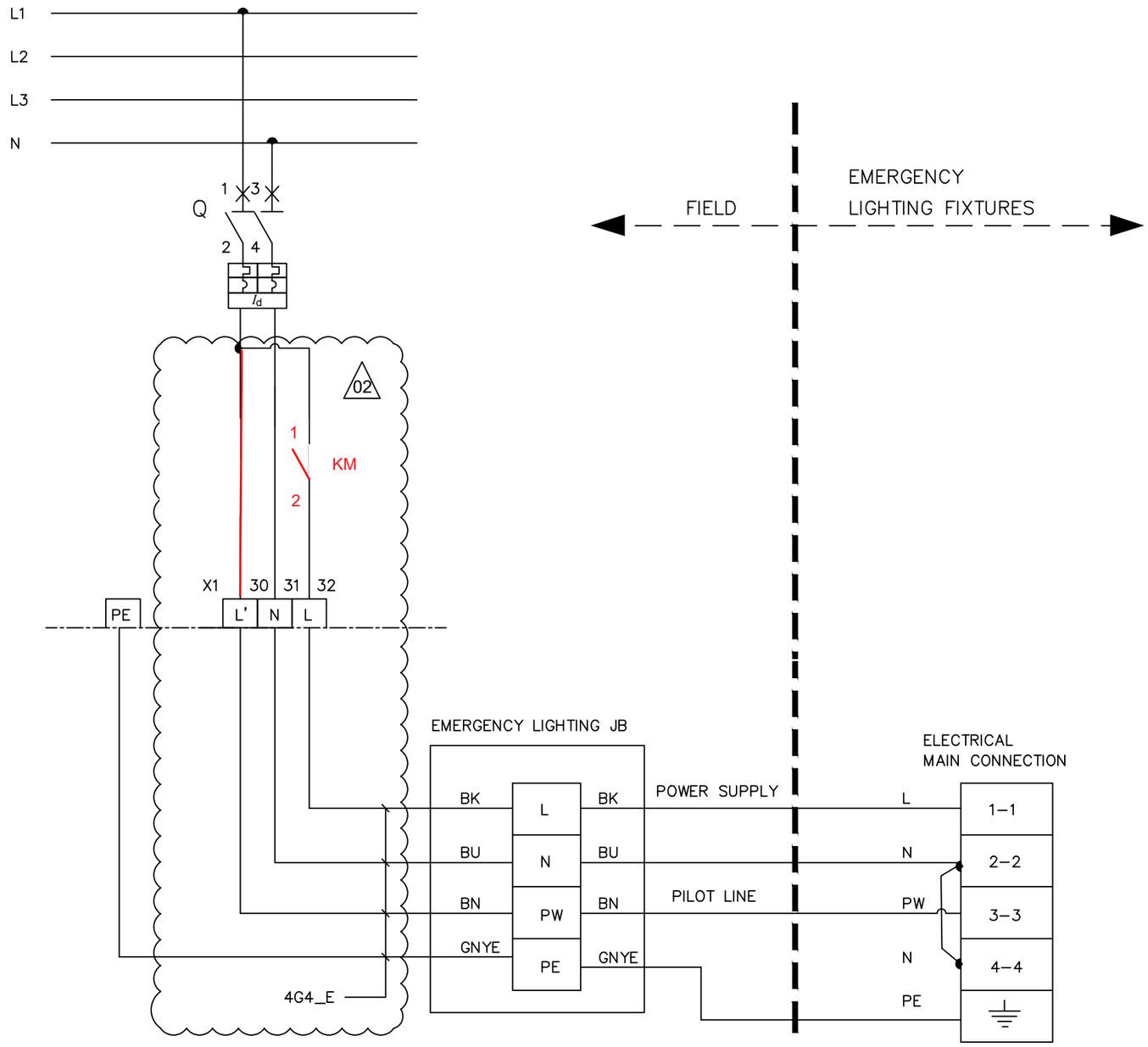
Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	45W LED Linear Luminaire-Emergency Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-1260N-BB		01
4	Serial Number	by vendor			00
5	Quantity	78 Nos.	78 Nos	(69+9 Spare)	01
6	Location / Module	Lower deck/Upper deck/ Below lower deck			00
7	**LED Lamp**				
8	Nominal power	45 watts	60 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Required			00
25	Battery type	NiCd internal battery, gas-tight	Ni/Mh		01
26	Autonomy	180 mins.	180 min		01
27	Emergency luminous flux	1168 lm	1168 lm		01
28	**Mechanical parameters**				
29	Dimension	by vendor	1200x105x120 (mm)		01
30	Weight	by vendor	4.5kg		01

Note:

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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

EMERGENCY LIGHTS WIRING DIAGRAM

DP–200N1
FOR EMERGENCY LIGHTING
INTERNAL BUS BAR 400V–230V / 50Hz



L – POWER SUPPLY
N – NEUTRAL
PW – PILOT LINE
PE – PROTECTIVE EARTH
BN – BROWN (L')
BK – BLACK (L)
BU – BLUE (N)
GNYE – GREEN/YELLOW (PE)

02

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
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
EMERGENCY LIGHTS WIRING DIAGRAM

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

A3 | DRAWING NO. 123A90–DDL–EL–DG–20125 | SHEET 014 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

ITEM	Tag	ELF-200N1-10-L3-05	: EMERGENCY LIGHT			Dwg	123A90-DDL-EL-DL-20120
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	UD
TASK	code	C10001323		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

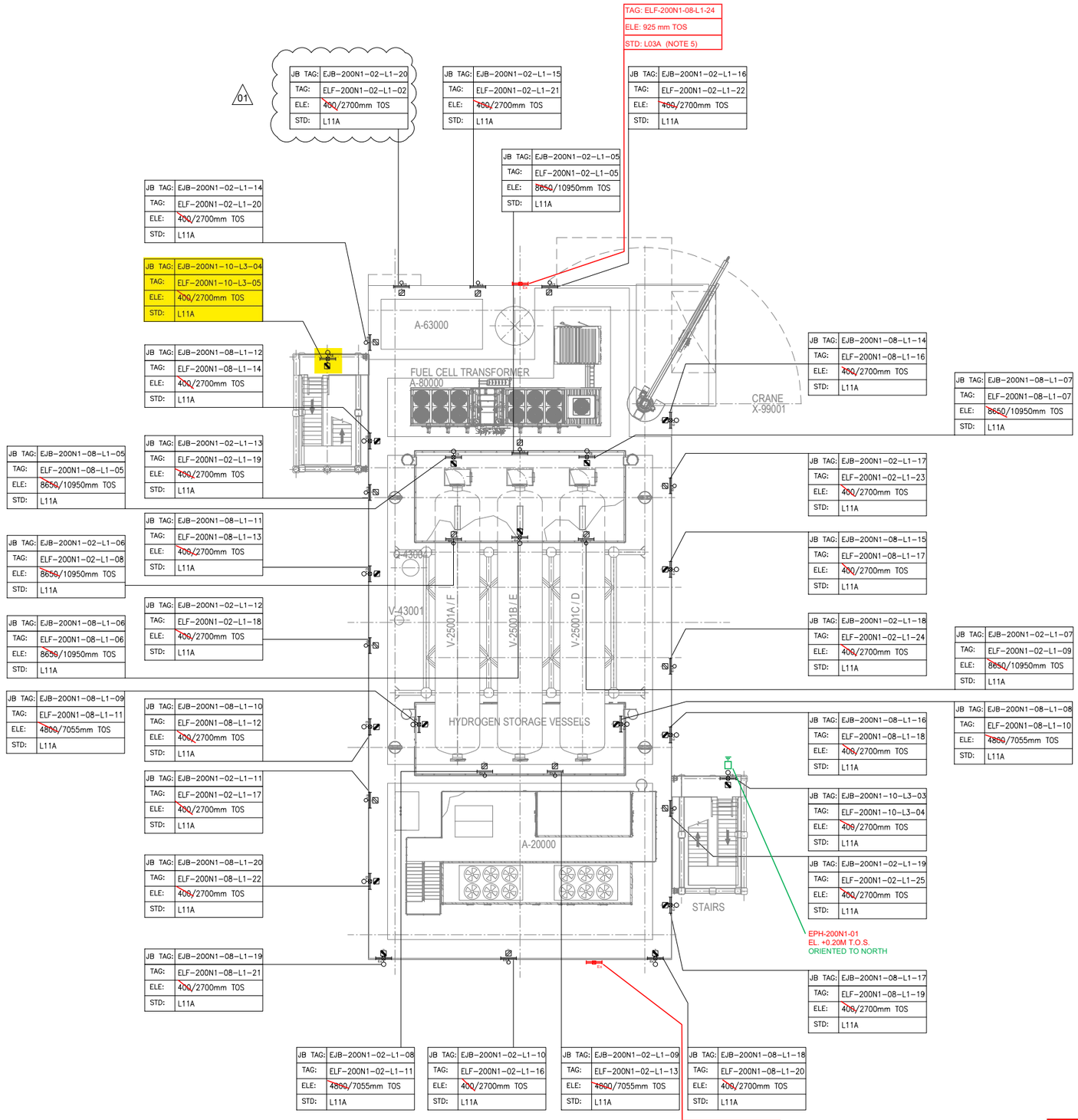
1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	OK
3	Check equipment is undamaged and correcly tagged.	OK
4	Check nameplate data is correct.	PL
5	Check all bolts are fitted and all unused entries are suitably plugged.	OK
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	OK
8	Check items are properly fixed on support.	OK
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

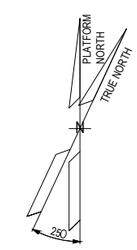
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Alessio Polo	
Date	2025-02-18	2025-02-20	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-02-18T09:47:30.252Z	PROVERLIS Digitaly signed by Alessio Polo 2025-02-20T14:37:34.979Z	

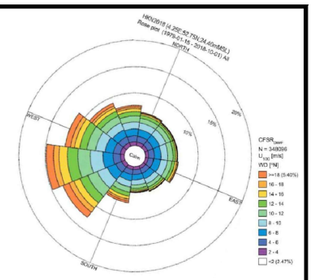
DRAWING NO. 123A90-DDL-EL-DL-20118

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

ROSETTI MARINO SpA

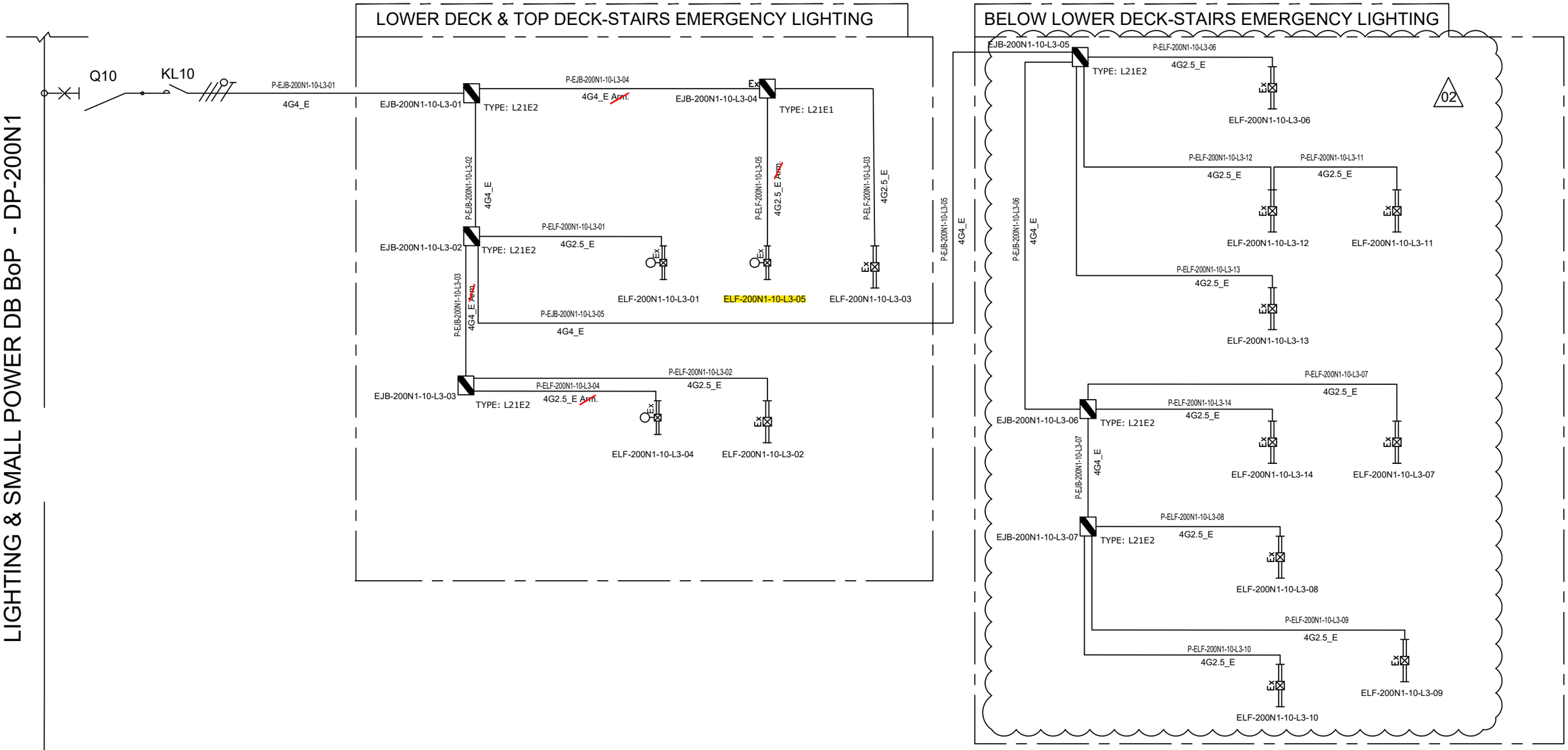
CROSSWIND | ROSETTI MARINO

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 1of2	REV. 01

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

LIGHTING & SMALL POWER DB BoP - DP-200N1



NOTE:	
ELF-200N1-10-L3-01	LOWER DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-02	
ELF-200N1-10-L3-03	
ELF-200N1-10-L3-04	TOP DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-05	

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

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

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
		ELF-200N1-10-L3-09			
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
STAIRS EMERGENCY LIGHTING (LOWER DECK,TOP DECK AND BELOW LOWER DECK)

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	007	02

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

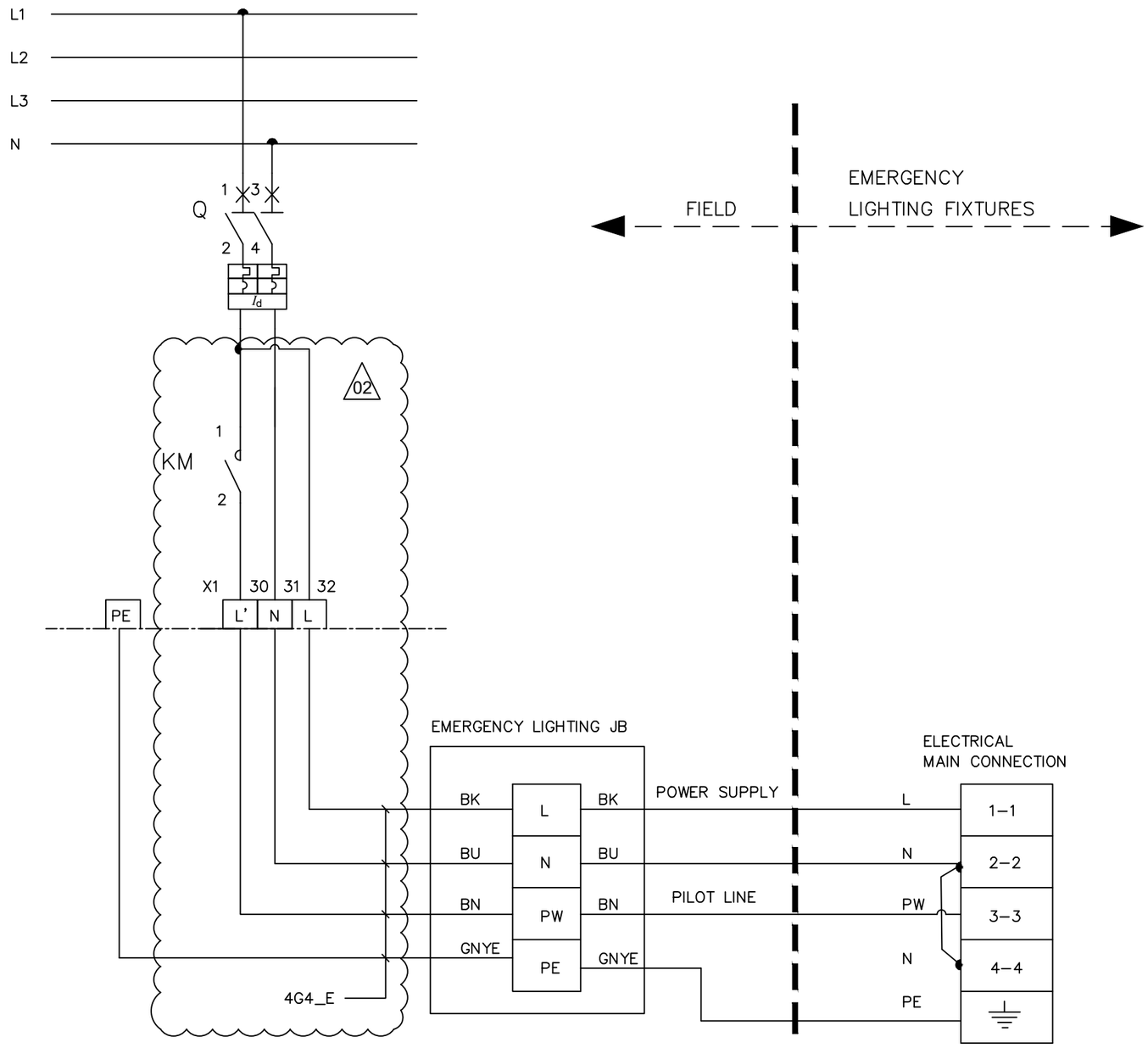
F.to UNI A3: 420mmx297mm

DP–200N1

FOR EMERGENCY LIGHTING

INTERNAL BUS BAR 400V–230V / 50Hz

EMERGENCY LIGHTS WIRING DIAGRAM



L – POWER SUPPLY

N – NEUTRAL

PW – PILOT LINE

PE – PROTECTIVE EARTH

BN – BROWN (L')

BK – BLACK (L)

BU – BLUE (N)

GNYE – GREEN/YELLOW (PE)

02

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
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
EMERGENCY LIGHTS WIRING DIAGRAM

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

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

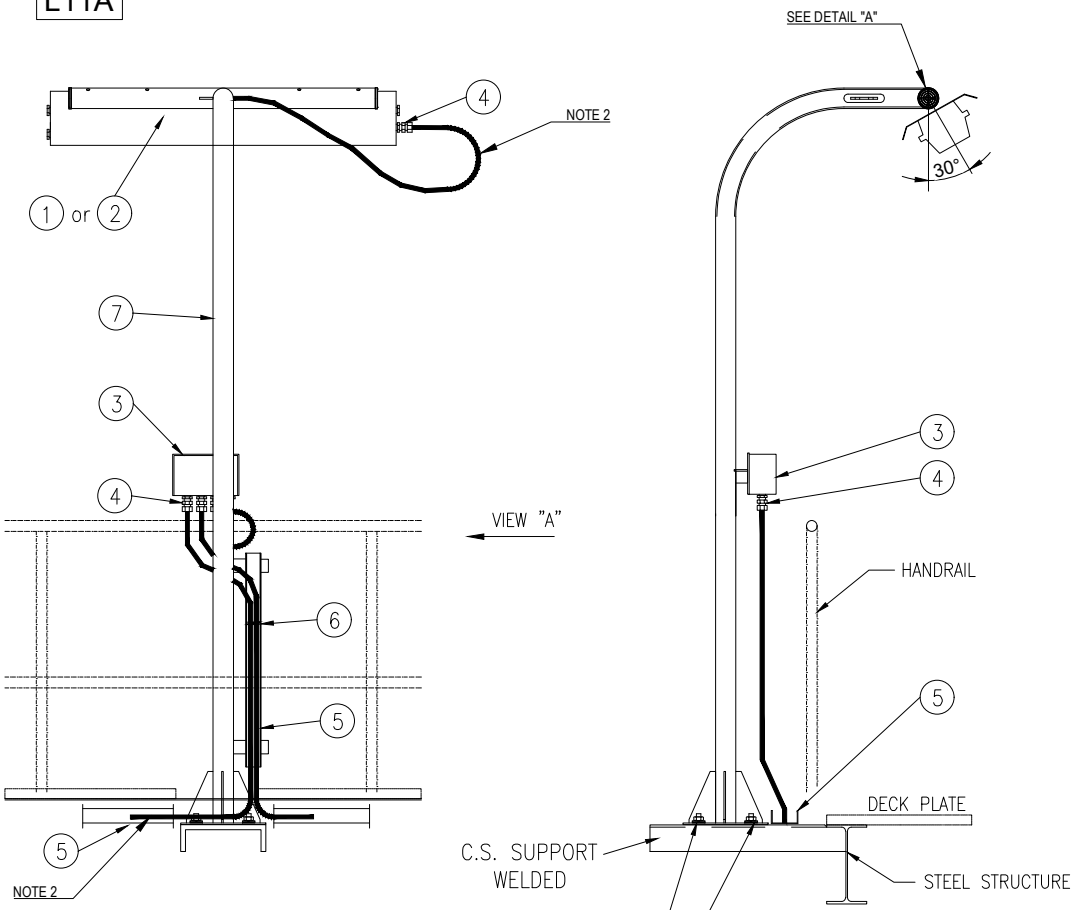
SHEET 014

REV. 02

F.to UNI A3: 420mmx297mm

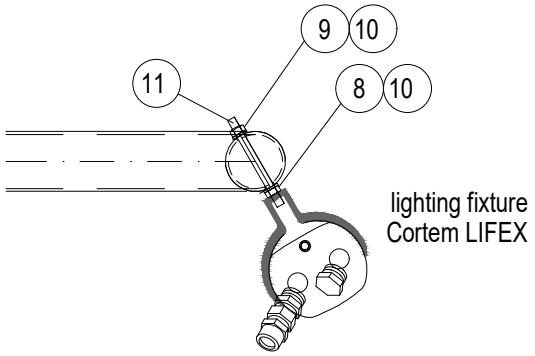
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L11A



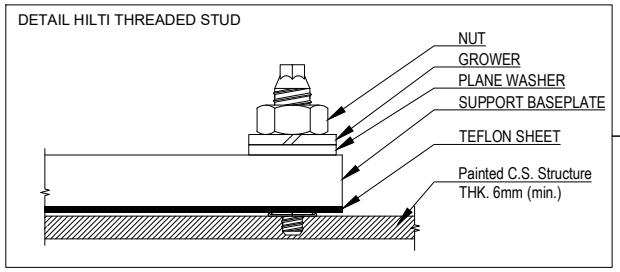
VIEW "A"

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND ~~C/W EARTH TAG,~~ WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

02

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

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

A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

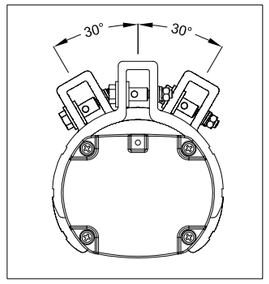
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 2
- Q.TY: 78
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

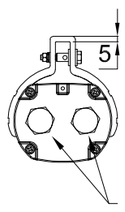
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



LF INFORMATION	
NOMINAL POWER	60W
CONSUMED POWER	40,9W
POWER FACTOR	>0,96
RATED CURRENT	185 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6218 lm
LIGHT INTENSITY	2191 cd
EFFICIENCY	152 lm/W
WEIGHT	3,5 Kg
IP PROTECTION	IP66
AUTONOMY	180 min
LUMEN EMERG. MODE	1168 lm

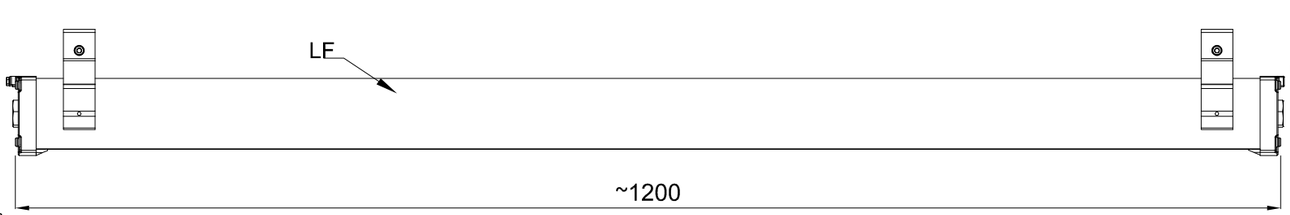
N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-1260N-BB	110-277Vac 50-60Hz 60W (RED. TO 40W) LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

LEFT SIDE (OUT)

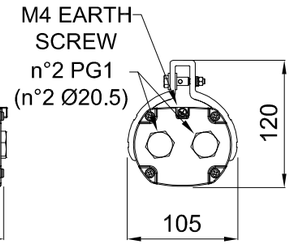


n°2 PG1
(n°2 Ø20.5)

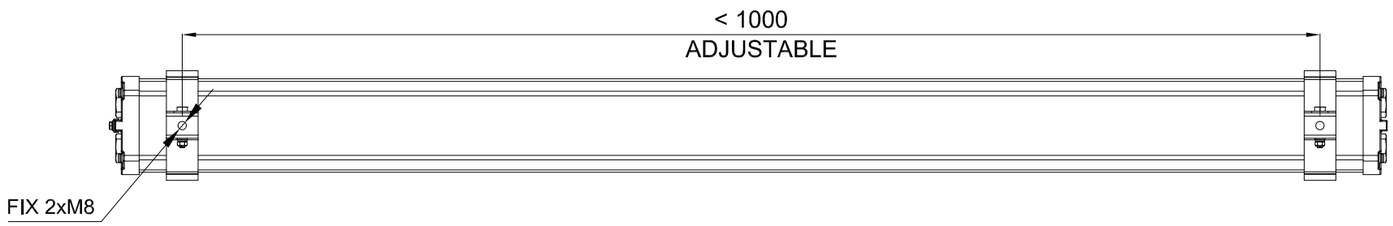
FRONT SIDE



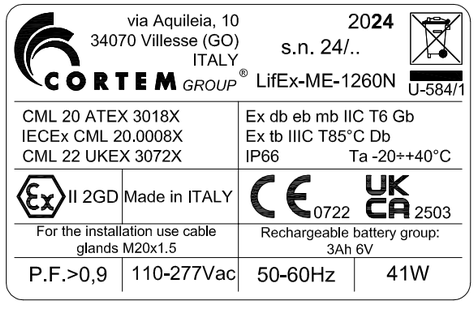
RIGHT SIDE (IN)



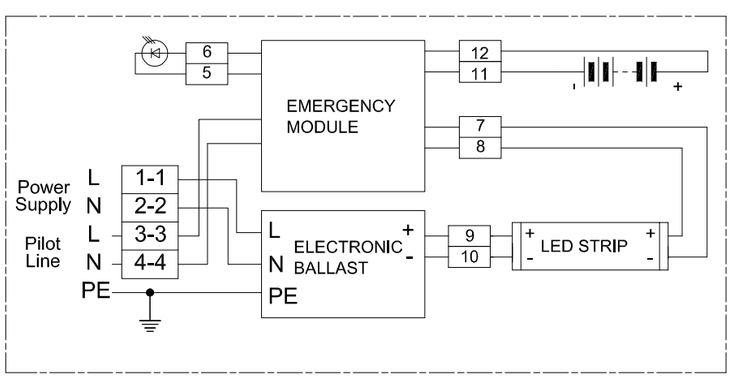
TOP SIDE



CERTIFICATE NAMEPLATE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
002 LIFEX-ME-1260N-BB/C2402693/20.

CORTEM JOB: COV2402693
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27521
SHEET 2 / TOT. 2
NEXT /

CORTEM GROUP
contem
FONDISONZO
ELFIT

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AND IT CANNOT BE REPRODUCED WITHOUT CORTEM'S
AUTHORIZATION

Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	45W LED Linear Luminaire-Emergency Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-1260N-BB		01
4	Serial Number	by vendor			00
5	Quantity	78 Nos.	78 Nos	(69+9 Spare)	01
6	Location / Module	Lower deck/Upper deck/ Below lower deck			00
7	**LED Lamp**				
8	Nominal power	45 watts	60 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Required			00
25	Battery type	NiCd internal battery, gas-tight	Ni/Mh		01
26	Autonomy	180 mins.	180 min		01
27	Emergency luminous flux	1168 lm	1168 lm		01
28	**Mechanical parameters**				
29	Dimension	by vendor	1200x105x120 (mm)		01
30	Weight	by vendor	4.5kg		01

Note:

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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ROSETTI MARINO

CROSSWIND

ITEM	Tag	ELF-200N1-10-L3-04	: EMERGENCY LIGHT			Dwg	123A90-DDL-EL-DL-20120
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	UD
TASK	code	C10001325		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

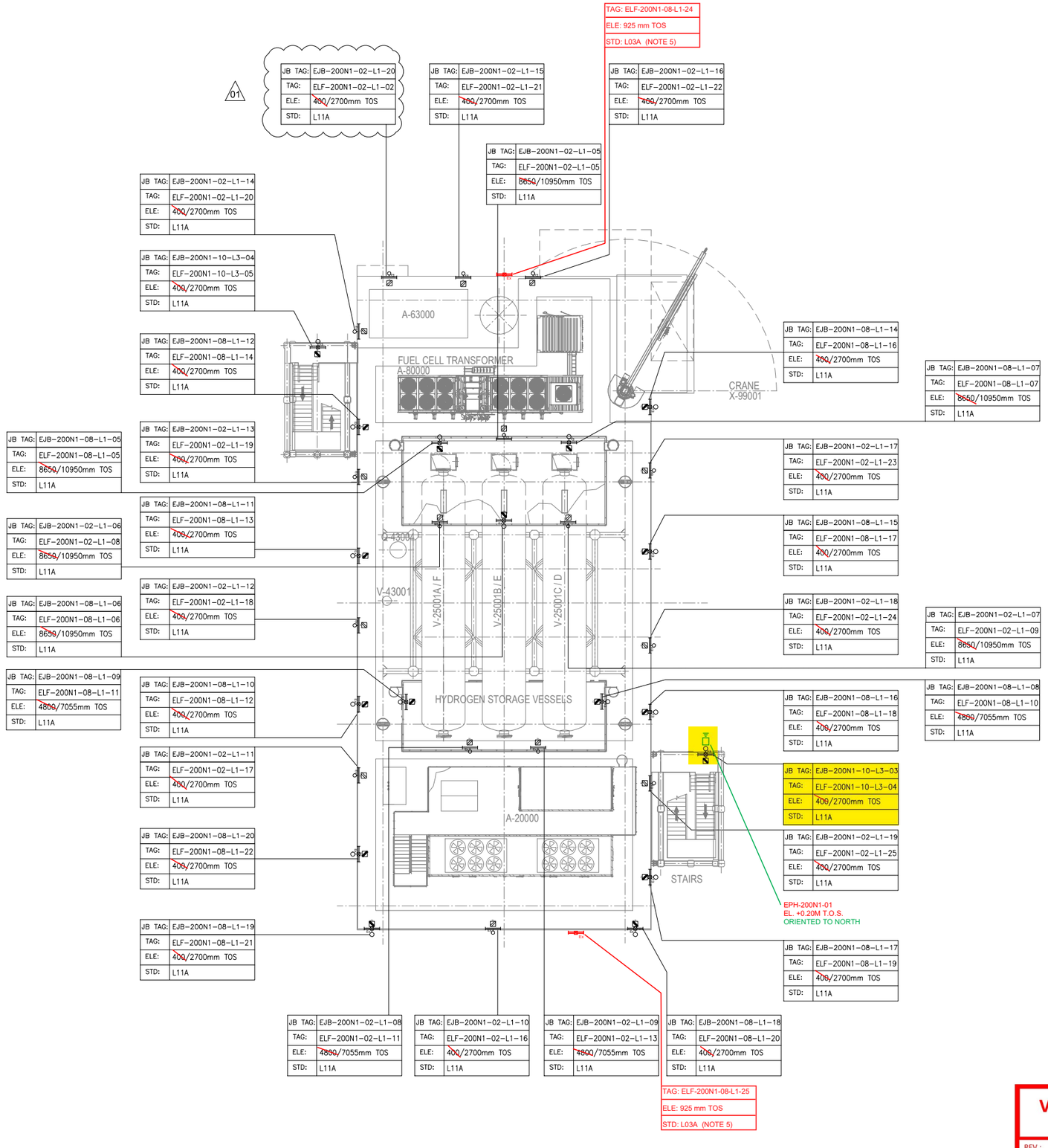
1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	OK
3	Check equipment is undamaged and correcly tagged.	OK
4	Check nameplate data is correct.	OK
5	Check all bolts are fitted and all unused entries are suitably plugged.	OK
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	OK
8	Check items are properly fixed on support.	OK
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

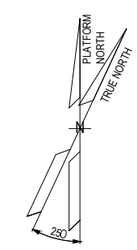
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Paolo Schintu	
Date	2025-01-23	2025-01-24	
Signature	Digitaly signed by Michele Tartaglia 2025-01-23T15:37:06.566Z	Digitaly signed by Paolo Schintu 2025-01-24T17:39:23.599Z	

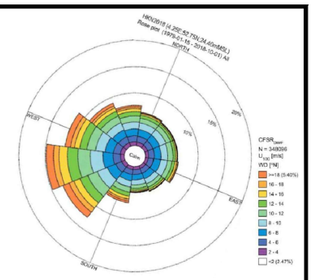
DRAWING NO. 123A90-DDL-EL-DL-20118

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

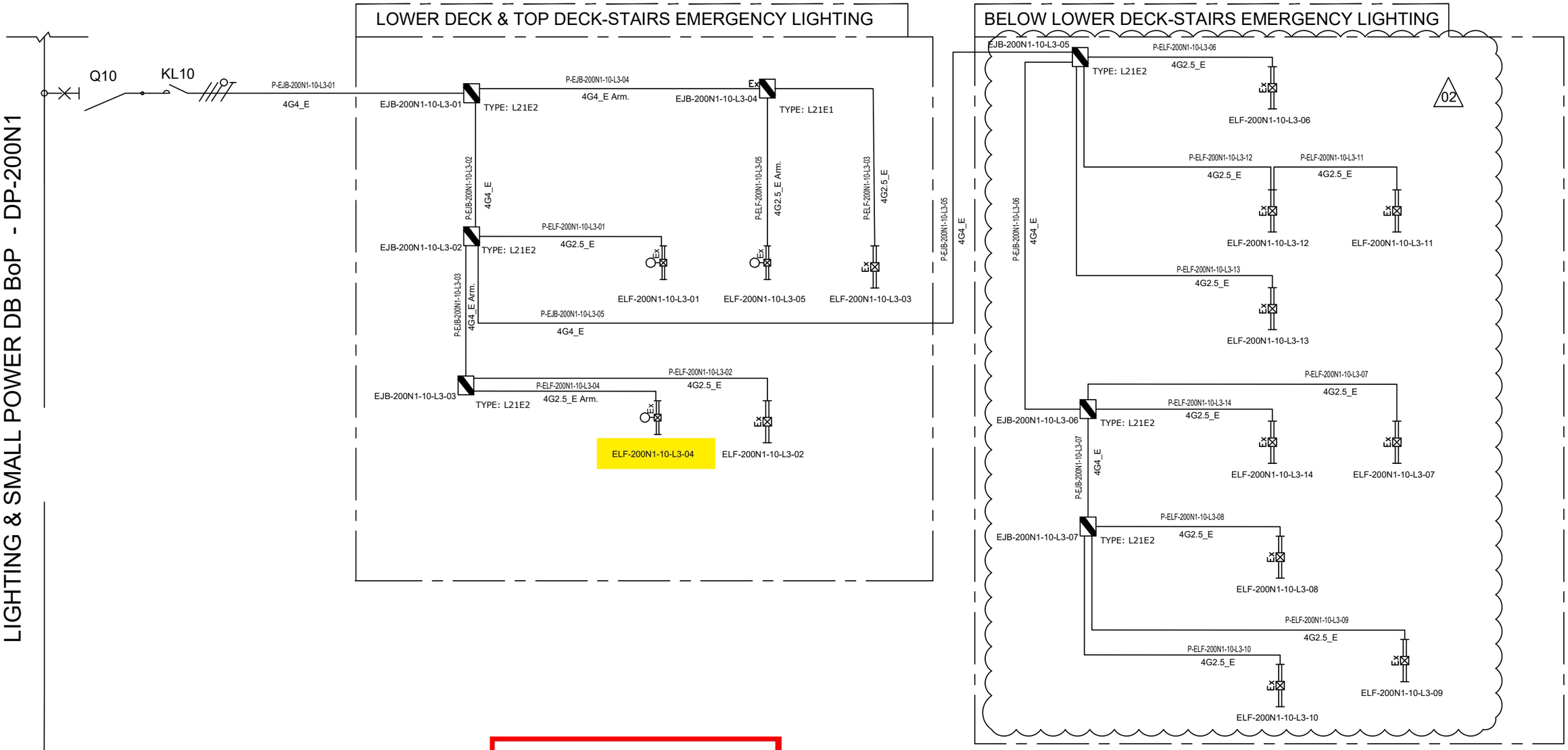
ROSETTI MARINO SpA

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

LIGHTING & SMALL POWER DB BoP - DP-200N1



NOTE:	
ELF-200N1-10-L3-01	LOWER DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-02	
ELF-200N1-10-L3-03	
ELF-200N1-10-L3-04	TOP DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-05	

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

REV.:	DATE:	SIGNATURE:
2_G	16/01/25	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
		ELF-200N1-10-L3-09			
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
STAIRS EMERGENCY LIGHTING (LOWER DECK,TOP DECK AND BELOW LOWER DECK)

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

SCALE : NTS

A3

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

SHEET 007

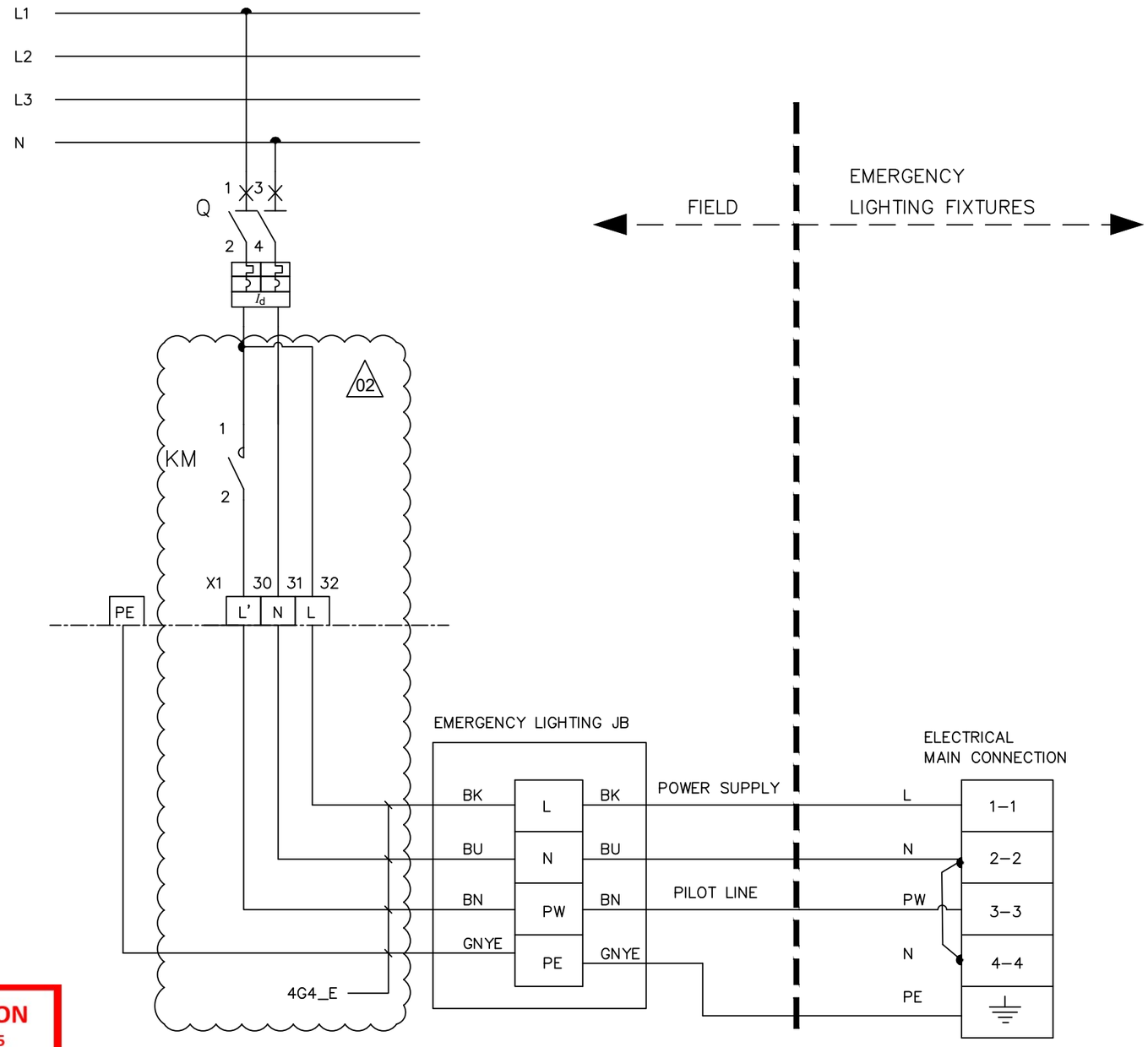
REV. 02

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

F.to UNI A3: 420mmx297mm

EMERGENCY LIGHTS WIRING DIAGRAM

DP–200N1
FOR EMERGENCY LIGHTING
INTERNAL BUS BAR 400V–230V / 50Hz



L – POWER SUPPLY
N – NEUTRAL
PW – PILOT LINE
PE – PROTECTIVE EARTH
BN – BROWN (L')
BK – BLACK (L)
BU – BLUE (N)
GNYE – GREEN/YELLOW (PE)

02

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

REV.:	DATE:	SIGNATURE:
2_G	16/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
EMERGENCY LIGHTS WIRING DIAGRAM

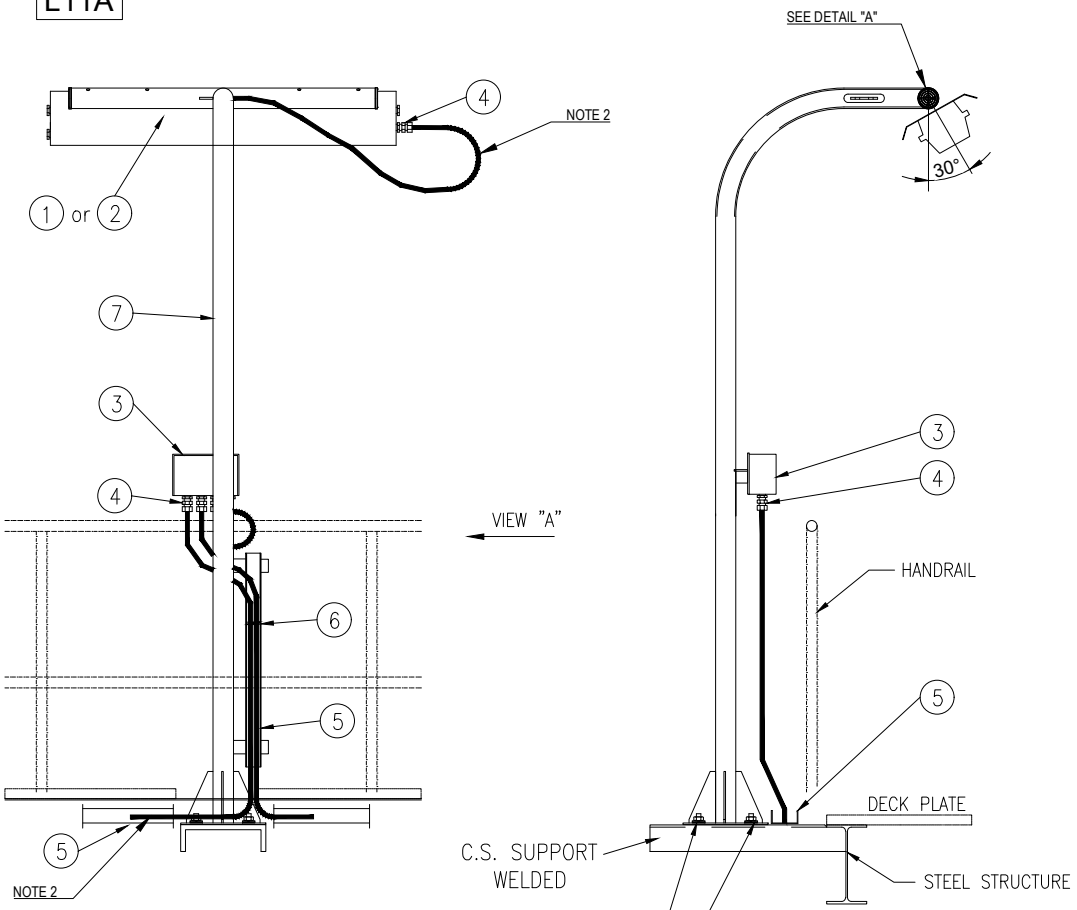
CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90–DDL–EL–DG–20125 | SHEET 014 | REV. 02

F.to UNI A3: 420mmx297mm

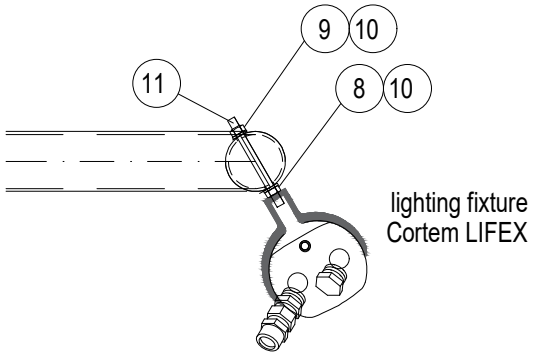
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L11A



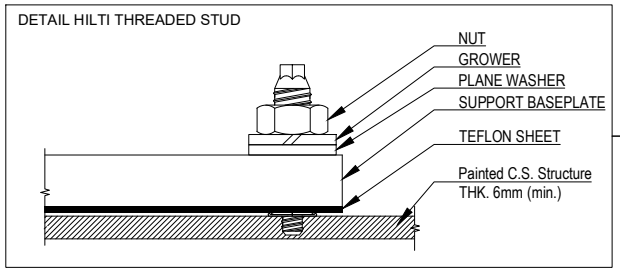
VIEW "A"

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND ~~C/W EARTH TAG,~~ WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

02

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

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

A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

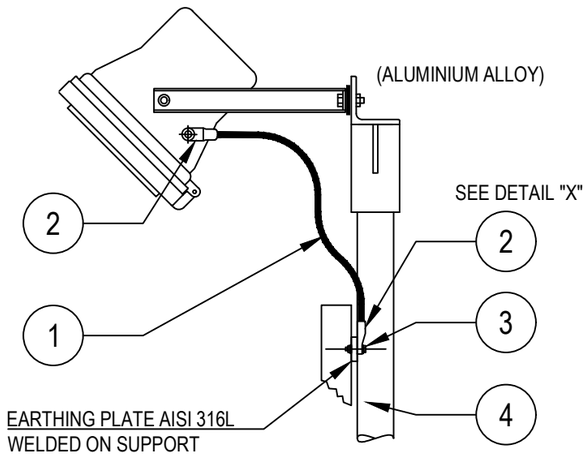
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

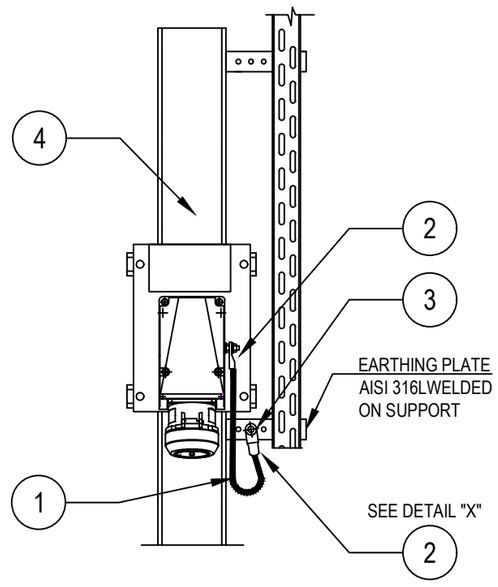
E05

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	Y/G INSULATING COPPER CONDUCTOR	COPPER	$6mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$6mm^2$	2	
3	HEXAG. BOLTS, PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M8X30	1	

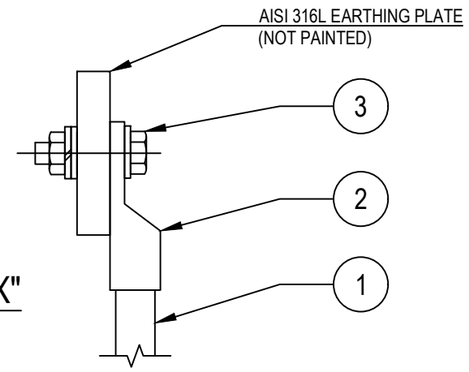
LIGHTING FIXTURE/GENERAL ITEM ON POLE



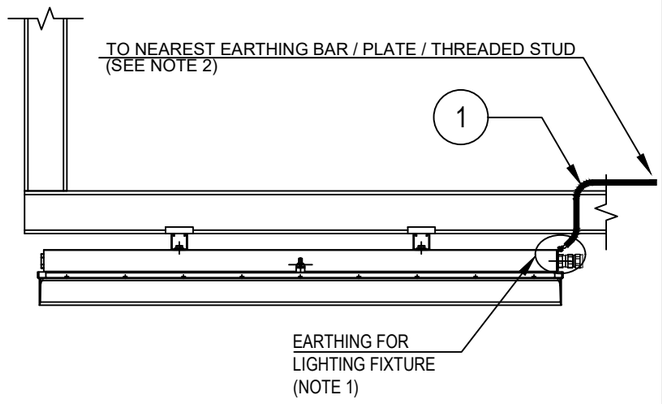
POWER SOCKET OUTLET



DETAIL "X"



LIGHTING FIXTURES



Refer also to TYP. "E32" (SEE SHEET 23)

TYPICAL VALID ALSO FOR NAVAID LIGHTS

NOTES:

1) ALL LIGHTING FIXTURES AND RELEVANT ARMOUR OF THE CABLE, ARE CONNECTED TO EARTH CONNECTION THROUGH THE EARTHING TAG OF THE CABLE GLAND

2) FOR EARTHING POINT USE ONE OF THE FOLLOWING METHODS:
TYP. E03A-D sh. 004 (EARTHING BAR ON STRUCT. UNISTRUT AND CABLE TRAY)
TYP. E11C sh. 003 (EARTHING PLATE)
TYP. E11D sh. 003 (THREADED STUD ON EXTERNAL STRUCTURE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_I	07/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR ELECTRICAL EQUIPMENTS

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

A3 | DRAWING NO. 123A90–DDL–EL–DD–20090 | SHEET 006 | REV. 02

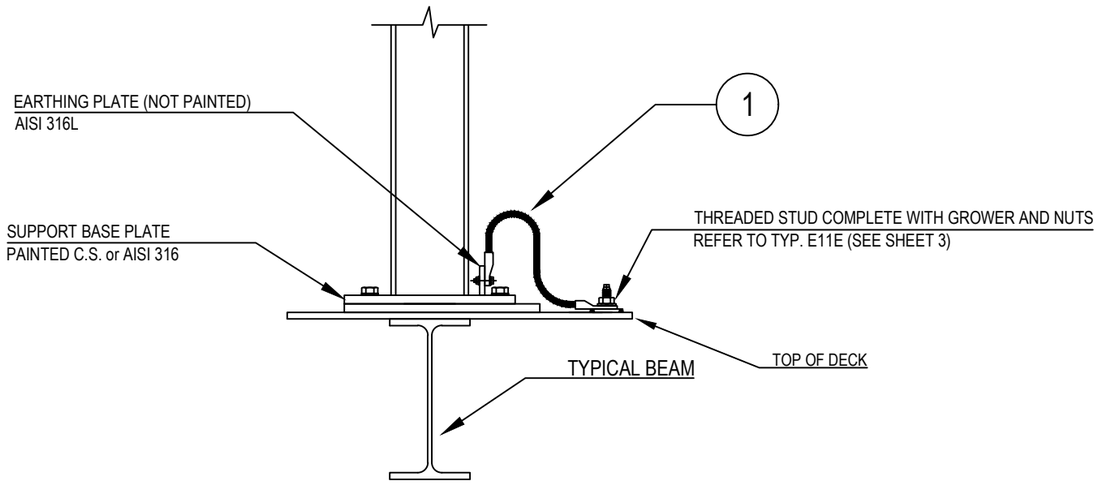
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

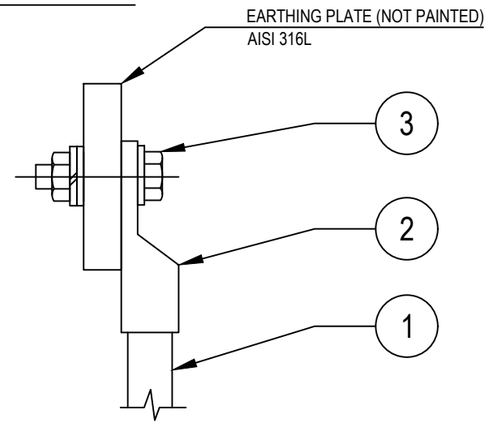
E24

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	As. R. Y/G INSULATING COPPER CONDUCTOR	COPPER	$35mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$35mm^2$	2	~~NOTE 1~~
3	HEXAG. BOLT M10X30 COMPLETE WITH PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M10X30	2	

GENERIC SUPPORT BOLTED ON STRUCTURE



DETAIL "X"



NOTES:
1) ~~CABLE LUG CRIMPING METHOD SHALL BE HEXAGONAL COMPRESSION DIES ONLY.~~
2) EXTERNAL EARTHING CONNECTION ONLY SHALL BE PROTECTED AGAINST CORROSION USING OXIDE RESISTANT COMPOUND (E.G. COPPER GREASE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_I	07/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR POLE/SUPPORT OF GENERIC EQUIPMENTS

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

A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–EL–DD–20090	012	02

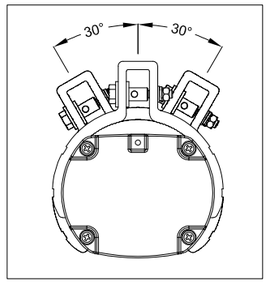
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 2
- Q.TY: 78
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

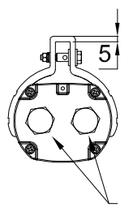
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



LF INFORMATION	
NOMINAL POWER	60W
CONSUMED POWER	40,9W
POWER FACTOR	>0,96
RATED CURRENT	185 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6218 lm
LIGHT INTENSITY	2191 cd
EFFICIENCY	152 lm/W
WEIGHT	3,5 Kg
IP PROTECTION	IP66
AUTONOMY	180 min
LUMEN EMERG. MODE	1168 lm

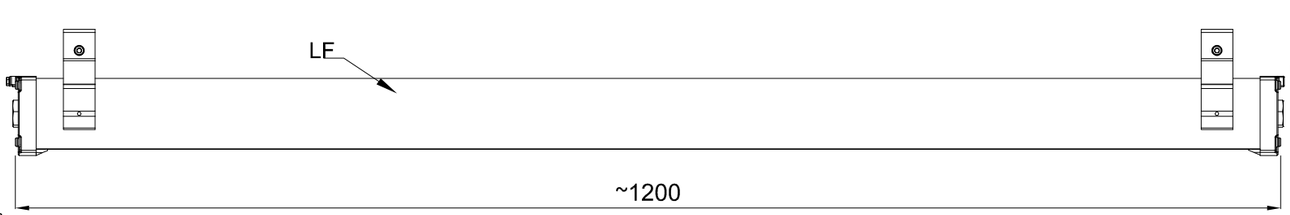
N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-1260N-BB	110-277Vac 50-60Hz 60W (RED. TO 40W) LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

LEFT SIDE (OUT)

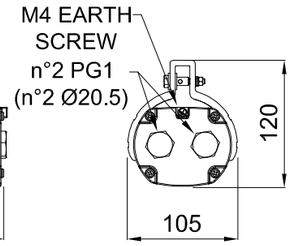


n°2 PG1
(n°2 Ø20.5)

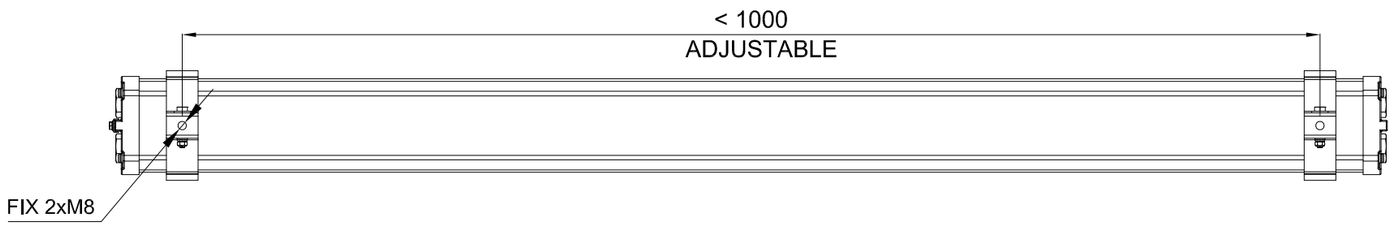
FRONT SIDE



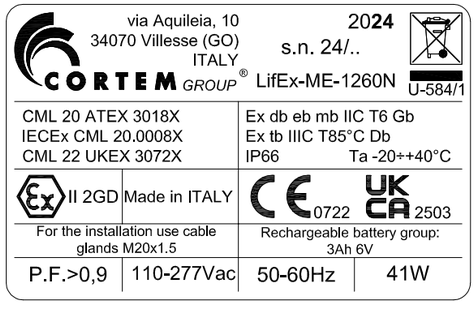
RIGHT SIDE (IN)



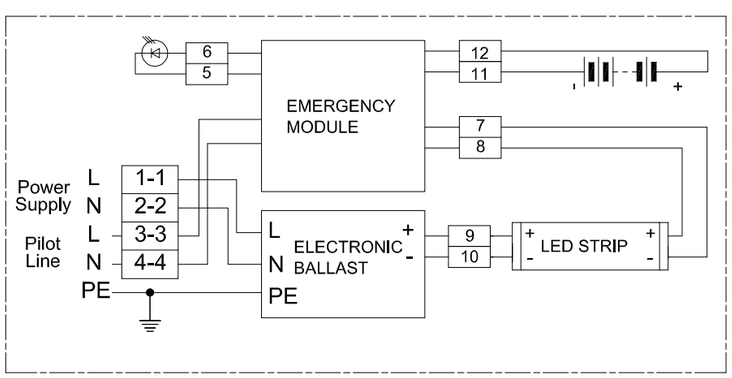
TOP SIDE



CERTIFICATE NAMEPLATE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
002 LIFEX-ME-1260N-BB/C2402693/20.

CORTEM JOB: COV2402693
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27521
SHEET 2 / TOT. 2
NEXT /

CORTEM GROUP
contem
FONDISONZO
ELFIT

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AND IT CANNOT BE REPRODUCED WITHOUT CORTEM'S
AUTHORIZATION

Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	45W LED Linear Luminaire-Emergency Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-1260N-BB		01
4	Serial Number	by vendor			00
5	Quantity	78 Nos.	78 Nos	(69+9 Spare)	01
6	Location / Module	Lower deck/Upper deck/ Below lower deck			00
7	**LED Lamp**				
8	Nominal power	45 watts	60 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Required			00
25	Battery type	NiCd internal battery, gas-tight	Ni/Mh		01
26	Autonomy	180 mins.	180 min		01
27	Emergency luminous flux	1168 lm	1168 lm		01
28	**Mechanical parameters**				
29	Dimension	by vendor	1200x105x120 (mm)		01
30	Weight	by vendor	4.5kg		01

Note:

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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	ELF-200N1-10-L3-08	: EMERGENCY LIGHT			Dwg	123A90-DDL-EL-DL-20120
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	TP
TASK	code	C10001328		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	OK
3	Check equipment is undamaged and correcly tagged.	OK
4	Check nameplate data is correct.	OK
5	Check all bolts are fitted and all unused entries are suitably plugged.	OK
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	OK
8	Check items are properly fixed on support.	PL
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	VIP	RM(ROSETTI MARINO)	
Name	Madhankumar Arunagiri	Giovanni Tangianu	
Date	2025-04-18	2025-05-05	
Signature	PROVERLIS Digitaly signed by Madhankumar Arunagiri 2025-04-18T06:13:56.939Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2025-05-05T11:01:48.066Z	

DRAWING NO. 123A90-DDL-EL-DL-20120

REV. 02

TAG:	ELF-200N1-10-L3-08
ELE:	2800 mm TOF
STD:	L03A

TAG:	ELS-200N1-09-L2-01
ELE:	1275 mm TOF
STD:	L46A

TAG:	EJB-200N1-09-L2-17
ELE:	1275 mm TOF ⚠2
STD:	L21

TAG:	ELF-200N1-10-L3-07
ELE:	2800 mm TOF
STD:	L52C

⚠2

TAG:	ELF-200N1-10-L3-14
ELE:	4300 mm TOF
STD:	L03A ⚠2

TAG:	EJB-200N1-10-L3-06
ELE:	5000 mm TOF
STD:	L02

⚠2

TAG:	EJB-200N1-10-L3-07
ELE:	200 mm TOF
STD:	L02

⚠2

TAG:	ELF-200N1-10-L3-13
ELE:	2500 mm TOF
STD:	L03A ⚠2

TAG:	ELF-200N1-10-L3-09
ELE:	2800 mm TOF
STD:	L03A

⚠2

TAG:	ESO-200N1-06-L2-03
ELE:	1600mm TOS ⚠2
STD:	P03

TAG:	ELF-200N1-09-L2-24
ELE:	2200 mm TOF
STD:	~~L06A~~ L04C

⚠2

TAG:	ELF-200N1-10-L3-06
ELE:	2800 mm TOF
STD:	L52C

TAG:	ELF-200N1-10-L3-10
ELE:	2800 mm TOF
STD:	L03A

⚠2

TAG:	ELF-200N1-09-L2-25
ELE:	2200 mm TOF
STD:	~~L06A~~ L04C

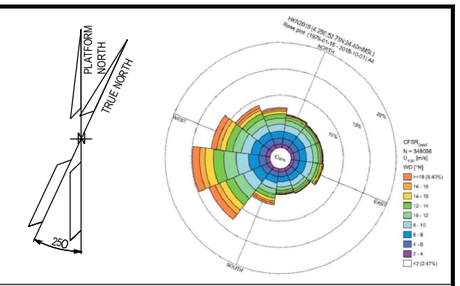
TAG:	ELF-200N1-10-L3-11
ELE:	2400 mm TOF
STD:	L03A ⚠2

TAG:	ELF-200N1-10-L3-12
ELE:	2400 mm TOF
STD:	L03A ⚠2

⚠2

TAG:	EJB-200N1-10-L3-05
ELE:	2800 mm TOF
STD:	L02

PLAN ON EXISTING PLATFORM AT EL.+16.860 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S / T.O.F.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. ELEVATION OR STANDARD PRESENT IN THE MASK, WHERE JB AND FIXTURE ARE SHOWN, ARE RELATIVE TO THE ORDER OF THE TAGS, ⚠2 1°ROW JB AND 2°ROW FIXTURE = ELEVATION JB / ELEVATION FIXTURE.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- SMALL POWER SOCKET WITH INTEGRATED JB
- LOCAL SWITCH IP66 TYPE

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

T.O.S TOP OF STEEL
T.O.F TOP OF FOOTING (Walkway plan)

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20120**

REV.:	DATE:	SIGNATURE:
2_B	27/01/25	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-EL-DL-20102	ELECTRICAL EQUIPMENT LAYOUT - TRANSITION PIECE
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-PP-DL-70070	BASE LOAD POWER HUB (BLPH) - PLOT PLAN - LOWER AND UPPER DECK
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
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	04/06/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

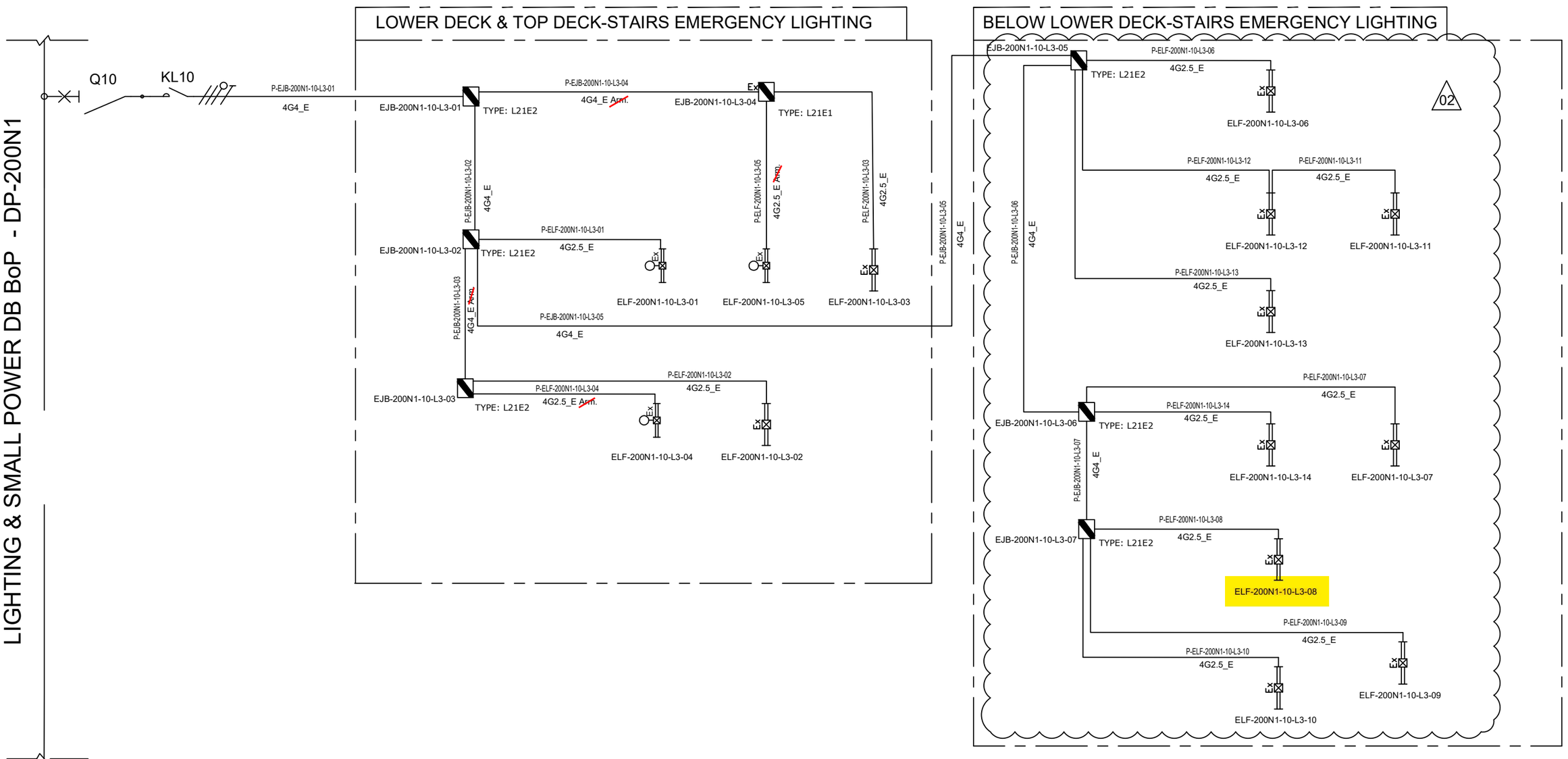
ROSETTI MARINO

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

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:100
DRAWN AMA	CHECKED CGI	APPROVED DLO	DATE 07/10/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20120	SHEET 001	REV. 02

File Name : 123A90-DDL-EL-DL-20120

LIGHTING & SMALL POWER DB BoP - DP-200N1



NOTE:	
ELF-200N1-10-L3-01	LOWER DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-02	
ELF-200N1-10-L3-03	
ELF-200N1-10-L3-04	TOP DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-05	

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

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

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
		ELF-200N1-10-L3-09			
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
STAIRS EMERGENCY LIGHTING (LOWER DECK,TOP DECK AND BELOW LOWER DECK)

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

SCALE : NTS

A3

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

SHEET 007

REV. 02

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

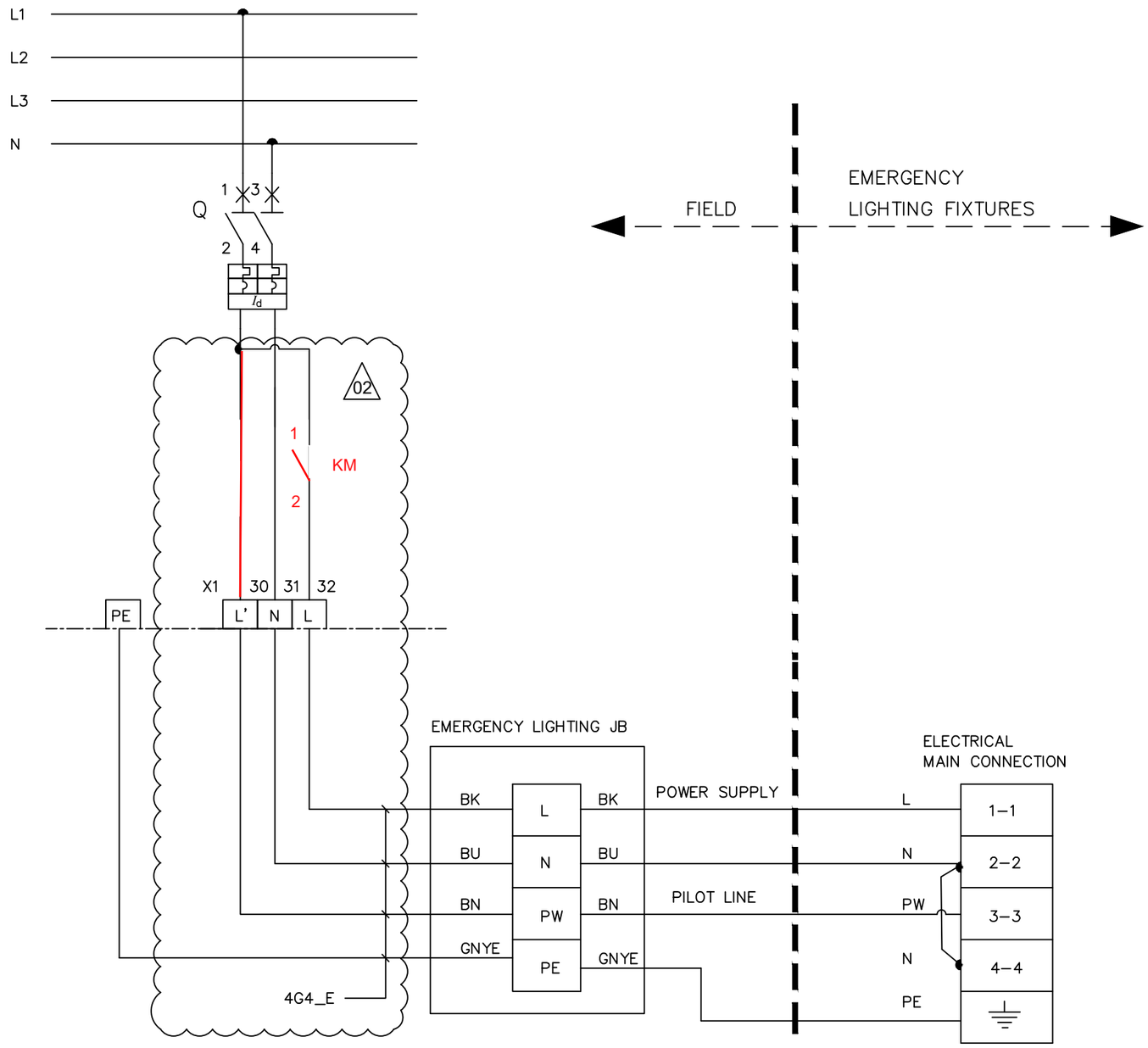
F.to UNI A3: 420mmx297mm

DP–200N1

FOR EMERGENCY LIGHTING

INTERNAL BUS BAR 400V–230V / 50Hz

EMERGENCY LIGHTS WIRING DIAGRAM



L – POWER SUPPLY

N – NEUTRAL

PW – PILOT LINE

PE – PROTECTIVE EARTH

BN – BROWN (L')

BK – BLACK (L)

BU – BLUE (N)

GNYE – GREEN/YELLOW (PE)

02

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
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
EMERGENCY LIGHTS WIRING DIAGRAM

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

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

SHEET 014

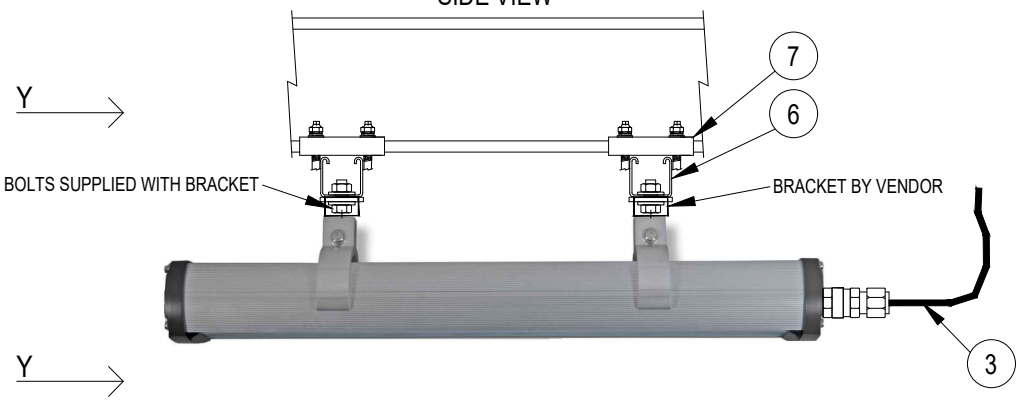
REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

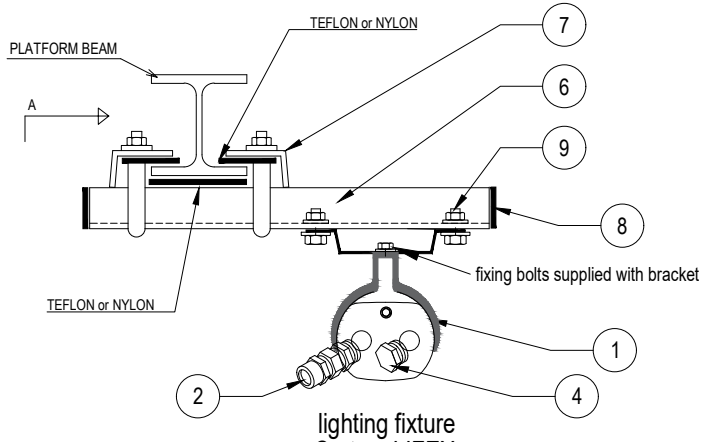
L03A

SIDE VIEW

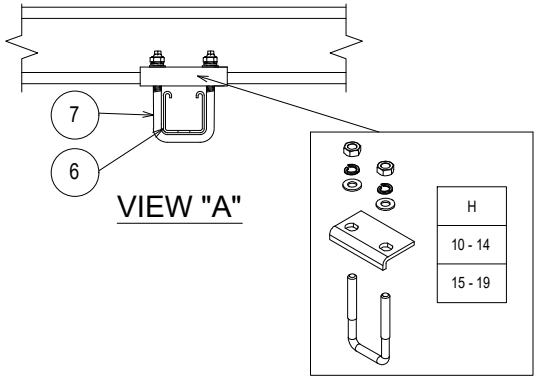


POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	LIGHITNG FIXTURE (Ex e) WITH LED LAMP	ALUMINIUM ALLOY		1	
2	CABLE GLAND (Ex) FOR ARMOURED/UNARMOURED CABLE	NICK.PL.BRASS		1	NOTE 2 NOTE 5
3	ARMOURED/UNARMOURED CABLE				NOTE 5
4	PLUG	NICK.PL.BRASS		AS REQ.	NOTE 3
6	SINGLE U-CHANNEL PERFORATED ON NO.3 SIDE	AISI 316L		AS REQ.	NOTE 1
7	SINGLE U-CHANNEL BEAM ATTACHMENT (10-14) OR (15-19) WITH COLLAR COMPLETE WITH HARDWARE	AISI 316L		4	NOTE 4
8	PLUG FOR U-CHANNEL	LPDE		4	
9	HEX. BOLT M8X16 WITH LARGE PLANE WASHER		M8x16	4	

SECTION "Y-Y"



lighting fixture
Cortem LIFEX



NOTES:

1) THE EXACT DIMENSIONS WILL BE DEFINED DURING ASSEMBLY PHASE.
2) CABLE GLAND COMPLETE WITH LOCKNUT, NYLON WASHER, SERRATED WASHER, EXTERNAL RUBBER RING AND EARTH TAG (IF NECESSARY).
3) UNUSED CABLE ENTRIES MUST BE CLOSED WITH NICKEL PLATED BRASS PLUG.
4) SINGLE U-CHANNEL BEAM ATTACHMENT (CLAMP) IS PRODUCED IN NO. 2 DIFFERENT SIZES (10-14 OR 15-19) SIZE REFERS TO THE THICKNESS OF THE BEAM WHERE THE CLAMP IS INSTALLED.
5) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–LIGHTING SYSTEM
FIXTURE SUSPENSION MOUNTED WITH CLAMPED SUPPORT

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

A3 | DRAWING NO. 123A90–DDL–EL–DD–20091 | SHEET 008 | REV. 02

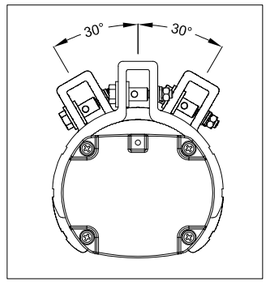
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 2
- Q.TY: 78
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

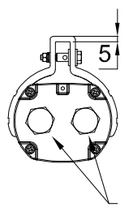
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



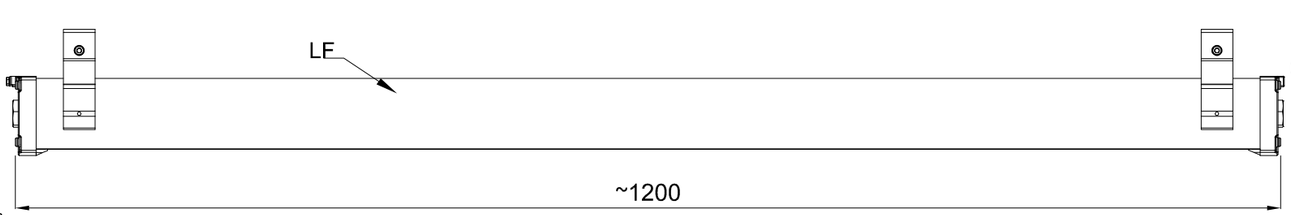
LF INFORMATION	
NOMINAL POWER	60W
CONSUMED POWER	40,9W
POWER FACTOR	>0,96
RATED CURRENT	185 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6218 lm
LIGHT INTENSITY	2191 cd
EFFICIENCY	152 lm/W
WEIGHT	3,5 Kg
IP PROTECTION	IP66
AUTONOMY	180 min
LUMEN EMERG. MODE	1168 lm

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-1260N-BB	110-277Vac 50-60Hz 60W (RED. TO 40W) LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

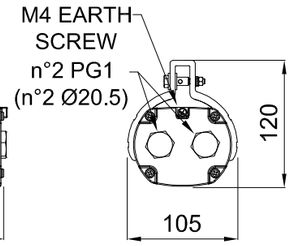
LEFT SIDE (OUT)



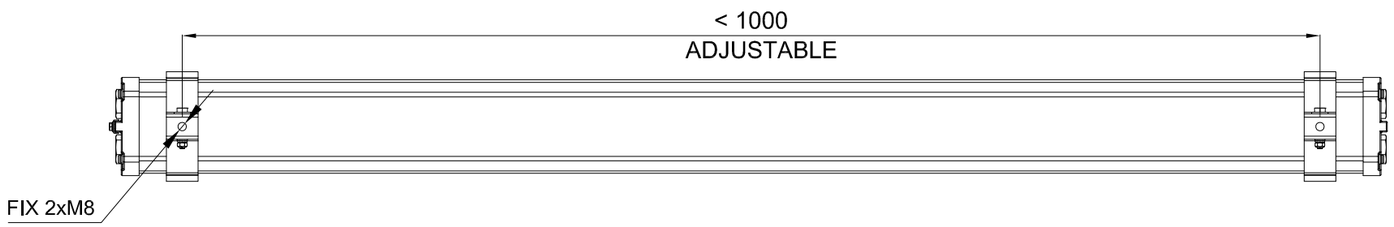
FRONT SIDE



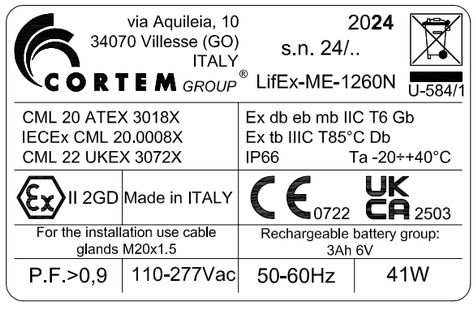
RIGHT SIDE (IN)



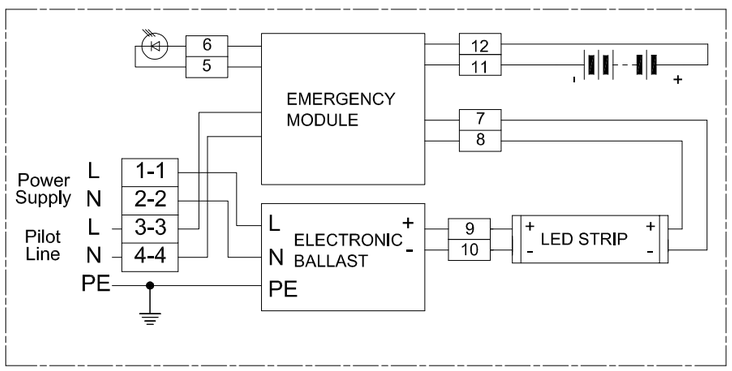
TOP SIDE



CERTIFICATE NAMEPLATE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
002 LIFEX-ME-1260N-BB/C2402693/20.

CORTEM JOB: COV2402693
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27521
SHEET 2 / NEXT /
TOT. 2

CORTEM GROUP
cortem
FONDISONZO
ELFIT

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AND IT CANNOT BE REPRODUCED WITHOUT CORTEM'S
AUTHORIZATION

Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	45W LED Linear Luminaire-Emergency Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-1260N-BB		01
4	Serial Number	by vendor			00
5	Quantity	78 Nos.	78 Nos	(69+9 Spare)	01
6	Location / Module	Lower deck/Upper deck/ Below lower deck			00
7	**LED Lamp**				
8	Nominal power	45 watts	60 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Required			00
25	Battery type	NiCd internal battery, gas-tight	Ni/Mh		01
26	Autonomy	180 mins.	180 min		01
27	Emergency luminous flux	1168 lm	1168 lm		01
28	**Mechanical parameters**				
29	Dimension	by vendor	1200x105x120 (mm)		01
30	Weight	by vendor	4.5kg		01

Note:

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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	ELF-200N1-10-L3-07	: EMERGENCY LIGHT			Dwg	123A90-DDL-EL-DL-20120
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	TP
TASK	code	C10001329		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	OK
3	Check equipment is undamaged and correcly tagged.	OK
4	Check nameplate data is correct.	OK
5	Check all bolts are fitted and all unused entries are suitably plugged.	OK
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	OK
8	Check items are properly fixed on support.	OK
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	VIP	RM(ROSETTI MARINO)	
Name	Madhankumar Arunagiri	Giovanni Tangianu	
Date	2025-04-18	2025-04-30	
Signature	PROVERLIS Digitaly signed by Madhankumar Arunagiri 2025-04-18T06:14:38.018Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2025-04-30T09:00:24.262Z	

DRAWING NO. 123A90-DDL-EL-DL-20120

REV. 02

TAG:	ELF-200N1-10-L3-08
ELE:	2800 mm TOF
STD:	L03A

TAG:	ELS-200N1-09-L2-01
ELE:	1275 mm TOF
STD:	L46A

TAG:	EJB-200N1-09-L2-17
ELE:	1275 mm TOF
STD:	L21

TAG:	ELF-200N1-10-L3-07
ELE:	2800 mm TOF
STD:	L52C

TAG:	ELF-200N1-10-L3-14
ELE:	4300 mm TOF
STD:	L03A

TAG:	EJB-200N1-10-L3-06
ELE:	5000 mm TOF
STD:	L02

TAG:	EJB-200N1-10-L3-07
ELE:	200 mm TOF
STD:	L02

TAG:	ELF-200N1-10-L3-13
ELE:	2500 mm TOF
STD:	L03A

TAG:	ELF-200N1-10-L3-09
ELE:	2800 mm TOF
STD:	L03A

TAG:	ESO-200N1-06-L2-03
ELE:	1600mm TOS
STD:	P03

TAG:	ELF-200N1-09-L2-24
ELE:	2200 mm TOF
STD:	~~L06A~~ L04C

TAG:	ELF-200N1-10-L3-06
ELE:	2800 mm TOF
STD:	L52C

TAG:	ELF-200N1-10-L3-10
ELE:	2800 mm TOF
STD:	L03A

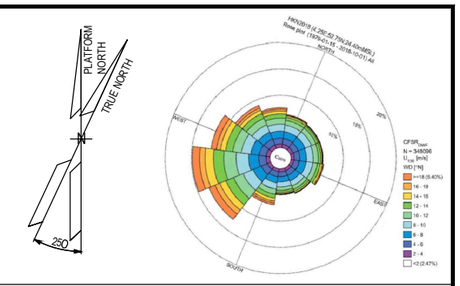
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ELE:	2200 mm TOF
STD:	~~L06A~~ L04C

TAG:	ELF-200N1-10-L3-11
ELE:	2400 mm TOF
STD:	L03A

TAG:	ELF-200N1-10-L3-12
ELE:	2400 mm TOF
STD:	L03A

TAG:	EJB-200N1-10-L3-05
ELE:	2800 mm TOF
STD:	L02

PLAN ON EXISTING PLATFORM AT EL.+16.860 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S / T.O.F.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. ELEVATION OR STANDARD PRESENT IN THE MASK, WHERE JB AND FIXTURE ARE SHOWN, ARE RELATIVE TO THE ORDER OF THE TAGS, 1°ROW JB AND 2°ROW FIXTURE = ELEVATION JB / ELEVATION FIXTURE.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- SMALL POWER SOCKET WITH INTEGRATED JB
- LOCAL SWITCH IP66 TYPE

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

T.O.S TOP OF STEEL
T.O.F TOP OF FOOTING (Walkway plan)

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20120**

REV.:	DATE:	SIGNATURE:
2_B	27/01/25	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-EL-DL-20102	ELECTRICAL EQUIPMENT LAYOUT - TRANSITION PIECE
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-PP-DL-70070	BASE LOAD POWER HUB (BLPH) - PLOT PLAN - LOWER AND UPPER DECK
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
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	04/06/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

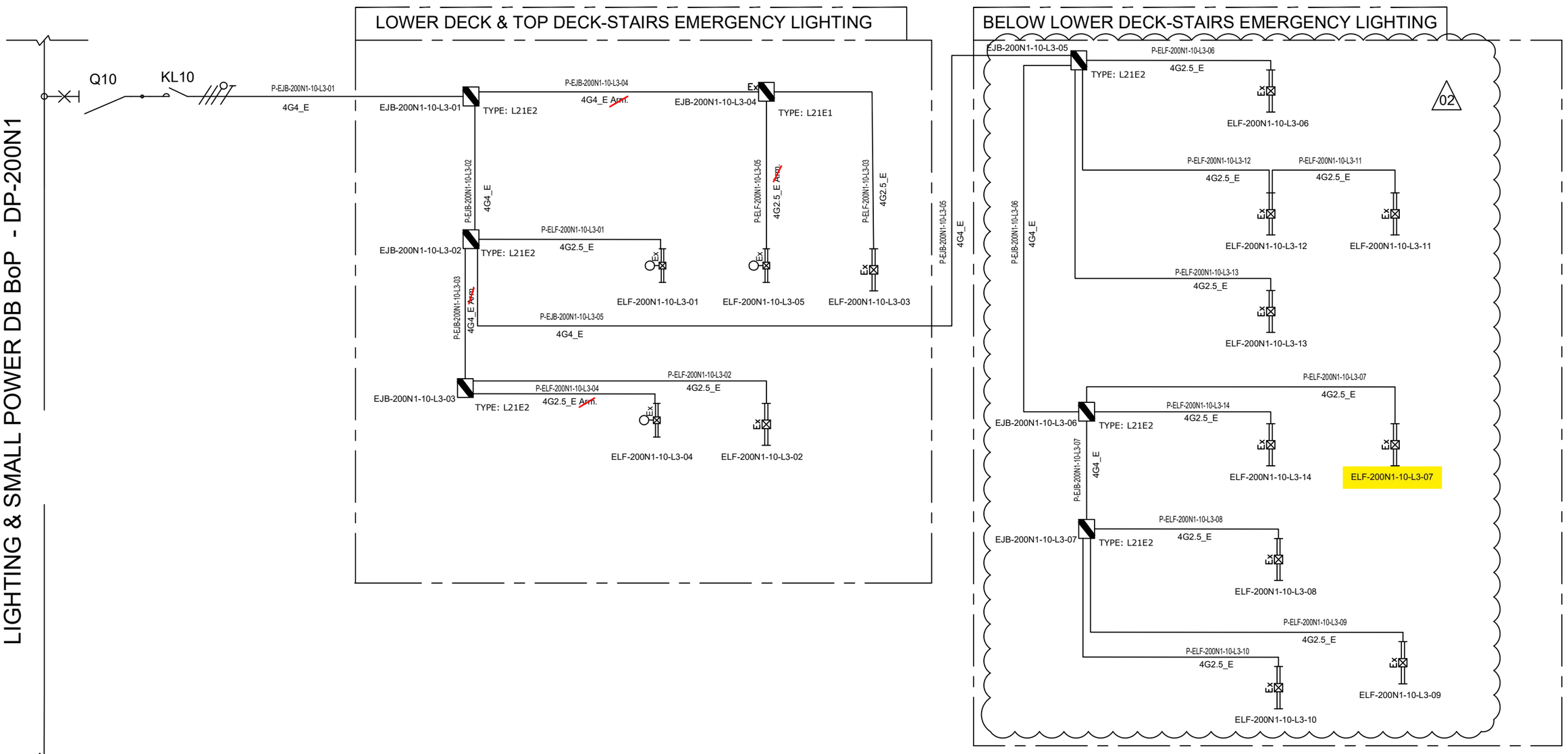
ROSETTI MARINO

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

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:100
DRAWN AMA	CHECKED CGI	APPROVED DLO	DATE 07/10/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20120	SHEET 001	REV. 02

File Name : 123A90-DDL-EL-DL-20120

LIGHTING & SMALL POWER DB BoP - DP-200N1



NOTE:	
ELF-200N1-10-L3-01	LOWER DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-02	
ELF-200N1-10-L3-03	
ELF-200N1-10-L3-04	TOP DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-05	

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

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

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
			ELF-200N1-10-L3-09		
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
STAIRS EMERGENCY LIGHTING (LOWER DECK,TOP DECK AND BELOW LOWER DECK)

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

SCALE : NTS

A3

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

SHEET 007

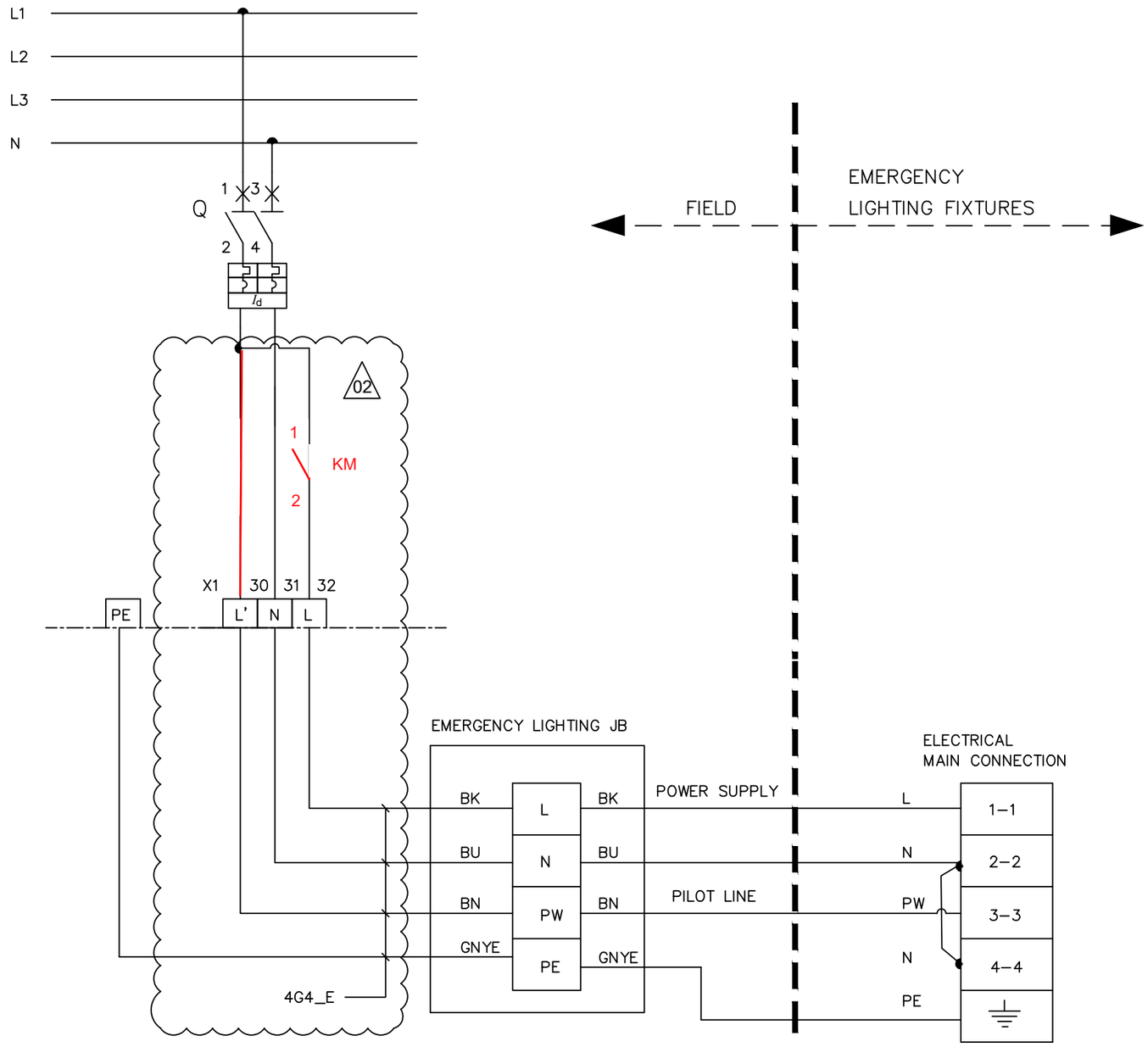
REV. 02

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

F.to UNI A3: 420mmx297mm

EMERGENCY LIGHTS WIRING DIAGRAM

DP–200N1
FOR EMERGENCY LIGHTING
INTERNAL BUS BAR 400V–230V / 50Hz



L – POWER SUPPLY
N – NEUTRAL
PW – PILOT LINE
PE – PROTECTIVE EARTH
BN – BROWN (L')
BK – BLACK (L)
BU – BLUE (N)
GNYE – GREEN/YELLOW (PE)

02

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
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
EMERGENCY LIGHTS WIRING DIAGRAM

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

A3 | DRAWING NO. 123A90–DDL–EL–DG–20125 | SHEET 014 | REV. 02

F.to UNI A3: 420mmx297mm

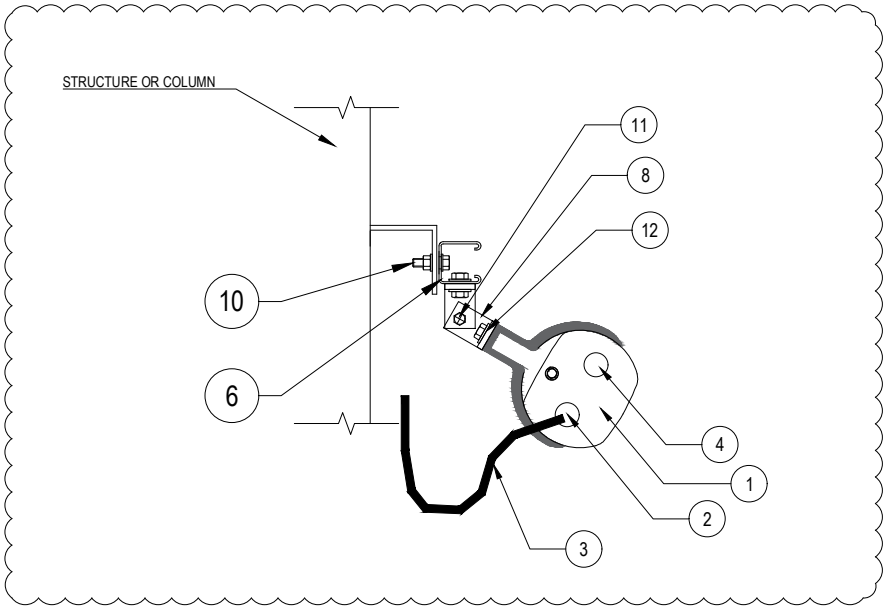
File Name : 123A90–DDL–EL–DG–20125

L52C

02

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	LIGHTING FIXT. (EX) WITH LED LAMP	ALUMINIUM ALLOY		1	
2	CABLE GLAND FOR ARM/UNARMOURED CABLE				NOTE 2 NOTE 4
3	ARMOURED/UNARMOURED CABLE				NOTE 4
4	PLUG	NICK.PL.BRASS			NOTE 3
5	CABLE TRAY WITH COVER	AISI 316L	50X50	2	
6	SINGLE U-CHANNEL PERFORATED ON NO.3 SIDE	AISI 316L		AS REQ.	NOTE 1
8	PLUG FOR U-CHANNEL	LPDE		12	
9	PLATE FOR ORTOGONAL CONNECTION WITH 2 HOLES	AISI 316L		4	
10	BOLT M10X40 COMPLETE WITH PLANE WASHERS, GROWER SPRING WASHER AND NUT	AISI 316L		8	
11	HEX. BOLT M10X30 WITH PLANE WASHER AND NUT FOR CHANNEL WITH SPRING	AISI 316L		4	
12	HEX. BOLT M8X16 WITH LARGE PLANE WASHER	AISI 316L		2	

02



NOTES:

1) THE EXACT DIMENSIONS WILL BE DEFINED DURING ASSEMBLY FASE.
2) CABLE GLAND COMPLETE WITH LOCKNUT, NYLON WASHER, SERRATED WASHER, EXTERNAL RUBBER RING AND EARTH TAG (IF NECESSARY).
3) UNUSED CABLE ENTRIES MUST BE CLOSED WITH NICKEL PLATED BRASS PLUG.
4) FOR LAMPS IN HAZARDOUS AREA, USE ARMORED CABLE, DOUBLE CABLE GLAND AND EX JUNCTION BOX.

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON STRUCTURES AND COLUMNS

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

A3 | DRAWING NO. 123A90–DDL–EL–DD–20091 | SHEET 016 | REV. 02

CROSSWIND

ROSETTI MARINO

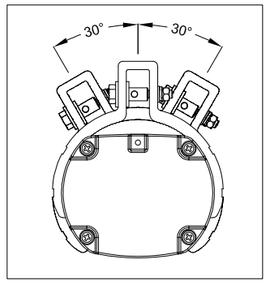
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 2
- Q.TY: 78
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

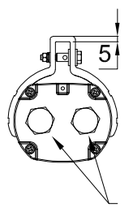
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



LF INFORMATION	
NOMINAL POWER	60W
CONSUMED POWER	40,9W
POWER FACTOR	>0,96
RATED CURRENT	185 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6218 lm
LIGHT INTENSITY	2191 cd
EFFICIENCY	152 lm/W
WEIGHT	3,5 Kg
IP PROTECTION	IP66
AUTONOMY	180 min
LUMEN EMERG. MODE	1168 lm

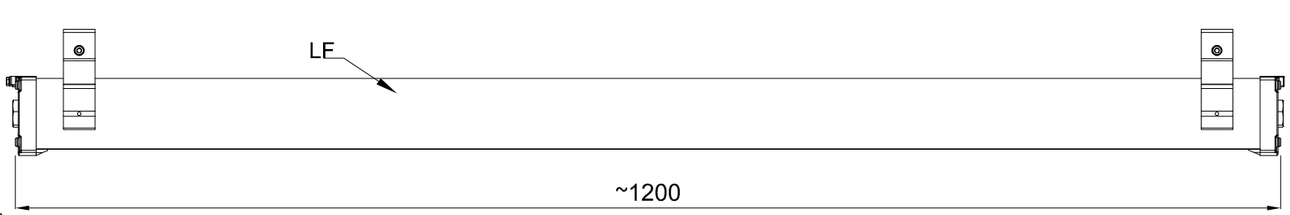
N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-1260N-BB	110-277Vac 50-60Hz 60W (RED. TO 40W) LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

LEFT SIDE (OUT)

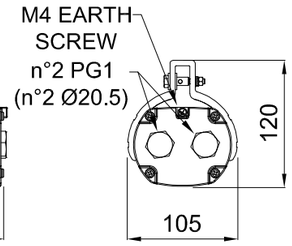


n°2 PG1
(n°2 Ø20.5)

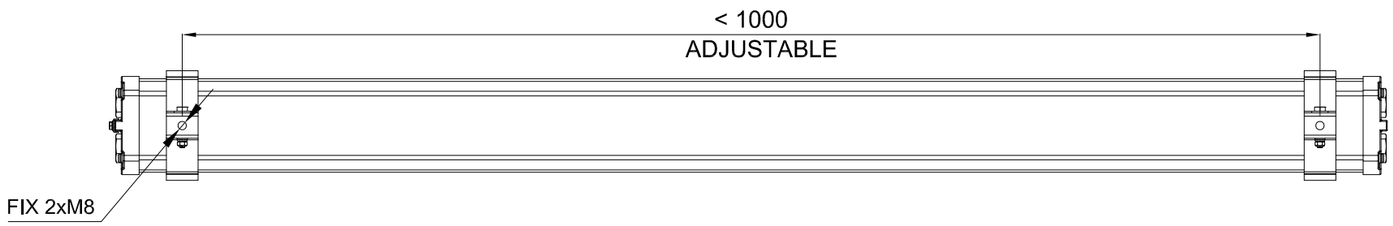
FRONT SIDE



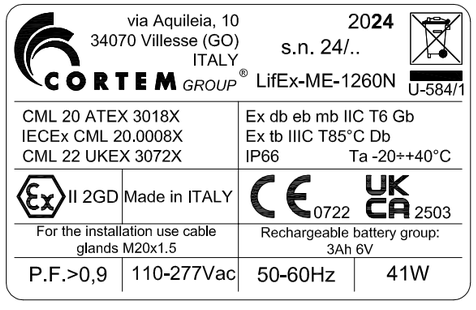
RIGHT SIDE (IN)



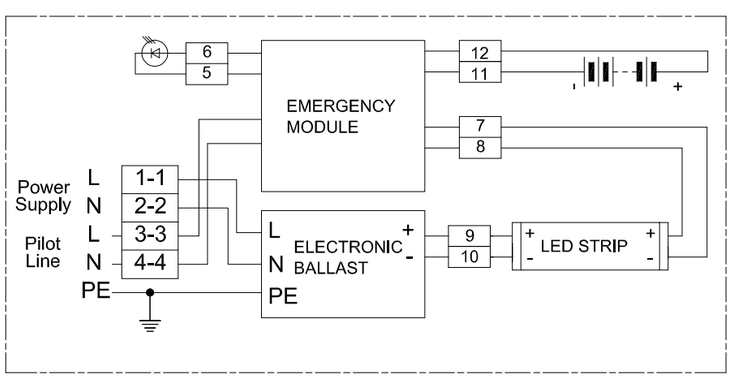
TOP SIDE



CERTIFICATE NAMEPLATE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
002 LIFEX-ME-1260N-BB/C2402693/20.

CORTEM JOB: COV2402693
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27521
SHEET 2 / TOT. 2
NEXT /

CORTEM GROUP
contem
FONDISONZO
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AUTHORIZATION

Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	45W LED Linear Luminaire-Emergency Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-1260N-BB		01
4	Serial Number	by vendor			00
5	Quantity	78 Nos.	78 Nos	(69+9 Spare)	01
6	Location / Module	Lower deck/Upper deck/ Below lower deck			00
7	**LED Lamp**				
8	Nominal power	45 watts	60 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Required			00
25	Battery type	NiCd internal battery, gas-tight	Ni/Mh		01
26	Autonomy	180 mins.	180 min		01
27	Emergency luminous flux	1168 lm	1168 lm		01
28	**Mechanical parameters**				
29	Dimension	by vendor	1200x105x120 (mm)		01
30	Weight	by vendor	4.5kg		01

Note:

This document undergoes an issuance cycle within EDMS "Fusionlive".
Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ITEM	Tag	EJB-200N1-10-L3-02	: JB - EMERGENCY LIGHTING			Dwg	123A90-DDL-EL-DL-20120
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	LD
TASK	code	C10001429		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX31 Junction and Marshalling Box

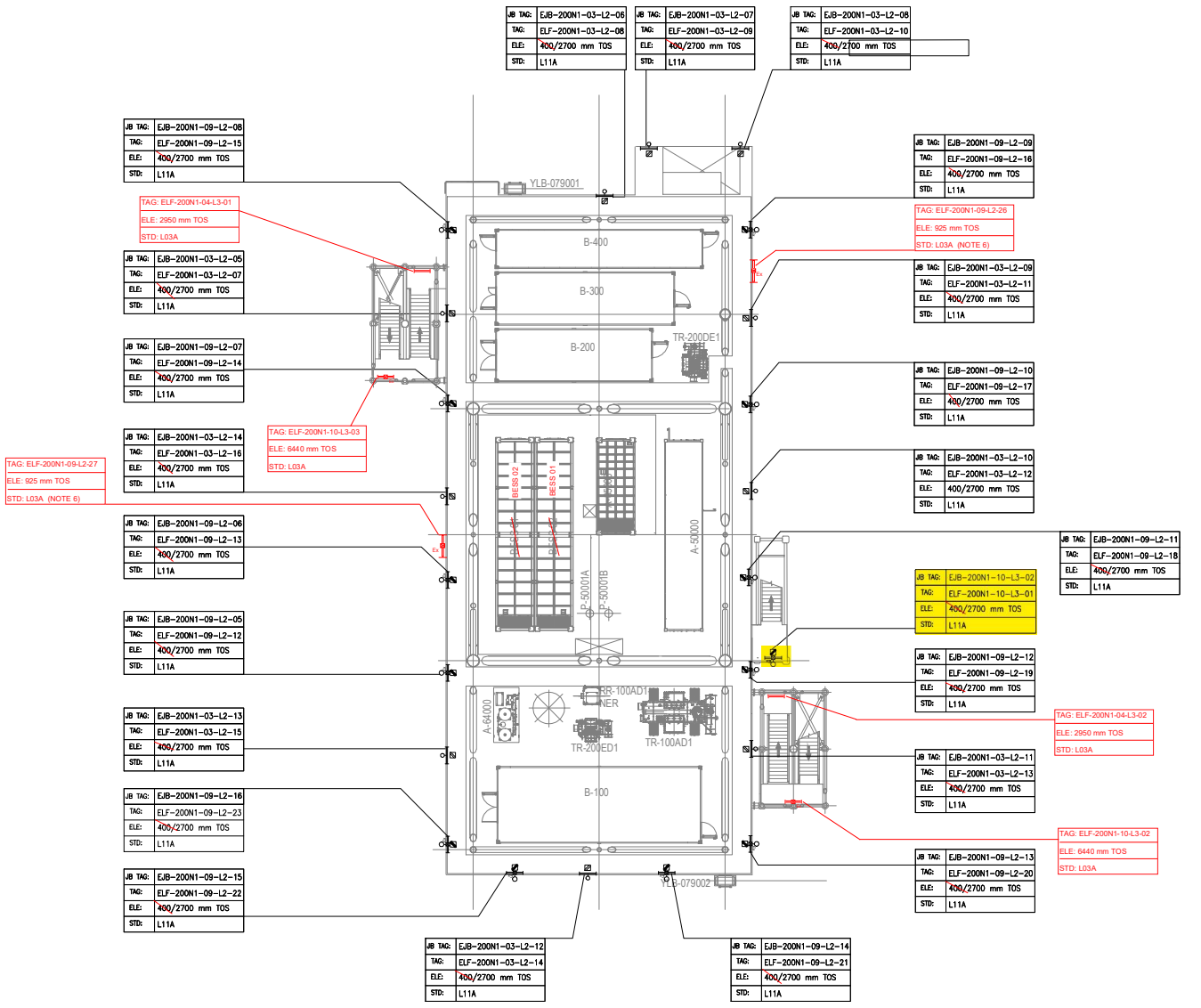
1	Check box is de-energized and safe.	OK
2	Check box is correctly mounted and easily accessible.	PL
3	Check box tagging against drawing.	OK
4	Check nameplate data is correct.	OK
5	Check flameproof joints are clean and greased with approved lubricants (if required).	NA
6	Check for damaging gaskets.	OK
7	Check all bolts are fitted and correcly tighted .	OK
8	Check all unused entries are suitably plugged.	OK
9	Check earthing and bonding against drawings.	OK
10	Check terminal blocks segregation barriers are fitted where necessary.	NA
11	If required produce Red Line Mark Up for "AS BUILT"	

Comments: Note 04: Cable installation and connection on both side will be completed during OFFSHORE phase. (See Ref. task C10004921).

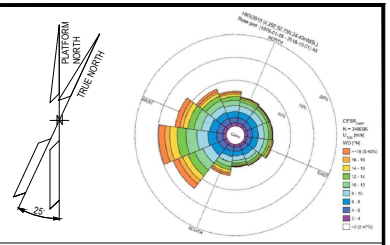
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	VIP	RM(ROSETTI MARINO)	
Name	Madhankumar Arunagiri	Giovanni Tangianu	
Date	2025-04-17	2025-04-17	
Signature	PROVERLIS Digitaly signed by Madhankumar Arunagiri 2025-04-17T12:35:46.912Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2025-04-17T14:09:06.847Z	

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

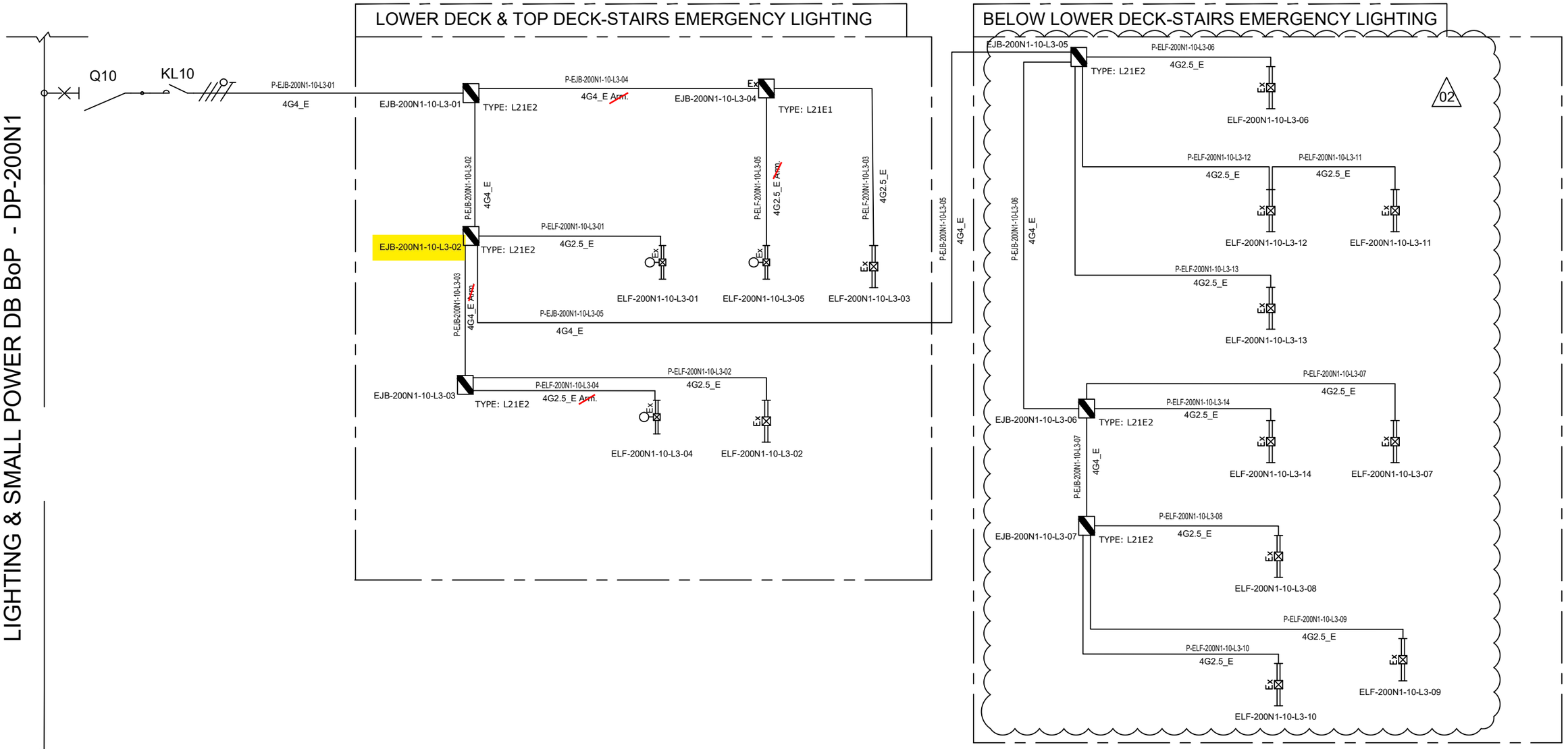
ROSETTI MARINO

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

LIGHTING & SMALL POWER DB BoP - DP-200N1



NOTE:	
ELF-200N1-10-L3-01	LOWER DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-02	
ELF-200N1-10-L3-03	
ELF-200N1-10-L3-04	TOP DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-05	

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

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

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
			ELF-200N1-10-L3-09		
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
STAIRS EMERGENCY LIGHTING (LOWER DECK,TOP DECK AND BELOW LOWER DECK)

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

SCALE : NTS

A3

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

SHEET 007

REV. 02

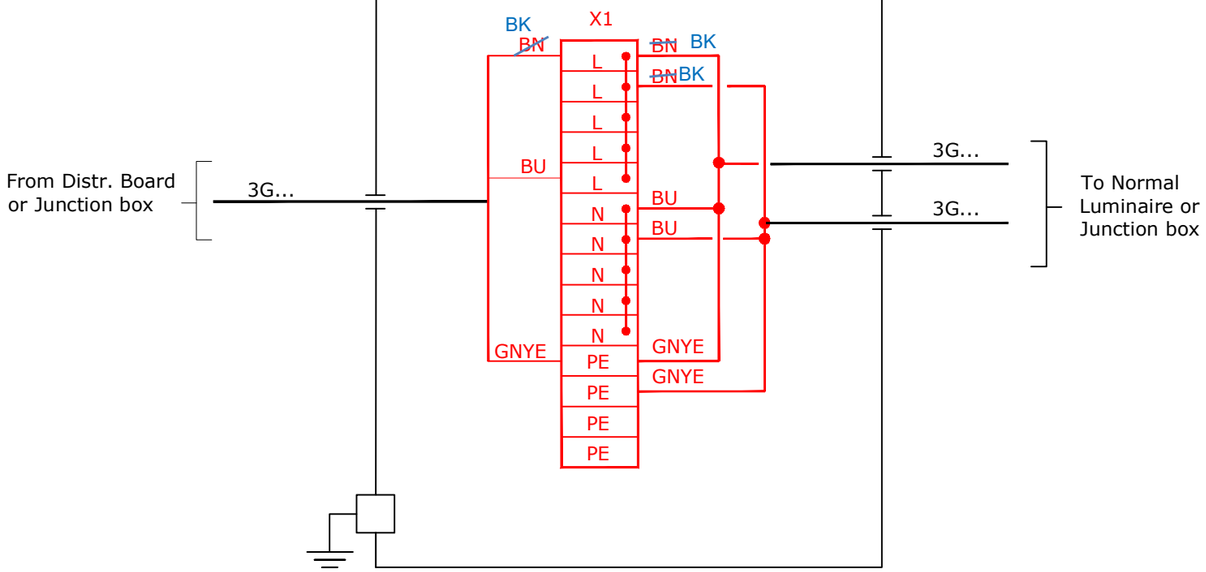
File Name : 123A90-DDL-EL-DG-20125

F.to UNI A3: 420mmx297mm

TYPE : L21N1 & L21N2

ITEM: NORMAL LIGHTING JUNCTION BOX

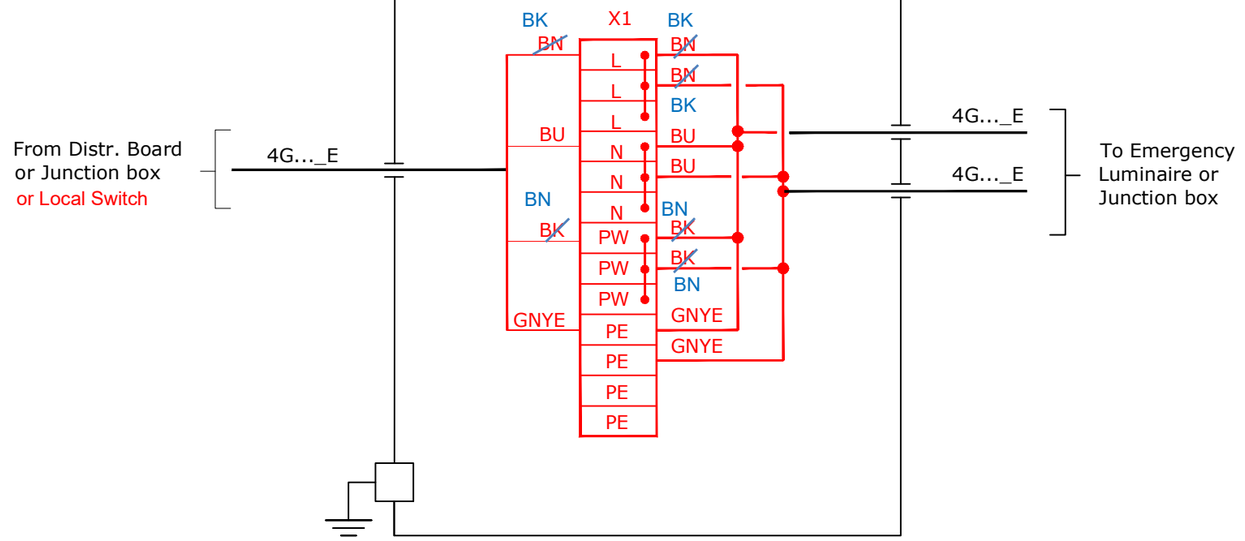
TAG : Typical



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. 123A90-DDL-EL-DG-20125

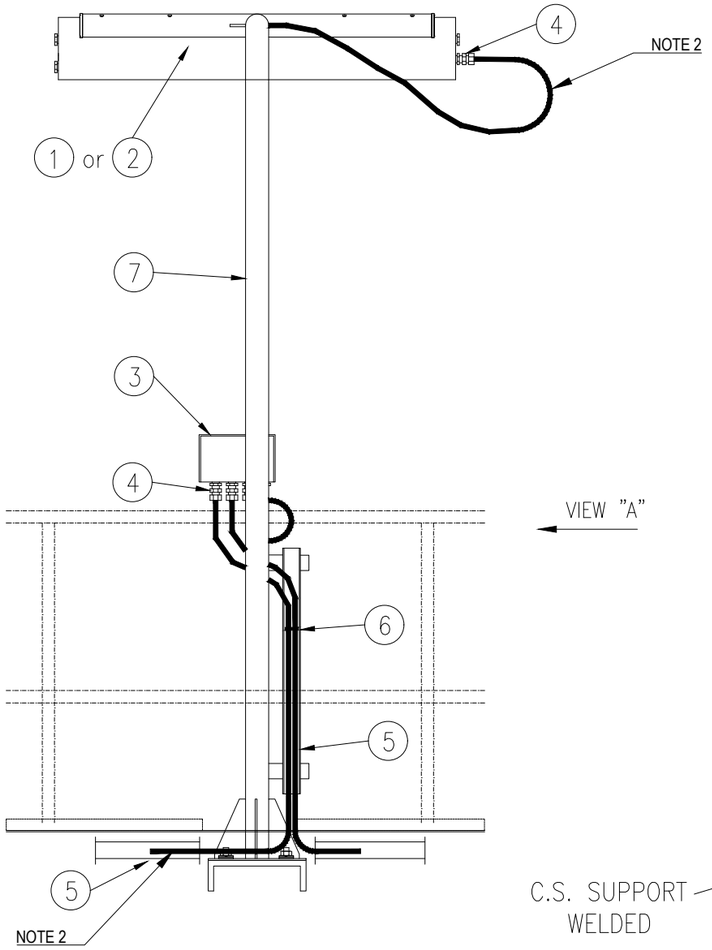
SHEET 016

REV. 01

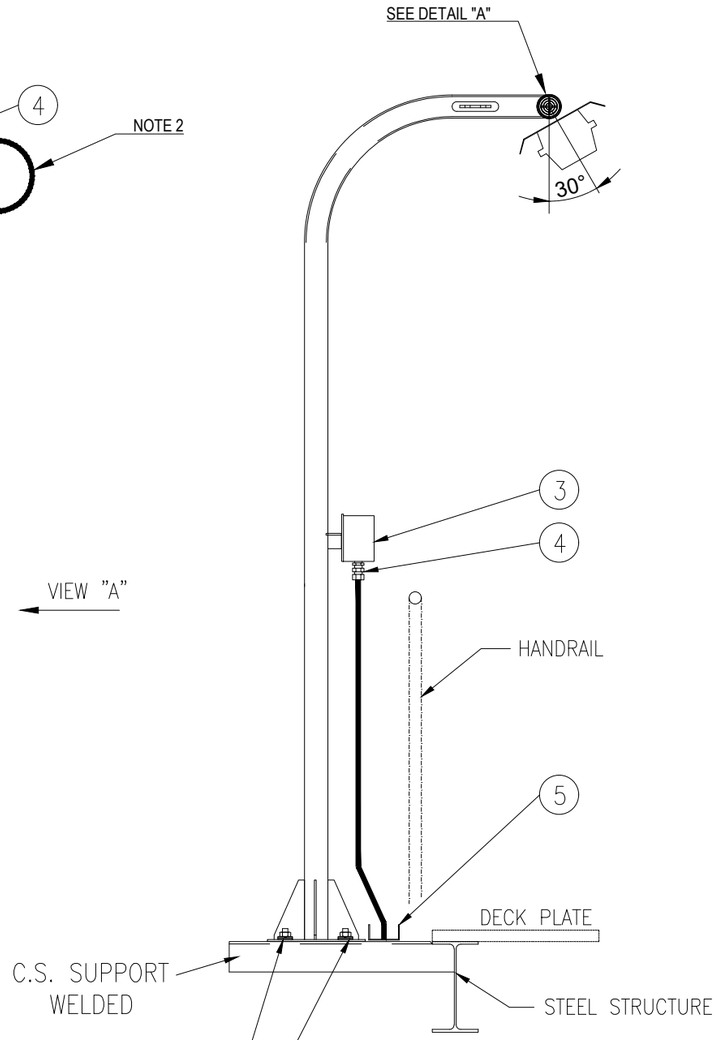
File Name : 123A90-DDL-EL-DG-20125

F.to UNI A3: 420mmx297mm

L11A

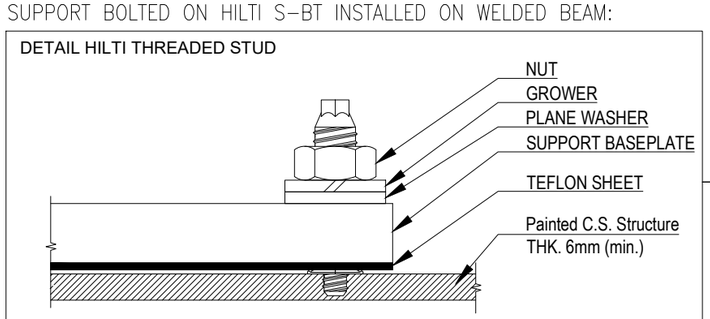


VIEW "A"

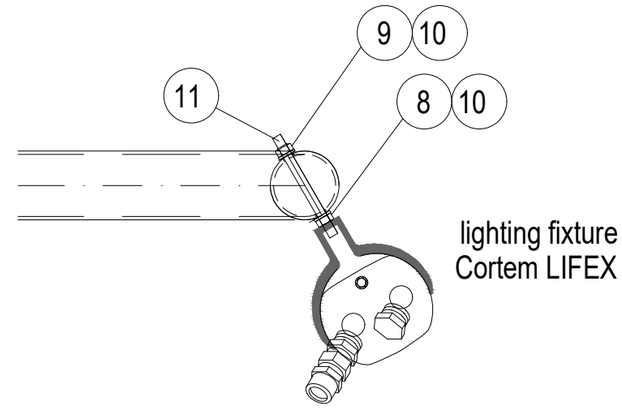


VIEW "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND ~~C/W EARTH TAG~~, WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

02

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

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

A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

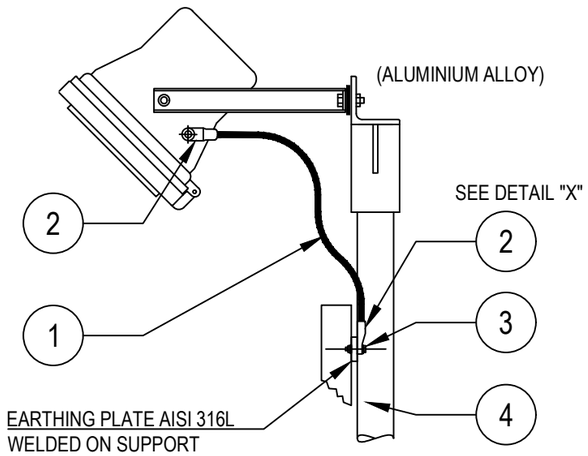
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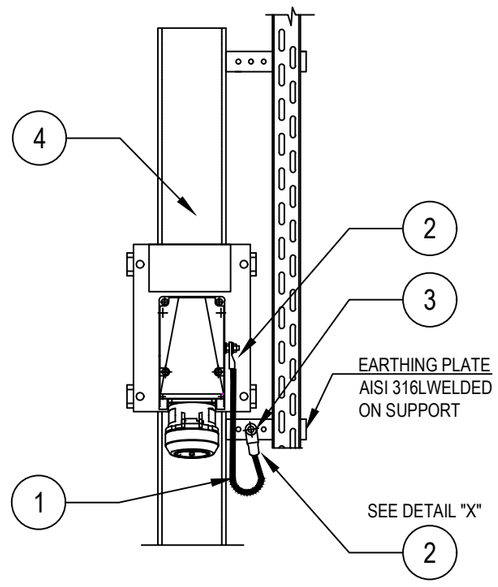
E05

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	Y/G INSULATING COPPER CONDUCTOR	COPPER	$6mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$6mm^2$	2	
3	HEXAG. BOLTS, PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M8X30	1	

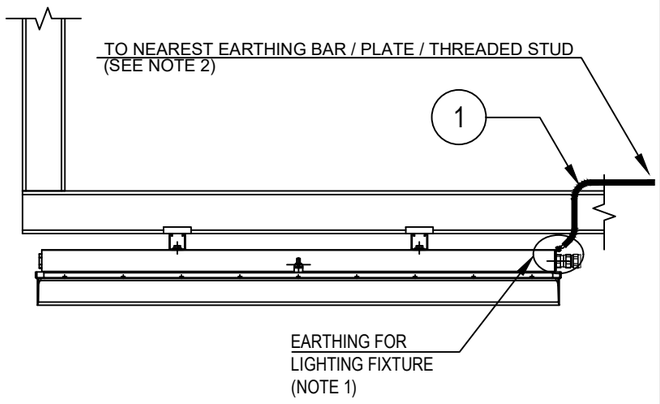
LIGHTING FIXTURE/GENERAL ITEM ON POLE



POWER SOCKET OUTLET

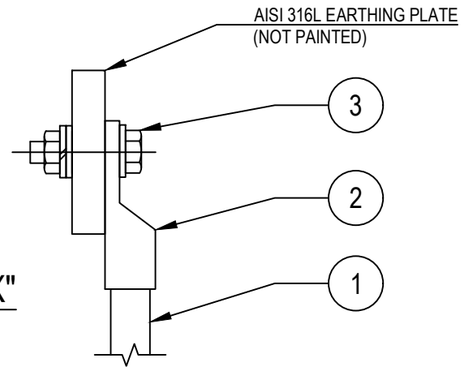


LIGHTING FIXTURES



Refer also to TYP. "E32" (SEE SHEET 23)

DETAIL "X"



TYPICAL VALID ALSO FOR NAVAID LIGHTS

NOTES:

1) ALL LIGHTING FIXTURES AND RELEVANT ARMOUR OF THE CABLE, ARE CONNECTED TO EARTH CONNECTION THROUGH THE EARTHING TAG OF THE CABLE GLAND

2) FOR EARTHING POINT USE ONE OF THE FOLLOWING METHODS:
TYP. E03A-D sh. 004 (EARTHING BAR ON STRUCT. UNISTRUT AND CABLE TRAY)
TYP. E11C sh. 003 (EARTHING PLATE)
TYP. E11D sh. 003 (THREADED STUD ON EXTERNAL STRUCTURE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_I	07/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR ELECTRICAL EQUIPMENTS

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

A3 | DRAWING NO. 123A90-DDL-EL-DD-20090 | SHEET 006 | REV. 02

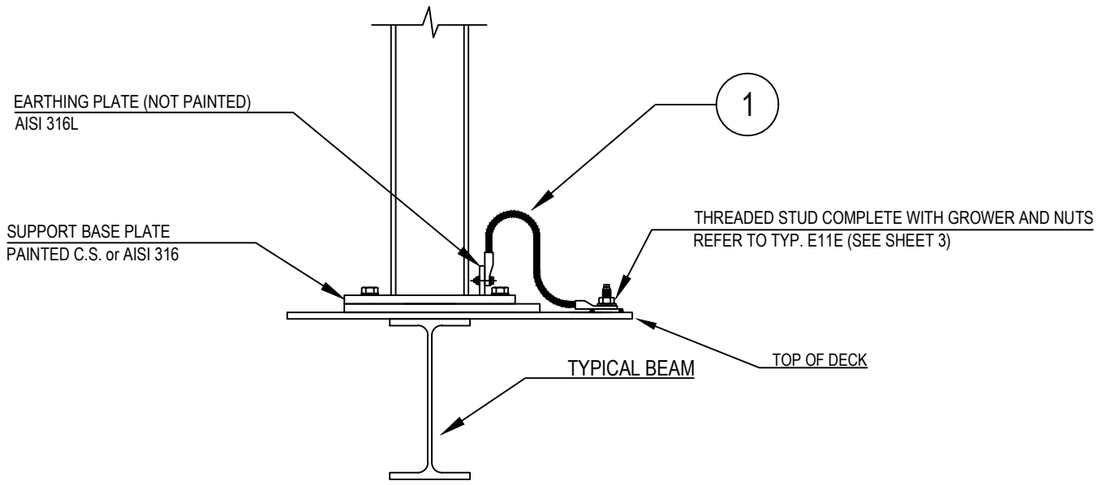
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

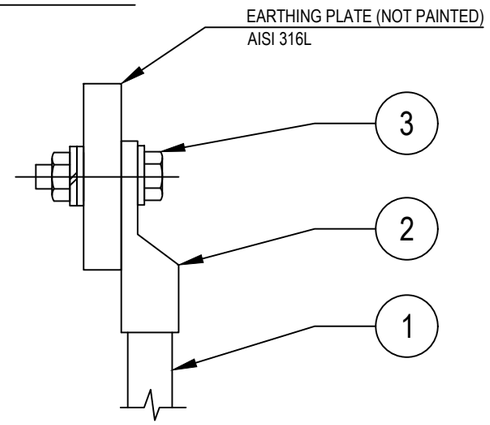
E24

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	As. R. Y/G INSULATING COPPER CONDUCTOR	COPPER	35mm^2		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	35mm^2	2	~~NOTE 1~~
3	HEXAG. BOLT M10X30 COMPLETE WITH PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M10X30	2	

GENERIC SUPPORT BOLTED ON STRUCTURE



DETAIL "X"



NOTES:
1) ~~CABLE LUG CRIMPING METHOD SHALL BE HEXAGONAL COMPRESSION DIES ONLY.~~
2) EXTERNAL EARTHING CONNECTION ONLY SHALL BE PROTECTED AGAINST CORROSION USING OXIDE RESISTANT COMPOUND (E.G. COPPER GREASE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_I	07/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR POLE/SUPPORT OF GENERIC EQUIPMENTS

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

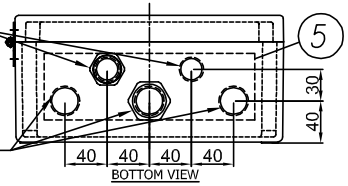
A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–EL–DD–20090	012	02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

(10)(4) N°2 PASSING HOLES Ø20.2
C/W N°1 BNK PLUG M20 +
N°1 DUSTPROOF PVC PLUG

(3)(3) N°3 PASSING HOLES Ø25.2
C/W N°1 BNK PLUG M25 +
N°2 DUSTPROOF PVC PLUG



(8) I2400722-B015I00029809

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC
Via Italia 33 - 20060 Gessate (MI) ITALY

CE 0080 II 2G II 2D
FIDI 21ATEX 0090X
IECEx FIDI 21.0015X
Year of construction:

MADE IN ITALY

TYPE: AQ-252612P
230VAC 50Hz 20A
Max Dis. P. 6W

Ex eb IIC T6 Gb
Ex tb IIIC T85°C Db
T.amb. -20/+40°C
IP66
Serial Nr.

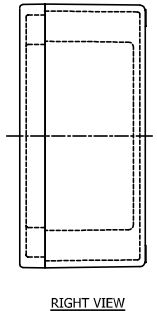
WARNINGS : DO NOT OPEN WHEN ENERGIZED

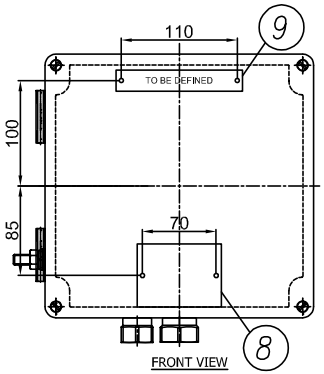
(9) PLATE DETAIL



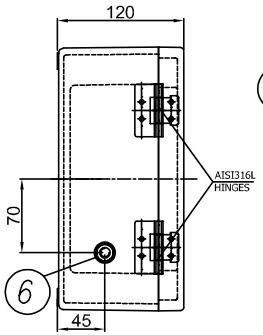
MATERIAL: LAMINATED PLASTIC
BACKGROUND: WHITE
LETTERS:BLACK

(7) JB for Normal Lighting have terminals bridge: L-L-L-L-L, N-N-N-N-N, PE-PE-PE-PE-PE - JB for Emergency Lighting have terminals bridge: L-L-L, N-N-N, PW-PW-PW, PE-PE-PE-PE-PE

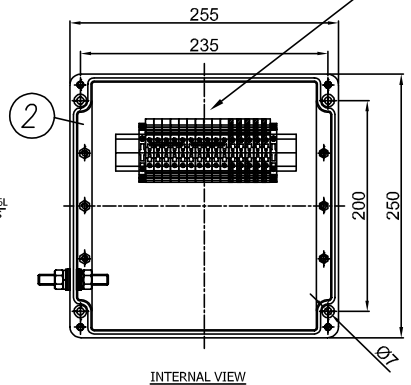

RIGHT VIEW



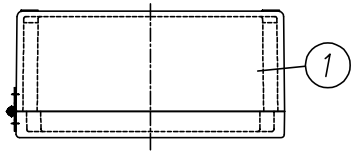
FRONT VIEW



LEFT VIEW



INTERNAL VIEW



TOP VIEW

ITEM	DESCRIPTION	Pcs Q.TY	NOTE/MAT.	CODE	MANUFACTURER
11	DUSTPROOF PVC PLUG Ø25	2	–	.	TECHNOR ITALSMEA
10	DUSTPROOF PVC PLUG Ø20	1	–	.	TECHNOR ITALSMEA
9	LAMINATED PLASTIC TAG 120X20	1	–	.	TECHNOR ITALSMEA
8	AISI316L CERTIFICATE PLATE 80X60	1	–	.	TECHNOR ITALSMEA
7	BEIGE TERMINAL BLOCK SIZE 6 SQMM EARTH TERMINAL BLOCK SIZE 6 SQMM	10 5	WDU–6 WPE–6	.	WEIDMULLER
6	AISI316L INT/EXT EARTH BOLT M10	1	BTP–10	.	TECHNOR ITALSMEA
5	BRASS CONTINUITY PLATE THK. 0.8 MM	1	–	.	TECHNOR ITALSMEA
4	NICKEL PLATED BRASS PLUG M20	1	T20	.	TECHNOR ITALSMEA
3	NICKEL PLATED BRASS PLUG M25	1	T25	.	TECHNOR ITALSMEA
2	INTERNAL MOUNTING PLATE	1	PS–2526	.	TECHNOR ITALSMEA
1	GRP ENCLOSURE	1	AQ–252612P	.	TECHNOR ITALSMEA

-UNPAINTED (BLACK NATURAL)
Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti
TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting

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

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

SHEET 004

REV. 04

F.to UNI A3: 420mmx297mm

File Name : 1724001481-EL-DA-00003 Rev. 01

ENCLOSURE N°	TAG LIST	NORMAL LIGHTNING	EMERGENCY LIGHTNING
1	EJB-200N1-03-L2-04	X	
2	EJB-200N1-03-L2-03	X	
3	EJB-200N1-03-L2-01	X	
4	EJB-200N1-03-L2-02	X	
5	EJB-200N1-03-L2-12	X	
6	EJB-200N1-03-L2-11	X	
7	EJB-200N1-03-L2-10	X	
8	EJB-200N1-03-L2-09	X	
9	EJB-200N1-03-L2-08	X	
10	EJB-200N1-03-L2-07	X	
11	EJB-200N1-03-L2-06	X	
12	EJB-200N1-03-L2-05	X	
13	EJB-200N1-03-L2-14	X	
14	EJB-200N1-03-L2-13		X
15	EJB-200N1-09-L2-17		X
16	EJB-200N1-09-L2-01		X
17	EJB-200N1-09-L2-04		X
18	SPARE (TO BE PROVIDED BLANK)		X
19	EJB-200N1-09-L2-02		X
20	EJB-200N1-09-L2-15		X
21	EJB-200N1-09-L2-14		X
22	EJB-200N1-09-L2-13		X
23	EJB-200N1-09-L2-12		X
24	EJB-200N1-09-L2-11		X
25	EJB-200N1-09-L2-10		X
26	EJB-200N1-09-L2-09		X
27	EJB-200N1-09-L2-08		X
28	EJB-200N1-09-L2-07		X
29	EJB-200N1-09-L2-06		X
30	EJB-200N1-09-L2-05		X
31	EJB-200N1-09-L2-16	X	
32	EJB-200N1-04-L3-01	X	
33	EJB-200N1-04-L3-02	X	
34	EJB-200N1-10-L3-05		X
35	EJB-200N1-10-L3-06		X
36	EJB-200N1-10-L3-07		X
37	EJB-200N1-10-L3-08		X
38	EJB-200N1-10-L3-09		X
39	EJB-200N1-10-L3-02		X
40	EJB-200N1-10-L3-01		X
41	EJB-200N1-10-L3-03		X
42	EJB-200N1-10-L3-04		X
43	EJB-200N1-02-L1-03	X	
44	EJB-200N1-02-L1-02	X	
45	EJB-200N1-02-L1-01	X	
46	SPARE (TO BE PROVIDED BLANK)	X	
47	EJB-200N1-02-L1-10	X	
48	EJB-200N1-02-L1-19	X	
49	EJB-200N1-02-L1-18	X	

ENCLOSURE N°	TAG LIST	NORMAL LIGHTNING	EMERGENCY LIGHTNING
50	EJB-200N1-02-L1-17	X	
51	EJB-200N1-02-L1-16	X	
52	EJB-200N1-02-L1-15	X	
53	EJB-200N1-02-L1-14	X	
54	EJB-200N1-02-L1-13	X	
55	EJB-200N1-02-L1-12	X	
56	EJB-200N1-02-L1-11	X	
57	EJB-200N1-02-L1-06	X	
58	EJB-200N1-02-L1-05	X	
59	EJB-200N1-02-L1-07	X	
60	EJB-200N1-02-L1-08	X	
61	EJB-200N1-02-L1-09	X	
62	EJB-200N1-08-L1-03		X
63	SPARE (TO BE PROVIDED BLANK)		X
64	EJB-200N1-08-L1-01		X
65	EJB-200N1-08-L1-04		X
66	EJB-200N1-08-L1-19		X
67	EJB-200N1-08-L1-18		X
68	EJB-200N1-08-L1-17		X
69	EJB-200N1-08-L1-16		X
70	EJB-200N1-08-L1-15		X
71	EJB-200N1-08-L1-14		X
72	~~EJB-200N1-08-L1-13~~ EJB-200N1-02-L1-20	X	
73	EJB-200N1-08-L1-12		X
74	EJB-200N1-08-L1-11		X
75	EJB-200N1-08-L1-10		X
76	EJB-200N1-08-L1-20		X
77	EJB-200N1-08-L1-05		X
78	EJB-200N1-08-L1-06		X
79	EJB-200N1-08-L1-07		X
80	EJB-200N1-08-L1-09		X
81	EJB-200N1-08-L1-08		X
82	EJB-200F2-01	X	
83	EJB-200F2-02	X	
84	SPARE (TO BE PROVIDED BLANK)	X	
85	SPARE (TO BE PROVIDED BLANK)	X	
86	SPARE (TO BE PROVIDED BLANK)	X	
87	SPARE (TO BE PROVIDED BLANK)	X	
88	SPARE (TO BE PROVIDED BLANK)	X	
89	SPARE (TO BE PROVIDED BLANK)		X
90	SPARE (TO BE PROVIDED BLANK)		X
91	SPARE (TO BE PROVIDED BLANK)		X
92	SPARE (TO BE PROVIDED BLANK)		X

Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting–Tag List

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

SCALE : NTS

A3

DRAWING NO. 1724001481–EL–DA–00003

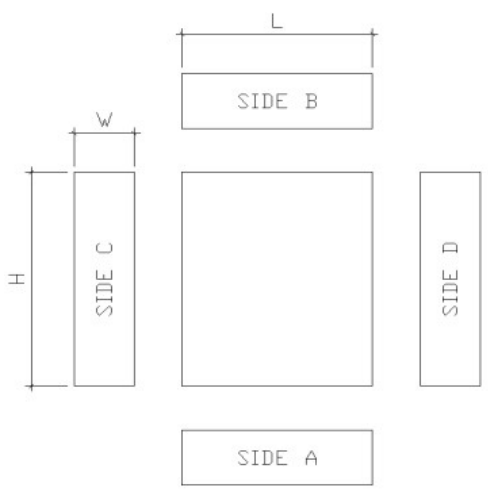
SHEET 005

REV. 04

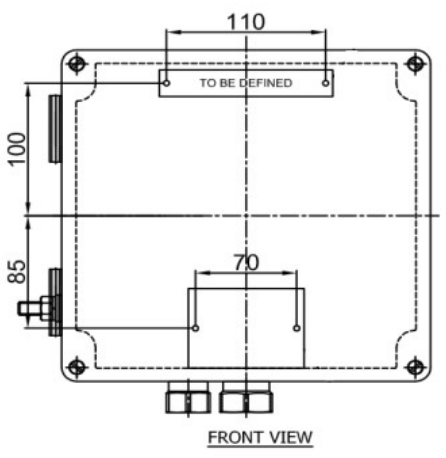
F.to UNI A3: 420mmx297mm

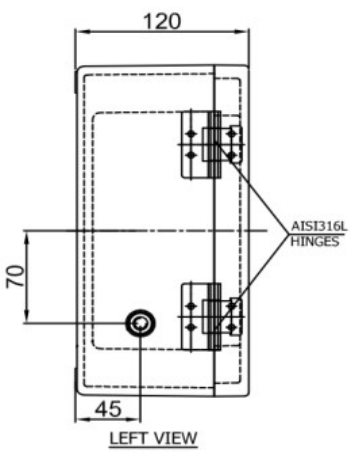
File Name : 1724001481-EL-DA-00003 Rev. 01

Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	Junction Box for Normal & Emergency Lighting				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by Vendor	AQ-252612P		01
4	Serial Number	by Vendor	B011041010004		01
5	Quantity	40+4(Spare)		(39+5 Spare)	01
6	Application	Lighting pole JB/Lighting JB			00
7	**Installation area**				
8	Indoor/Outdoor	Outdoor			00
9	Safe Area/Hazardous Area	Safe area			00
10	Zone 1/Zone 2	NA			00
11	Temp. Class	NA	Ex eb IIC, T6 Gb		01
12	**Electrical input data**				
13	Voltage	230 V ac	230 V ac		00
14	Number of Phases	1ph + N + PE			00
15	**Material**				
16	Body	GRP	GRP		01
17	Execution	Normal	Ex eb	Will be used ATEX even in safe area	01
18	Protection Degree	IP56	IP 66		01
19	**Accessories**				
20	Hinged Cover	Required	AISI316L Hinges		01
21	Gasket	Required			00
22	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
23	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
24	Internal Ground Bar	Required		connected to earth stud	00
25	Earth Stud	Required			00
26	Drainage Valve	Required			00
27	Pad lockable Cover	Required			00
28	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
29	**Side 'A'**				
30	Hubs Qty.	5	5		01
31	Size	No.3 M25, No.2 M20	No.3 Ø 25.2 mm, No.2 Ø 20.2 mm		01
32	Thread	ISO-M			00
33	Plug	No. 1 M20, No.1 M25	No. 1 Ø 20.2 mm, No.1 Ø 25.2 mm	nickel-plated brass	01
34	**Side 'B'**				
35	Hubs Qty.	Not Required			00
36	Size	NA			00
37	Thread	NA			00
38	**Side 'C'**				
39	Hubs Qty.	Not Required			00
40	Size	NA			00
41	Thread	NA			00
42	**Side 'D'**				
43	Hubs Qty.	Not Required			00
44	Size	NA			
45	Thread	NA			
46	**Terminals**				
47	Size [mm^2]	Suitable for 6 Sq.mm & 2.5 Sq.mm Cable	M25 & M20	suitable with wire-end ferrules DIN 46228	01
48	Qty.	n°5 for Ph // n°5 for N // n°5 for PE	n°5 for Ph // n°5 for N // n°5 for PE	jumpered	01
49	**Bonding Cable (yellow/Green)**				
50	Size [mm^2]	by vendor		6 mm^2	01
51	Qty.	Min. 0.15m			00
52	**Dimension**				
53	Height 'H' [mm]	by vendor	120 mm		01
54	Width 'W' [mm]	by vendor	250 mm		01
55	Length 'L' [mm]	by vendor	255 mm		01
56	Weight [Kg]	by vendor	2.65 Kg		01
57	JB Code (*)	Remarks			
58					



NOTES:
(*) Filled by Vendor





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ITEM	Tag	EJB-200N1-10-L3-03	: JB - EMERGENCY LIGHTING			Dwg	123A90-DDL-EL-DL-20120
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	UD
TASK	code	C10001430		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX31 Junction and Marshalling Box

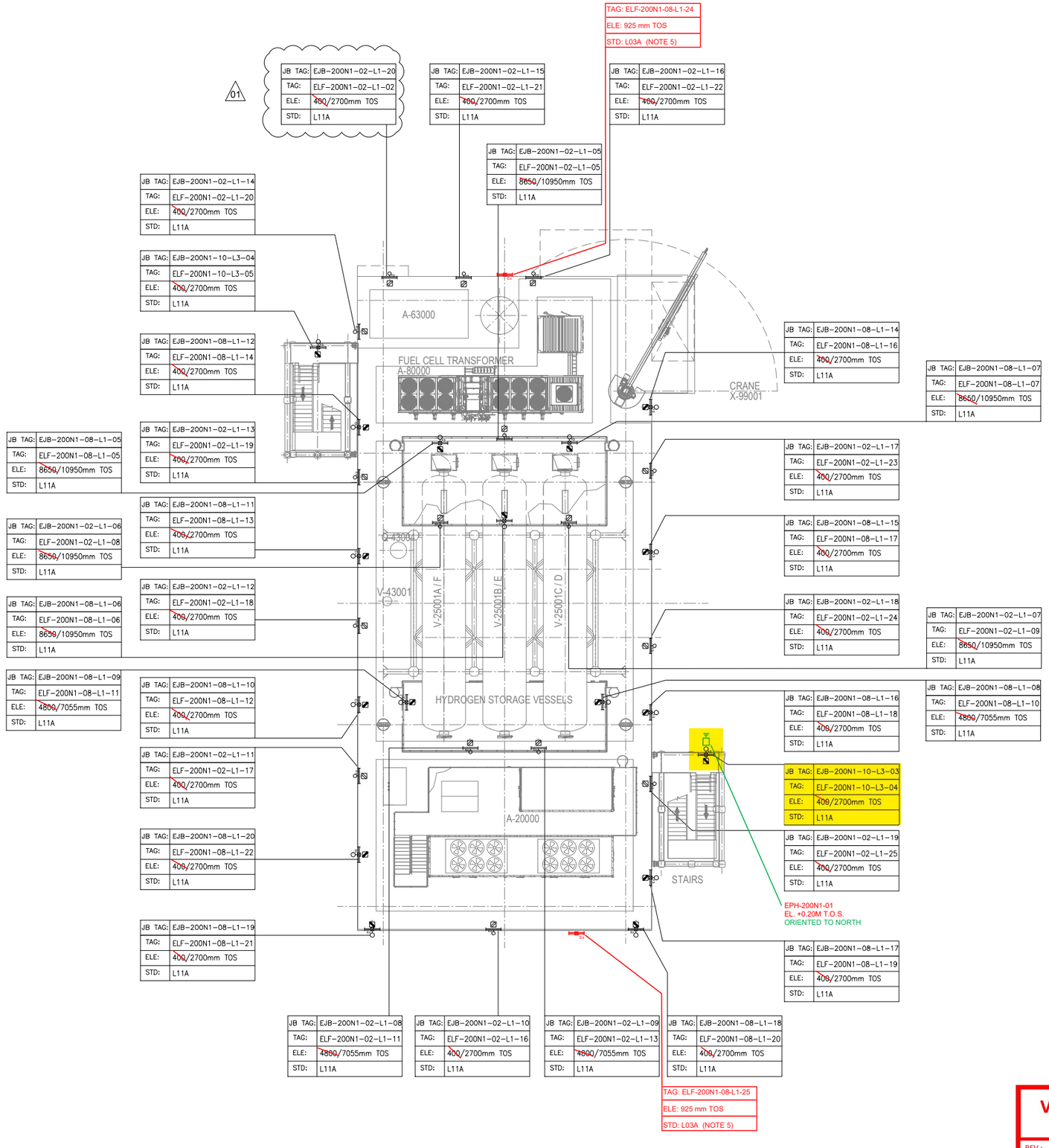
1	Check box is de-energized and safe.	OK
2	Check box is correctly mounted and easily accessible.	OK
3	Check box tagging against drawing.	OK
4	Check nameplate data is correct.	OK
5	Check flameproof joints are clean and greased with approved lubricants (if required).	NA
6	Check for damaging gaskets.	OK
7	Check all bolts are fitted and correcly tighted .	OK
8	Check all unused entries are suitably plugged.	OK
9	Check earthing and bonding against drawings.	OK
10	Check terminal blocks segregation barriers are fitted where necessary.	NA
11	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

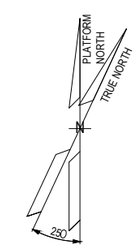
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Alessio Polo	
Date	2025-01-23	2025-02-20	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-23T15:37:20.332Z	PROVERLIS Digitaly signed by Alessio Polo 2025-02-20T14:21:41.396Z	

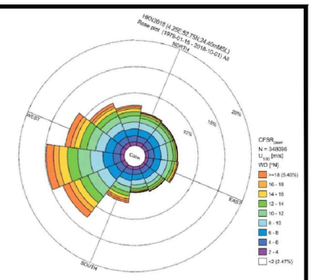
DRAWING NO. 123A90-DDL-EL-DL-20118

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

ROSETTI MARINO SpA

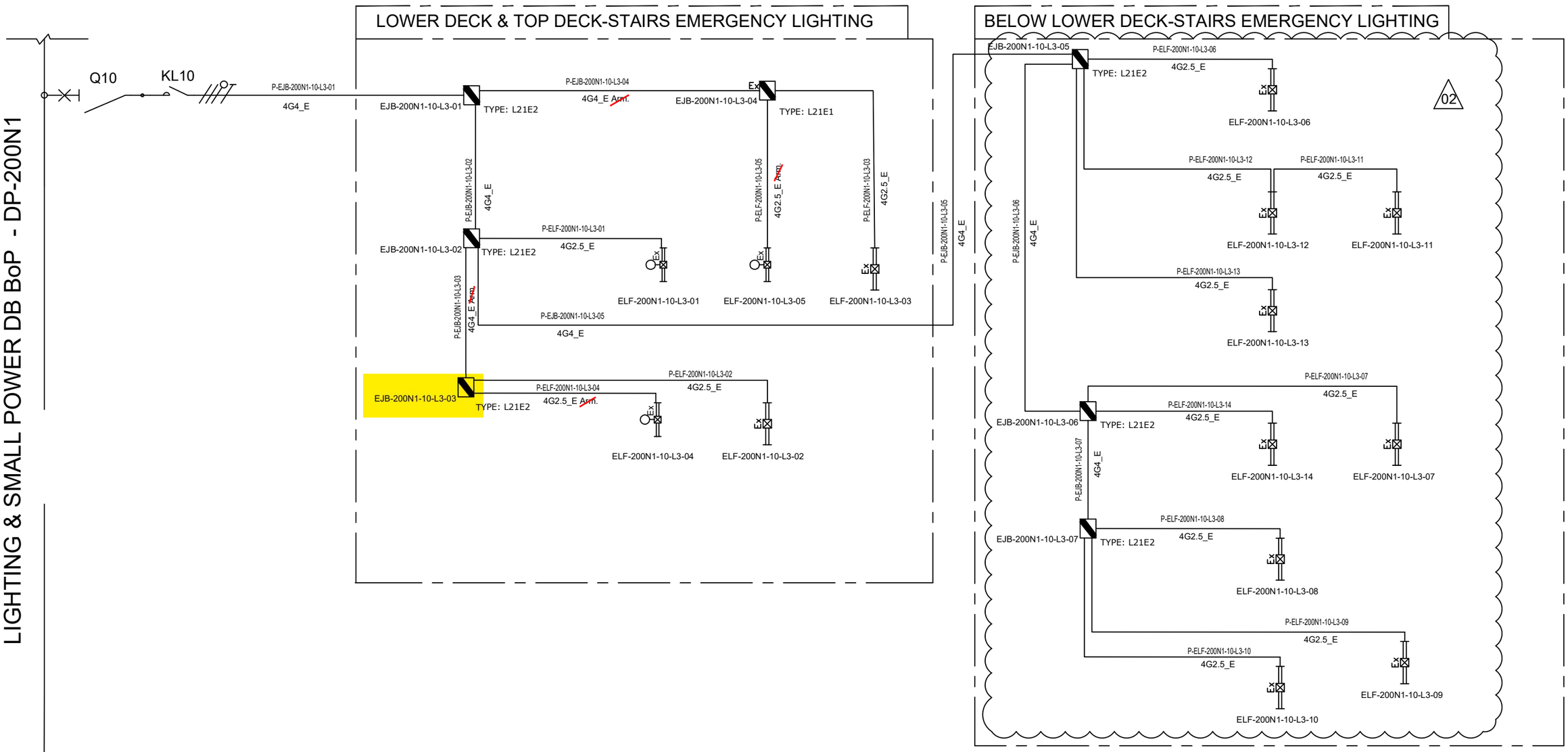
CROSSWIND | ROSETTI MARINO

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 1of2	REV. 01

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

LIGHTING & SMALL POWER DB BoP - DP-200N1



NOTE:	
ELF-200N1-10-L3-01	LOWER DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-02	
ELF-200N1-10-L3-03	
ELF-200N1-10-L3-04	TOP DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-05	

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

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

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
		ELF-200N1-10-L3-09			
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
STAIRS EMERGENCY LIGHTING (LOWER DECK,TOP DECK AND BELOW LOWER DECK)

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

SCALE : NTS

A3

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

SHEET 007

REV. 02

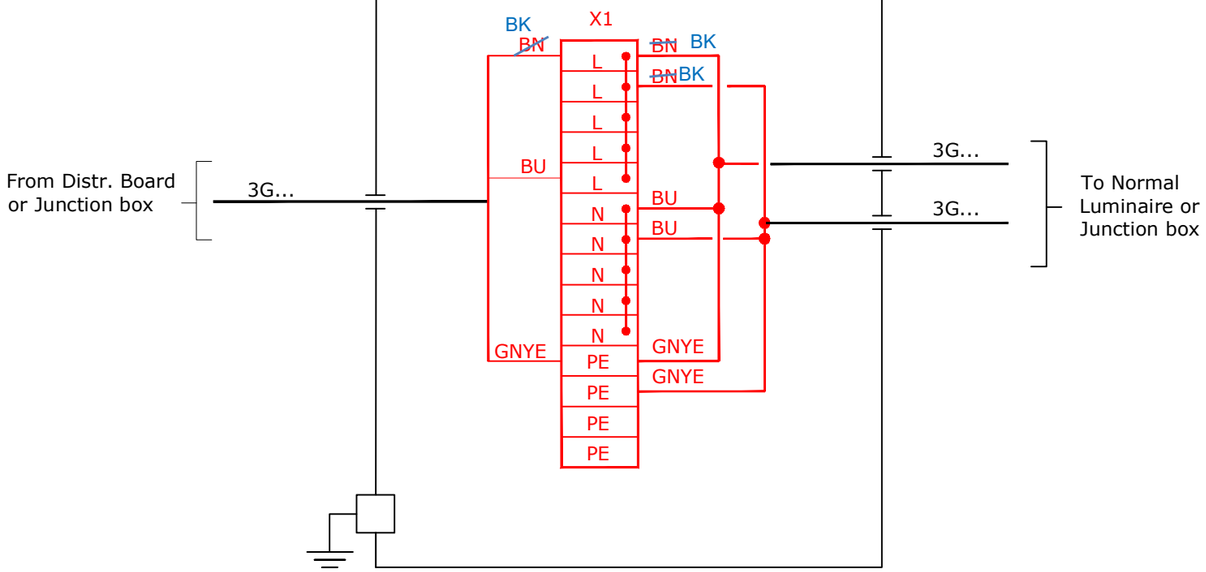
File Name : 123A90-DDL-EL-DG-20125

F.to UNI A3: 420mmx297mm

TYPE : L21N1 & L21N2

ITEM: NORMAL LIGHTING JUNCTION BOX

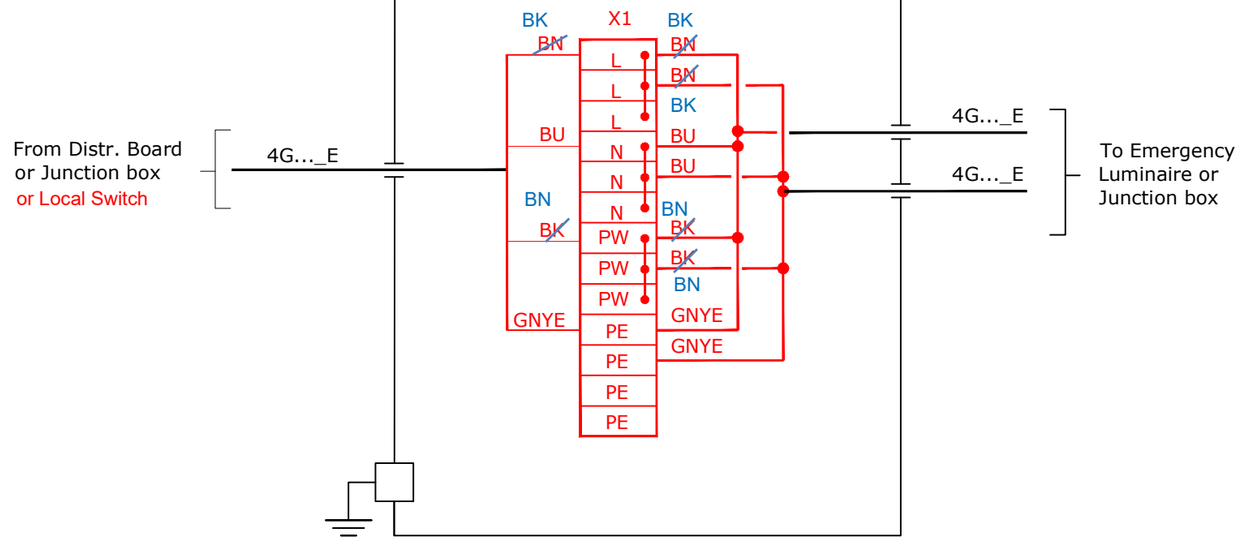
TAG : Typical



TYPE : L21E1 & L21E2

ITEM: EMERGENCY LIGHTING JUNCTION BOX

TAG : Typical



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)

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

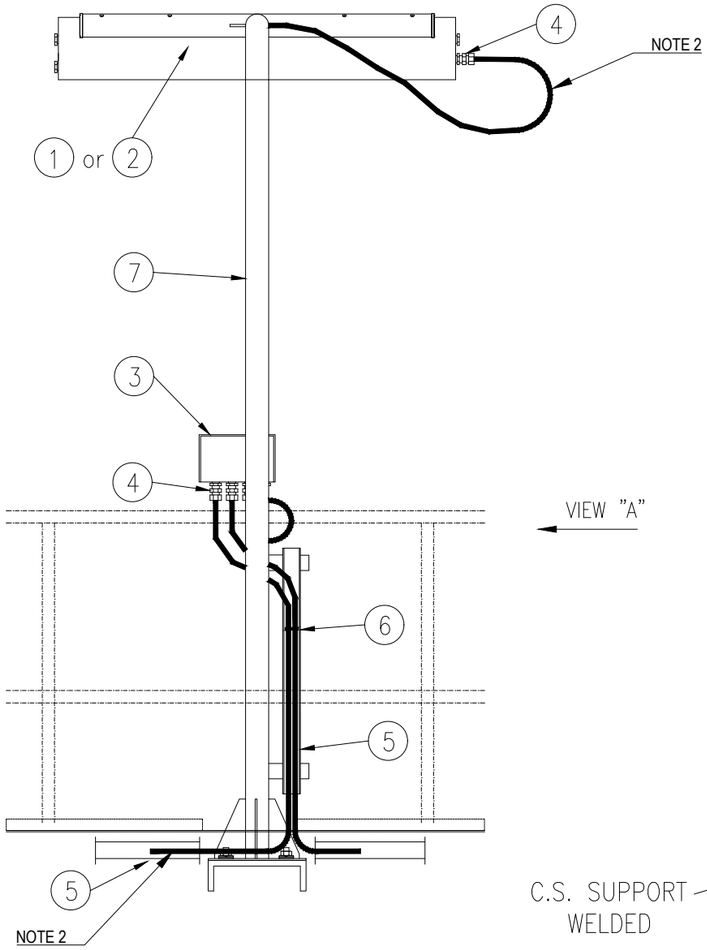
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

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

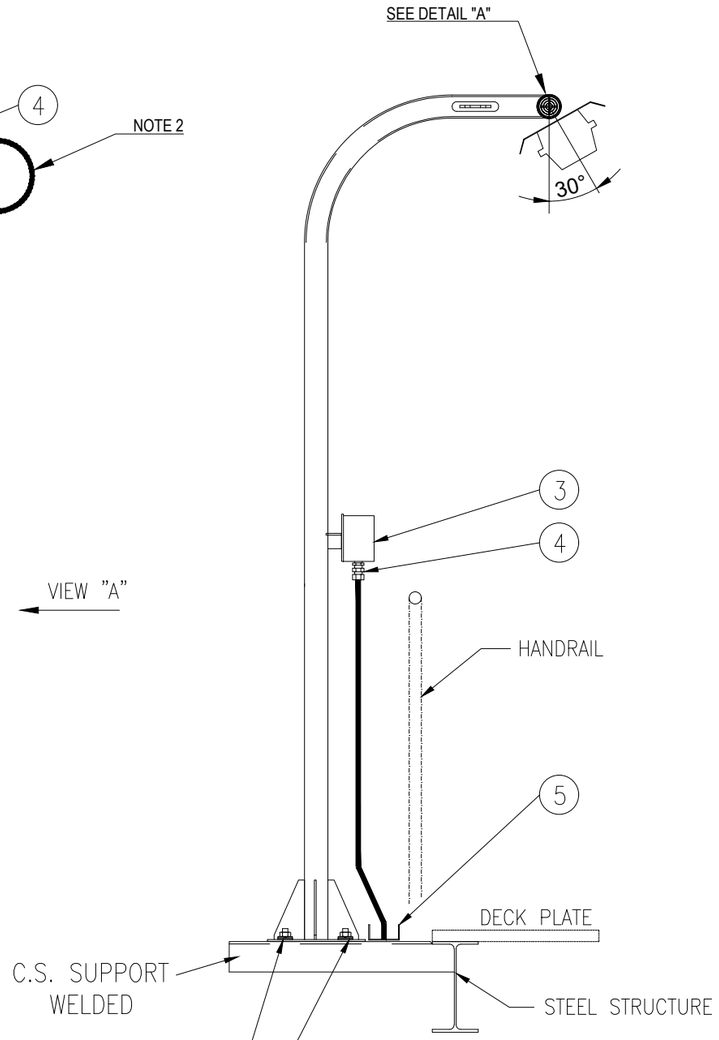
F.to UNI A3: 420mmx297mm

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

L11A

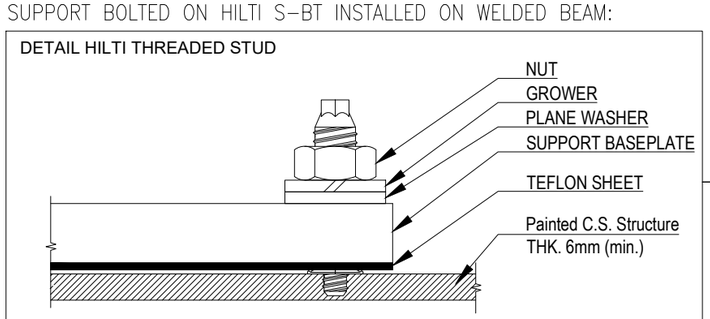


VIEW "A"

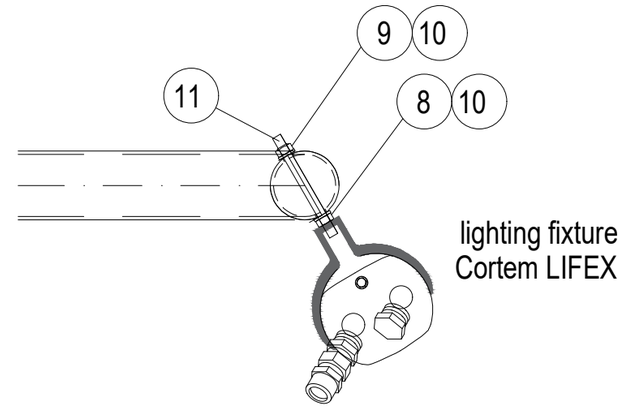


VIEW "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND C/W EARTH TAG, WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

02

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

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

A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

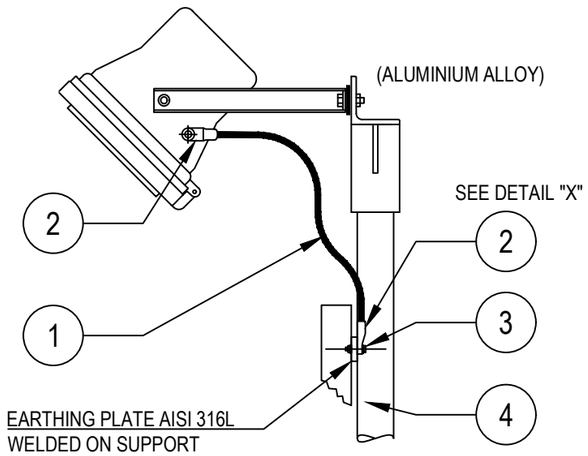
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

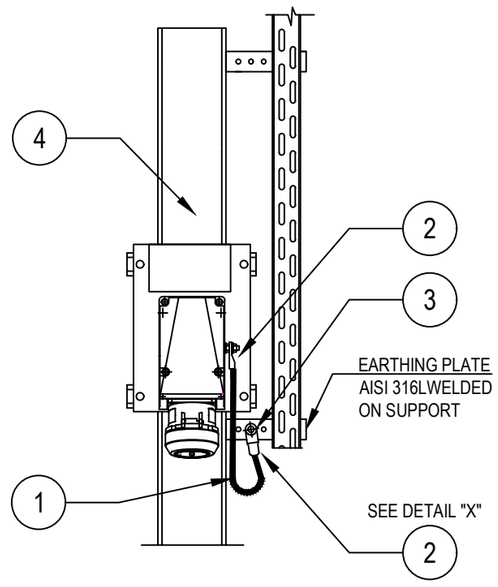
E05

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	Y/G INSULATING COPPER CONDUCTOR	COPPER	$6mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$6mm^2$	2	
3	HEXAG. BOLTS, PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M8X30	1	

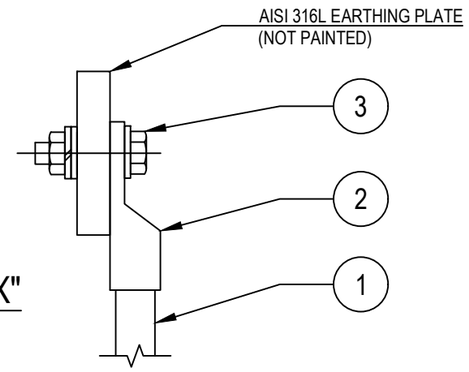
LIGHTING FIXTURE/GENERAL ITEM ON POLE



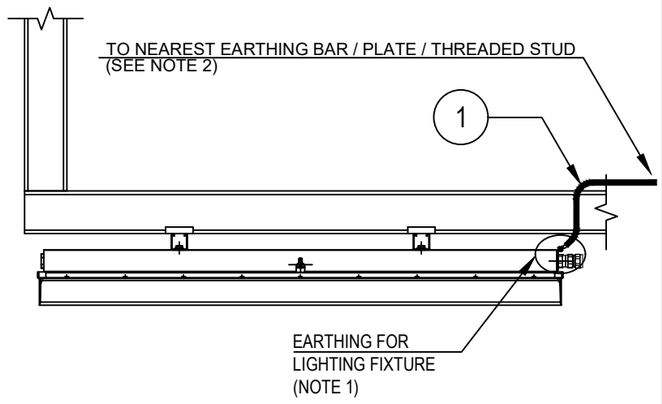
POWER SOCKET OUTLET



DETAIL "X"



LIGHTING FIXTURES



Refer also to TYP. "E32" (SEE SHEET 23)

TYPICAL VALID ALSO FOR NAVAID LIGHTS

NOTES:

1) ALL LIGHTING FIXTURES AND RELEVANT ARMOUR OF THE CABLE, ARE CONNECTED TO EARTH CONNECTION THROUGH THE EARTHING TAG OF THE CABLE GLAND

2) FOR EARTHING POINT USE ONE OF THE FOLLOWING METHODS:
TYP. E03A-D sh. 004 (EARTHING BAR ON STRUCT. UNISTRUT AND CABLE TRAY)
TYP. E11C sh. 003 (EARTHING PLATE)
TYP. E11D sh. 003 (THREADED STUD ON EXTERNAL STRUCTURE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_I	07/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR ELECTRICAL EQUIPMENTS

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

A3 | DRAWING NO. 123A90–DDL–EL–DD–20090 | SHEET 006 | REV. 02

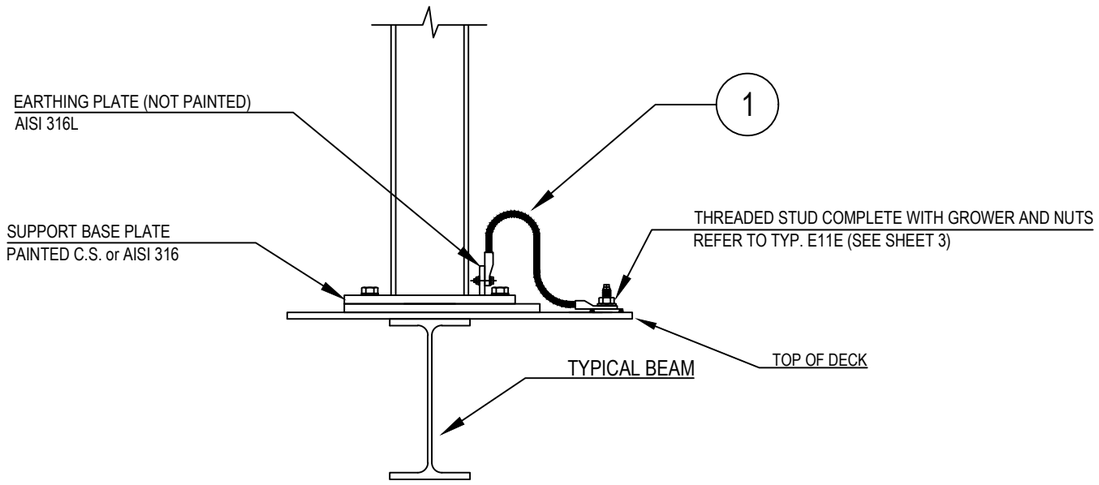
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

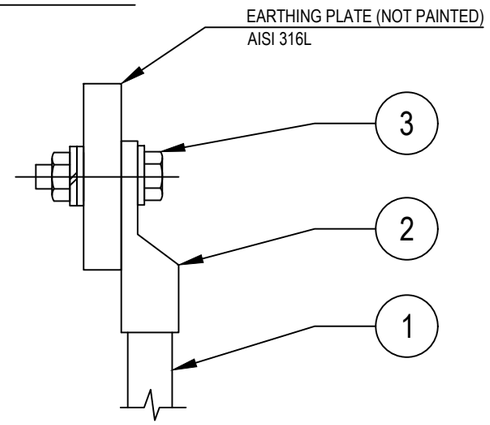
E24

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	As. R. Y/G INSULATING COPPER CONDUCTOR	COPPER	$35mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$35mm^2$	2	~~NOTE 1~~
3	HEXAG. BOLT M10X30 COMPLETE WITH PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M10X30	2	

GENERIC SUPPORT BOLTED ON STRUCTURE



DETAIL "X"



NOTES:
1) ~~CABLE LUG CRIMPING METHOD SHALL BE HEXAGONAL COMPRESSION DIES ONLY.~~
2) EXTERNAL EARTHING CONNECTION ONLY SHALL BE PROTECTED AGAINST CORROSION USING OXIDE RESISTANT COMPOUND (E.G. COPPER GREASE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_I	07/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR POLE/SUPPORT OF GENERIC EQUIPMENTS

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

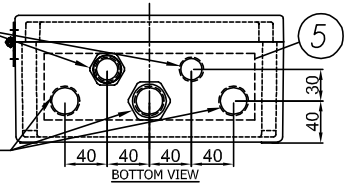
A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–EL–DD–20090	012	02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

(10)(4) N°2 PASSING HOLES Ø20.2
C/W N°1 BNK PLUG M20 +
N°1 DUSTPROOF PVC PLUG

(3)(3) N°3 PASSING HOLES Ø25.2
C/W N°1 BNK PLUG M25 +
N°2 DUSTPROOF PVC PLUG



(8) I2400722-B015I00029809

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC
Via Italia 33 - 20060 Gessate (MI) ITALY

CE 0080 II 2G II 2D
FIDI 21ATEX 0090X
IECEx FIDI 21.0015X
Year of construction:

MADE IN ITALY

TYPE: AQ-252612P
230VAC 50Hz 20A
Max Dis. P. 6W

Ex eb IIC T6 Gb
Ex tb IIIC T85°C Db
T.amb. -20/+40°C
IP66
Serial Nr.

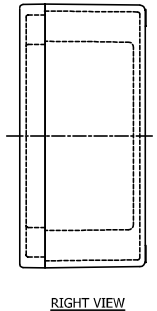
WARNINGS : DO NOT OPEN WHEN ENERGIZED

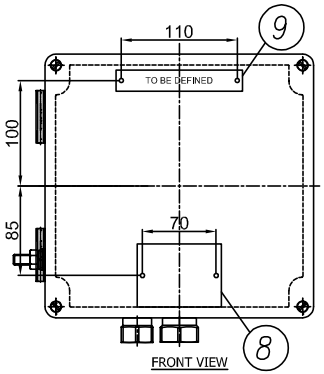
(9) PLATE DETAIL



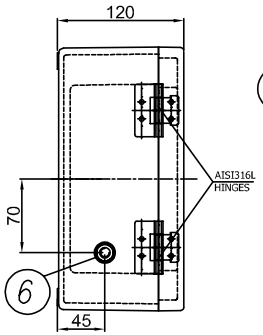
MATERIAL: LAMINATED PLASTIC
BACKGROUND: WHITE
LETTERS:BLACK

(7) JB for Normal Lighting have terminals bridge: L-L-L-L-L, N-N-N-N-N, PE-PE-PE-PE-PE - JB for Emergency Lighting have terminals bridge: L-L-L, N-N-N, PW-PW-PW, PE-PE-PE-PE-PE

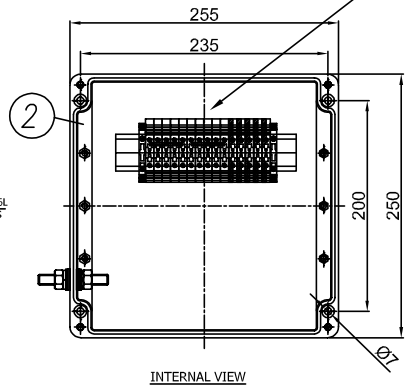

RIGHT VIEW



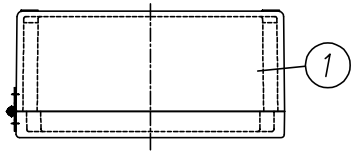
FRONT VIEW



LEFT VIEW



INTERNAL VIEW



TOP VIEW

ITEM	DESCRIPTION	Pcs Q.TY	NOTE/MAT.	CODE	MANUFACTURER
11	DUSTPROOF PVC PLUG Ø25	2	–	.	TECHNOR ITALSMEA
10	DUSTPROOF PVC PLUG Ø20	1	–	.	TECHNOR ITALSMEA
9	LAMINATED PLASTIC TAG 120X20	1	–	.	TECHNOR ITALSMEA
8	AISI316L CERTIFICATE PLATE 80X60	1	–	.	TECHNOR ITALSMEA
7	BEIGE TERMINAL BLOCK SIZE 6 SQMM EARTH TERMINAL BLOCK SIZE 6 SQMM	10 5	WDU–6 WPE–6	.	WEIDMULLER
6	AISI316L INT/EXT EARTH BOLT M10	1	BTP–10	.	TECHNOR ITALSMEA
5	BRASS CONTINUITY PLATE THK. 0.8 MM	1	–	.	TECHNOR ITALSMEA
4	NICKEL PLATED BRASS PLUG M20	1	T20	.	TECHNOR ITALSMEA
3	NICKEL PLATED BRASS PLUG M25	1	T25	.	TECHNOR ITALSMEA
2	INTERNAL MOUNTING PLATE	1	PS–2526	.	TECHNOR ITALSMEA
1	GRP ENCLOSURE	1	AQ–252612P	.	TECHNOR ITALSMEA

-UNPAINTED (BLACK NATURAL)
Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti
TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting

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

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

SHEET 004

REV. 04

F.to UNI A3: 420mmx297mm

File Name : 1724001481-EL-DA-00003 Rev. 01

ENCLOSURE N°	TAG LIST	NORMAL LIGHTNING	EMERGENCY LIGHTNING
1	EJB-200N1-03-L2-04	X	
2	EJB-200N1-03-L2-03	X	
3	EJB-200N1-03-L2-01	X	
4	EJB-200N1-03-L2-02	X	
5	EJB-200N1-03-L2-12	X	
6	EJB-200N1-03-L2-11	X	
7	EJB-200N1-03-L2-10	X	
8	EJB-200N1-03-L2-09	X	
9	EJB-200N1-03-L2-08	X	
10	EJB-200N1-03-L2-07	X	
11	EJB-200N1-03-L2-06	X	
12	EJB-200N1-03-L2-05	X	
13	EJB-200N1-03-L2-14	X	
14	EJB-200N1-03-L2-13		X
15	EJB-200N1-09-L2-17		X
16	EJB-200N1-09-L2-01		X
17	EJB-200N1-09-L2-04		X
18	SPARE (TO BE PROVIDED BLANK)		X
19	EJB-200N1-09-L2-02		X
20	EJB-200N1-09-L2-15		X
21	EJB-200N1-09-L2-14		X
22	EJB-200N1-09-L2-13		X
23	EJB-200N1-09-L2-12		X
24	EJB-200N1-09-L2-11		X
25	EJB-200N1-09-L2-10		X
26	EJB-200N1-09-L2-09		X
27	EJB-200N1-09-L2-08		X
28	EJB-200N1-09-L2-07		X
29	EJB-200N1-09-L2-06		X
30	EJB-200N1-09-L2-05		X
31	EJB-200N1-09-L2-16	X	
32	EJB-200N1-04-L3-01	X	
33	EJB-200N1-04-L3-02	X	
34	EJB-200N1-10-L3-05		X
35	EJB-200N1-10-L3-06		X
36	EJB-200N1-10-L3-07		X
37	EJB-200N1-10-L3-08		X
38	EJB-200N1-10-L3-09		X
39	EJB-200N1-10-L3-02		X
40	EJB-200N1-10-L3-01		X
41	EJB-200N1-10-L3-03		X
42	EJB-200N1-10-L3-04		X
43	EJB-200N1-02-L1-03	X	
44	EJB-200N1-02-L1-02	X	
45	EJB-200N1-02-L1-01	X	
46	SPARE (TO BE PROVIDED BLANK)	X	
47	EJB-200N1-02-L1-10	X	
48	EJB-200N1-02-L1-19	X	
49	EJB-200N1-02-L1-18	X	

ENCLOSURE N°	TAG LIST	NORMAL LIGHTNING	EMERGENCY LIGHTNING
50	EJB-200N1-02-L1-17	X	
51	EJB-200N1-02-L1-16	X	
52	EJB-200N1-02-L1-15	X	
53	EJB-200N1-02-L1-14	X	
54	EJB-200N1-02-L1-13	X	
55	EJB-200N1-02-L1-12	X	
56	EJB-200N1-02-L1-11	X	
57	EJB-200N1-02-L1-06	X	
58	EJB-200N1-02-L1-05	X	
59	EJB-200N1-02-L1-07	X	
60	EJB-200N1-02-L1-08	X	
61	EJB-200N1-02-L1-09	X	
62	EJB-200N1-08-L1-03		X
63	SPARE (TO BE PROVIDED BLANK)		X
64	EJB-200N1-08-L1-01		X
65	EJB-200N1-08-L1-04		X
66	EJB-200N1-08-L1-19		X
67	EJB-200N1-08-L1-18		X
68	EJB-200N1-08-L1-17		X
69	EJB-200N1-08-L1-16		X
70	EJB-200N1-08-L1-15		X
71	EJB-200N1-08-L1-14		X
72	~~EJB-200N1-08-L1-13~~ EJB-200N1-02-L1-20	X	
73	EJB-200N1-08-L1-12		X
74	EJB-200N1-08-L1-11		X
75	EJB-200N1-08-L1-10		X
76	EJB-200N1-08-L1-20		X
77	EJB-200N1-08-L1-05		X
78	EJB-200N1-08-L1-06		X
79	EJB-200N1-08-L1-07		X
80	EJB-200N1-08-L1-09		X
81	EJB-200N1-08-L1-08		X
82	EJB-200F2-01	X	
83	EJB-200F2-02	X	
84	SPARE (TO BE PROVIDED BLANK)	X	
85	SPARE (TO BE PROVIDED BLANK)	X	
86	SPARE (TO BE PROVIDED BLANK)	X	
87	SPARE (TO BE PROVIDED BLANK)	X	
88	SPARE (TO BE PROVIDED BLANK)	X	
89	SPARE (TO BE PROVIDED BLANK)		X
90	SPARE (TO BE PROVIDED BLANK)		X
91	SPARE (TO BE PROVIDED BLANK)		X
92	SPARE (TO BE PROVIDED BLANK)		X

Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting–Tag List

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

SCALE : NTS

A3

DRAWING NO. 1724001481–EL–DA–00003

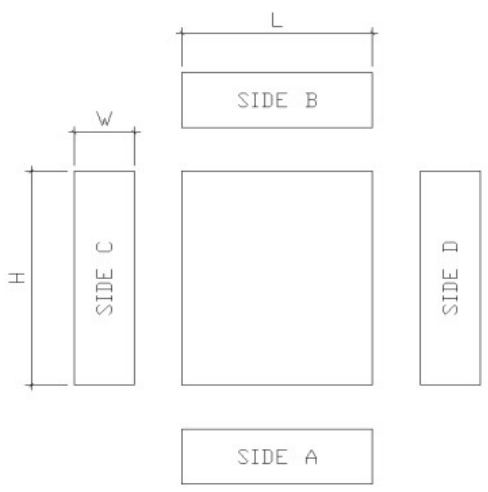
SHEET 005

REV. 04

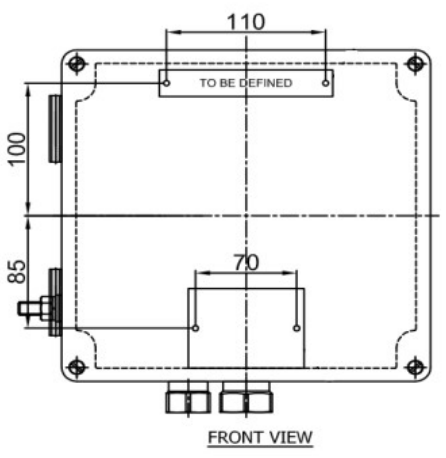
F.to UNI A3: 420mmx297mm

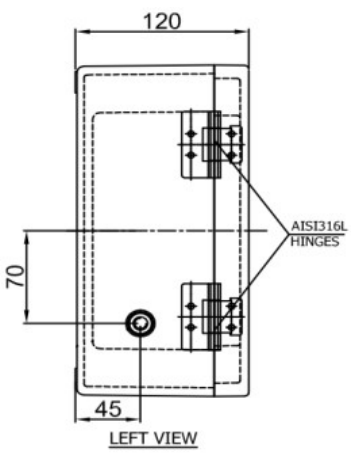
File Name : 1724001481-EL-DA-00003 Rev. 01

Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	Junction Box for Normal & Emergency Lighting				
2	**Item**	**Required**	**Manufacturer Proposal**	**Comments**	
3	Model Number	by Vendor	AQ-252612P		01
4	Serial Number	by Vendor	B011041010004		01
5	Quantity	40+4(Spare)		(39+5 Spare)	01
6	Application	Lighting pole JB/Lighting JB			00
7	**Installation area**				
8	Indoor/Outdoor	Outdoor			00
9	Safe Area/Hazardous Area	Safe area			00
10	Zone 1/Zone 2	NA			00
11	Temp. Class	NA	Ex eb IIC, T6 Gb		01
12	**Electrical input data**				
13	Voltage	230 V ac	230 V ac		00
14	Number of Phases	1ph + N + PE			00
15	**Material**				
16	Body	GRP	GRP		01
17	Execution	Normal	Ex eb	Will be used ATEX even in safe area	01
18	Protection Degree	IP56	IP 66		01
19	**Accessories**				
20	Hinged Cover	Required	AISI316L Hinges		01
21	Gasket	Required			00
22	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
23	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
24	Internal Ground Bar	Required		connected to earth stud	00
25	Earth Stud	Required			00
26	Drainage Valve	Required			00
27	Pad lockable Cover	Required			00
28	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
29	**Side 'A'**				
30	Hubs Qty.	5	5		01
31	Size	No.3 M25, No.2 M20	No.3 Ø 25.2 mm, No.2 Ø 20.2 mm		01
32	Thread	ISO-M			00
33	Plug	No. 1 M20, No.1 M25	No. 1 Ø 20.2 mm, No.1 Ø 25.2 mm	nickel-plated brass	01
34	**Side 'B'**				
35	Hubs Qty.	Not Required			00
36	Size	NA			00
37	Thread	NA			00
38	**Side 'C'**				
39	Hubs Qty.	Not Required			00
40	Size	NA			00
41	Thread	NA			00
42	**Side 'D'**				
43	Hubs Qty.	Not Required			00
44	Size	NA			
45	Thread	NA			
46	**Terminals**				
47	Size [mm^2]	Suitable for 6 Sq.mm & 2.5 Sq.mm Cable	M25 & M20	suitable with wire-end ferrules DIN 46228	01
48	Qty.	n°5 for Ph // n°5 for N // n°5 for PE	n°5 for Ph // n°5 for N // n°5 for PE	jumpered	01
49	**Bonding Cable (yellow/Green)**				
50	Size [mm^2]	by vendor		6 mm^2	01
51	Qty.	Min. 0.15m			00
52	**Dimension**				
53	Height 'H' [mm]	by vendor	120 mm		01
54	Width 'W' [mm]	by vendor	250 mm		01
55	Length 'L' [mm]	by vendor	255 mm		01
56	Weight [Kg]	by vendor	2.65 Kg		01
57	JB Code (*)	Remarks			
58					



NOTES:
(*) Filled by Vendor





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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ITEM	Tag	EJB-200N1-10-L3-04	: JB - EMERGENCY LIGHTING			Dwg	123A90-DDL-EL-DL-20120
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	UD
TASK	code	C10001431		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX31 Junction and Marshalling Box

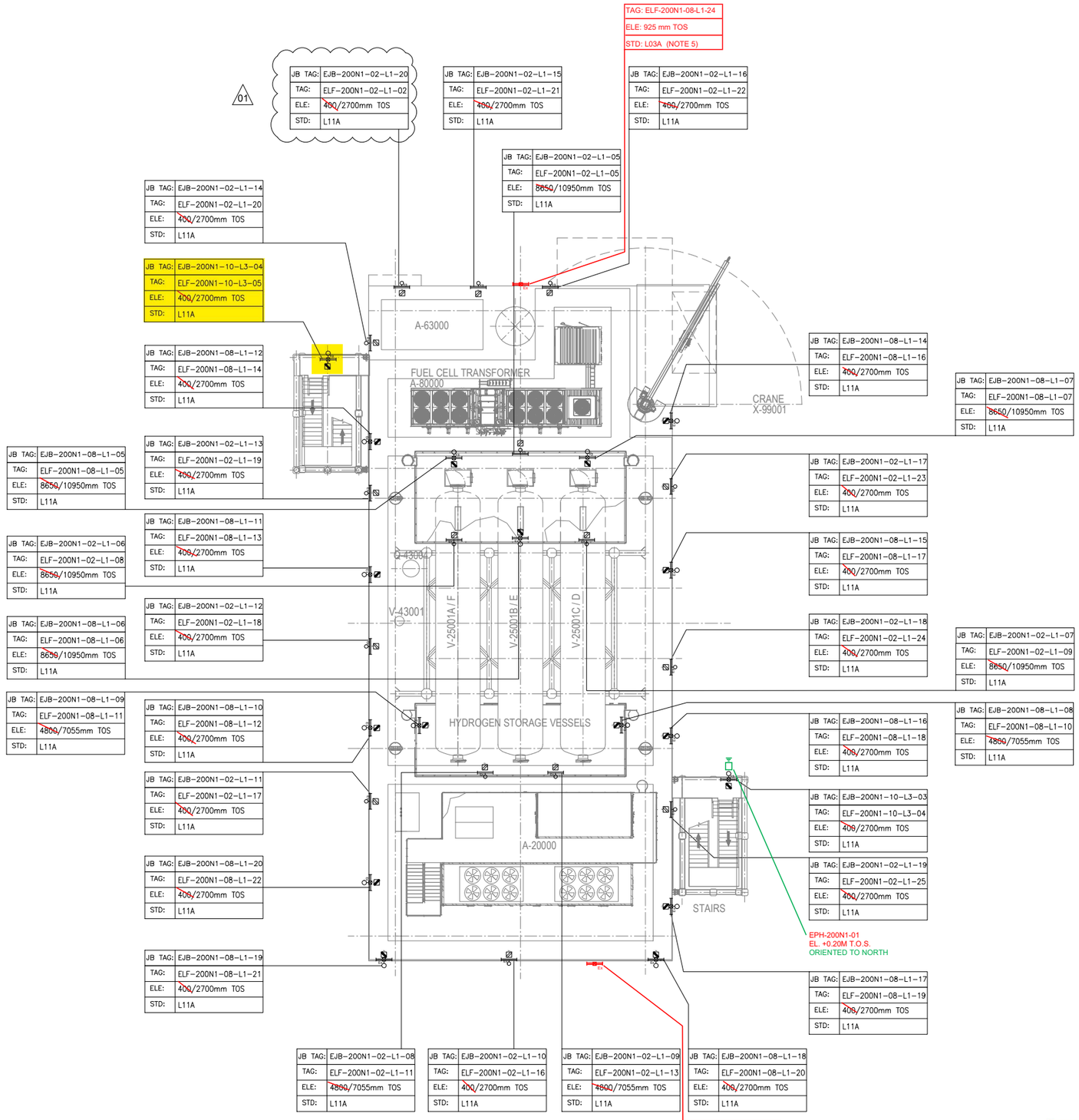
1	Check box is de-energized and safe.	OK
2	Check box is correctly mounted and easily accessible.	OK
3	Check box tagging against drawing.	OK
4	Check nameplate data is correct.	OK
5	Check flameproof joints are clean and greased with approved lubricants (if required).	NA
6	Check for damaging gaskets.	OK
7	Check all bolts are fitted and correcly tighted .	OK
8	Check all unused entries are suitably plugged.	OK
9	Check earthing and bonding against drawings.	OK
10	Check terminal blocks segregation barriers are fitted where necessary.	NA
11	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

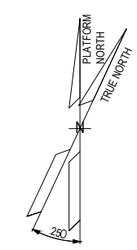
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Paolo Schintu	
Date	2025-01-28	2025-01-30	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-28T07:47:36.083Z	PROVERLIS Digitaly signed by Paolo Schintu 2025-01-30T14:57:00.171Z	

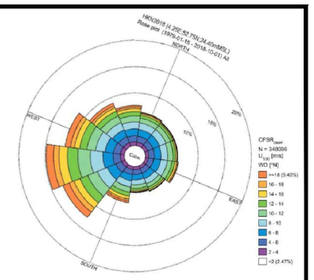
DRAWING NO. 123A90-DDL-EL-DL-20118

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

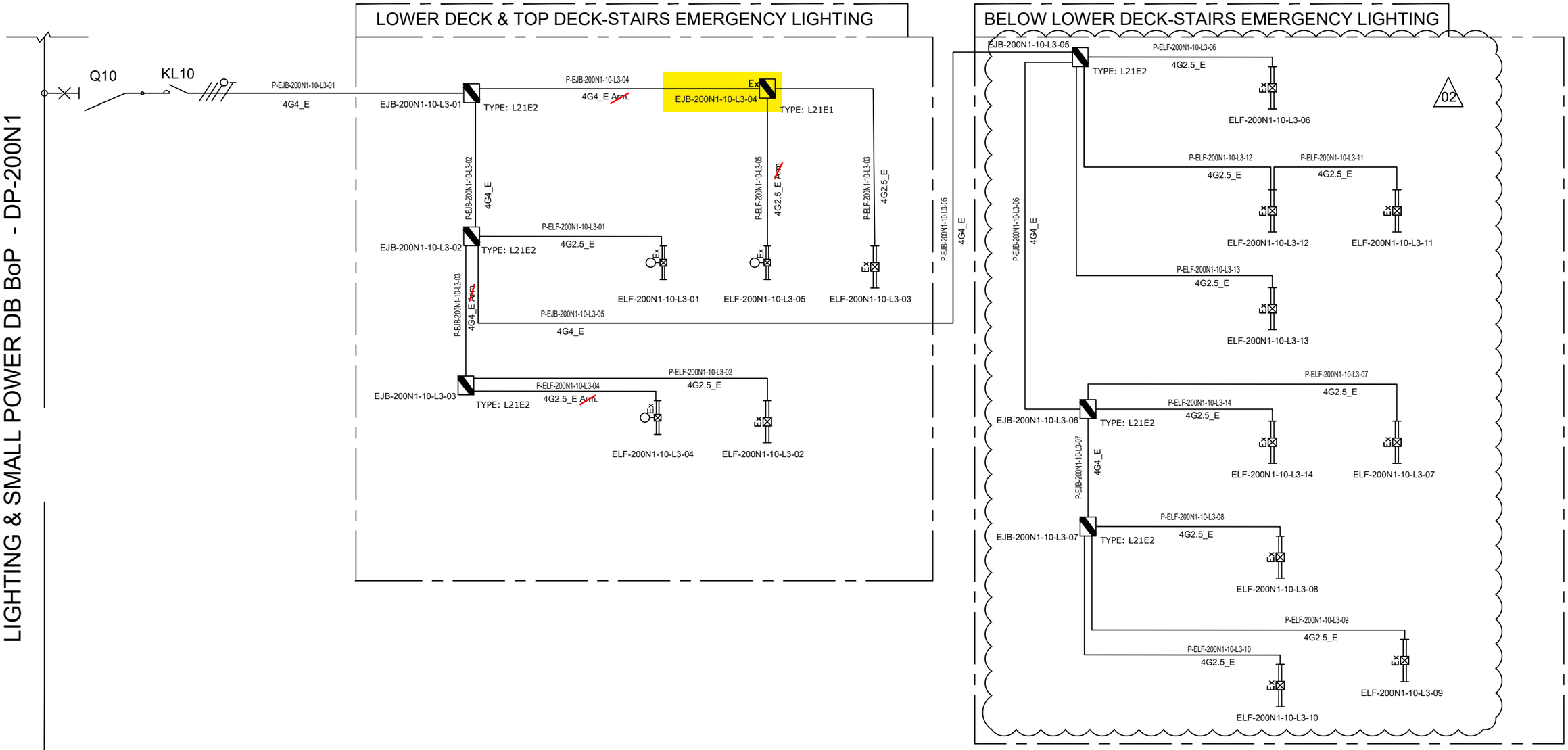
ROSETTI MARINO SpA

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

LIGHTING & SMALL POWER DB BoP - DP-200N1



NOTE:	
ELF-200N1-10-L3-01	LOWER DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-02	
ELF-200N1-10-L3-03	
ELF-200N1-10-L3-04	TOP DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-05	

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

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

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
		ELF-200N1-10-L3-09			
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
STAIRS EMERGENCY LIGHTING (LOWER DECK,TOP DECK AND BELOW LOWER DECK)

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

SCALE : NTS

A3

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

SHEET 007

REV. 02

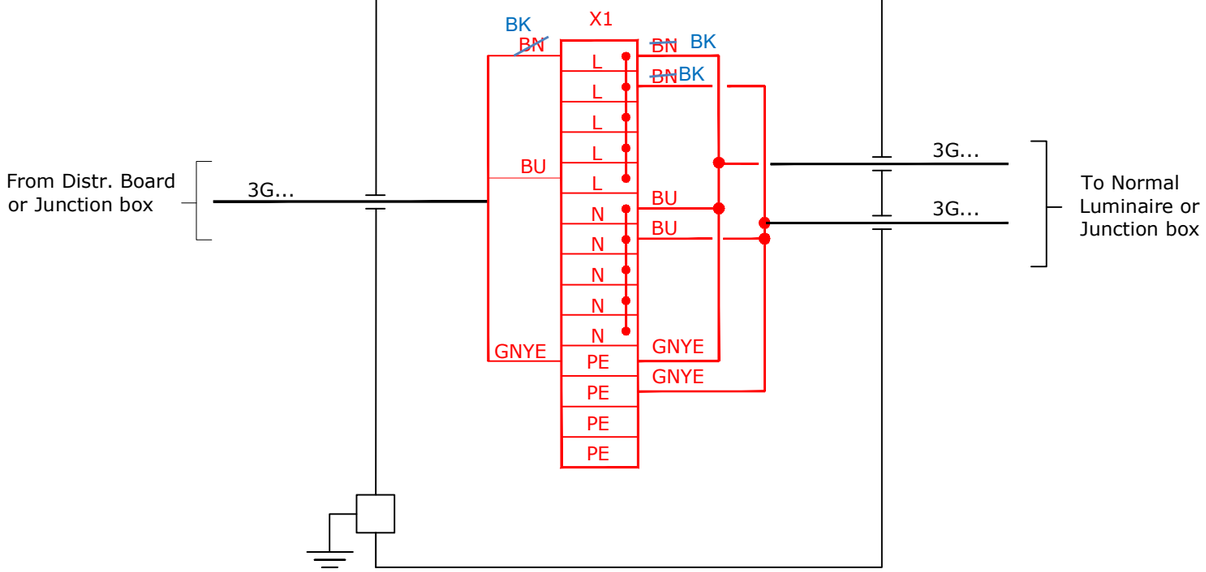
File Name : 123A90-DDL-EL-DG-20125

F.to UNI A3: 420mmx297mm

TYPE : L21N1 & L21N2

ITEM: NORMAL LIGHTING JUNCTION BOX

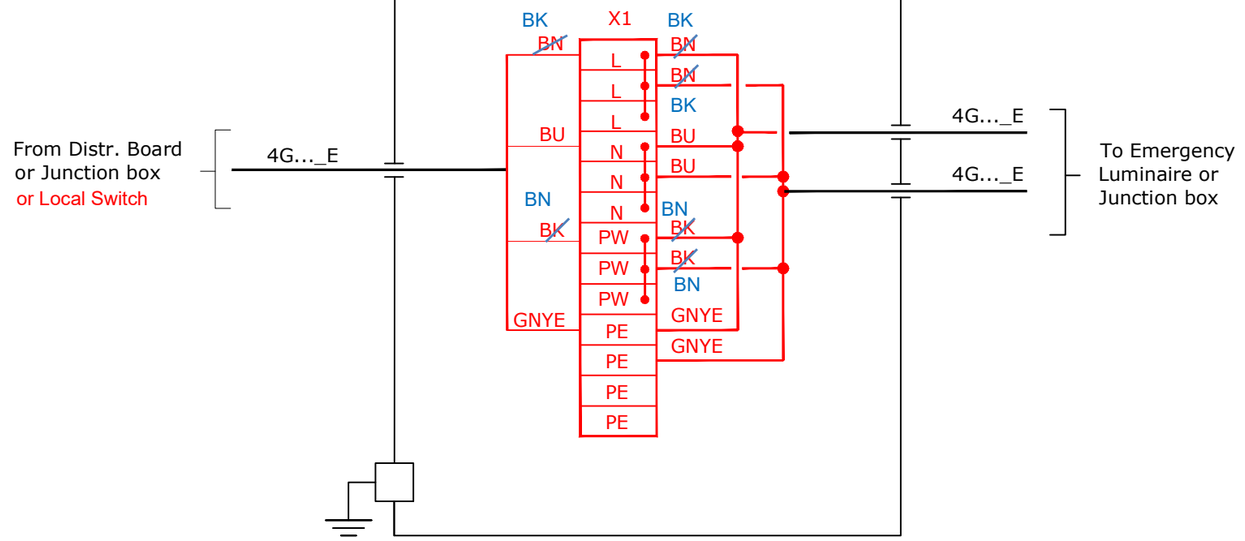
TAG : Typical



TYPE : L21E1 & L21E2

ITEM: EMERGENCY LIGHTING JUNCTION BOX

TAG : Typical



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)

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

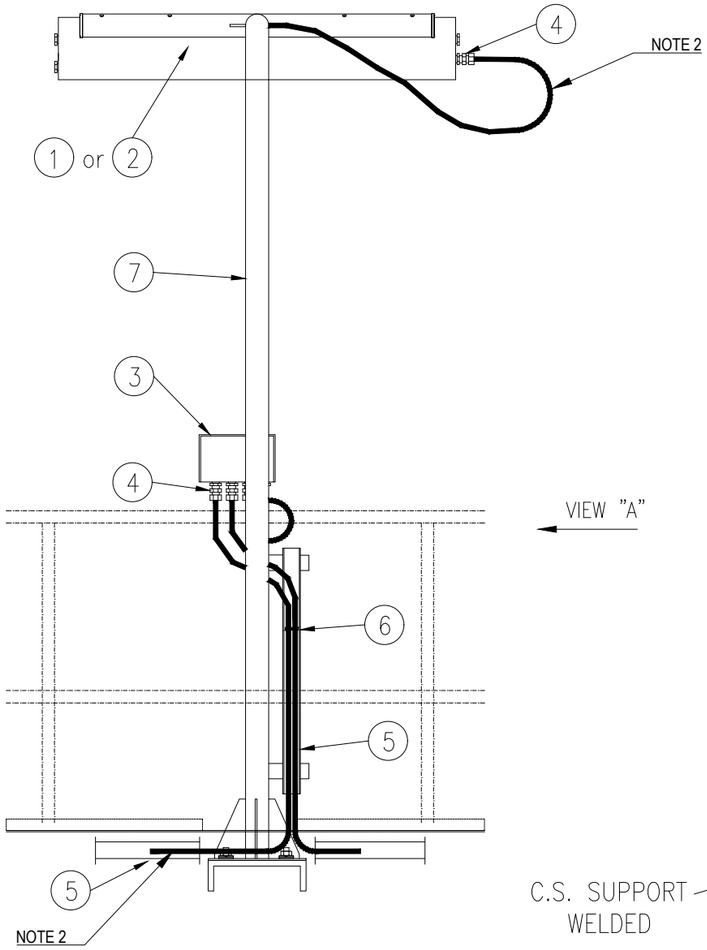
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

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

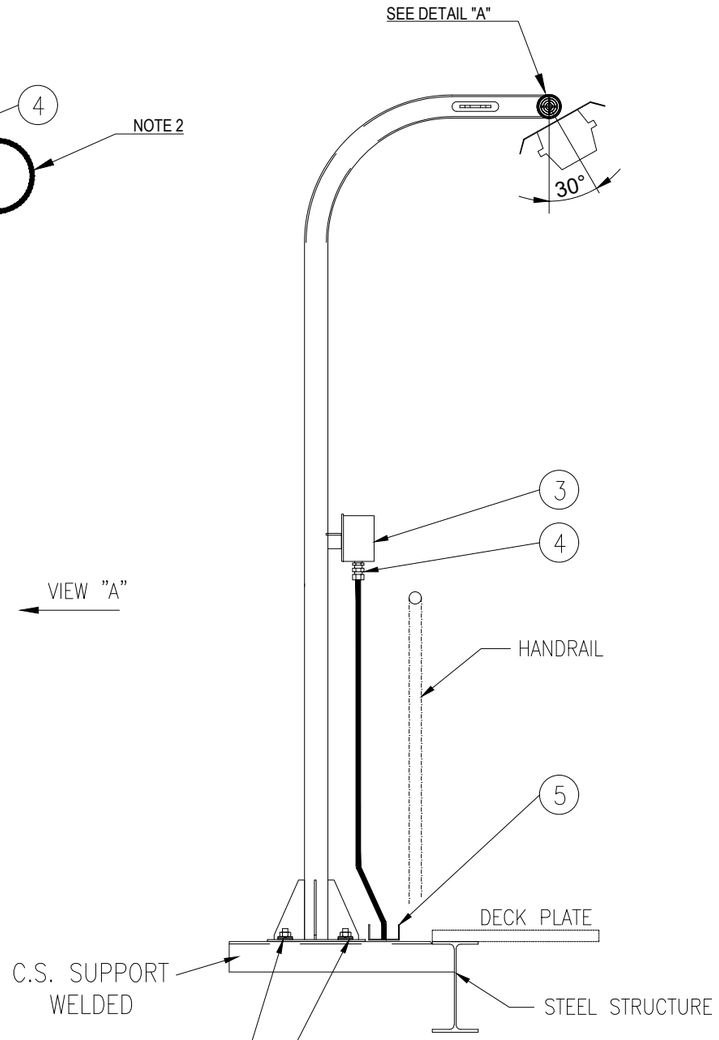
F.to UNI A3: 420mmx297mm

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

L11A

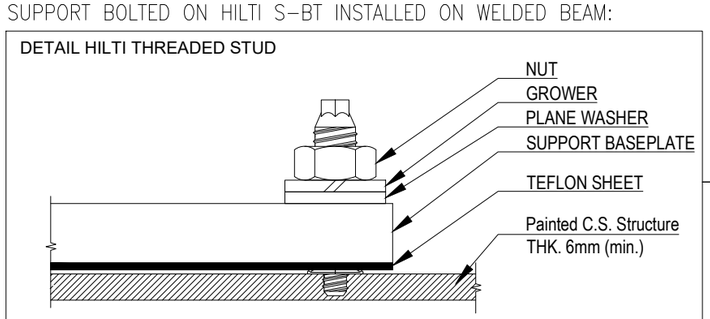


VIEW "A"

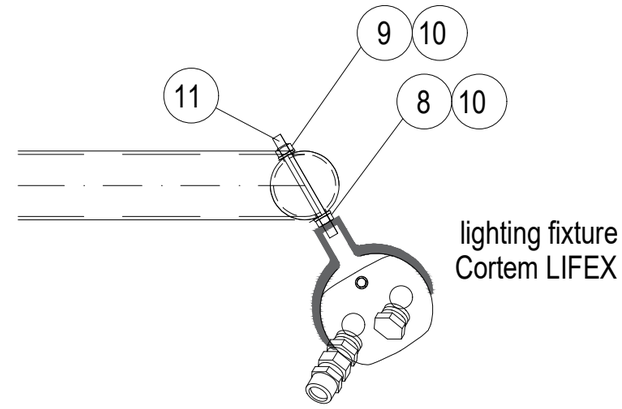


VIEW "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND C/W EARTH TAG, WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

02

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

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

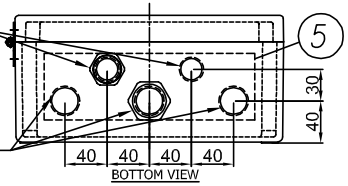
A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

(10)(4) N°2 PASSING HOLES Ø20.2
C/W N°1 BNK PLUG M20 +
N°1 DUSTPROOF PVC PLUG

(3)(3) N°3 PASSING HOLES Ø25.2
C/W N°1 BNK PLUG M25 +
N°2 DUSTPROOF PVC PLUG



(8) I2400722-B015I00029809

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC
Via Italia 33 - 20060 Gessate (MI) ITALY

CE 0080 II 2G II 2D
FIDI 21ATEX 0090X
IECEx FIDI 21.0015X
Year of construction:

MADE IN ITALY

TYPE: AQ-252612P
230VAC 50Hz 20A
Max Dis. P. 6W

Ex eb IIC T6 Gb
Ex tb IIIC T85°C Db
T.amb. -20/+40°C
IP66
Serial Nr.

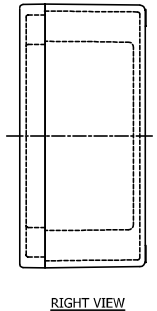
WARNINGS : DO NOT OPEN WHEN ENERGIZED

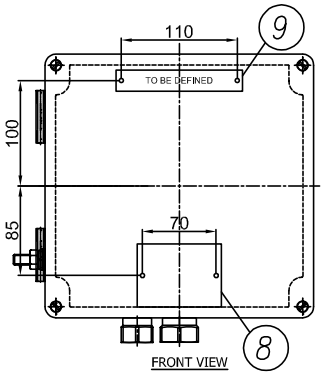
(9) PLATE DETAIL



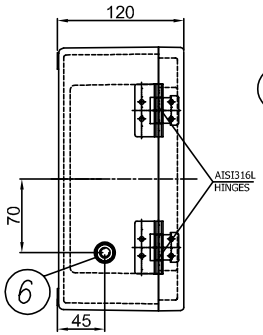
MATERIAL: LAMINATED PLASTIC
BACKGROUND: WHITE
LETTERS:BLACK

(7) JB for Normal Lighting have terminals bridge: L-L-L-L-L, N-N-N-N-N, PE-PE-PE-PE-PE - JB for Emergency Lighting have terminals bridge: L-L-L, N-N-N, PW-PW-PW, PE-PE-PE-PE-PE

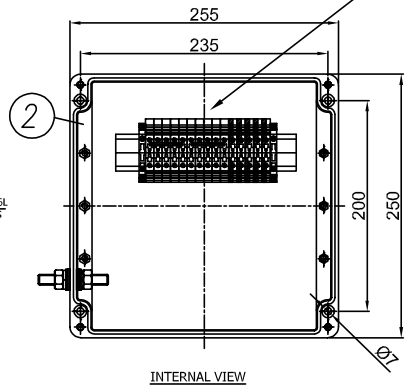

RIGHT VIEW



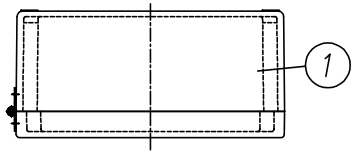
FRONT VIEW



LEFT VIEW



INTERNAL VIEW



TOP VIEW

ITEM	DESCRIPTION	Pcs Q.TY	NOTE/MAT.	CODE	MANUFACTURER
11	DUSTPROOF PVC PLUG Ø25	2	–	.	TECHNOR ITALSMEA
10	DUSTPROOF PVC PLUG Ø20	1	–	.	TECHNOR ITALSMEA
9	LAMINATED PLASTIC TAG 120X20	1	–	.	TECHNOR ITALSMEA
8	AISI316L CERTIFICATE PLATE 80X60	1	–	.	TECHNOR ITALSMEA
7	BEIGE TERMINAL BLOCK SIZE 6 SQMM EARTH TERMINAL BLOCK SIZE 6 SQMM	10 5	WDU–6 WPE–6	.	WEIDMULLER
6	AISI316L INT/EXT EARTH BOLT M10	1	BTP–10	.	TECHNOR ITALSMEA
5	BRASS CONTINUITY PLATE THK. 0.8 MM	1	–	.	TECHNOR ITALSMEA
4	NICKEL PLATED BRASS PLUG M20	1	T20	.	TECHNOR ITALSMEA
3	NICKEL PLATED BRASS PLUG M25	1	T25	.	TECHNOR ITALSMEA
2	INTERNAL MOUNTING PLATE	1	PS–2526	.	TECHNOR ITALSMEA
1	GRP ENCLOSURE	1	AQ–252612P	.	TECHNOR ITALSMEA

-UNPAINTED (BLACK NATURAL)
Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti
TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting

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

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

SHEET 004

REV. 04

F.to UNI A3: 420mmx297mm

File Name : 1724001481-EL-DA-00003 Rev. 01

ENCLOSURE N°	TAG LIST	NORMAL LIGHTNING	EMERGENCY LIGHTNING
1	EJB-200N1-03-L2-04	X	
2	EJB-200N1-03-L2-03	X	
3	EJB-200N1-03-L2-01	X	
4	EJB-200N1-03-L2-02	X	
5	EJB-200N1-03-L2-12	X	
6	EJB-200N1-03-L2-11	X	
7	EJB-200N1-03-L2-10	X	
8	EJB-200N1-03-L2-09	X	
9	EJB-200N1-03-L2-08	X	
10	EJB-200N1-03-L2-07	X	
11	EJB-200N1-03-L2-06	X	
12	EJB-200N1-03-L2-05	X	
13	EJB-200N1-03-L2-14	X	
14	EJB-200N1-03-L2-13		X
15	EJB-200N1-09-L2-17		X
16	EJB-200N1-09-L2-01		X
17	EJB-200N1-09-L2-04		X
18	SPARE (TO BE PROVIDED BLANK)		X
19	EJB-200N1-09-L2-02		X
20	EJB-200N1-09-L2-15		X
21	EJB-200N1-09-L2-14		X
22	EJB-200N1-09-L2-13		X
23	EJB-200N1-09-L2-12		X
24	EJB-200N1-09-L2-11		X
25	EJB-200N1-09-L2-10		X
26	EJB-200N1-09-L2-09		X
27	EJB-200N1-09-L2-08		X
28	EJB-200N1-09-L2-07		X
29	EJB-200N1-09-L2-06		X
30	EJB-200N1-09-L2-05		X
31	EJB-200N1-09-L2-16	X	
32	EJB-200N1-04-L3-01	X	
33	EJB-200N1-04-L3-02	X	
34	EJB-200N1-10-L3-05		X
35	EJB-200N1-10-L3-06		X
36	EJB-200N1-10-L3-07		X
37	EJB-200N1-10-L3-08		X
38	EJB-200N1-10-L3-09		X
39	EJB-200N1-10-L3-02		X
40	EJB-200N1-10-L3-01		X
41	EJB-200N1-10-L3-03		X
42	EJB-200N1-10-L3-04		X
43	EJB-200N1-02-L1-03	X	
44	EJB-200N1-02-L1-02	X	
45	EJB-200N1-02-L1-01	X	
46	SPARE (TO BE PROVIDED BLANK)	X	
47	EJB-200N1-02-L1-10	X	
48	EJB-200N1-02-L1-19	X	
49	EJB-200N1-02-L1-18	X	

ENCLOSURE N°	TAG LIST	NORMAL LIGHTNING	EMERGENCY LIGHTNING
50	EJB-200N1-02-L1-17	X	
51	EJB-200N1-02-L1-16	X	
52	EJB-200N1-02-L1-15	X	
53	EJB-200N1-02-L1-14	X	
54	EJB-200N1-02-L1-13	X	
55	EJB-200N1-02-L1-12	X	
56	EJB-200N1-02-L1-11	X	
57	EJB-200N1-02-L1-06	X	
58	EJB-200N1-02-L1-05	X	
59	EJB-200N1-02-L1-07	X	
60	EJB-200N1-02-L1-08	X	
61	EJB-200N1-02-L1-09	X	
62	EJB-200N1-08-L1-03		X
63	SPARE (TO BE PROVIDED BLANK)		X
64	EJB-200N1-08-L1-01		X
65	EJB-200N1-08-L1-04		X
66	EJB-200N1-08-L1-19		X
67	EJB-200N1-08-L1-18		X
68	EJB-200N1-08-L1-17		X
69	EJB-200N1-08-L1-16		X
70	EJB-200N1-08-L1-15		X
71	EJB-200N1-08-L1-14		X
72	~~EJB-200N1-08-L1-13~~ EJB-200N1-02-L1-20	X	
73	EJB-200N1-08-L1-12		X
74	EJB-200N1-08-L1-11		X
75	EJB-200N1-08-L1-10		X
76	EJB-200N1-08-L1-20		X
77	EJB-200N1-08-L1-05		X
78	EJB-200N1-08-L1-06		X
79	EJB-200N1-08-L1-07		X
80	EJB-200N1-08-L1-09		X
81	EJB-200N1-08-L1-08		X
82	EJB-200F2-01	X	
83	EJB-200F2-02	X	
84	SPARE (TO BE PROVIDED BLANK)	X	
85	SPARE (TO BE PROVIDED BLANK)	X	
86	SPARE (TO BE PROVIDED BLANK)	X	
87	SPARE (TO BE PROVIDED BLANK)	X	
88	SPARE (TO BE PROVIDED BLANK)	X	
89	SPARE (TO BE PROVIDED BLANK)		X
90	SPARE (TO BE PROVIDED BLANK)		X
91	SPARE (TO BE PROVIDED BLANK)		X
92	SPARE (TO BE PROVIDED BLANK)		X

Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting–Tag List

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

SCALE : NTS

A3

DRAWING NO. 1724001481–EL–DA–00003

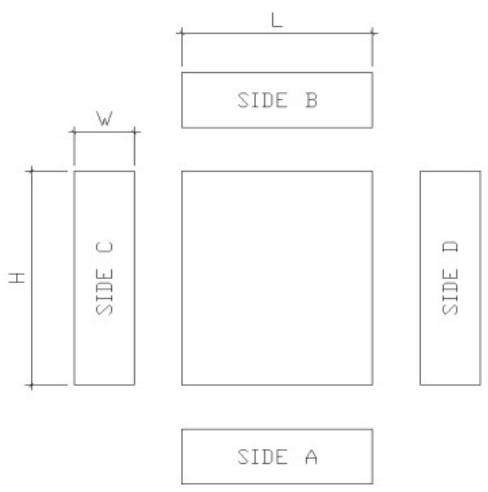
SHEET 005

REV. 04

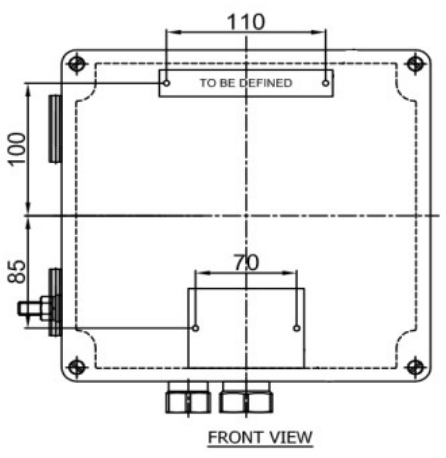
F.to UNI A3: 420mmx297mm

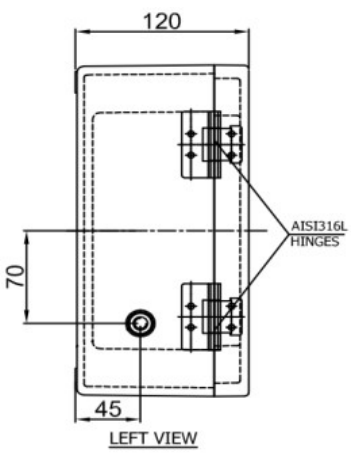
File Name : 1724001481-EL-DA-00003 Rev. 01

Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	Junction Box for Normal & Emergency Lighting				
2	**Item**	**Required**	**Manufacturer Proposal**	**Comments**	
3	Model Number	by Vendor	AQ-252612P		01
4	Serial Number	by Vendor	B011041010004		01
5	Quantity	40+4(Spare)		(39+5 Spare)	01
6	Application	Lighting pole JB/Lighting JB			00
7	**Installation area**				
8	Indoor/Outdoor	Outdoor			00
9	Safe Area/Hazardous Area	Safe area			00
10	Zone 1/Zone 2	NA			00
11	Temp. Class	NA	Ex eb IIC, T6 Gb		01
12	**Electrical input data**				
13	Voltage	230 V ac	230 V ac		00
14	Number of Phases	1ph + N + PE			00
15	**Material**				
16	Body	GRP	GRP		01
17	Execution	Normal	Ex eb	Will be used ATEX even in safe area	01
18	Protection Degree	IP56	IP 66		01
19	**Accessories**				
20	Hinged Cover	Required	AISI316L Hinges		01
21	Gasket	Required			00
22	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
23	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
24	Internal Ground Bar	Required		connected to earth stud	00
25	Earth Stud	Required			00
26	Drainage Valve	Required			00
27	Pad lockable Cover	Required			00
28	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
29	**Side 'A'**				
30	Hubs Qty.	5	5		01
31	Size	No.3 M25, No.2 M20	No.3 Ø 25.2 mm, No.2 Ø 20.2 mm		01
32	Thread	ISO-M			00
33	Plug	No. 1 M20, No.1 M25	No. 1 Ø 20.2 mm, No.1 Ø 25.2 mm	nickel-plated brass	01
34	**Side 'B'**				
35	Hubs Qty.	Not Required			00
36	Size	NA			00
37	Thread	NA			00
38	**Side 'C'**				
39	Hubs Qty.	Not Required			00
40	Size	NA			00
41	Thread	NA			00
42	**Side 'D'**				
43	Hubs Qty.	Not Required			00
44	Size	NA			
45	Thread	NA			
46	**Terminals**				
47	Size [mm^2]	Suitable for 6 Sq.mm & 2.5 Sq.mm Cable	M25 & M20	suitable with wire-end ferrules DIN 46228	01
48	Qty.	n°5 for Ph // n°5 for N // n°5 for PE	n°5 for Ph // n°5 for N // n°5 for PE	jumpered	01
49	**Bonding Cable (yellow/Green)**				
50	Size [mm^2]	by vendor		6 mm^2	01
51	Qty.	Min. 0.15m			00
52	**Dimension**				
53	Height 'H' [mm]	by vendor	120 mm		01
54	Width 'W' [mm]	by vendor	250 mm		01
55	Length 'L' [mm]	by vendor	255 mm		01
56	Weight [Kg]	by vendor	2.65 Kg		01
57	JB Code (*)	Remarks			
58					



NOTES:
(*) Filled by Vendor





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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ITEM	Tag	EJB-200N1-10-L3-05	: JB - EMERGENCY LIGHTING			Dwg	123A90-DDL-EL-DL-20120
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	TP
TASK	code	C10001432		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX31 Junction and Marshalling Box

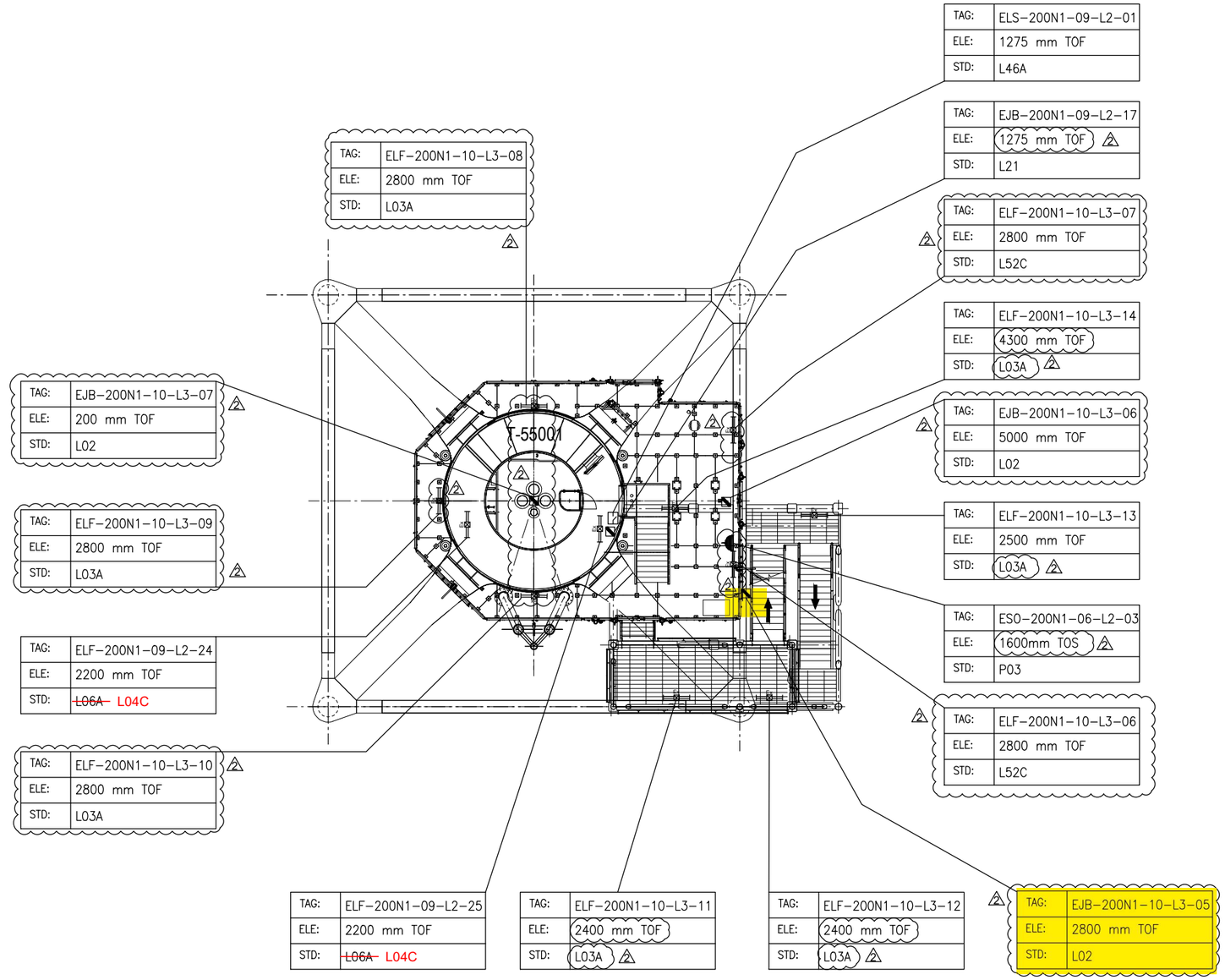
1	Check box is de-energized and safe.	OK
2	Check box is correctly mounted and easily accessible.	OK
3	Check box tagging against drawing.	OK
4	Check nameplate data is correct.	OK
5	Check flameproof joints are clean and greased with approved lubricants (if required).	NA
6	Check for damaging gaskets.	OK
7	Check all bolts are fitted and correcly tighted .	OK
8	Check all unused entries are suitably plugged.	OK
9	Check earthing and bonding against drawings.	OK
10	Check terminal blocks segregation barriers are fitted where necessary.	NA
11	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

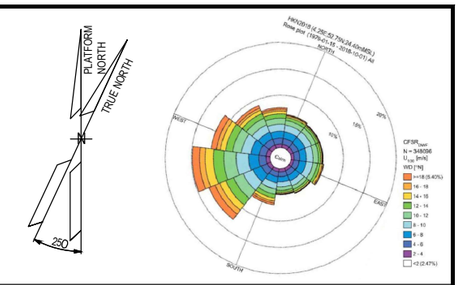
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	VIP	RM(ROSETTI MARINO)	
Name	Madhankumar Arunagiri	Giovanni Tangianu	
Date	2025-04-18	2025-04-29	
Signature	PROVERLIS Digitaly signed by Madhankumar Arunagiri 2025-04-18T09:30:20.198Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2025-04-29T12:14:00.619Z	

DRAWING NO. 123A90-DDL-EL-DL-20120

REV. 02



PLAN ON EXISTING PLATFORM AT EL.+16.860 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S / T.O.F.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. ELEVATION OR STANDARD PRESENT IN THE MASK, WHERE JB AND FIXTURE ARE SHOWN, ARE RELATIVE TO THE ORDER OF THE TAGS, 1°ROW JB AND 2°ROW FIXTURE = ELEVATION JB / ELEVATION FIXTURE.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- SMALL POWER SOCKET WITH INTEGRATED JB
- LOCAL SWITCH IP66 TYPE

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

T.O.S TOP OF STEEL
T.O.F TOP OF FOOTING (Walkway plan)

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20120**

REV.:	DATE:	SIGNATURE:
2_B	27/01/25	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-EL-DL-20102	ELECTRICAL EQUIPMENT LAYOUT - TRANSITION PIECE
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-PP-DL-70070	BASE LOAD POWER HUB (BLPH) - PLOT PLAN - LOWER AND UPPER DECK
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
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	04/06/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

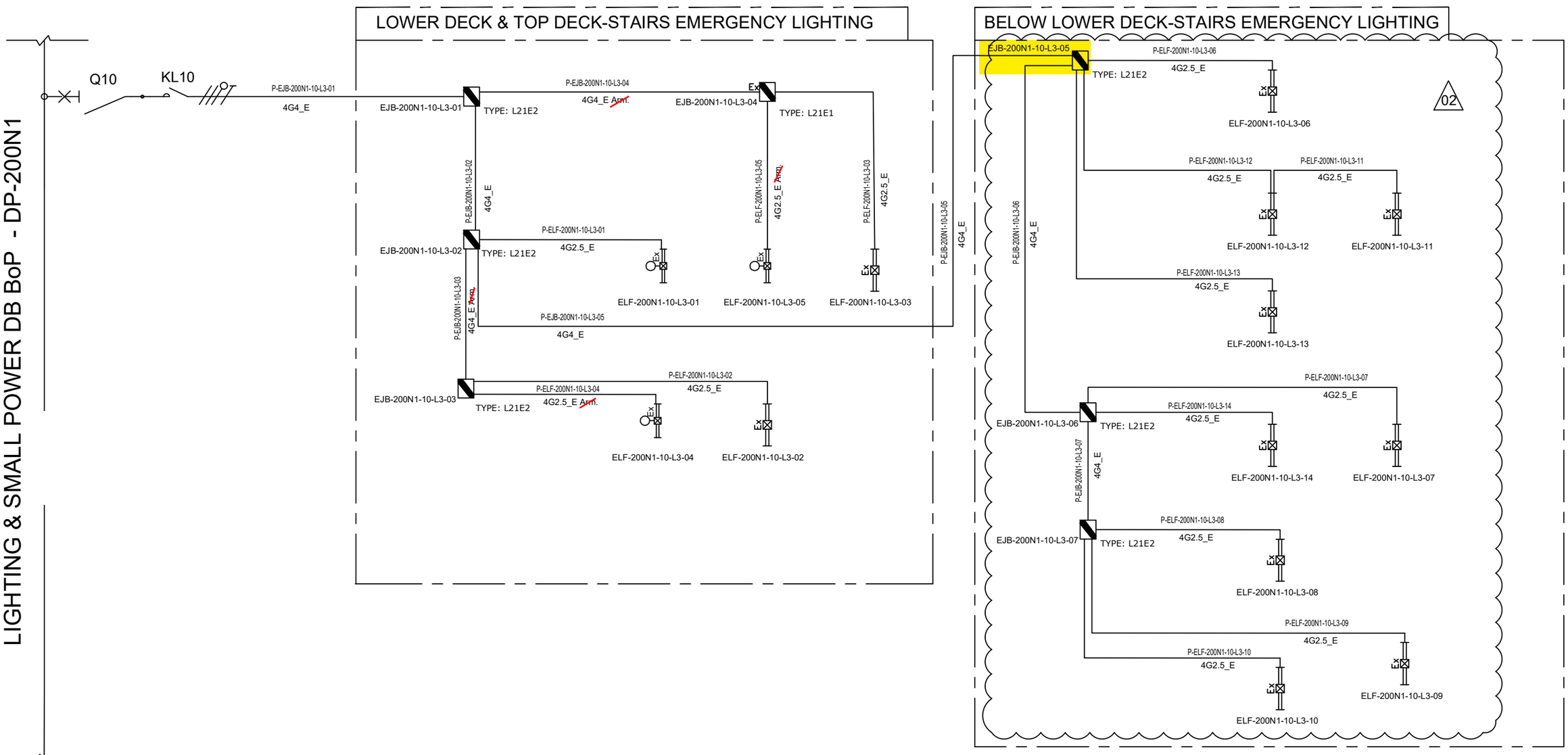
ROSETTI MARINO

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

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:100
DRAWN AMA	CHECKED CGI	APPROVED DLO	DATE 07/10/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20120	SHEET 001	REV. 02

File Name : 123A90-DDL-EL-DL-20120

LIGHTING & SMALL POWER DB BoP - DP-200N1



NOTE:	
ELF-200N1-10-L3-01	LOWER DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-02	
ELF-200N1-10-L3-03	
ELF-200N1-10-L3-04	TOP DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-05	

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

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

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
		ELF-200N1-10-L3-09			
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
STAIRS EMERGENCY LIGHTING (LOWER DECK,TOP DECK AND BELOW LOWER DECK)

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

SCALE : NTS

A3

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

SHEET 007

REV. 02

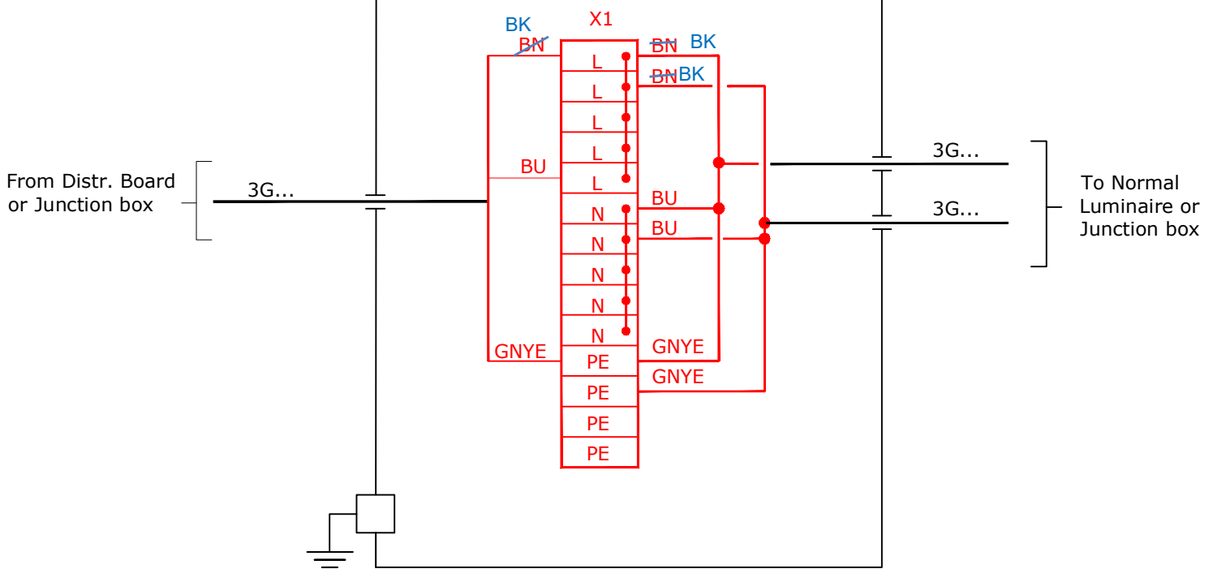
File Name : 123A90-DDL-EL-DG-20125

F.to UNI A3: 420mmx297mm

TYPE : L21N1 & L21N2

ITEM: NORMAL LIGHTING JUNCTION BOX

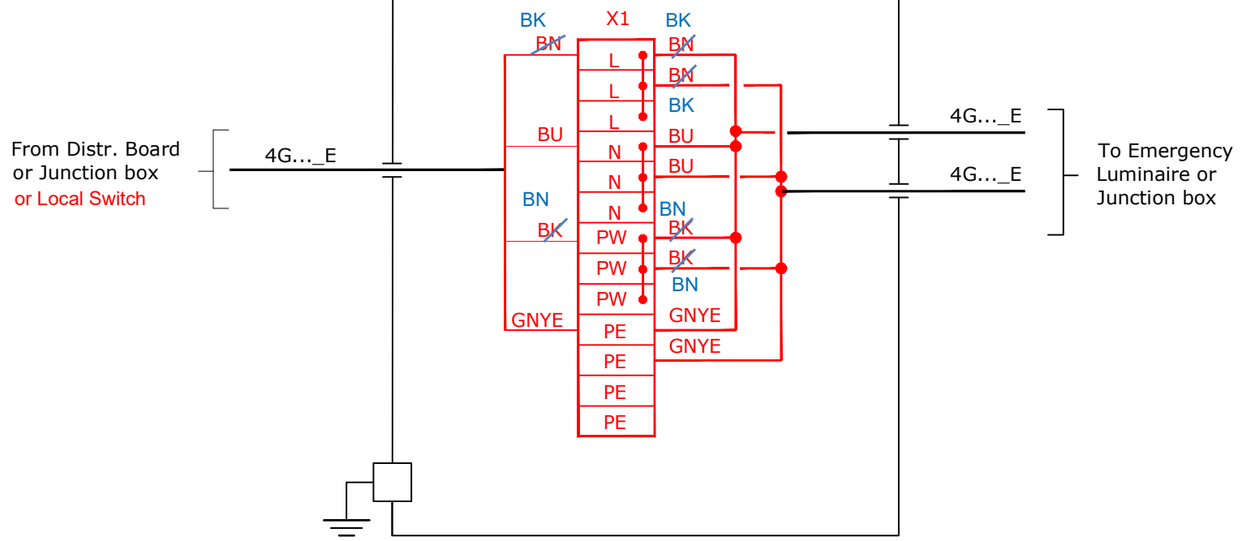
TAG : Typical



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. 123A90-DDL-EL-DG-20125

SHEET 016

REV. 01

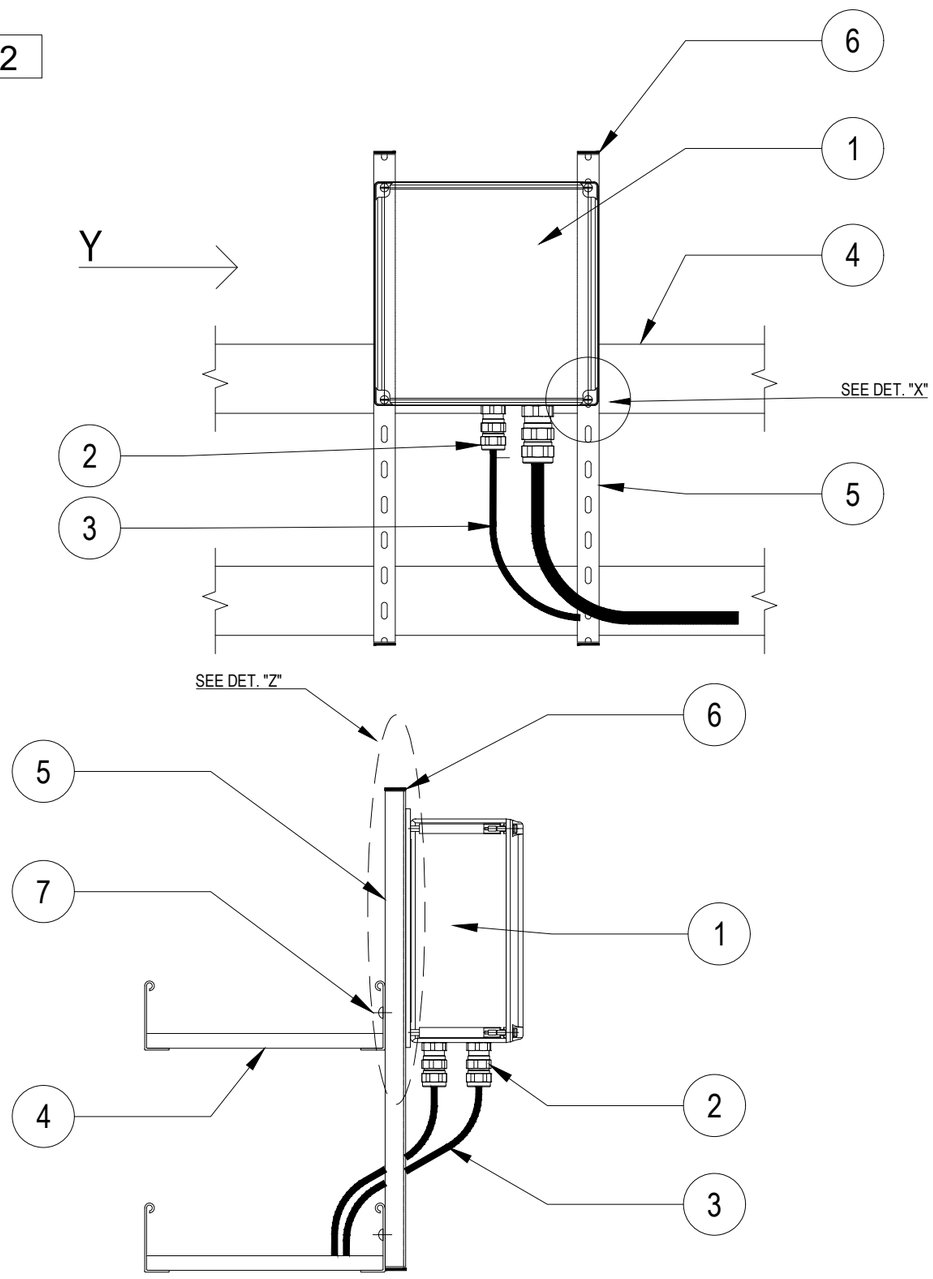
File Name : 123A90-DDL-EL-DG-20125

F.to UNI A3: 420mmx297mm

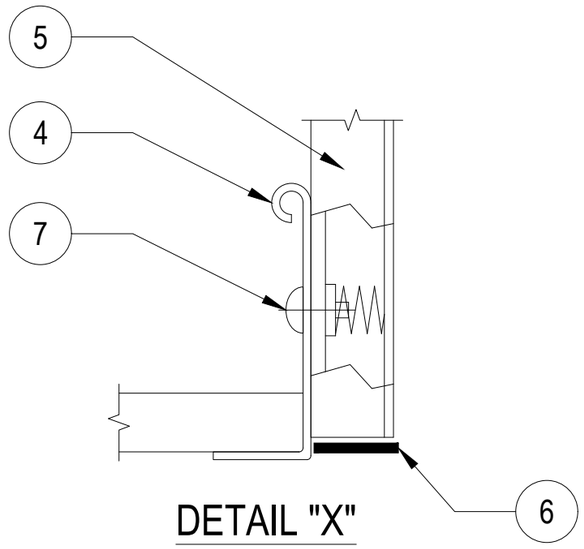
L02

02

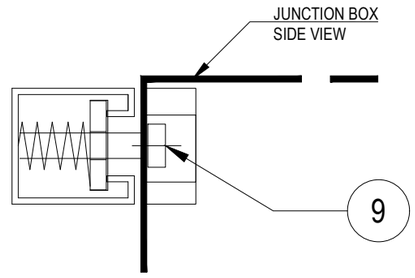
POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	JUNCTION BOX (Ex)	GRP			
2	CABLE GLAND FOR ARMOURED/UNARMOURED CABLE	NICK.PL.BRASS			NOTE 2
3	ARMOURED/UNARMOURED CABLE				
4	CABLE LADDER	AISI 316L			
5	SINGLE U-CHANNEL PERFORATED ON NO.3 SIDE	AISI 316L	41x41x2		NOTE 1
6	PLUG FOR U-CHANNEL	LPDE			
7	ROUND HEAD SCREW WITH SQUARE NECK AND NUT FOR U-CHANNEL WITH SPRING	AISI 316L	M6x20	4	
9	ALLEN KEY BOLT COMPLETE WITH PLANE WASHER, NUT FOR U-CHANNEL WITH SPRING	AISI 316L	M6x30		



VIEW "Y"



DETAIL "X"



DETAIL "Z"

NOTES:

1) THE EXACT DIMENSIONS WILL BE DEFINED DURING ASSEMBLY PHASE.

2) CABLE GLAND COMPLETE WITH LOCKNUT, NYLON WASHER, SERRATED WASHER, EXTERNAL RUBBER RING AND EARTH TAG (IF NECESSARY).

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING AND SOCKET JB MOUNTED ON CABLE LADDER

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

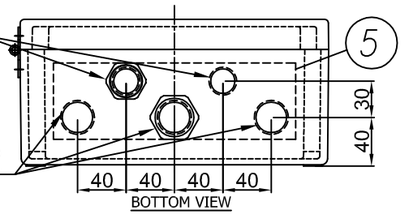
A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 004 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

(10)(4) N°2 PASSING HOLES Ø20.2
C/W N°1 BNK PLUG M20 +
N°1 DUSTPROOF PVC PLUG

(3)(3) N°3 PASSING HOLES Ø25.2
C/W N°1 BNK PLUG M25 +
N°2 DUSTPROOF PVC PLUG



BOTTOM VIEW

(8) I2400722-B015I00029809

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC
Via Italia 33 - 20060 Cassano (MI) ITALY

CE 0080 Ex II 2G II 2D
FIDI 21ATEX 0090X
IECEx FIDI 21.0015X
Year of construction:

MADE IN ITALY

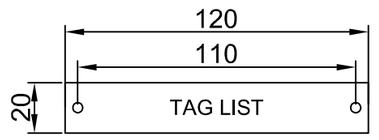
TYPE: AQ-252612P
230VAC 50Hz 20A
Max Dis. P. 6W

Ex eb IIC T6 Gb
Ex tb IIIC T85°C Db
IP66
T.amb. -20/+40°C
Serial Nr.

WARNINGS : DO NOT OPEN WHEN ENERGIZED

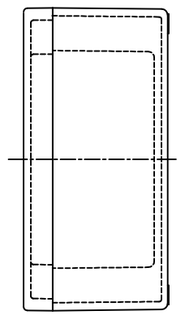
A002MAX

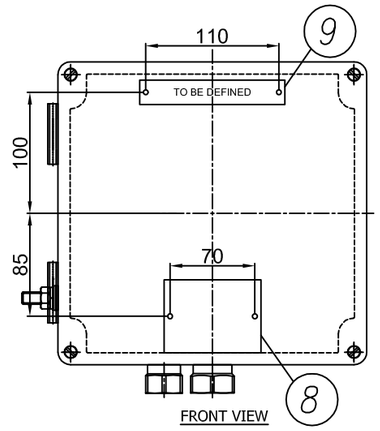
(9) PLATE DETAIL



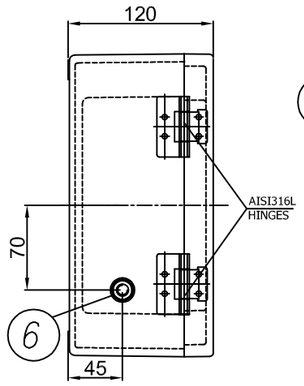
MATERIAL: LAMINATED PLASTIC
BACKGROUND: WHITE
LETTERS: BLACK

(7) Terminals numbered: NOTE 1

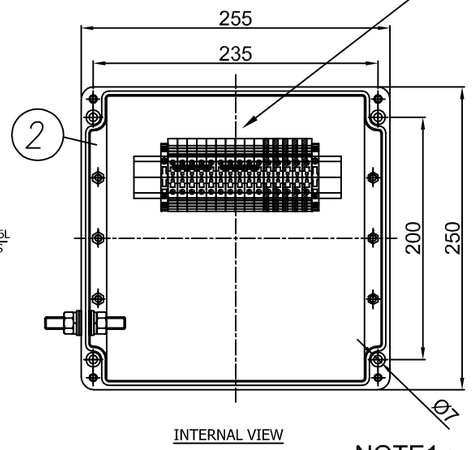

RIGHT VIEW



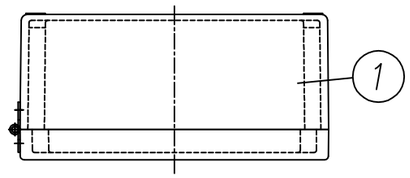
FRONT VIEW



LEFT VIEW



INTERNAL VIEW



TOP VIEW

NOTE1 :
- JB for Normal Lighting have terminals bridge: L-L-L-L-L, N-N-N-N-N, PE-PE-PE-PE-PE - JB for Emergency Lighting have terminals bridge: L-L-L, N-N-N, PW-PW-PW, PE-PE-PE-PE-PE

ITEM	DESCRIPTION	Pcs Q.TY	NOTE/MAT.	CODE	MANUFACTURER
11	DUSTPROOF PVC PLUG Ø25	2	–	.	TECHNOR ITALSMEA
10	DUSTPROOF PVC PLUG Ø20	1	–	.	TECHNOR ITALSMEA
9	LAMINATED PLASTIC TAG 120X20	1	–	.	TECHNOR ITALSMEA
8	AISI316L CERTIFICATE PLATE 80X60	1	–	.	TECHNOR ITALSMEA
7	BEIGE TERMINAL BLOCK SIZE 6 SQMM EARTH TERMINAL BLOCK SIZE 6 SQMM	10 5	WDU–6 WPE–6	.	WEIDMULLER
6	AISI316L INT/EXT EARTH BOLT M10	1	BTP–10	.	TECHNOR ITALSMEA
5	BRASS CONTINUITY PLATE THK. 0.8 MM	1	–	.	TECHNOR ITALSMEA
4	NICKEL PLATED BRASS PLUG M20	1	T20	.	TECHNOR ITALSMEA
3	NICKEL PLATED BRASS PLUG M25	1	T25	.	TECHNOR ITALSMEA
2	INTERNAL MOUNTING PLATE	1	PS–2526	.	TECHNOR ITALSMEA
1	GRP ENCLOSURE	1	AQ–252612P	.	TECHNOR ITALSMEA

-UNPAINTED (BLACK NATURAL)
Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti
TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
05	20/12/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting

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

A3 | DRAWING NO. 1724001481–EL–DA–00003 | SHEET 004 | REV. 05

F.to UNI A3: 420mmx297mm

File Name : 1724001481–EL–DA–00003 Rev. 01

ENCLOSURE N°	TAG LIST	NORMAL LIGHTING	EMERGENCY LIGHTING
1	EJB-200N1-03-L2-04	X	
2	EJB-200N1-03-L2-03	X	
3	EJB-200N1-03-L2-01	X	
4	EJB-200N1-03-L2-02	X	
5	EJB-200N1-03-L2-12	X	
6	EJB-200N1-03-L2-11	X	
7	EJB-200N1-03-L2-10	X	
8	EJB-200N1-03-L2-09	X	
9	EJB-200N1-03-L2-08	X	
10	EJB-200N1-03-L2-07	X	
11	EJB-200N1-03-L2-06	X	
12	EJB-200N1-03-L2-05	X	
13	EJB-200N1-03-L2-14	X	
14	EJB-200N1-03-L2-13		X
15	EJB-200N1-09-L2-17		X
16	EJB-200N1-09-L2-01		X
17	EJB-200N1-09-L2-04		X
18	SPARE (TO BE PROVIDED BLANK)		X
19	EJB-200N1-09-L2-02		X
20	EJB-200N1-09-L2-15		X
21	EJB-200N1-09-L2-14		X
22	EJB-200N1-09-L2-13		X
23	EJB-200N1-09-L2-12		X
24	EJB-200N1-09-L2-11		X
25	EJB-200N1-09-L2-10		X
26	EJB-200N1-09-L2-09		X
27	EJB-200N1-09-L2-08		X
28	EJB-200N1-09-L2-07		X
29	EJB-200N1-09-L2-06		X
30	EJB-200N1-09-L2-05		X
31	EJB-200N1-09-L2-16	X	
32	EJB-200N1-04-L3-01	X	
33	EJB-200N1-04-L3-02	X	
34	EJB-200N1-10-L3-05		X
35	EJB-200N1-10-L3-06		X
36	EJB-200N1-10-L3-07		X
37	EJB-200N1-10-L3-08		X
38	EJB-200N1-10-L3-09		X
39	EJB-200N1-10-L3-02		X
40	EJB-200N1-10-L3-01		X
41	EJB-200N1-10-L3-03		X
42	EJB-200N1-10-L3-04		X
43	EJB-200N1-02-L1-03	X	
44	EJB-200N1-02-L1-02	X	
45	EJB-200N1-02-L1-01	X	
46	SPARE (TO BE PROVIDED BLANK)	X	
47	EJB-200N1-02-L1-10	X	
48	EJB-200N1-02-L1-19	X	
49	EJB-200N1-02-L1-18	X	

ENCLOSURE N°	TAG LIST	NORMAL LIGHTING	EMERGENCY LIGHTING
50	EJB-200N1-02-L1-17	X	
51	EJB-200N1-02-L1-16	X	
52	EJB-200N1-02-L1-15	X	
53	EJB-200N1-02-L1-14	X	
54	EJB-200N1-02-L1-13	X	
55	EJB-200N1-02-L1-12	X	
56	EJB-200N1-02-L1-11	X	
57	EJB-200N1-02-L1-06	X	
58	EJB-200N1-02-L1-05	X	
59	EJB-200N1-02-L1-07	X	
60	EJB-200N1-02-L1-08	X	
61	EJB-200N1-02-L1-09	X	
62	EJB-200N1-08-L1-03		X
63	SPARE (TO BE PROVIDED BLANK)		X
64	EJB-200N1-08-L1-01		X
65	EJB-200N1-08-L1-04		X
66	EJB-200N1-08-L1-19		X
67	EJB-200N1-08-L1-18		X
68	EJB-200N1-08-L1-17		X
69	EJB-200N1-08-L1-16		X
70	EJB-200N1-08-L1-15		X
71	EJB-200N1-08-L1-14		X
72	EJB-200N1-02-L1-20	X	
73	EJB-200N1-08-L1-12		X
74	EJB-200N1-08-L1-11		X
75	EJB-200N1-08-L1-10		X
76	EJB-200N1-08-L1-20		X
77	EJB-200N1-08-L1-05		X
78	EJB-200N1-08-L1-06		X
79	EJB-200N1-08-L1-07		X
80	EJB-200N1-08-L1-09		X
81	EJB-200N1-08-L1-08		X
82	EJB-200F2-01	X	
83	EJB-200F2-02	X	
84	SPARE (TO BE PROVIDED BLANK)	X	
85	SPARE (TO BE PROVIDED BLANK)	X	
86	SPARE (TO BE PROVIDED BLANK)	X	
87	SPARE (TO BE PROVIDED BLANK)	X	
88	SPARE (TO BE PROVIDED BLANK)	X	
89	SPARE (TO BE PROVIDED BLANK)		X
90	SPARE (TO BE PROVIDED BLANK)		X
91	SPARE (TO BE PROVIDED BLANK)		X
92	SPARE (TO BE PROVIDED BLANK)		X

Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
05	20/12/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting–Tag List

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

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

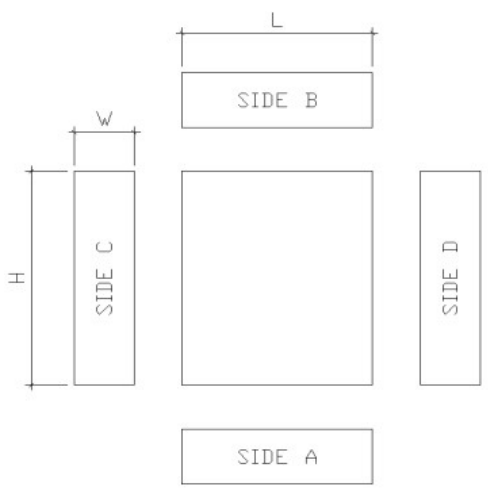
SHEET 005

REV. 05

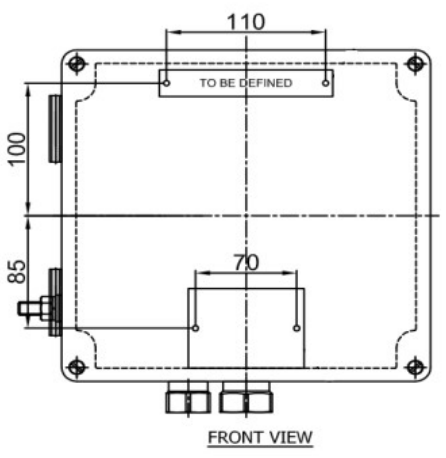
F.to UNI A3: 420mmx297mm

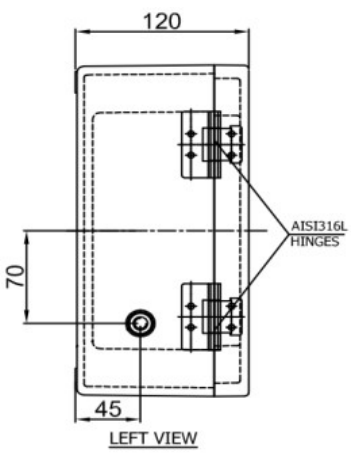
File Name : 1724001481-EL-DA-00003 Rev. 01

Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	Junction Box for Normal & Emergency Lighting				
2	**Item**	**Required**	**Manufacturer Proposal**	**Comments**	
3	Model Number	by Vendor	AQ-252612P		01
4	Serial Number	by Vendor	B011041010004		01
5	Quantity	40+4(Spare)		(39+5 Spare)	01
6	Application	Lighting pole JB/Lighting JB			00
7	**Installation area**				
8	Indoor/Outdoor	Outdoor			00
9	Safe Area/Hazardous Area	Safe area			00
10	Zone 1/Zone 2	NA			00
11	Temp. Class	NA	Ex eb IIC, T6 Gb		01
12	**Electrical input data**				
13	Voltage	230 V ac	230 V ac		00
14	Number of Phases	1ph + N + PE			00
15	**Material**				
16	Body	GRP	GRP		01
17	Execution	Normal	Ex eb	Will be used ATEX even in safe area	01
18	Protection Degree	IP56	IP 66		01
19	**Accessories**				
20	Hinged Cover	Required	AISI316L Hinges		01
21	Gasket	Required			00
22	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
23	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
24	Internal Ground Bar	Required		connected to earth stud	00
25	Earth Stud	Required			00
26	Drainage Valve	Required			00
27	Pad lockable Cover	Required			00
28	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
29	**Side 'A'**				
30	Hubs Qty.	5	5		01
31	Size	No.3 M25, No.2 M20	No.3 Ø 25.2 mm, No.2 Ø 20.2 mm		01
32	Thread	ISO-M			00
33	Plug	No. 1 M20, No.1 M25	No. 1 Ø 20.2 mm, No.1 Ø 25.2 mm	nickel-plated brass	01
34	**Side 'B'**				
35	Hubs Qty.	Not Required			00
36	Size	NA			00
37	Thread	NA			00
38	**Side 'C'**				
39	Hubs Qty.	Not Required			00
40	Size	NA			00
41	Thread	NA			00
42	**Side 'D'**				
43	Hubs Qty.	Not Required			00
44	Size	NA			
45	Thread	NA			
46	**Terminals**				
47	Size [mm^2]	Suitable for 6 Sq.mm & 2.5 Sq.mm Cable	M25 & M20	suitable with wire-end ferrules DIN 46228	01
48	Qty.	n°5 for Ph // n°5 for N // n°5 for PE	n°5 for Ph // n°5 for N // n°5 for PE	jumpered	01
49	**Bonding Cable (yellow/Green)**				
50	Size [mm^2]	by vendor		6 mm^2	01
51	Qty.	Min. 0.15m			00
52	**Dimension**				
53	Height 'H' [mm]	by vendor	120 mm		01
54	Width 'W' [mm]	by vendor	250 mm		01
55	Length 'L' [mm]	by vendor	255 mm		01
56	Weight [Kg]	by vendor	2.65 Kg		01
57	JB Code (*)	Remarks			
58					



NOTES:
(*) Filled by Vendor





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ITEM	Tag	P-EJB-200N1-10-L3-07	: Stair Emergency Lighting JB / Stair Emergency Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	TP
TASK	code	C10001813		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 4G4_E mm2 Color GREY

From EJB-200N1-10-L3-06 To EJB-200N1-10-L3-07

1	Confirm cable is as specified in project cable schedule	Note
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	OK
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	OK
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

REFER TO FINAL SHEET FOR ACCEPTANCE

ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	P-EJB-200N1-10-L3-07	: Stair Emergency Lighting JB / Stair Emergency Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	TP
TASK	code	C10001813		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,4	
6		PH 2	0,4	
7		PH 3	0,4	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,4	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>1999	
11		PH2 / PH1-PH3-A-E	>1999	
12		PH3 / PH1-PH2-A-E	>1999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

TYPE / SERIAL N° :	VOLCRAFT 1000V - ET-200 S/N:H240103023	TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207
Calibration certificate N° and date:	N°LAT 042 00768/24 _ 12/10/2024	Calibration certificate N° and date:	N°7722/24 _ 10/07/2024

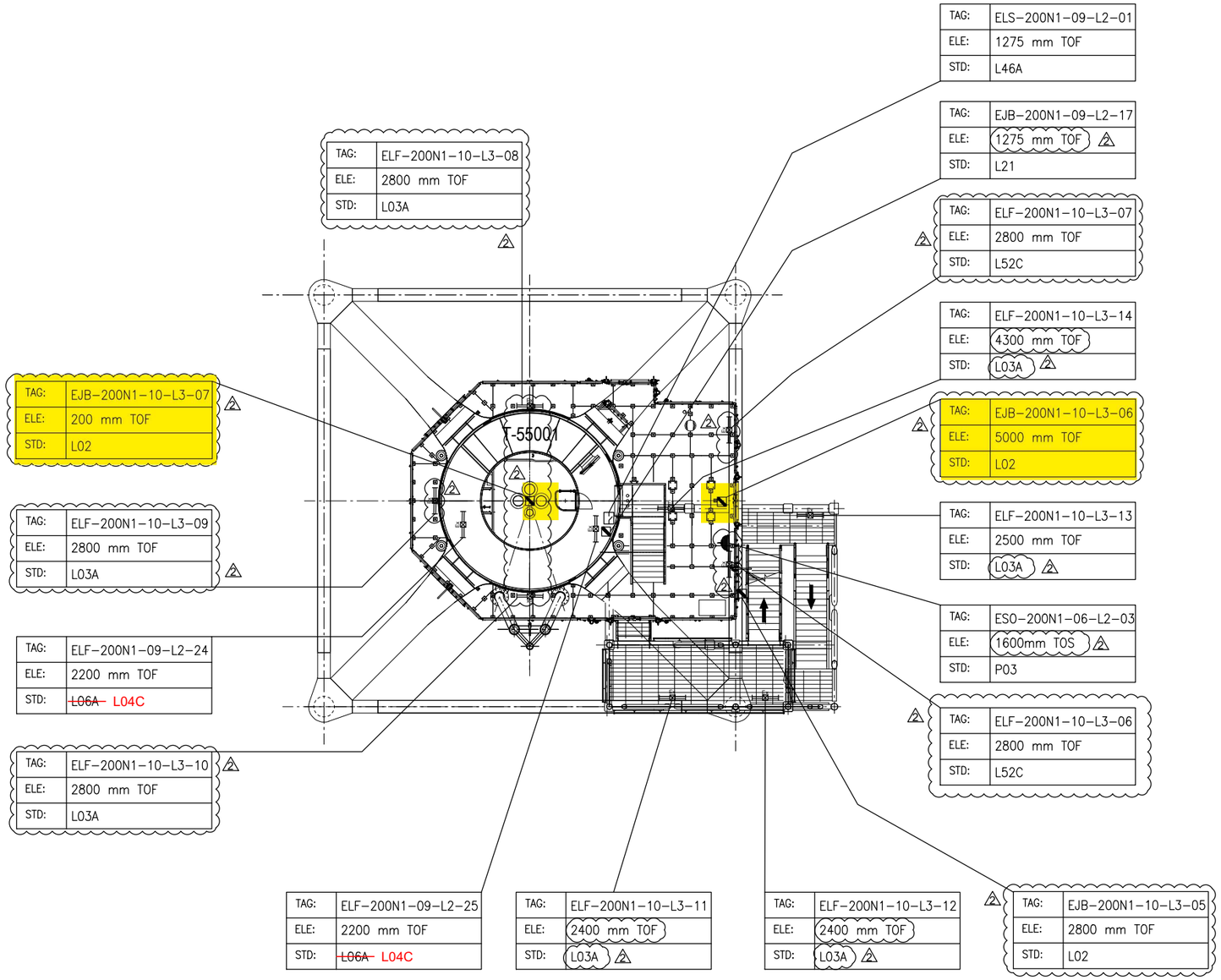
Comments: Note: THE WIRING AND TYPE OF CABLE MUST BE UPDATE. (FIELD INSTALLED 5g4_E).

CORE CONTINUITY : PH 4= 0.4

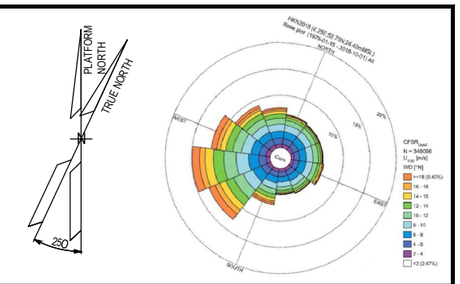
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	VIP	RM(ROSETTI MARINO)	
Name	Madhankumar Arunagiri	Giovanni Tangianu	
Date	2025-04-18	2025-05-05	
Signature	PROVERLIS Digitaly signed by Madhankumar Arunagiri 2025-04-18T09:31:01.194Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2025-05-05T11:08:18.209Z	

DRAWING NO. 123A90-DDL-EL-DL-20120

REV. 02



PLAN ON EXISTING PLATFORM AT EL.+16.860 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S / T.O.F.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. ELEVATION OR STANDARD PRESENT IN THE MASK, WHERE JB AND FIXTURE ARE SHOWN, ARE RELATIVE TO THE ORDER OF THE TAGS, 1°ROW JB AND 2°ROW FIXTURE = ELEVATION JB / ELEVATION FIXTURE.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- SMALL POWER SOCKET WITH INTEGRATED JB
- LOCAL SWITCH IP66 TYPE

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

T.O.S TOP OF STEEL
T.O.F TOP OF FOOTING (Walkway plan)

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20120**

REV.:	DATE:	SIGNATURE:
2_B	27/01/25	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-EL-DL-20102	ELECTRICAL EQUIPMENT LAYOUT - TRANSITION PIECE
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-PP-DL-70070	BASE LOAD POWER HUB (BLPH) - PLOT PLAN - LOWER AND UPPER DECK
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
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	04/06/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

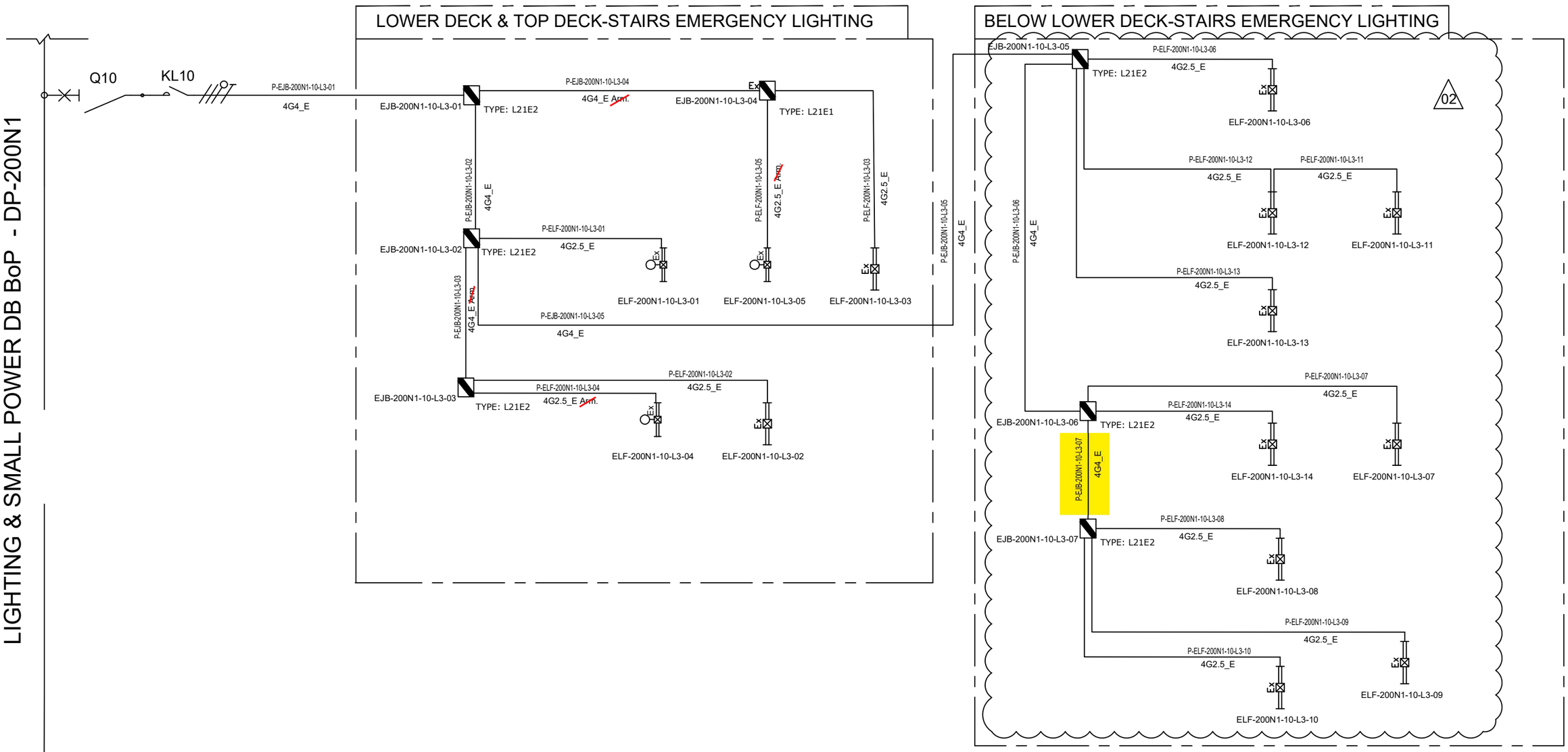
ROSETTI MARINO

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

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:100
DRAWN AMA	CHECKED CGI	APPROVED DLO	DATE 07/10/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20120	SHEET 001	REV. 02

File Name : 123A90-DDL-EL-DL-20120

LIGHTING & SMALL POWER DB BoP - DP-200N1



NOTE:	
ELF-200N1-10-L3-01	LOWER DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-02	
ELF-200N1-10-L3-03	
ELF-200N1-10-L3-04	TOP DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-05	

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

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

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
		ELF-200N1-10-L3-09			
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
STAIRS EMERGENCY LIGHTING (LOWER DECK,TOP DECK AND BELOW LOWER DECK)

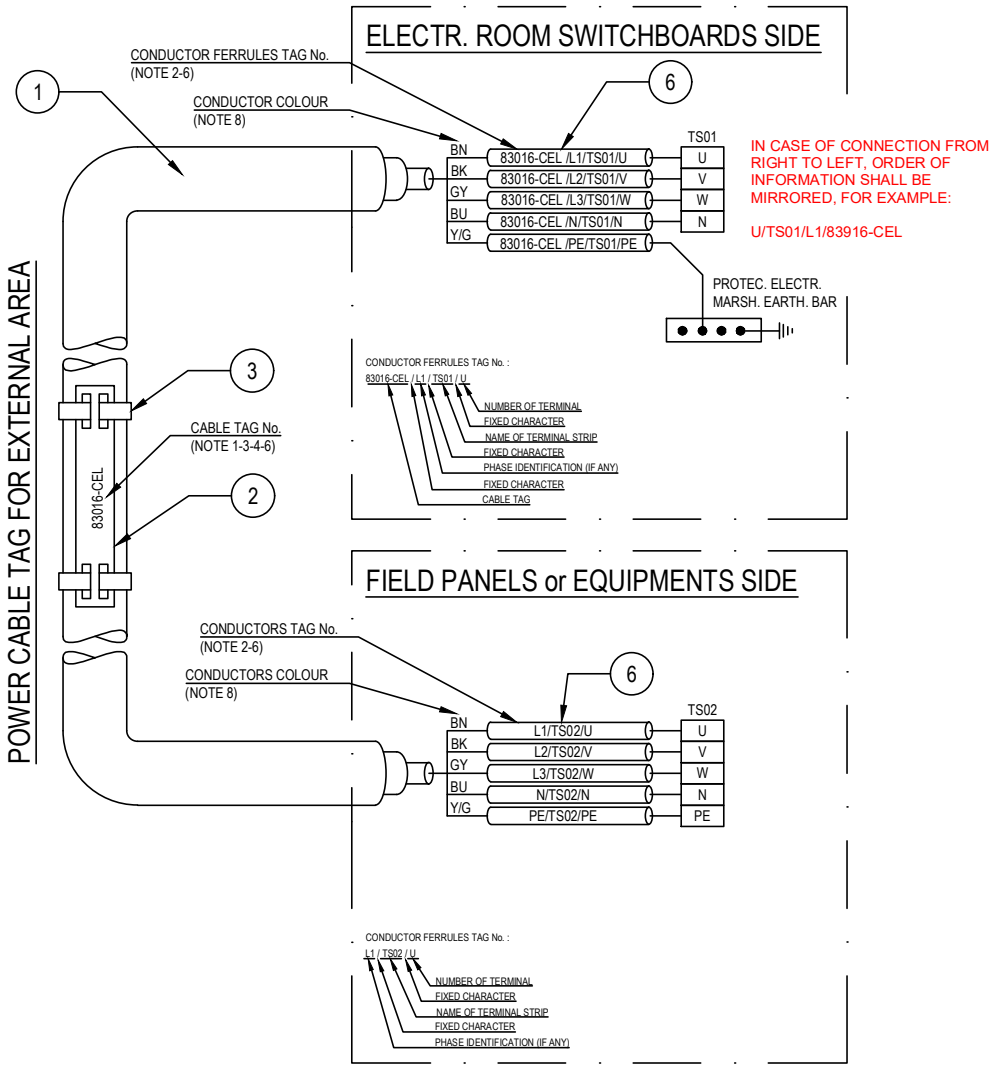
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	007	02

F.to UNI A3: 420mmx297mm

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

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

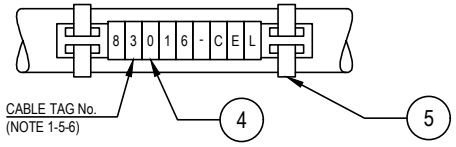
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

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

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

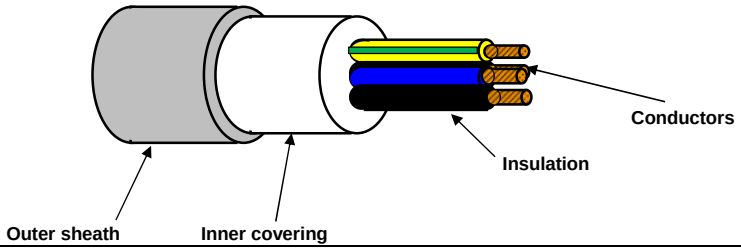
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-EJB-200N1-10-L3-07	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-10-L3-06	Emergency Lighting JB	Below Lower Deck Stairs		EJB-200N1-10-L3-07	Emergency Lighting JB	Below Lower Deck Stairs		ELECV11-4G4_E	Cable Cu Cl.2/E/PR/LSZH 0,6/1kV 4G4mm²_E - Grey	M25	T1_M25_Single			T1_M25_Single				L-50-100-LVT-020 / L-150-100-LVT-018 / L-150-100-LVT-019

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G4_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G4 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(15,5 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-ELF-200N1-10-L3-09	: Stair Emergency Lighting JB / Stair Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	TP
TASK	code	C10001815	Location	Onshore Activities		User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form CPX09	LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 4G2,5_E mm2 Color BLACK

From EJB-200N1-10-L3-07 To ELF-200N1-10-L3-09

1	Confirm cable is as specified in project cable schedule	PL
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	OK
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	OK
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	●

ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	P-ELF-200N1-10-L3-09	: Stair Emergency Lighting JB / Stair Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	TP
TASK	code	C10001815		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,4	
6		PH 2	0,4	
7		PH 3	0,4	
8	ARMOUR CONTINUITY Ω		0,4	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,4	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>1999	
11		PH2 / PH1-PH3-A-E	>1999	
12		PH3 / PH1-PH2-A-E	>1999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	VOLCRAFT 1000V - ET-200 S/N:H240103023	TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207
Calibration certificate N° and date:	N°LAT 042 00768/24 _ 12/10/2024	Calibration certificate N° and date:	N°7722/24 _ 10/07/2024

Comments: .

Page 2/2

	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	VIP	RM(ROSETTI MARINO)	
Name	Madhankumar Arunagiri	Giovanni Tangianu	
Date	2025-04-18	2025-05-05	
Signature	PROVERLIS Digitaly signed by Madhankumar Arunagiri 2025-04-18T06:20:06.034Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2025-05-05T11:21:11.941Z	

DRAWING NO. 123A90-DDL-EL-DL-20120

REV. 02

TAG:	ELF-200N1-10-L3-08
ELE:	2800 mm TOF
STD:	L03A

TAG:	ELS-200N1-09-L2-01
ELE:	1275 mm TOF
STD:	L46A

TAG:	EJB-200N1-09-L2-17
ELE:	1275 mm TOF ⚠2
STD:	L21

TAG:	ELF-200N1-10-L3-07
ELE:	2800 mm TOF
STD:	L52C

⚠2

TAG:	ELF-200N1-10-L3-14
ELE:	4300 mm TOF
STD:	L03A ⚠2

TAG:	EJB-200N1-10-L3-06
ELE:	5000 mm TOF
STD:	L02

⚠2

TAG:	EJB-200N1-10-L3-07
ELE:	200 mm TOF
STD:	L02

⚠2

TAG:	ELF-200N1-10-L3-13
ELE:	2500 mm TOF
STD:	L03A ⚠2

TAG:	ELF-200N1-10-L3-09
ELE:	2800 mm TOF
STD:	L03A

⚠2

TAG:	ESO-200N1-06-L2-03
ELE:	1600mm TOS ⚠2
STD:	P03

TAG:	ELF-200N1-09-L2-24
ELE:	2200 mm TOF
STD:	~~L06A~~ L04C

⚠2

TAG:	ELF-200N1-10-L3-06
ELE:	2800 mm TOF
STD:	L52C

TAG:	ELF-200N1-10-L3-10
ELE:	2800 mm TOF
STD:	L03A

⚠2

TAG:	ELF-200N1-09-L2-25
ELE:	2200 mm TOF
STD:	~~L06A~~ L04C

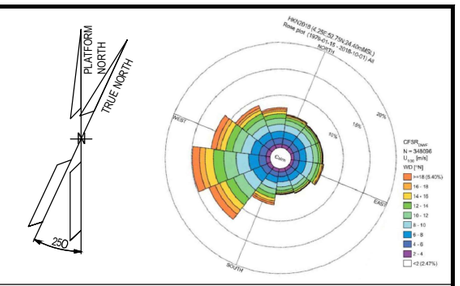
TAG:	ELF-200N1-10-L3-11
ELE:	2400 mm TOF
STD:	L03A ⚠2

TAG:	ELF-200N1-10-L3-12
ELE:	2400 mm TOF
STD:	L03A ⚠2

⚠2

TAG:	EJB-200N1-10-L3-05
ELE:	2800 mm TOF
STD:	L02

PLAN ON EXISTING PLATFORM AT EL.+16.860 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S / T.O.F.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. ELEVATION OR STANDARD PRESENT IN THE MASK, WHERE JB AND FIXTURE ARE SHOWN, ARE RELATIVE TO THE ORDER OF THE TAGS, ⚠2 1°ROW JB AND 2°ROW FIXTURE = ELEVATION JB / ELEVATION FIXTURE.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- SMALL POWER SOCKET WITH INTEGRATED JB
- LOCAL SWITCH IP66 TYPE

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

T.O.S TOP OF STEEL
T.O.F TOP OF FOOTING (Walkway plan)

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20120**

REV.:	DATE:	SIGNATURE:
2_B	27/01/25	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-EL-DL-20102	ELECTRICAL EQUIPMENT LAYOUT - TRANSITION PIECE
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-PP-DL-70070	BASE LOAD POWER HUB (BLPH) - PLOT PLAN - LOWER AND UPPER DECK
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
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	04/06/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

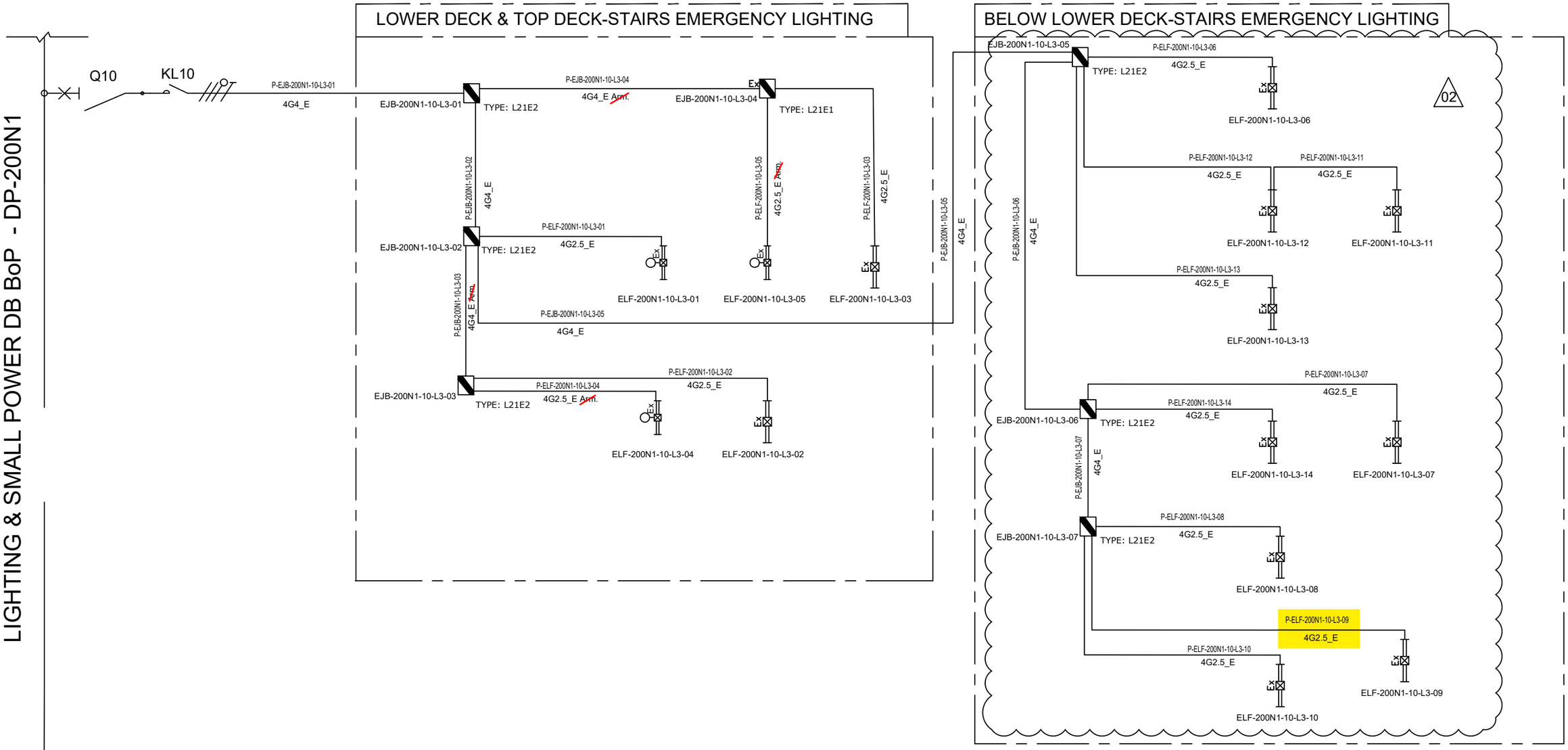
ROSETTI MARINO

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

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:100
DRAWN AMA	CHECKED CGI	APPROVED DLO	DATE 07/10/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20120	SHEET 001	REV. 02

File Name : 123A90-DDL-EL-DL-20120

LIGHTING & SMALL POWER DB BoP - DP-200N1



NOTE:	
ELF-200N1-10-L3-01	LOWER DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-02	
ELF-200N1-10-L3-03	
ELF-200N1-10-L3-04	TOP DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-05	

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

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

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
			ELF-200N1-10-L3-09		
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
STAIRS EMERGENCY LIGHTING (LOWER DECK,TOP DECK AND BELOW LOWER DECK)

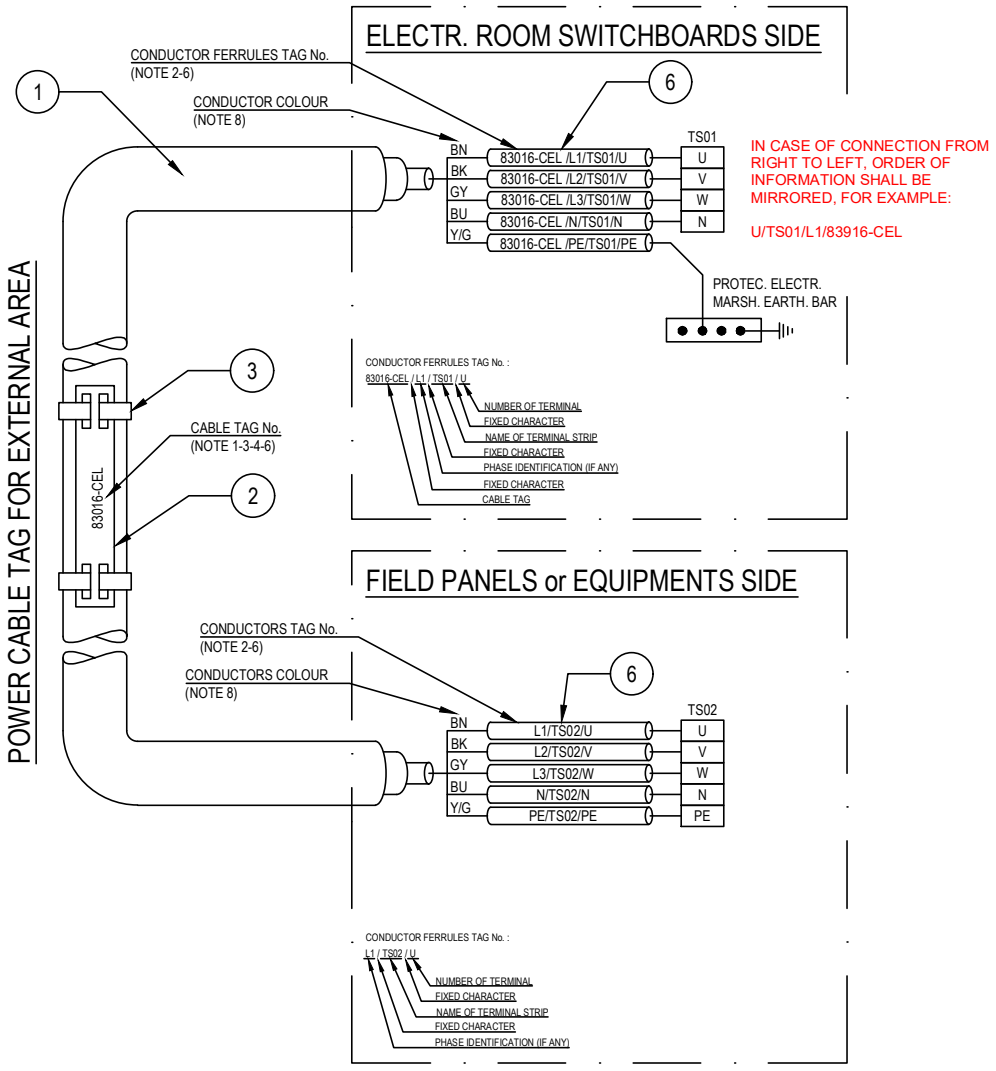
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	007	02

F.to UNI A3: 420mmx297mm

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

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

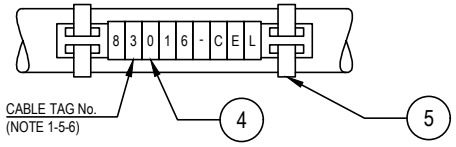
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

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

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

F.to UNI A3: 420mmx297mm

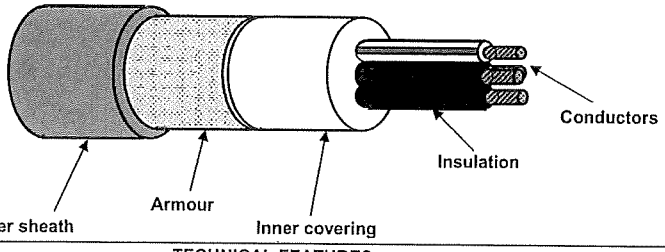
File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-10-L3-09	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-10-L3-07	Emergency Lighting JB	Below Lower Deck Stairs		ELF-200N1-10-L3-09	Emergency Lighting Fixture	Below Lower Deck Stairs		ELECV12-4G2.5_E	Cable Cu Cl.2/EPR/LSZH 0.6/1kV 4G2.5mm²_E - Grey	M25	T1_M25_Single			T1_M25_Single	M20	ADAP_M20Mx M25F		L-50-100-LVT-013

FLEI s.r.l.

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G2,5_E - L.V. POWER CABLE - Flame Retardant - Armoured



TECHNICAL FEATURES

Conductors :	STRANDED plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	XLPE compound, quality to IEC 60092.360, Nominal Thickness 0,7 mm
Cores colour code :	Black - Brown - Grey - Yellow/Green
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	Black or Natural
Armour :	Galvanized Steel Wire Braid Armour (coverage ≥ 90%)
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type SHF1 to IEC 60092.360, Average Thickness 1,2 mm
Outer sheath color code:	Black
Outer printing (INKJET) :	FLEI - 4G2,5 SQMM - XLPE/LSZH/EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.24 - Year of Manufacture - CE + Meter Marking
Under Armour diameter :	(12,8 ± 10%) mm
Over Armour diameter :	(14,0 ± 10%) mm
Outer diameter :	(16,8 ± 10%) mm
Bending radius :	cable outer diameter x 10 (In fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	IEC 60092.353
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.24
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Hazardous Areas :	IEC 60079.14:2013 par.9.3.2a
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-ELF-200N1-10-L3-10	: Stair Emergency Lighting JB / Stair Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	TP
TASK	code	C10001817		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type: Cu Cl.2/EPR/LSZH | Cores/Size mm²: 4G2,5_E mm2 | Color: BLACK

From: EJB-200N1-10-L3-07 | To: ELF-200N1-10-L3-10

1	Confirm cable is as specified in project cable schedule	PL
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	OK
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	OK
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	●

REFER TO FINAL SHEET FOR ACCEPTANCE

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-ELF-200N1-10-L3-10	: Stair Emergency Lighting JB / Stair Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	TP
TASK	code	C10001817		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,3	
6		PH 2	0,3	
7		PH 3	0,3	
8	ARMOUR CONTINUITY Ω		0,3	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,3	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>1999	
11		PH2 / PH1-PH3-A-E	>1999	
12		PH3 / PH1-PH2-A-E	>1999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

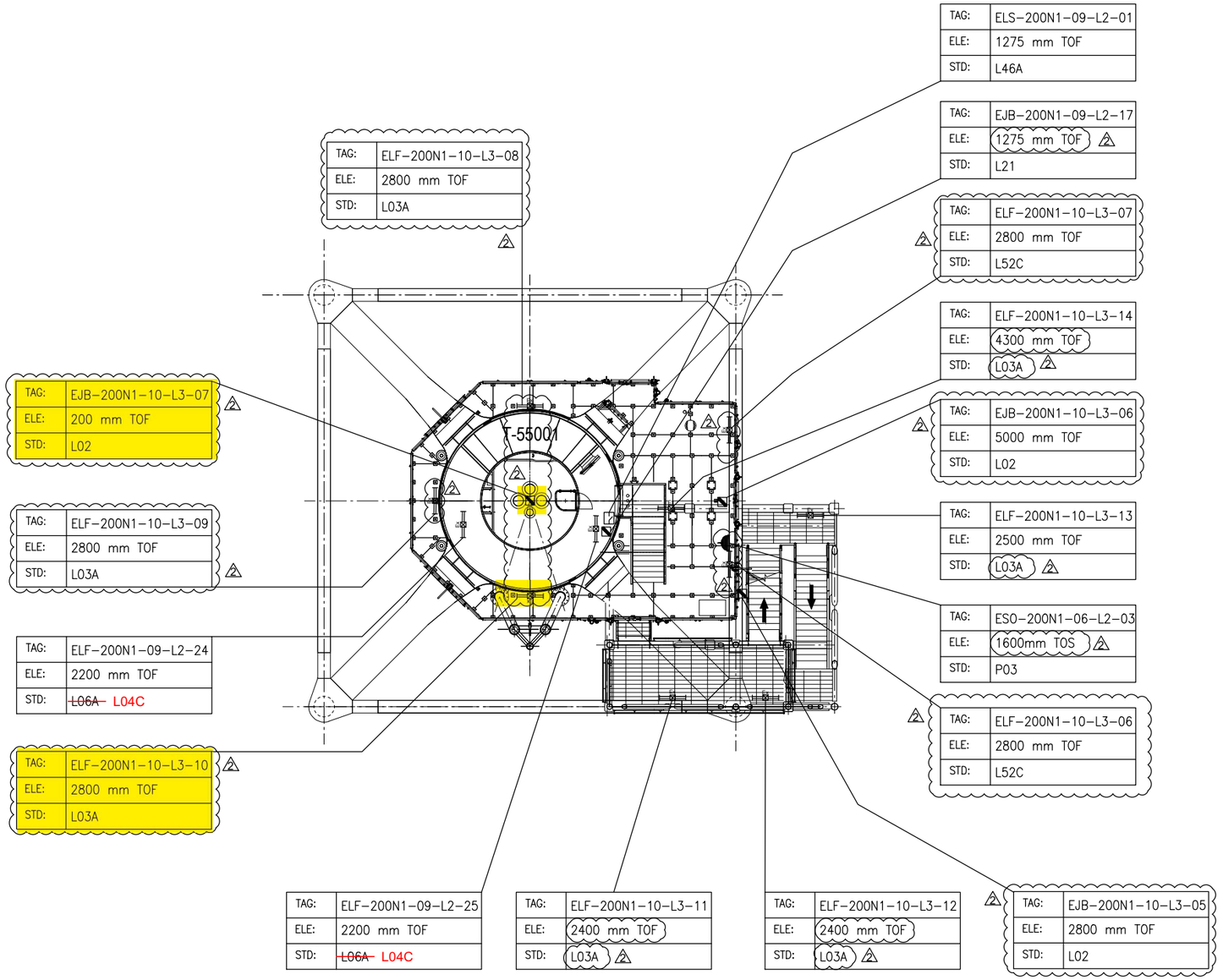
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	VOLCRAFT 1000V - ET-200 S/N:H240103023
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°LAT 042 00768/24 _ 12/10/2024

Comments:

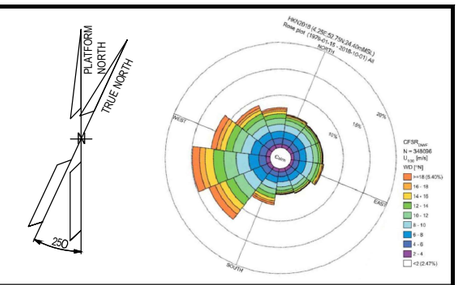
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	VIP	RM(ROSETTI MARINO)	
Name	Madhankumar Arunagiri	Giovanni Tangianu	
Date	2025-04-18	2025-05-05	
Signature	PROVERLIS Digitaly signed by Madhankumar Arunagiri 2025-04-18T06:20:58.158Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2025-05-05T11:22:25.957Z	

DRAWING NO. 123A90-DDL-EL-DL-20120

REV. 02



PLAN ON EXISTING PLATFORM AT EL.+16.860 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S / T.O.F.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. ELEVATION OR STANDARD PRESENT IN THE MASK, WHERE JB AND FIXTURE ARE SHOWN, ARE RELATIVE TO THE ORDER OF THE TAGS, 1°ROW JB AND 2°ROW FIXTURE = ELEVATION JB / ELEVATION FIXTURE.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- SMALL POWER SOCKET WITH INTEGRATED JB
- LOCAL SWITCH IP66 TYPE

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

T.O.S TOP OF STEEL
T.O.F TOP OF FOOTING (Walkway plan)

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20120**

REV.:	DATE:	SIGNATURE:
2_B	27/01/25	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-EL-DL-20102	ELECTRICAL EQUIPMENT LAYOUT - TRANSITION PIECE
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-PP-DL-70070	BASE LOAD POWER HUB (BLPH) - PLOT PLAN - LOWER AND UPPER DECK
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
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	04/06/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

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

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:100
DRAWN AMA	CHECKED CGI	APPROVED DLO	DATE 07/10/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20120	SHEET 001	REV. 02

File Name : 123A90-DDL-EL-DL-20120

LIGHTING & SMALL POWER DB BoP - DP-200N1

Q10

KL10

P-EJB-200N1-10-L3-01

4G4_E

LOWER DECK & TOP DECK-STAIRS EMERGENCY LIGHTING

EJB-200N1-10-L3-01

TYPE: L21E2

P-EJB-200N1-10-L3-04

4G4_E ~~Arm.~~

EJB-200N1-10-L3-04

TYPE: L21E1

P-EJB-200N1-10-L3-02

4G4_E

P-ELF-200N1-10-L3-05

4G2.5_E ~~Arm.~~

P-ELF-200N1-10-L3-03

4G2.5_E

EJB-200N1-10-L3-02

TYPE: L21E2

P-ELF-200N1-10-L3-01

4G2.5_E

ELF-200N1-10-L3-01

ELF-200N1-10-L3-05

ELF-200N1-10-L3-03

P-EJB-200N1-10-L3-03

4G4_E ~~Arm.~~

P-EJB-200N1-10-L3-05

4G4_E

EJB-200N1-10-L3-03

TYPE: L21E2

P-ELF-200N1-10-L3-04

4G2.5_E ~~Arm.~~

P-ELF-200N1-10-L3-02

4G2.5_E

ELF-200N1-10-L3-04

ELF-200N1-10-L3-02

P-EJB-200N1-10-L3-05

4G4_E

BELOW LOWER DECK-STAIRS EMERGENCY LIGHTING

EJB-200N1-10-L3-05

TYPE: L21E2

P-ELF-200N1-10-L3-06

4G2.5_E

ELF-200N1-10-L3-06

02

P-EJB-200N1-10-L3-06

4G4_E

P-ELF-200N1-10-L3-12

4G2.5_E

P-ELF-200N1-10-L3-11

4G2.5_E

ELF-200N1-10-L3-12

ELF-200N1-10-L3-11

P-ELF-200N1-10-L3-13

4G2.5_E

ELF-200N1-10-L3-13

P-ELF-200N1-10-L3-07

4G2.5_E

EJB-200N1-10-L3-06

TYPE: L21E2

P-ELF-200N1-10-L3-14

4G2.5_E

P-EJB-200N1-10-L3-07

4G4_E

ELF-200N1-10-L3-14

ELF-200N1-10-L3-07

P-ELF-200N1-10-L3-08

EJB-200N1-10-L3-07

TYPE: L21E2

P-ELF-200N1-10-L3-08

4G2.5_E

ELF-200N1-10-L3-08

P-ELF-200N1-10-L3-09

4G2.5_E

P-ELF-200N1-10-L3-10

4G2.5_E

ELF-200N1-10-L3-09

ELF-200N1-10-L3-10

NOTE:	
ELF-200N1-10-L3-01	LOWER DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-02	
ELF-200N1-10-L3-03	
ELF-200N1-10-L3-04	TOP DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-05	

VALID FOR CONSTRUCTION

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

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

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
			ELF-200N1-10-L3-09		
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
STAIRS EMERGENCY LIGHTING (LOWER DECK,TOP DECK AND BELOW LOWER DECK)

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

SCALE : NTS

A3

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

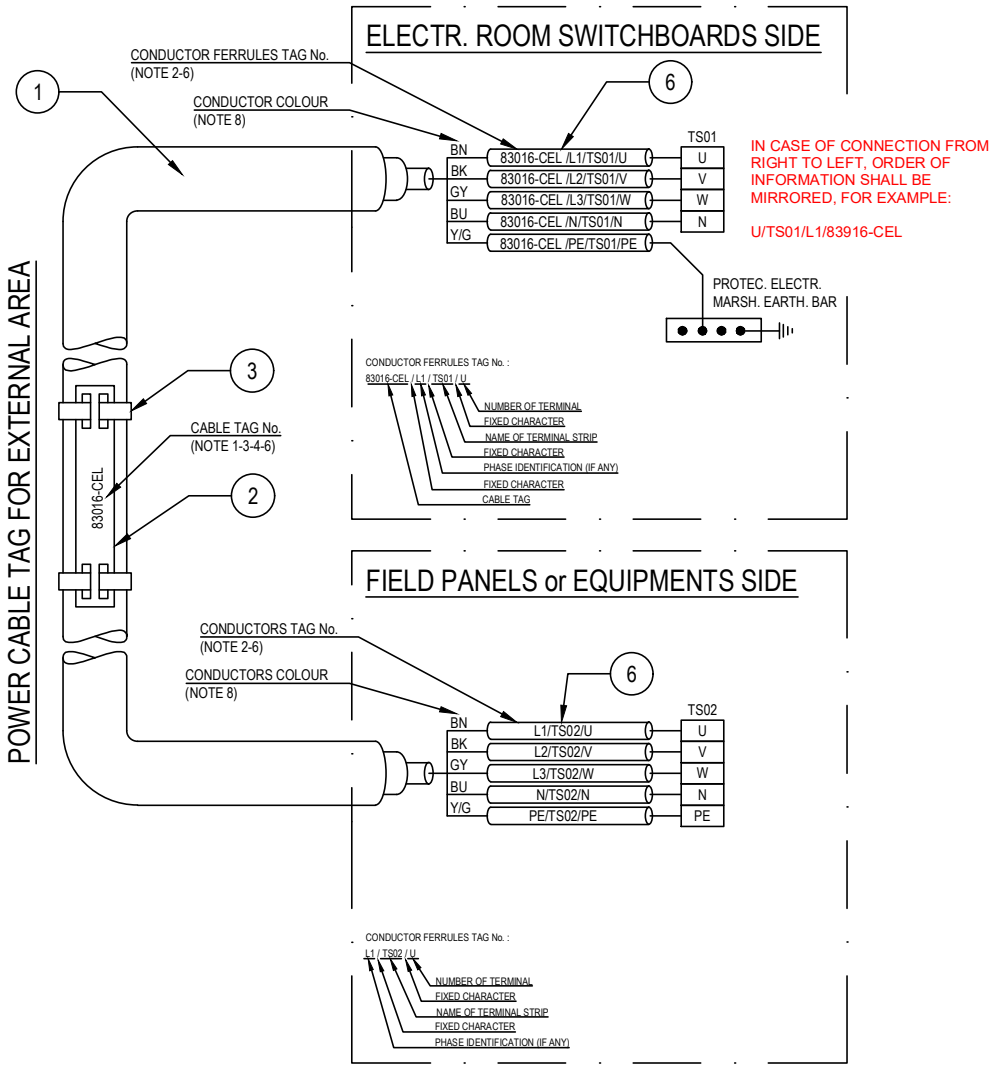
SHEET 007

REV. 02

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

F.to UNI A3: 420mmx297mm

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

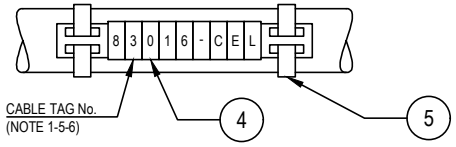
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

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

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

F.to UNI A3: 420mmx297mm

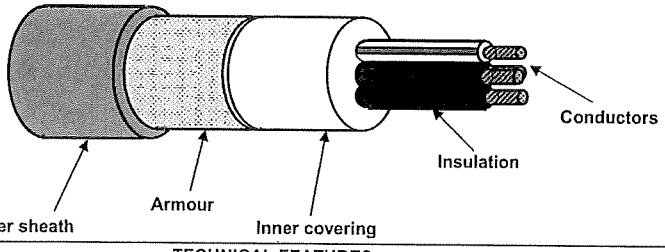
File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-10-L3-10	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-10-L3-07	Emergency Lighting JB	Below Lower Deck Stairs		ELF-200N1-10-L3-10	Emergency Lighting Fixture	Below Lower Deck Stairs		ELECV12-4G2.5_E	Cable Cu Cl.2/EPR/LSZH 0.6/1kV 4G2.5mm²_E - Grey	M25	T1_M25_Single			T1_M25_Single	M20	ADAP_M20Mx M25F		L-50-100-LVT-014

FLEI s.r.l.

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G2,5_E - L.V. POWER CABLE - Flame Retardant - Armoured



TECHNICAL FEATURES

Conductors :	STRANDED plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	XLPE compound, quality to IEC 60092.360, Nominal Thickness 0,7 mm
Cores colour code :	Black - Brown - Grey - Yellow/Green
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	Black or Natural
Armour :	Galvanized Steel Wire Braid Armour (coverage ≥ 90%)
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type SHF1 to IEC 60092.360, Average Thickness 1,2 mm
Outer sheath color code:	Black
Outer printing (INKJET) :	FLEI - 4G2,5 SQMM - XLPE/LSZH/EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.24 - Year of Manufacture - CE + Meter Marking
Under Armour diameter :	(12,8 ± 10%) mm
Over Armour diameter :	(14,0 ± 10%) mm
Outer diameter :	(16,8 ± 10%) mm
Bending radius :	cable outer diameter x 10 (In fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	IEC 60092.353
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.24
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Hazardous Areas :	IEC 60079.14:2013 par.9.3.2a
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

All proprietary rights reserved according to law. This document shall be not reproduced without written permission. FLEI reserves the right to change characteristics and technical data of product shown at any time.

ITEM	Tag	P-ELF-200N1-10-L3-11	: Stair Emergency Lighting JB / Stair Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	TP
TASK	code	C10001818		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type: Cu Cl.2/EPR/LSZH Cores/Size mm²: 4G2,5_E mm2 Color: GREY

From: ELF-200N1-10-L3-12 To: ELF-200N1-10-L3-11

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	OK
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	OK
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

REFER TO FINAL SHEET FOR ACCEPTANCE

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-ELF-200N1-10-L3-11	: Stair Emergency Lighting JB / Stair Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	TP
TASK	code	C10001818		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,2	
6		PH 2	0,2	
7		PH 3	0,2	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,2	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

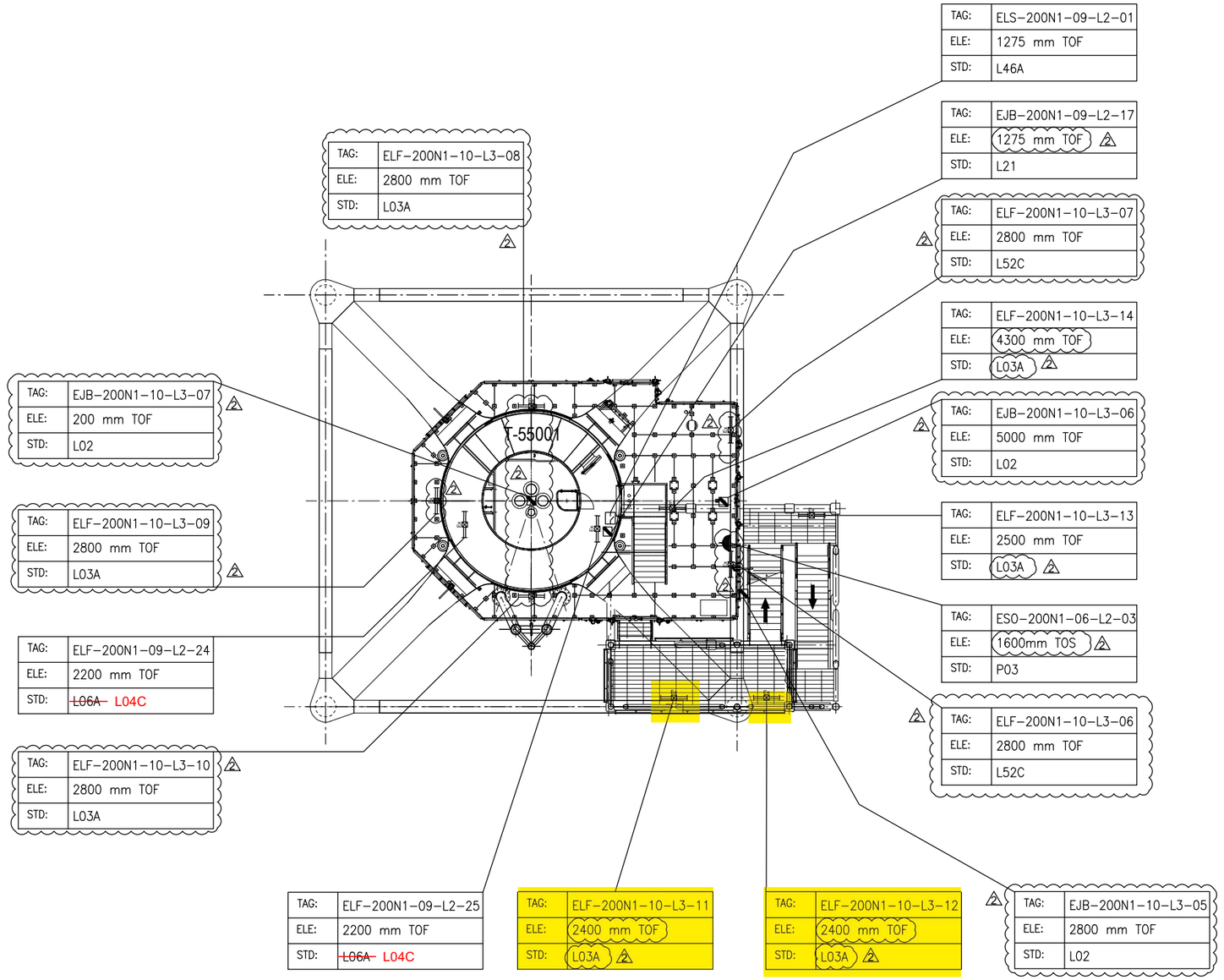
TYPE / SERIAL N° :	VOLCRAFT 1000V - ET-200 S/N:H240103023	TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207
Calibration certificate N° and date:	N°LAT 042 00768/24 _ 12/10/2024	Calibration certificate N° and date:	N°7722/24 _ 10/07/2024

Comments:

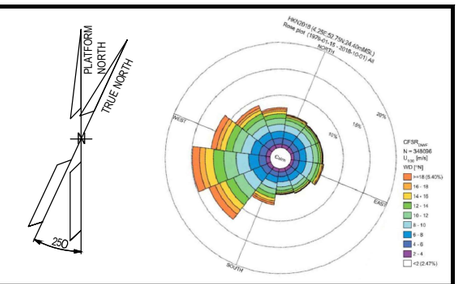
	Performed by	☉ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	VIP	RM(ROSETTI MARINO)	
Name	Madhankumar Arunagiri	Giovanni Tangianu	
Date	2025-04-18	2025-04-29	
Signature	PROVERLIS Digitaly signed by Madhankumar Arunagiri 2025-04-18T06:21:49.614Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2025-04-29T12:38:15.921Z	

DRAWING NO. 123A90-DDL-EL-DL-20120

REV. 02



PLAN ON EXISTING PLATFORM AT EL.+16.860 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S / T.O.F.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. ELEVATION OR STANDARD PRESENT IN THE MASK, WHERE JB AND FIXTURE ARE SHOWN, ARE RELATIVE TO THE ORDER OF THE TAGS, 1°ROW JB AND 2°ROW FIXTURE = ELEVATION JB / ELEVATION FIXTURE.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- SMALL POWER SOCKET WITH INTEGRATED JB
- LOCAL SWITCH IP66 TYPE

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

T.O.S TOP OF STEEL
T.O.F TOP OF FOOTING (Walkway plan)

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20120**

REV.:	DATE:	SIGNATURE:
2_B	27/01/25	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-EL-DL-20102	ELECTRICAL EQUIPMENT LAYOUT - TRANSITION PIECE
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-PP-DL-70070	BASE LOAD POWER HUB (BLPH) - PLOT PLAN - LOWER AND UPPER DECK
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
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	04/06/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

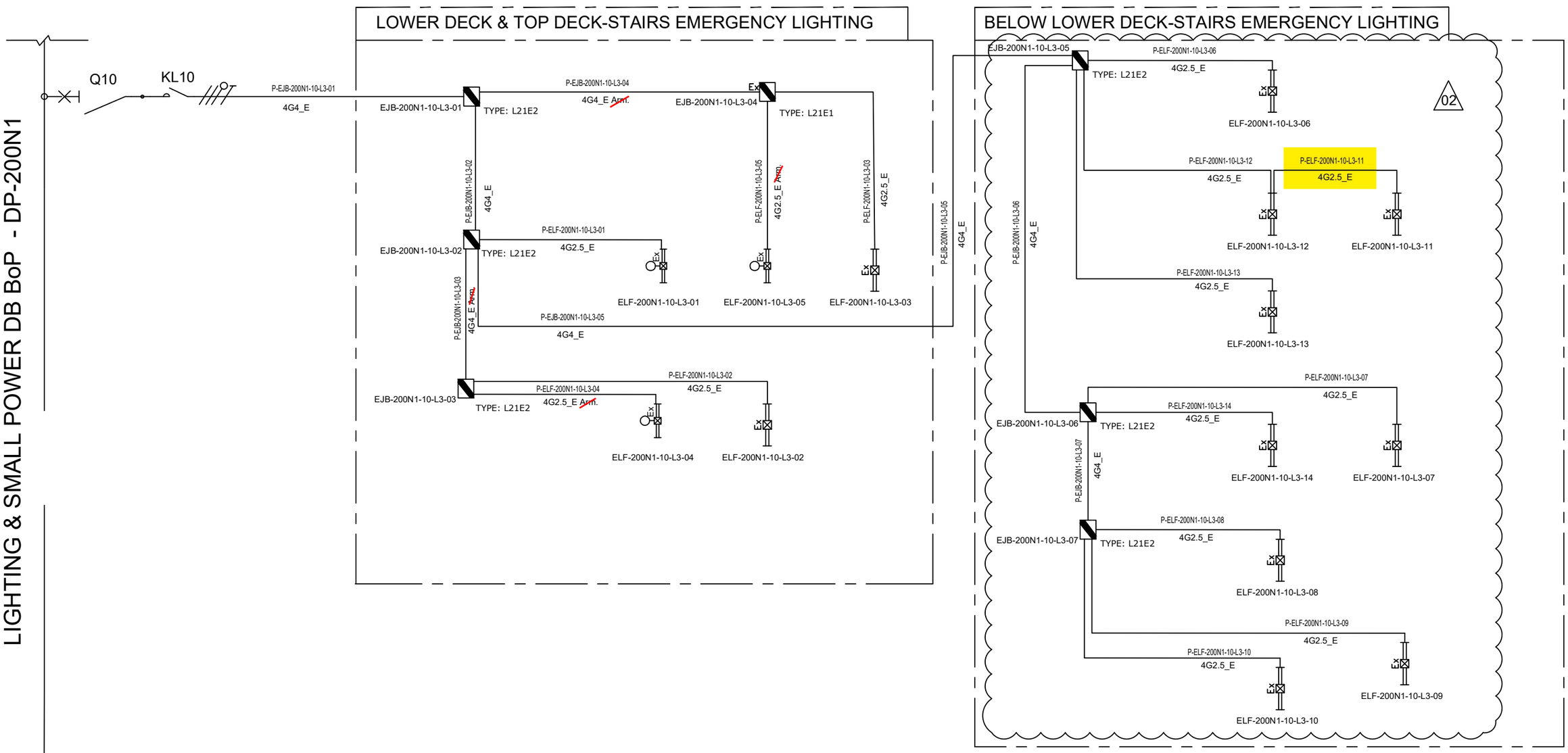
ROSETTI MARINO

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

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:100
DRAWN AMA	CHECKED CGI	APPROVED DLO	DATE 07/10/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20120	SHEET 001	REV. 02

File Name : 123A90-DDL-EL-DL-20120

LIGHTING & SMALL POWER DB BoP - DP-200N1



NOTE:	
ELF-200N1-10-L3-01	LOWER DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-02	
ELF-200N1-10-L3-03	
ELF-200N1-10-L3-04	TOP DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-05	

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

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

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
			ELF-200N1-10-L3-09		
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
STAIRS EMERGENCY LIGHTING (LOWER DECK,TOP DECK AND BELOW LOWER DECK)

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

SCALE : NTS

A3

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

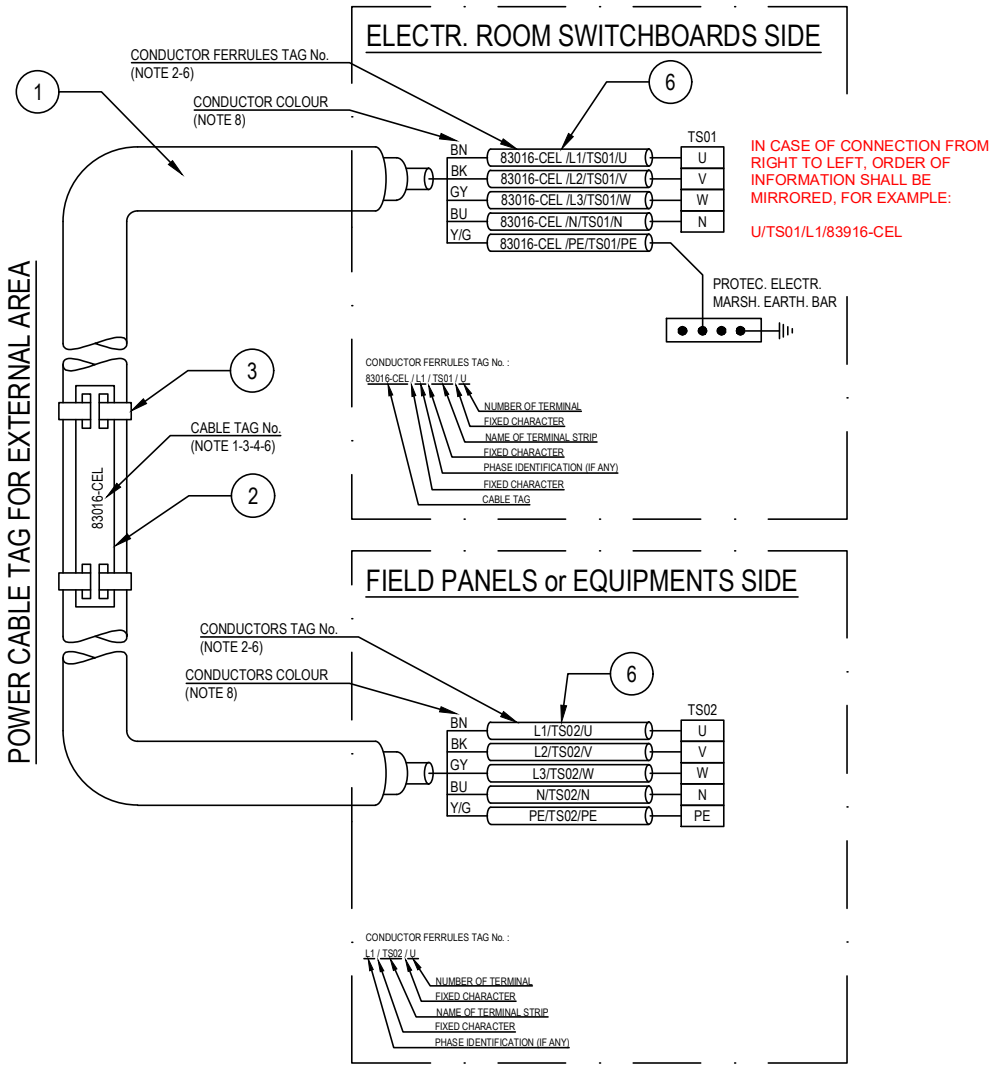
SHEET 007

REV. 02

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

F.to UNI A3: 420mmx297mm

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

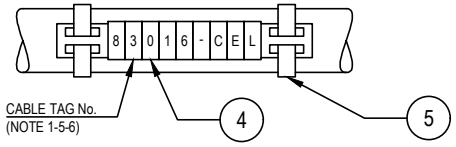
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

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

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

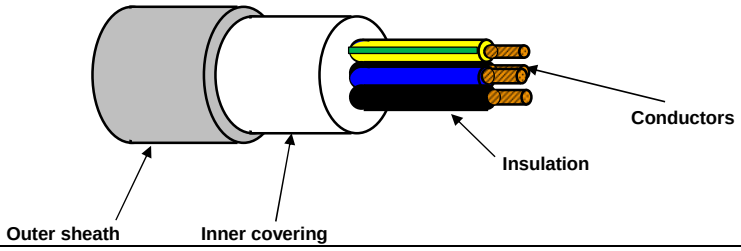
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-10-L3-11	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						ELF-200N1-10-L3-12	Emergency Lighting Fixture	Below Lower Deck Stairs		ELF-200N1-10-L3-11	Emergency Lighting Fixture	Below Lower Deck Stairs		ELECV12-4G2.5_E	Cable Cu Cl.2/EPR/LSZH 0.6/1kV 4G2.5mm²_E - Grey	M25	T1_M25_Single	M20	ADAP_M20Mx M25F	T1_M25_Single	M20	ADAP_M20Mx M25F		L-S0-100-LVT-016 / L-S0-100-LVT-017

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G2,5_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G2,5 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(14,0 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

All proprietary rights reserved according to law. This document shall be not reproduced without written permission. FLEI reserves the right to change characteristics and technical data of product shown at any time.

ITEM	Tag	P-ELF-200N1-10-L3-12	: Stair Emergency Lighting JB / Stair Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	TP
TASK	code	C10001819		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type: Cu Cl.2/EPR/LSZH | Cores/Size mm²: 4G2,5_E mm2 | Color: GREY

From: EJB-200N1-10-L3-05 | To: ELF-200N1-10-L3-12

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	OK
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	OK
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

REFER TO FINAL SHEET FOR ACCEPTANCE

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-ELF-200N1-10-L3-12	: Stair Emergency Lighting JB / Stair Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	TP
TASK	code	C10001819		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,4	
6		PH 2	0,4	
7		PH 3	0,4	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,4	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

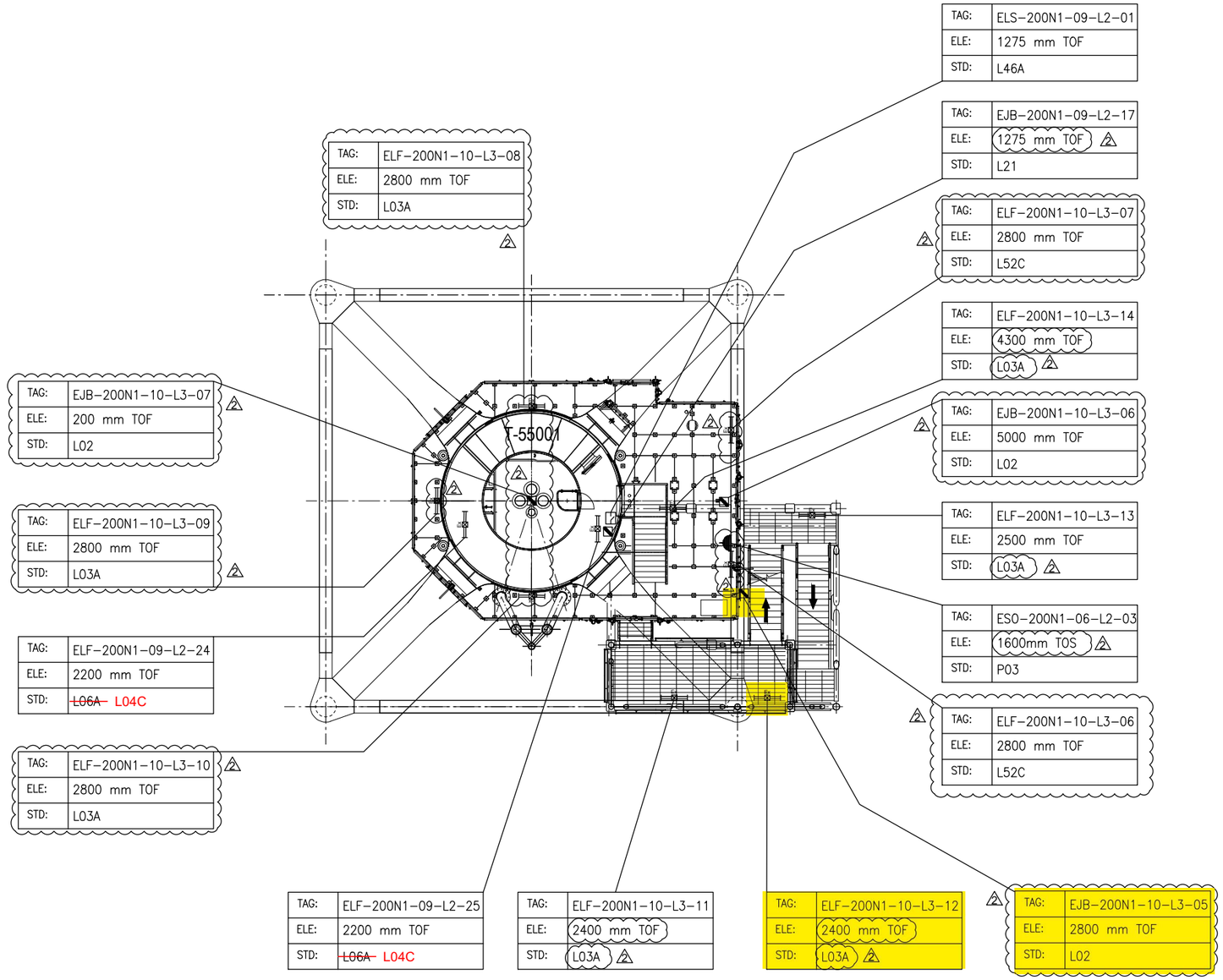
TYPE / SERIAL N° :	VOLCRAFT 1000V - ET-200 S/N:H240103023	TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207
Calibration certificate N° and date:	N°LAT 042 00768/24 _ 12/10/2024	Calibration certificate N° and date:	N°7722/24 _ 10/07/2024

Comments:

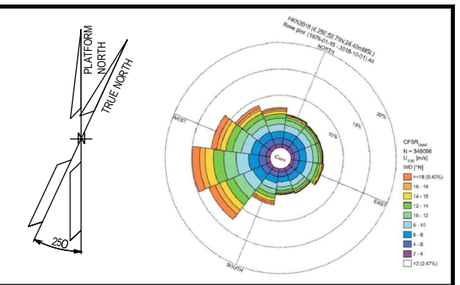
	Performed by	☉ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	VIP	RM(ROSETTI MARINO)	
Name	Madhankumar Arunagiri	Giovanni Tangianu	
Date	2025-04-18	2025-04-29	
Signature	PROVERLIS Digitaly signed by Madhankumar Arunagiri 2025-04-18T06:23:50.389Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2025-04-29T12:16:25.498Z	

DRAWING NO. 123A90-DDL-EL-DL-20120

REV. 02



PLAN ON EXISTING PLATFORM AT EL.+16.860 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S / T.O.F.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. ELEVATION OR STANDARD PRESENT IN THE MASK, WHERE JB AND FIXTURE ARE SHOWN, ARE RELATIVE TO THE ORDER OF THE TAGS, ⚠2 1°ROW JB AND 2°ROW FIXTURE = ELEVATION JB / ELEVATION FIXTURE.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- SMALL POWER SOCKET WITH INTEGRATED JB
- LOCAL SWITCH IP66 TYPE

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

T.O.S TOP OF STEEL
T.O.F TOP OF FOOTING (Walkway plan)

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20120**

REV.:	DATE:	SIGNATURE:
2_B	27/01/25	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-EL-DL-20102	ELECTRICAL EQUIPMENT LAYOUT - TRANSITION PIECE
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-PP-DL-70070	BASE LOAD POWER HUB (BLPH) - PLOT PLAN - LOWER AND UPPER DECK
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
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	04/06/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

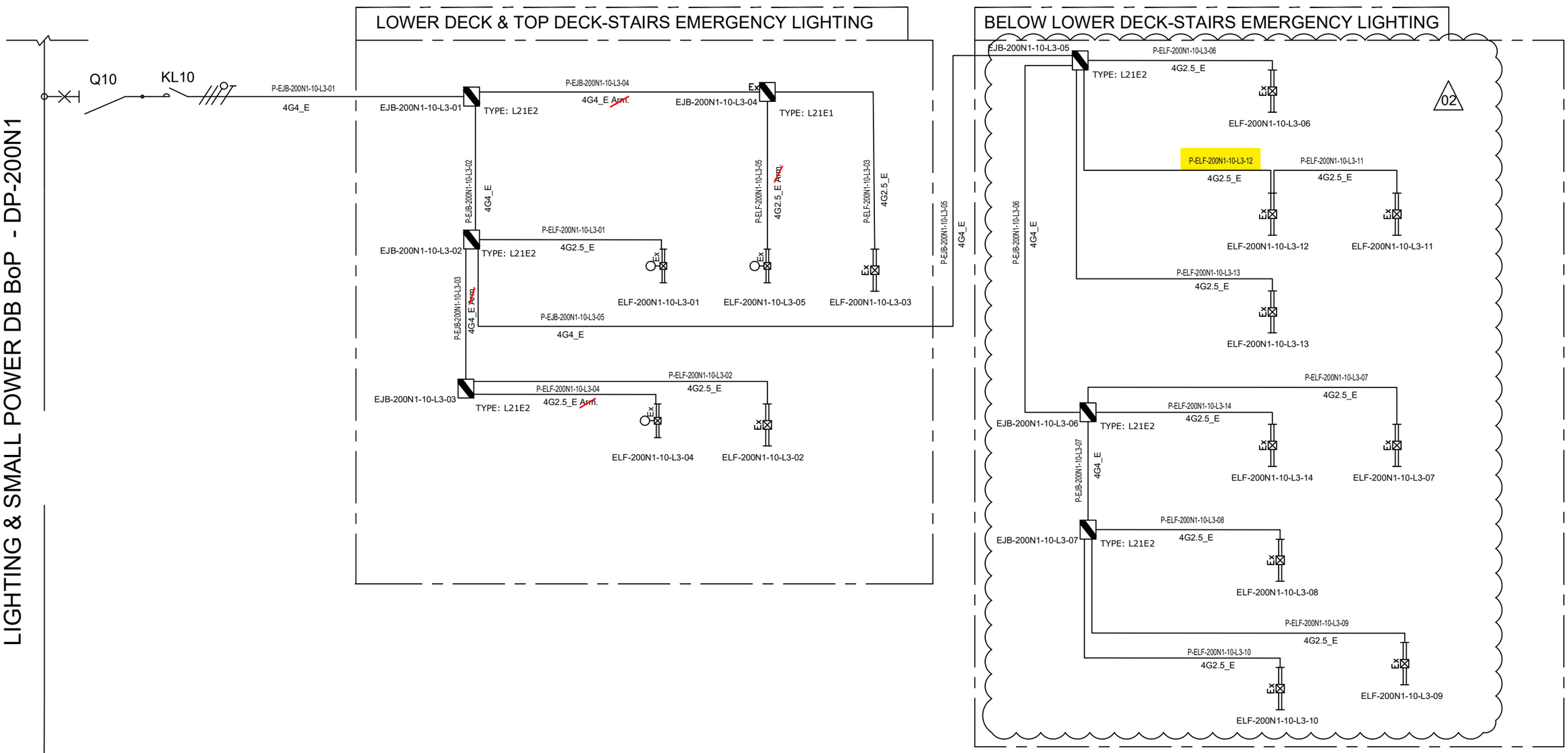
ROSETTI MARINO

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

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:100
DRAWN AMA	CHECKED CGI	APPROVED DLO	DATE 07/10/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20120	SHEET 001	REV. 02

File Name : 123A90-DDL-EL-DL-20120

LIGHTING & SMALL POWER DB BoP - DP-200N1



NOTE:	
ELF-200N1-10-L3-01	LOWER DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-02	
ELF-200N1-10-L3-03	
ELF-200N1-10-L3-04	TOP DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-05	

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

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

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
			ELF-200N1-10-L3-09		
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
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 EMERGENCY LIGHTING (LOWER DECK,TOP DECK AND BELOW LOWER DECK)

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

A3 | DRAWING NO. 123A90-DDL-EL-DG-20125 | SHEET 007 | REV. 02

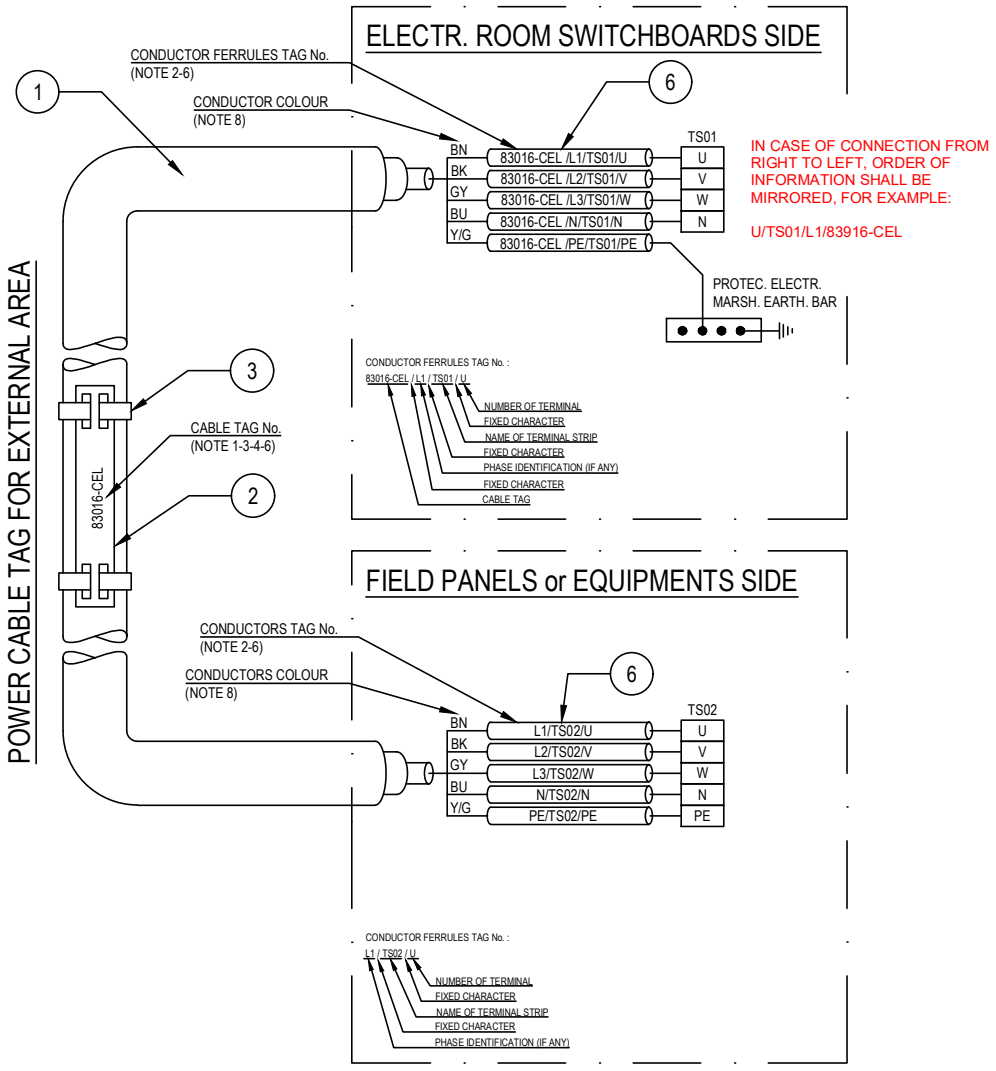
CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

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

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

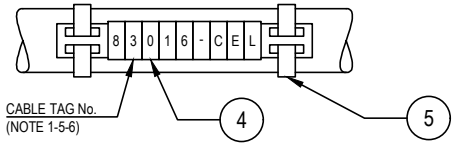
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

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

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

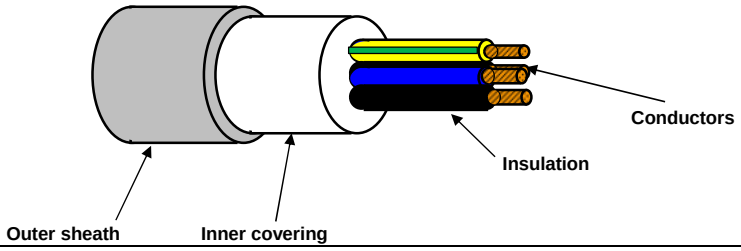
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-10-L3-12	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-10-L3-05	Emergency Lighting JB	Below Lower Deck Stairs		ELF-200N1-10-L3-12	Emergency Lighting Fixture	Below Lower Deck Stairs		ELECV12-4G2.5_E	Cable Cu Cl.2/EPR/LSZH 0.6/1kV 4G2.5mm²_E - Grey	M25	T1_M25_Single			T1_M25_Single	M20	ADAP_M20Mx M25F		L-150-100-LVT-007 / L-150-100-LVT-008 / L-50-100-LVT-015 / L-50-100-LVT-016

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G2,5_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G2,5 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(14,0 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-ELF-200N1-10-L3-13	: Stair Emergency Lighting JB / Stair Emergency Lighting Fixture		Dwg	123A90-DDL-EL-LIS-20148	
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece		Module	TP	
TASK	code	C10001820	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline Electrical	Form	CPX09	LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 4G2,5_E mm2 Color GREY

From EJB-200N1-10-L3-05 To ELF-200N1-10-L3-13

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	OK
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	OK
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	P-ELF-200N1-10-L3-13	: Stair Emergency Lighting JB / Stair Emergency Lighting Fixture		Dwg	123A90-DDL-EL-LIS-20148	
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece		Module	TP	
TASK	code	C10001820	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline Electrical	Form	CPX09	LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,4	
6		PH 2	0,4	
7		PH 3	0,4	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,4	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

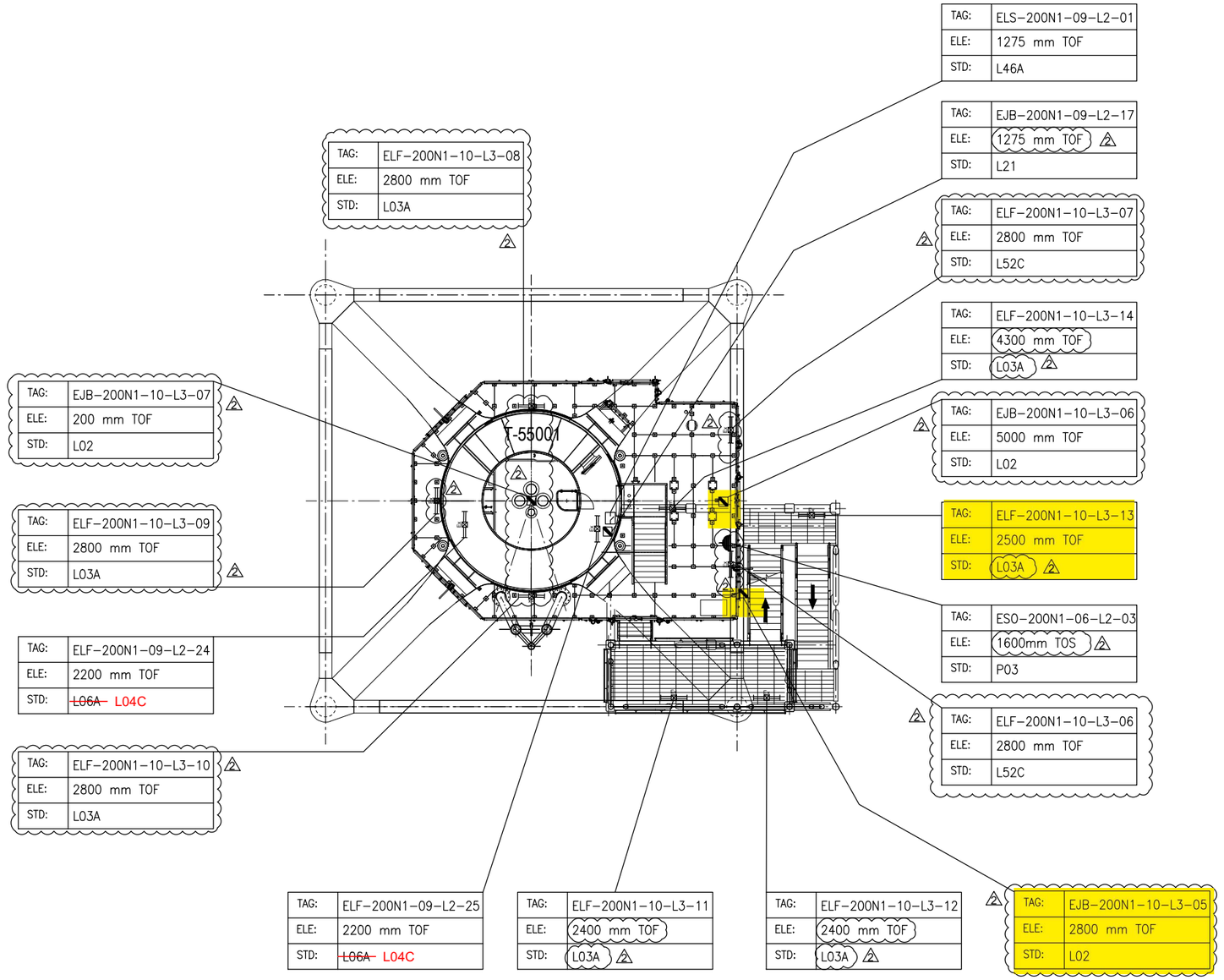
TYPE / SERIAL N° :	VOLCRAFT 1000V - ET-200 S/N:H240103023	TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207
Calibration certificate N° and date:	N°LAT 042 00768/24 _ 12/10/2024	Calibration certificate N° and date:	N°7722/24 _ 10/07/2024

Comments:

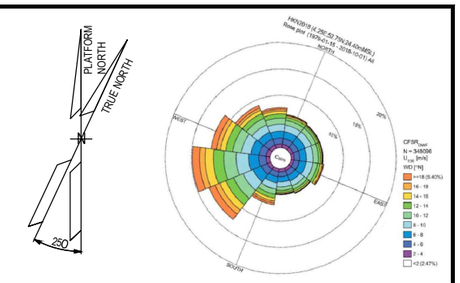
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	VIP	RM(ROSETTI MARINO)	
Name	Madhankumar Arunagiri	Giovanni Tangianu	
Date	2025-04-18	2025-04-30	
Signature	PROVERLIS Digitaly signed by Madhankumar Arunagiri 2025-04-18T06:25:00.653Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2025-04-30T08:56:30.069Z	

DRAWING NO. 123A90-DDL-EL-DL-20120

REV. 02



PLAN ON EXISTING PLATFORM AT EL.+16.860 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S / T.O.F.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. ELEVATION OR STANDARD PRESENT IN THE MASK, WHERE JB AND FIXTURE ARE SHOWN, ARE RELATIVE TO THE ORDER OF THE TAGS, 1°ROW JB AND 2°ROW FIXTURE = ELEVATION JB / ELEVATION FIXTURE.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- SMALL POWER SOCKET WITH INTEGRATED JB
- LOCAL SWITCH IP66 TYPE

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

T.O.S TOP OF STEEL
T.O.F TOP OF FOOTING (Walkway plan)

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20120**

REV.:	DATE:	SIGNATURE:
2_B	27/01/25	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-EL-DL-20102	ELECTRICAL EQUIPMENT LAYOUT - TRANSITION PIECE
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-PP-DL-70070	BASE LOAD POWER HUB (BLPH) - PLOT PLAN - LOWER AND UPPER DECK
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
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	04/06/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

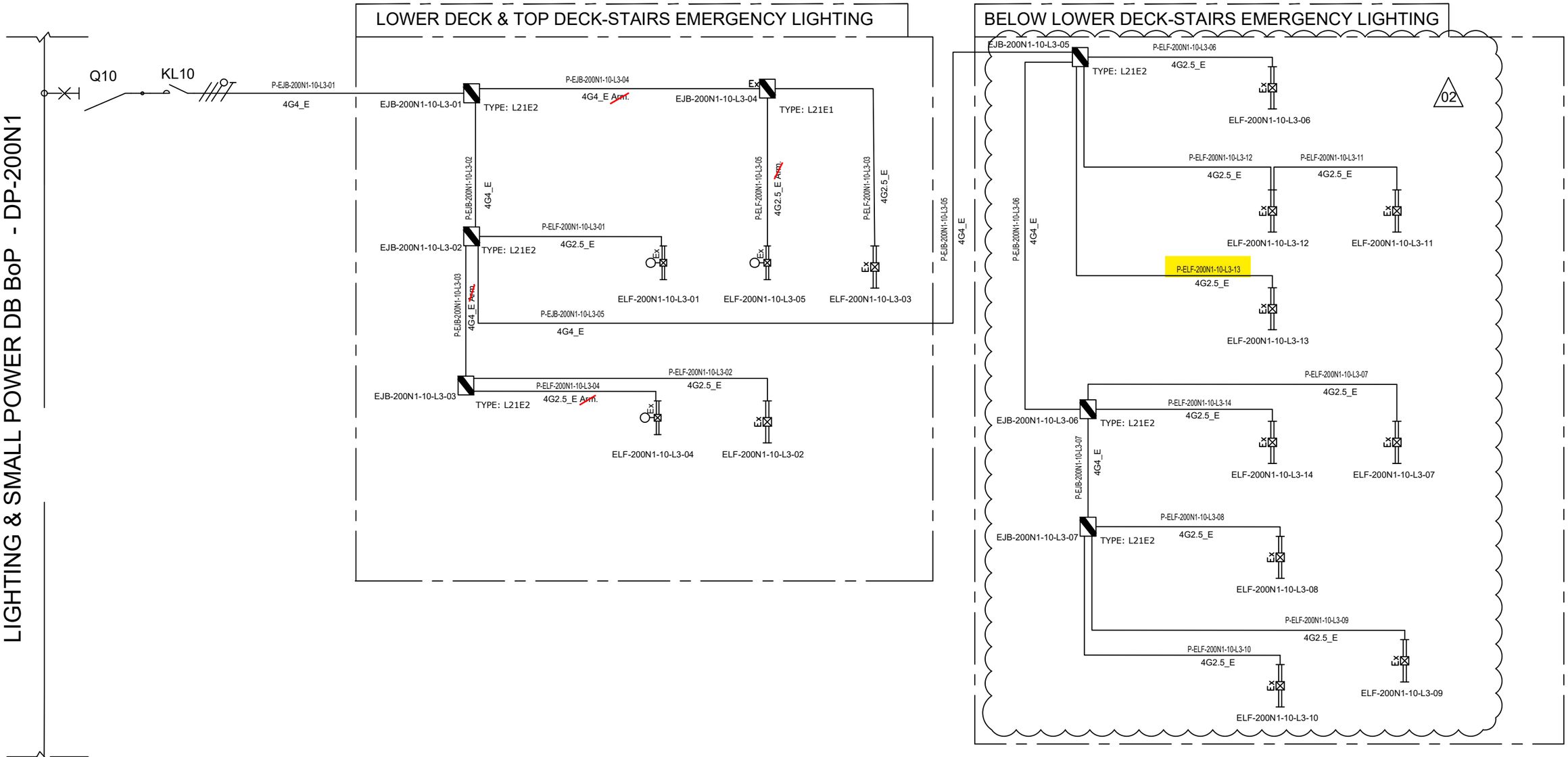
ROSETTI MARINO

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

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:100
DRAWN AMA	CHECKED CGI	APPROVED DLO	DATE 07/10/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20120	SHEET 001	REV. 02

File Name : 123A90-DDL-EL-DL-20120

LIGHTING & SMALL POWER DB BoP - DP-200N1



NOTE:	
ELF-200N1-10-L3-01	LOWER DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-02	
ELF-200N1-10-L3-03	
ELF-200N1-10-L3-04	TOP DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-05	

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

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

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
			ELF-200N1-10-L3-09		
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
STAIRS EMERGENCY LIGHTING (LOWER DECK,TOP DECK AND BELOW LOWER DECK)

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

SCALE : NTS

A3

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

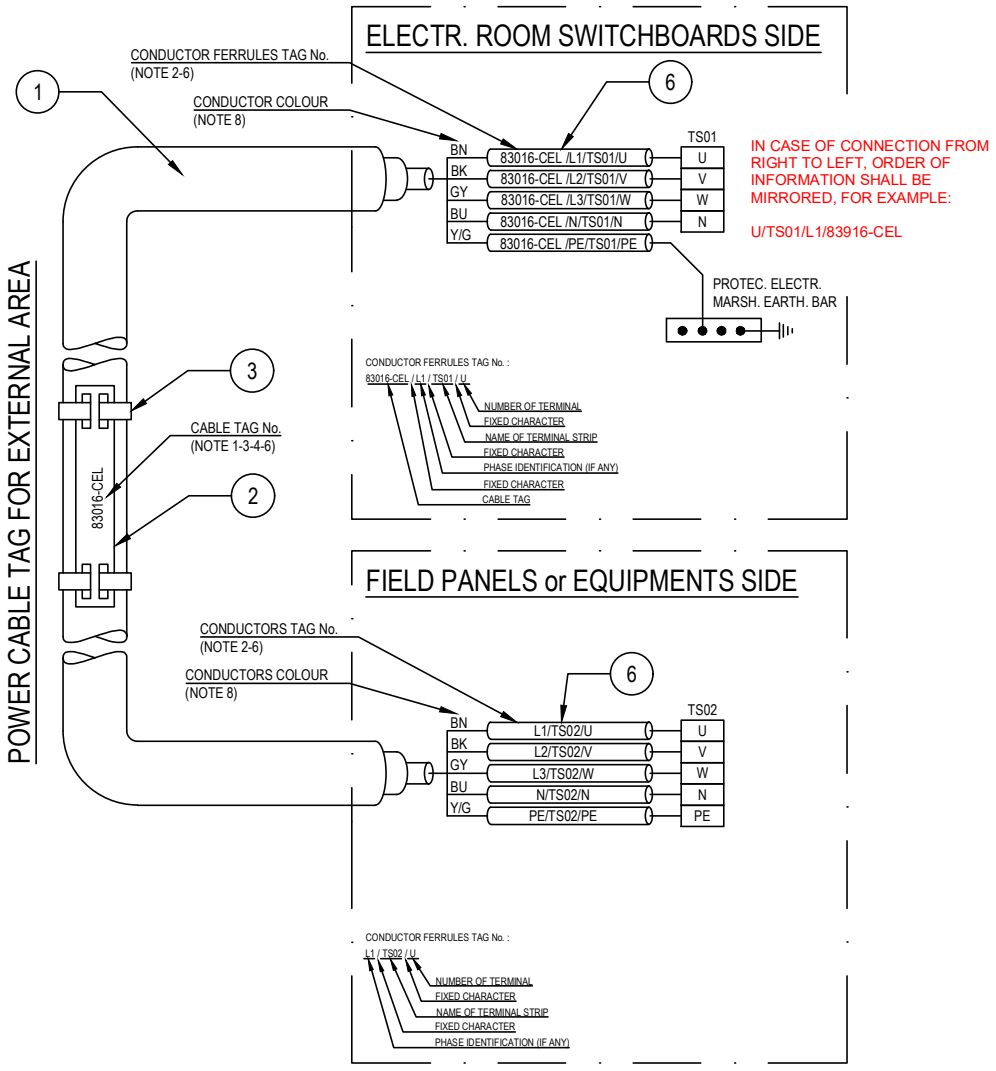
SHEET 007

REV. 02

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

F.to UNI A3: 420mmx297mm

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

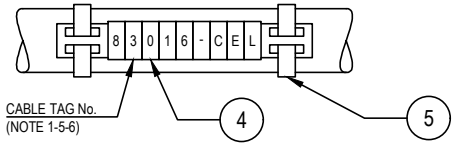
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

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

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

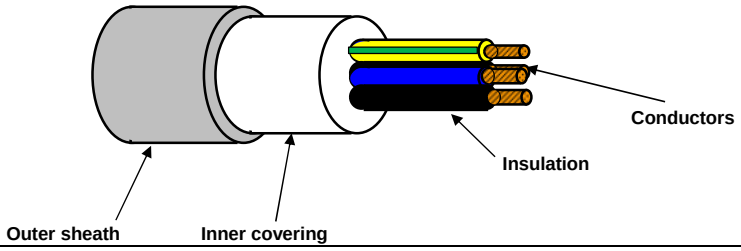
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-10-L3-13	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-10-L3-05	Emergency Lighting JB	Below Lower Deck Stairs		ELF-200N1-10-L3-13	Emergency Lighting Fixture	Below Lower Deck Stairs		ELECV12-4G2.5_E	Cable Cu Cl.2/EPR/LSZH 0.6/1kV 4G2.5mm²_E - Grey	M25	T1_M25_Single			T1_M25_Single	M20	ADAP_M20Mx M25F		L-150-100-LVT-007 / L-150-100-LVT-008 / L-300-101-LVT-080 / L-150-101-LVT-081 / L-50-101-LVT-135

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G2,5_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G2,5 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(14,0 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	EJB-200N1-10-L3-07	: JB - EMERGENCY LIGHTING			Dwg	123A90-DDL-EL-DL-20120
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	TP
TASK	code	C10001840		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX31 Junction and Marshalling Box

1	Check box is de-energized and safe.	OK
2	Check box is correctly mounted and easily accessible.	OK
3	Check box tagging against drawing.	OK
4	Check nameplate data is correct.	OK
5	Check flameproof joints are clean and greased with approved lubricants (if required).	NA
6	Check for damaging gaskets.	OK
7	Check all bolts are fitted and correcly tighted .	OK
8	Check all unused entries are suitably plugged.	OK
9	Check earthing and bonding against drawings.	OK
10	Check terminal blocks segregation barriers are fitted where necessary.	OK
11	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	VIP	RM(ROSETTI MARINO)	
Name	Madhankumar Arunagiri	Giovanni Tangianu	
Date	2025-04-18	2025-05-05	
Signature	PROVERLIS Digitaly signed by Madhankumar Arunagiri 2025-04-18T06:25:27.554Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2025-05-05T10:58:05.122Z	

DRAWING NO. 123A90-DDL-EL-DL-20120

REV. 02

TAG:	ELF-200N1-10-L3-08
ELE:	2800 mm TOF
STD:	L03A

TAG:	EJB-200N1-10-L3-07
ELE:	200 mm TOF
STD:	L02

TAG:	ELF-200N1-10-L3-09
ELE:	2800 mm TOF
STD:	L03A

TAG:	ELF-200N1-09-L2-24
ELE:	2200 mm TOF
STD:	~~L06A~~ L04C

TAG:	ELF-200N1-10-L3-10
ELE:	2800 mm TOF
STD:	L03A

TAG:	ELS-200N1-09-L2-01
ELE:	1275 mm TOF
STD:	L46A

TAG:	EJB-200N1-09-L2-17
ELE:	1275 mm TOF
STD:	L21

TAG:	ELF-200N1-10-L3-07
ELE:	2800 mm TOF
STD:	L52C

TAG:	ELF-200N1-10-L3-14
ELE:	4300 mm TOF
STD:	L03A

TAG:	EJB-200N1-10-L3-06
ELE:	5000 mm TOF
STD:	L02

TAG:	ELF-200N1-10-L3-13
ELE:	2500 mm TOF
STD:	L03A

TAG:	ESO-200N1-06-L2-03
ELE:	1600mm TOS
STD:	P03

TAG:	ELF-200N1-10-L3-06
ELE:	2800 mm TOF
STD:	L52C

TAG:	ELF-200N1-09-L2-25
ELE:	2200 mm TOF
STD:	~~L06A~~ L04C

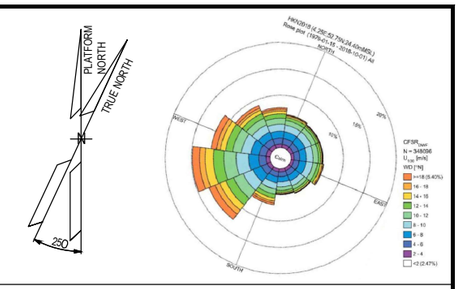
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ELE:	2400 mm TOF
STD:	L03A

TAG:	ELF-200N1-10-L3-12
ELE:	2400 mm TOF
STD:	L03A

TAG:	EJB-200N1-10-L3-05
ELE:	2800 mm TOF
STD:	L02

T-55001

PLAN ON EXISTING PLATFORM AT EL.+16.860 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S / T.O.F.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. ELEVATION OR STANDARD PRESENT IN THE MASK, WHERE JB AND FIXTURE ARE SHOWN, ARE RELATIVE TO THE ORDER OF THE TAGS, 1°ROW JB AND 2°ROW FIXTURE = ELEVATION JB / ELEVATION FIXTURE.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- SMALL POWER SOCKET WITH INTEGRATED JB
- LOCAL SWITCH IP66 TYPE

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

T.O.S TOP OF STEEL
T.O.F TOP OF FOOTING (Walkway plan)

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20120**

REV.:	DATE:	SIGNATURE:
2_B	27/01/25	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-EL-DL-20102	ELECTRICAL EQUIPMENT LAYOUT - TRANSITION PIECE
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-PP-DL-70070	BASE LOAD POWER HUB (BLPH) - PLOT PLAN - LOWER AND UPPER DECK
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
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	04/06/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

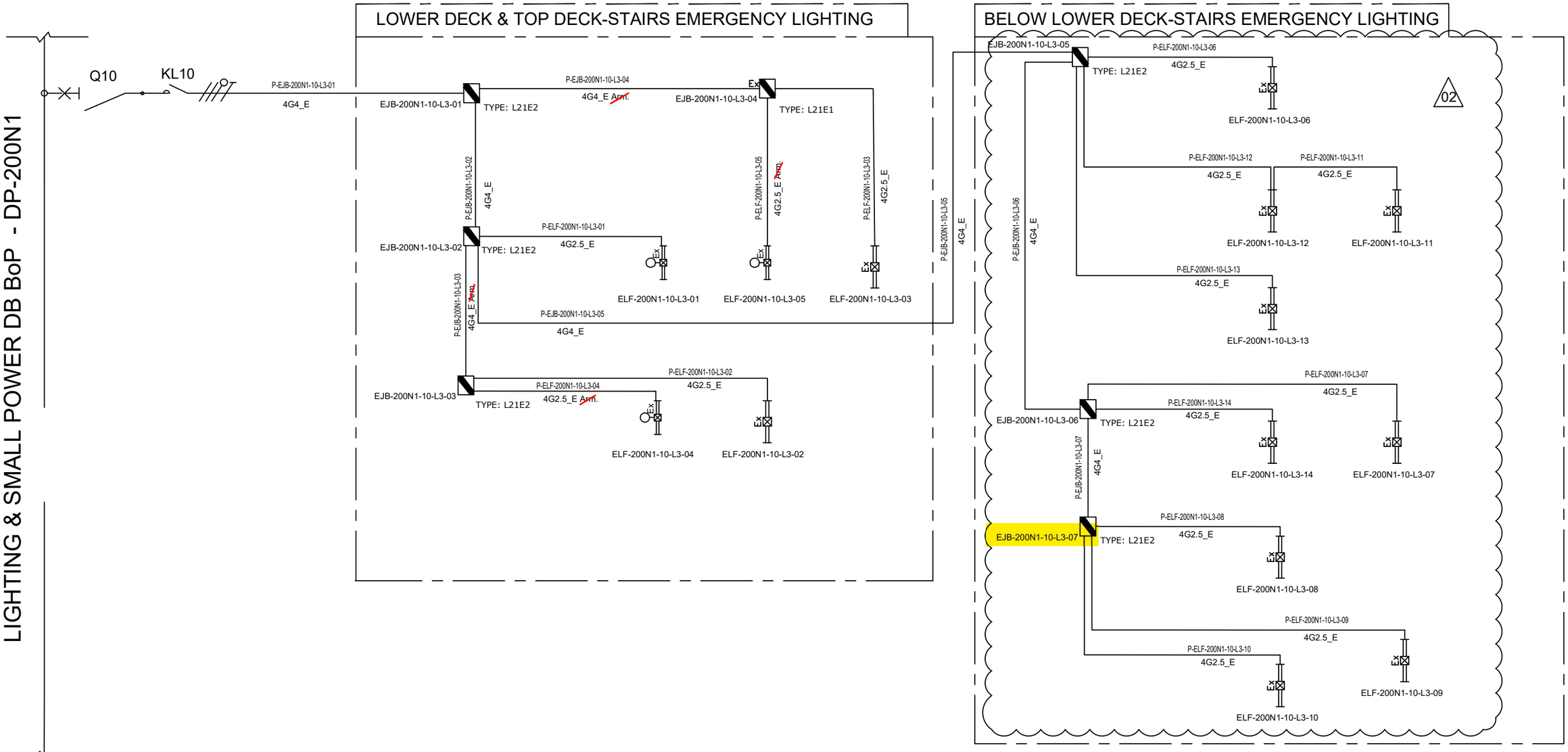
ROSETTI MARINO

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

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:100
DRAWN AMA	CHECKED CGI	APPROVED DLO	DATE 07/10/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20120	SHEET 001	REV. 02

File Name : 123A90-DDL-EL-DL-20120

LIGHTING & SMALL POWER DB BoP - DP-200N1



NOTE:	
ELF-200N1-10-L3-01	LOWER DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-02	
ELF-200N1-10-L3-03	
ELF-200N1-10-L3-04	TOP DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-05	

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

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

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
		ELF-200N1-10-L3-09			
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
STAIRS EMERGENCY LIGHTING (LOWER DECK,TOP DECK AND BELOW LOWER DECK)

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

SCALE : NTS

A3

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

SHEET 007

REV. 02

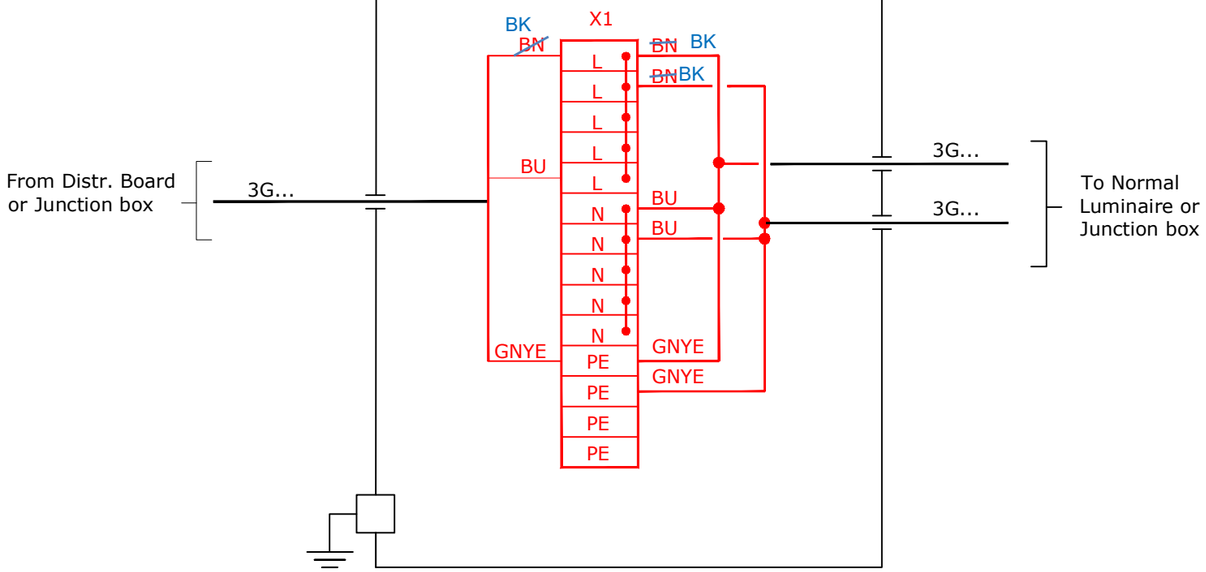
File Name : 123A90-DDL-EL-DG-20125

F.to UNI A3: 420mmx297mm

TYPE : L21N1 & L21N2

ITEM: NORMAL LIGHTING JUNCTION BOX

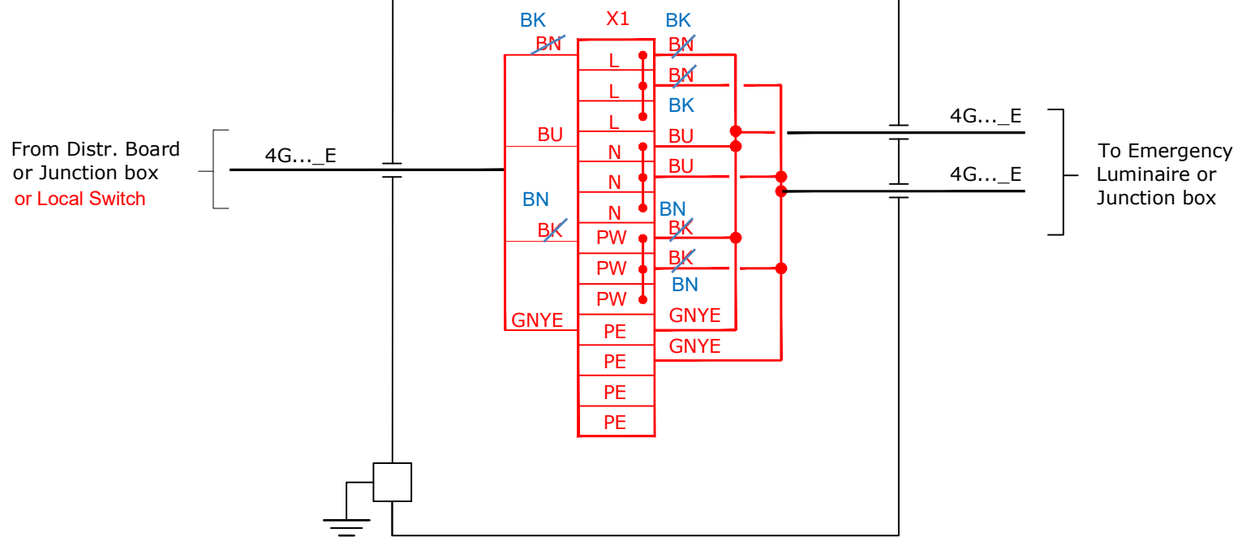
TAG : Typical



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. 123A90-DDL-EL-DG-20125

SHEET 016

REV. 01

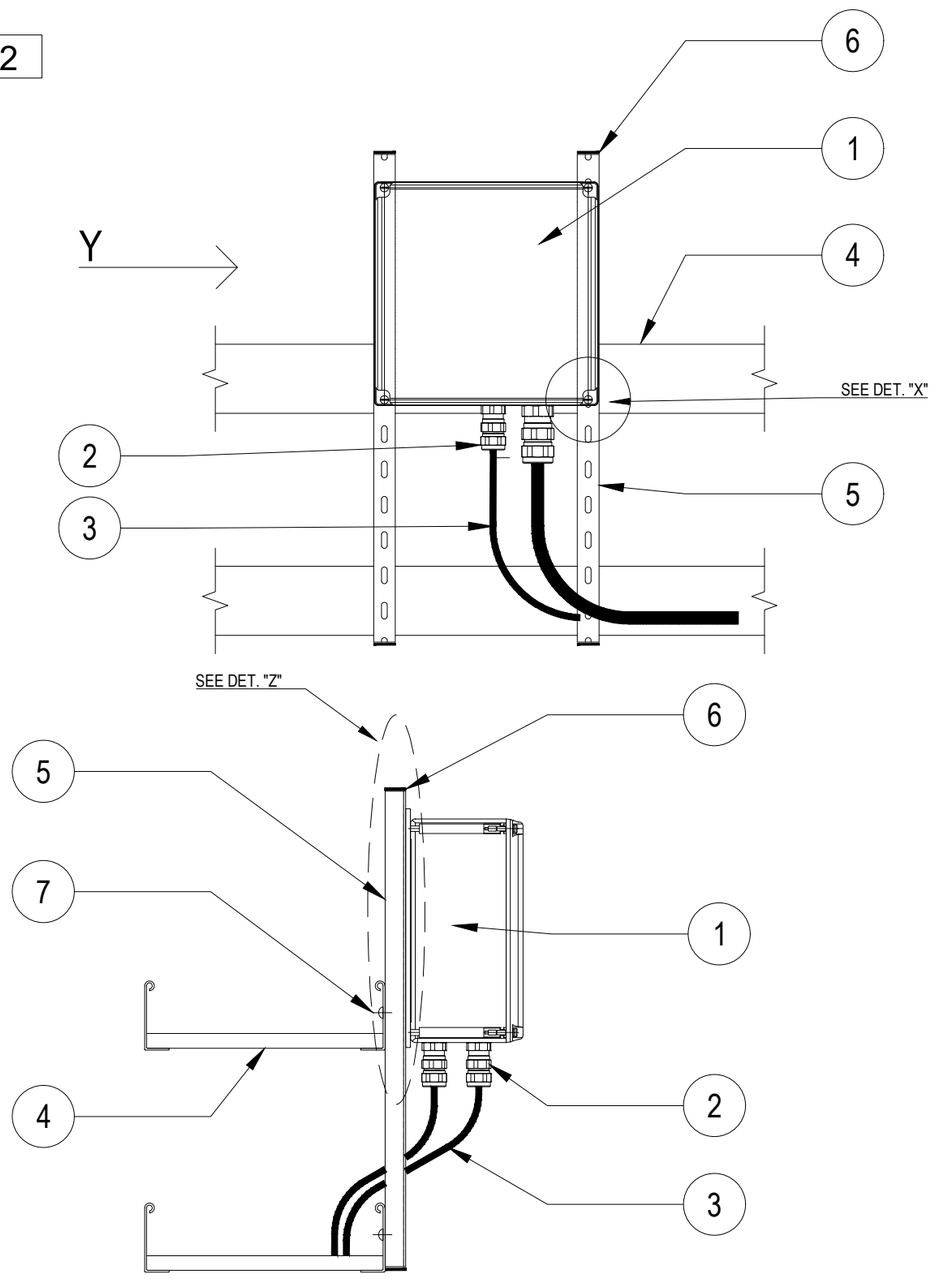
File Name : 123A90-DDL-EL-DG-20125

F.to UNI A3: 420mmx297mm

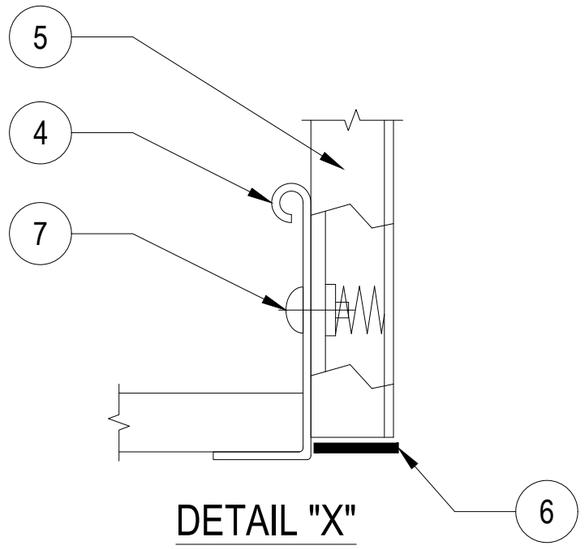
L02

02

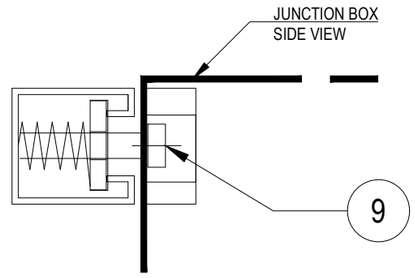
POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	JUNCTION BOX (Ex)	GRP			
2	CABLE GLAND FOR ARMOURED/UNARMOURED CABLE	NICK.PL.BRASS			NOTE 2
3	ARMOURED/UNARMOURED CABLE				
4	CABLE LADDER	AISI 316L			
5	SINGLE U-CHANNEL PERFORATED ON NO.3 SIDE	AISI 316L	41x41x2		NOTE 1
6	PLUG FOR U-CHANNEL	LPDE			
7	ROUND HEAD SCREW WITH SQUARE NECK AND NUT FOR U-CHANNEL WITH SPRING	AISI 316L	M6x20	4	
9	ALLEN KEY BOLT COMPLETE WITH PLANE WASHER, NUT FOR U-CHANNEL WITH SPRING	AISI 316L	M6x30		



VIEW "Y"



DETAIL "X"



DETAIL "Z"

NOTES:

1) THE EXACT DIMENSIONS WILL BE DEFINED DURING ASSEMBLY PHASE.

2) CABLE GLAND COMPLETE WITH LOCKNUT, NYLON WASHER, SERRATED WASHER, EXTERNAL RUBBER RING AND EARTH TAG (IF NECESSARY).

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING AND SOCKET JB MOUNTED ON CABLE LADDER

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

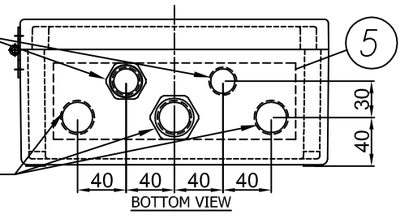
A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 004 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

(10)(4) N°2 PASSING HOLES Ø20.2
C/W N°1 BNK PLUG M20 +
N°1 DUSTPROOF PVC PLUG

(3)(3) N°3 PASSING HOLES Ø25.2
C/W N°1 BNK PLUG M25 +
N°2 DUSTPROOF PVC PLUG



BOTTOM VIEW

(8) I2400722-B015I00029809

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC
Via Italia 33 - 20060 Cassano (MI) ITALY

CE 0080 Ex II 2G II 2D
FIDI 21ATEX 0090X
IECEx FIDI 21.0015X
Year of construction:

MADE IN ITALY

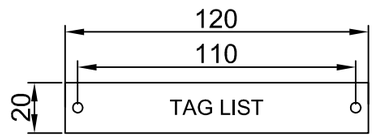
TYPE: AQ-252612P
230VAC 50Hz 20A
Max Dis. P. 6W

Ex eb IIC T6 Gb
Ex tb IIIC T85°C Db
IP66
T.amb. -20/+40°C
Serial Nr.

WARNINGS : DO NOT OPEN WHEN ENERGIZED

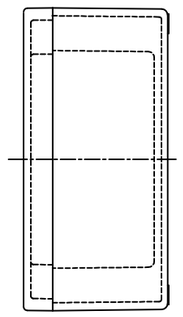
A002MAX

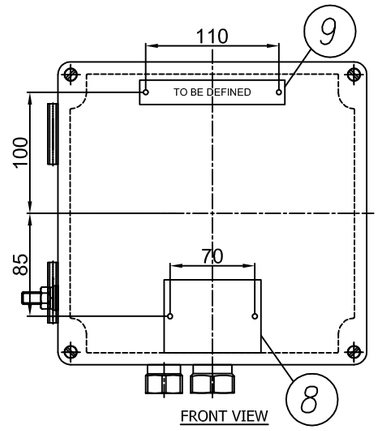
(9) PLATE DETAIL



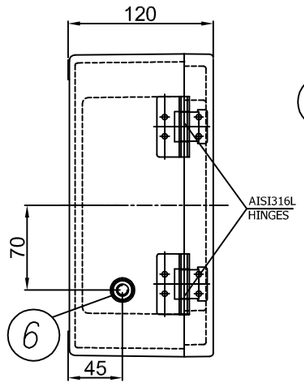
MATERIAL: LAMINATED PLASTIC
BACKGROUND: WHITE
LETTERS: BLACK

(7) Terminals numbered: NOTE 1

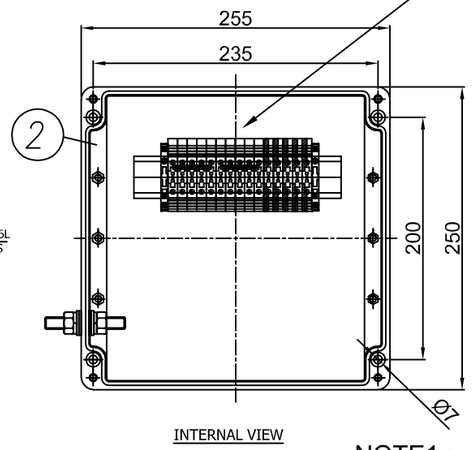

RIGHT VIEW



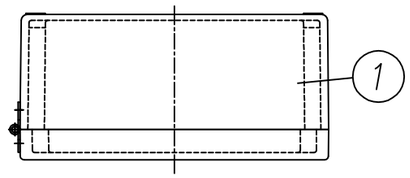
FRONT VIEW



LEFT VIEW



INTERNAL VIEW



TOP VIEW

NOTE1 :
- JB for Normal Lighting have terminals bridge: L-L-L-L-L, N-N-N-N-N, PE-PE-PE-PE-PE - JB for Emergency Lighting have terminals bridge: L-L-L, N-N-N, PW-PW-PW, PE-PE-PE-PE-PE

ITEM	DESCRIPTION	Pcs Q.TY	NOTE/MAT.	CODE	MANUFACTURER
11	DUSTPROOF PVC PLUG Ø25	2	–	.	TECHNOR ITALSMEA
10	DUSTPROOF PVC PLUG Ø20	1	–	.	TECHNOR ITALSMEA
9	LAMINATED PLASTIC TAG 120X20	1	–	.	TECHNOR ITALSMEA
8	AISI316L CERTIFICATE PLATE 80X60	1	–	.	TECHNOR ITALSMEA
7	BEIGE TERMINAL BLOCK SIZE 6 SQMM EARTH TERMINAL BLOCK SIZE 6 SQMM	10 5	WDU–6 WPE–6	.	WEIDMULLER
6	AISI316L INT/EXT EARTH BOLT M10	1	BTP–10	.	TECHNOR ITALSMEA
5	BRASS CONTINUITY PLATE THK. 0.8 MM	1	–	.	TECHNOR ITALSMEA
4	NICKEL PLATED BRASS PLUG M20	1	T20	.	TECHNOR ITALSMEA
3	NICKEL PLATED BRASS PLUG M25	1	T25	.	TECHNOR ITALSMEA
2	INTERNAL MOUNTING PLATE	1	PS–2526	.	TECHNOR ITALSMEA
1	GRP ENCLOSURE	1	AQ–252612P	.	TECHNOR ITALSMEA

-UNPAINTED (BLACK NATURAL)
Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti
TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
05	20/12/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting

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

A3 | DRAWING NO. 1724001481–EL–DA–00003 | SHEET 004 | REV. 05

F.to UNI A3: 420mmx297mm

File Name : 1724001481–EL–DA–00003 Rev. 01

ENCLOSURE N°	TAG LIST	NORMAL LIGHTING	EMERGENCY LIGHTING
1	EJB-200N1-03-L2-04	X	
2	EJB-200N1-03-L2-03	X	
3	EJB-200N1-03-L2-01	X	
4	EJB-200N1-03-L2-02	X	
5	EJB-200N1-03-L2-12	X	
6	EJB-200N1-03-L2-11	X	
7	EJB-200N1-03-L2-10	X	
8	EJB-200N1-03-L2-09	X	
9	EJB-200N1-03-L2-08	X	
10	EJB-200N1-03-L2-07	X	
11	EJB-200N1-03-L2-06	X	
12	EJB-200N1-03-L2-05	X	
13	EJB-200N1-03-L2-14	X	
14	EJB-200N1-03-L2-13		X
15	EJB-200N1-09-L2-17		X
16	EJB-200N1-09-L2-01		X
17	EJB-200N1-09-L2-04		X
18	SPARE (TO BE PROVIDED BLANK)		X
19	EJB-200N1-09-L2-02		X
20	EJB-200N1-09-L2-15		X
21	EJB-200N1-09-L2-14		X
22	EJB-200N1-09-L2-13		X
23	EJB-200N1-09-L2-12		X
24	EJB-200N1-09-L2-11		X
25	EJB-200N1-09-L2-10		X
26	EJB-200N1-09-L2-09		X
27	EJB-200N1-09-L2-08		X
28	EJB-200N1-09-L2-07		X
29	EJB-200N1-09-L2-06		X
30	EJB-200N1-09-L2-05		X
31	EJB-200N1-09-L2-16	X	
32	EJB-200N1-04-L3-01	X	
33	EJB-200N1-04-L3-02	X	
34	EJB-200N1-10-L3-05		X
35	EJB-200N1-10-L3-06		X
36	EJB-200N1-10-L3-07		X
37	EJB-200N1-10-L3-08		X
38	EJB-200N1-10-L3-09		X
39	EJB-200N1-10-L3-02		X
40	EJB-200N1-10-L3-01		X
41	EJB-200N1-10-L3-03		X
42	EJB-200N1-10-L3-04		X
43	EJB-200N1-02-L1-03	X	
44	EJB-200N1-02-L1-02	X	
45	EJB-200N1-02-L1-01	X	
46	SPARE (TO BE PROVIDED BLANK)	X	
47	EJB-200N1-02-L1-10	X	
48	EJB-200N1-02-L1-19	X	
49	EJB-200N1-02-L1-18	X	

ENCLOSURE N°	TAG LIST	NORMAL LIGHTING	EMERGENCY LIGHTING
50	EJB-200N1-02-L1-17	X	
51	EJB-200N1-02-L1-16	X	
52	EJB-200N1-02-L1-15	X	
53	EJB-200N1-02-L1-14	X	
54	EJB-200N1-02-L1-13	X	
55	EJB-200N1-02-L1-12	X	
56	EJB-200N1-02-L1-11	X	
57	EJB-200N1-02-L1-06	X	
58	EJB-200N1-02-L1-05	X	
59	EJB-200N1-02-L1-07	X	
60	EJB-200N1-02-L1-08	X	
61	EJB-200N1-02-L1-09	X	
62	EJB-200N1-08-L1-03		X
63	SPARE (TO BE PROVIDED BLANK)		X
64	EJB-200N1-08-L1-01		X
65	EJB-200N1-08-L1-04		X
66	EJB-200N1-08-L1-19		X
67	EJB-200N1-08-L1-18		X
68	EJB-200N1-08-L1-17		X
69	EJB-200N1-08-L1-16		X
70	EJB-200N1-08-L1-15		X
71	EJB-200N1-08-L1-14		X
72	EJB-200N1-02-L1-20	X	
73	EJB-200N1-08-L1-12		X
74	EJB-200N1-08-L1-11		X
75	EJB-200N1-08-L1-10		X
76	EJB-200N1-08-L1-20		X
77	EJB-200N1-08-L1-05		X
78	EJB-200N1-08-L1-06		X
79	EJB-200N1-08-L1-07		X
80	EJB-200N1-08-L1-09		X
81	EJB-200N1-08-L1-08		X
82	EJB-200F2-01	X	
83	EJB-200F2-02	X	
84	SPARE (TO BE PROVIDED BLANK)	X	
85	SPARE (TO BE PROVIDED BLANK)	X	
86	SPARE (TO BE PROVIDED BLANK)	X	
87	SPARE (TO BE PROVIDED BLANK)	X	
88	SPARE (TO BE PROVIDED BLANK)	X	
89	SPARE (TO BE PROVIDED BLANK)		X
90	SPARE (TO BE PROVIDED BLANK)		X
91	SPARE (TO BE PROVIDED BLANK)		X
92	SPARE (TO BE PROVIDED BLANK)		X

Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
05	20/12/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting–Tag List

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

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

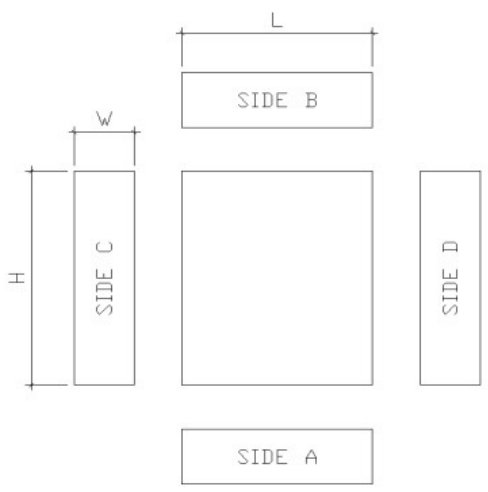
SHEET 005

REV. 05

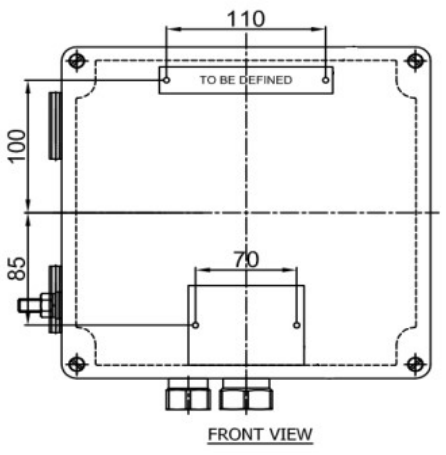
F.to UNI A3: 420mmx297mm

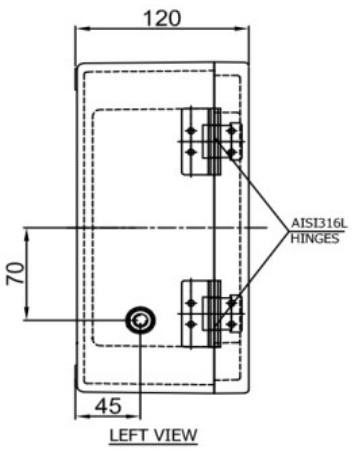
File Name : 1724001481-EL-DA-00003 Rev. 01

Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	Junction Box for Normal & Emergency Lighting				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by Vendor	AQ-252612P		01
4	Serial Number	by Vendor	B011041010004		01
5	Quantity	40+4(Spare)		(39+5 Spare)	01
6	Application	Lighting pole JB/Lighting JB			00
7	**Installation area**				
8	Indoor/Outdoor	Outdoor			00
9	Safe Area/Hazardous Area	Safe area			00
10	Zone 1/Zone 2	NA			00
11	Temp. Class	NA	Ex eb IIC, T6 Gb		01
12	**Electrical input data**				
13	Voltage	230 V ac	230 V ac		00
14	Number of Phases	1ph + N + PE			00
15	**Material**				
16	Body	GRP	GRP		01
17	Execution	Normal	Ex eb	Will be used ATEX even in safe area	01
18	Protection Degree	IP56	IP 66		01
19	**Accessories**				
20	Hinged Cover	Required	AISI316L Hinges		01
21	Gasket	Required			00
22	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
23	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
24	Internal Ground Bar	Required		connected to earth stud	00
25	Earth Stud	Required			00
26	Drainage Valve	Required			00
27	Pad lockable Cover	Required			00
28	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
29	**Side 'A'**				
30	Hubs Qty.	5	5		01
31	Size	No.3 M25, No.2 M20	No.3 Ø 25.2 mm, No.2 Ø 20.2 mm		01
32	Thread	ISO-M			00
33	Plug	No. 1 M20, No.1 M25	No. 1 Ø 20.2 mm, No.1 Ø 25.2 mm	nickel-plated brass	01
34	**Side 'B'**				
35	Hubs Qty.	Not Required			00
36	Size	NA			00
37	Thread	NA			00
38	**Side 'C'**				
39	Hubs Qty.	Not Required			00
40	Size	NA			00
41	Thread	NA			00
42	**Side 'D'**				
43	Hubs Qty.	Not Required			00
44	Size	NA			
45	Thread	NA			
46	**Terminals**				
47	Size [mm^2]	Suitable for 6 Sq.mm & 2.5 Sq.mm Cable	M25 & M20	suitable with wire-end ferrules DIN 46228	01
48	Qty.	n°5 for Ph // n°5 for N // n°5 for PE	n°5 for Ph // n°5 for N // n°5 for PE	jumpered	01
49	**Bonding Cable (yellow/Green)**				
50	Size [mm^2]	by vendor		6 mm^2	01
51	Qty.	Min. 0.15m			00
52	**Dimension**				
53	Height 'H' [mm]	by vendor	120 mm		01
54	Width 'W' [mm]	by vendor	250 mm		01
55	Length 'L' [mm]	by vendor	255 mm		01
56	Weight [Kg]	by vendor	2.65 Kg		01
57	JB Code (*)	Remarks			
58					



NOTES:
(*) Filled by Vendor





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ITEM	Tag	ELF-200N1-10-L3-11	: Emergency Lighting Fixture			Dwg	123A90-DDL-EL-DL-20120
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	TP
TASK	code	C10001843		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

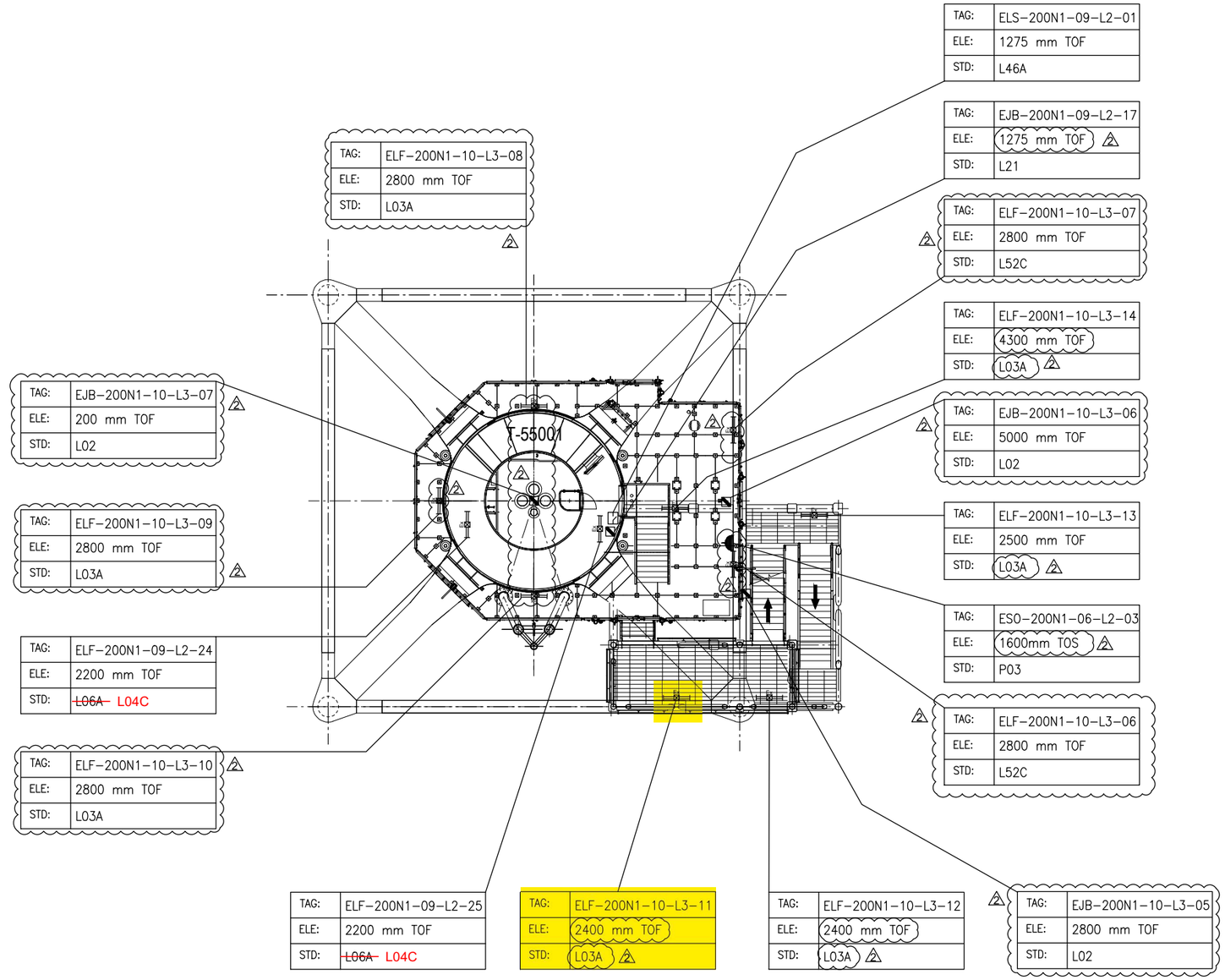
1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	OK
3	Check equipment is undamaged and correcly tagged.	PL
4	Check nameplate data is correct.	OK
5	Check all bolts are fitted and all unused entries are suitably plugged.	OK
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	OK
8	Check items are properly fixed on support.	OK
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

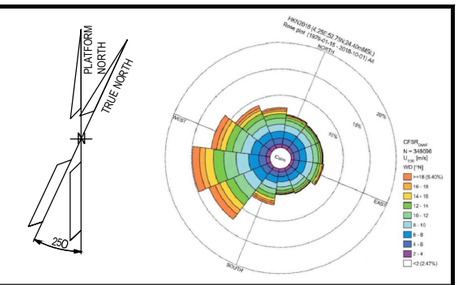
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	VIP	RM(ROSETTI MARINO)	
Name	Madhankumar Arunagiri	Giovanni Tangianu	
Date	2025-04-18	2025-04-29	
Signature	PROVERLIS Digitaly signed by Madhankumar Arunagiri 2025-04-18T06:29:51.290Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2025-04-29T12:36:33.192Z	

DRAWING NO. 123A90-DDL-EL-DL-20120

REV. 02



PLAN ON EXISTING PLATFORM AT EL.+16.860 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S / T.O.F.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. ELEVATION OR STANDARD PRESENT IN THE MASK, WHERE JB AND FIXTURE ARE SHOWN, ARE RELATIVE TO THE ORDER OF THE TAGS, 1°ROW JB AND 2°ROW FIXTURE = ELEVATION JB / ELEVATION FIXTURE.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- SMALL POWER SOCKET WITH INTEGRATED JB
- LOCAL SWITCH IP66 TYPE

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

T.O.S TOP OF STEEL
T.O.F TOP OF FOOTING (Walkway plan)

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20120**

REV.:	DATE:	SIGNATURE:
2_B	27/01/25	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-EL-DL-20102	ELECTRICAL EQUIPMENT LAYOUT - TRANSITION PIECE
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-PP-DL-70070	BASE LOAD POWER HUB (BLPH) - PLOT PLAN - LOWER AND UPPER DECK
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
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	04/06/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

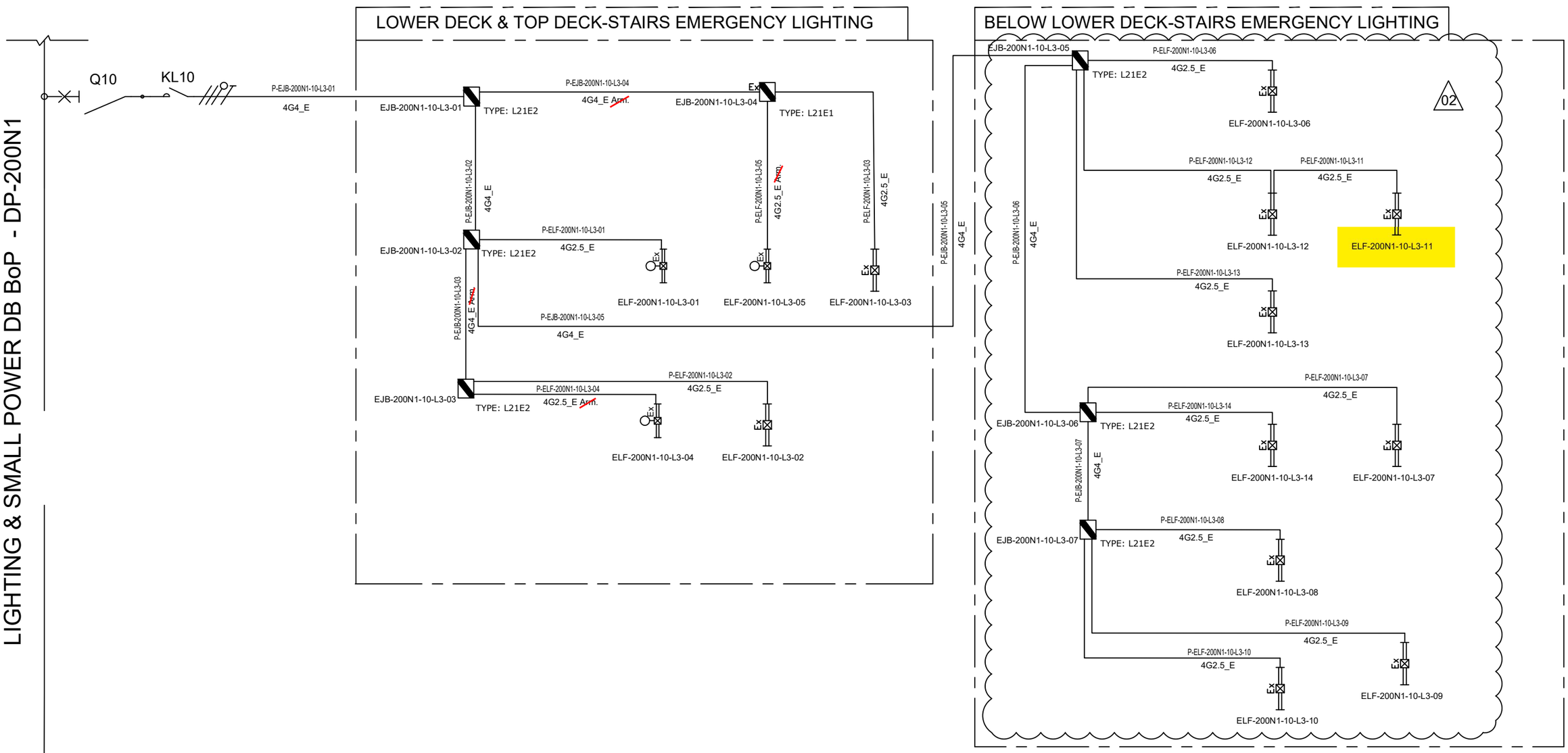
ROSETTI MARINO

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

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:100
DRAWN AMA	CHECKED CGI	APPROVED DLO	DATE 07/10/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20120	SHEET 001	REV. 02

File Name : 123A90-DDL-EL-DL-20120

LIGHTING & SMALL POWER DB BoP - DP-200N1



NOTE:	
ELF-200N1-10-L3-01	LOWER DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-02	
ELF-200N1-10-L3-03	
ELF-200N1-10-L3-04	TOP DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-05	

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

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

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
			ELF-200N1-10-L3-09		
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
STAIRS EMERGENCY LIGHTING (LOWER DECK,TOP DECK AND BELOW LOWER DECK)

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

SCALE : NTS

A3

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

SHEET 007

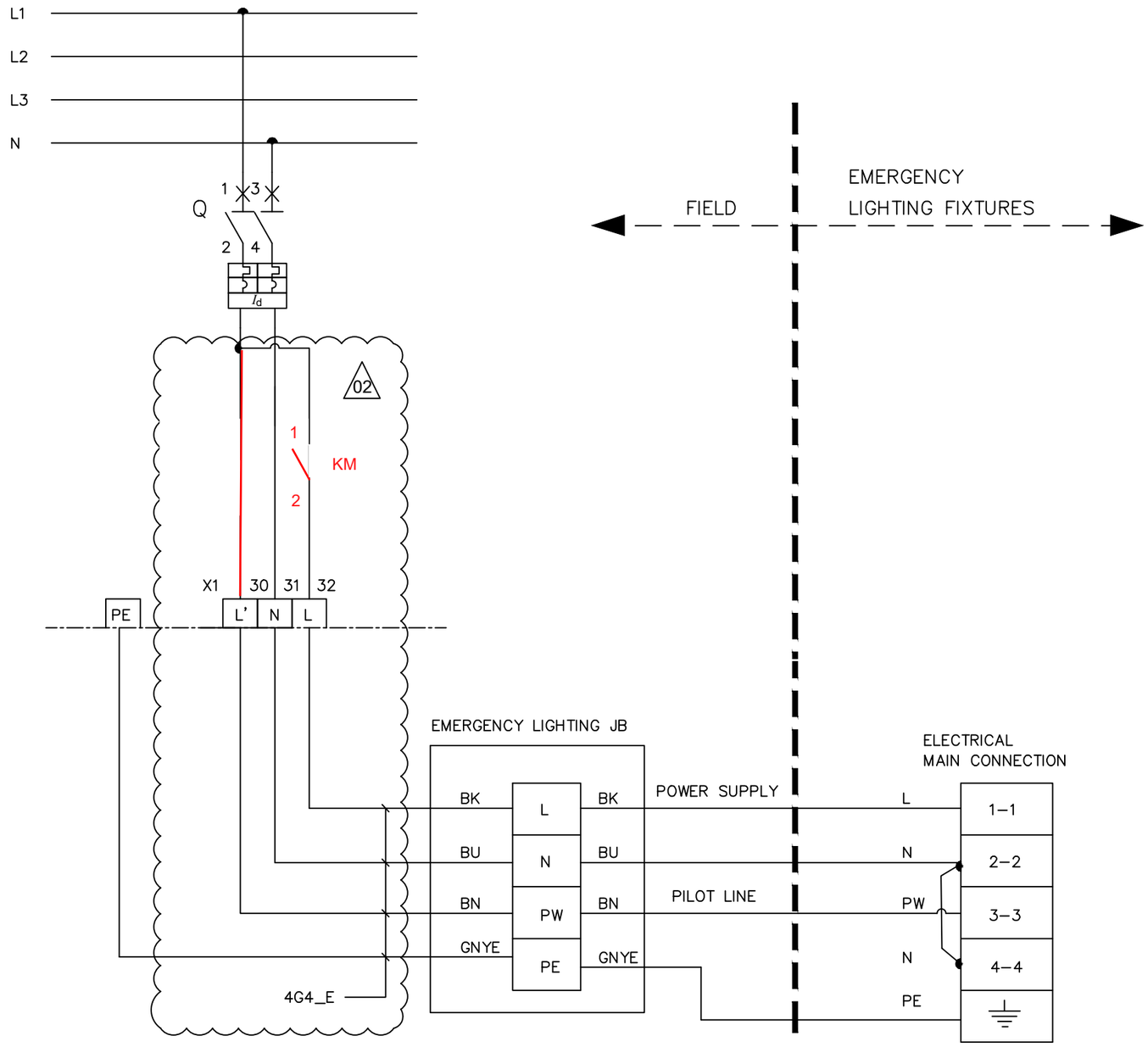
REV. 02

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

F.to UNI A3: 420mmx297mm

EMERGENCY LIGHTS WIRING DIAGRAM

DP–200N1
FOR EMERGENCY LIGHTING
INTERNAL BUS BAR 400V–230V / 50Hz



L – POWER SUPPLY
N – NEUTRAL
PW – PILOT LINE
PE – PROTECTIVE EARTH
BN – BROWN (L')
BK – BLACK (L)
BU – BLUE (N)
GNYE – GREEN/YELLOW (PE)

02

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
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
EMERGENCY LIGHTS WIRING DIAGRAM

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

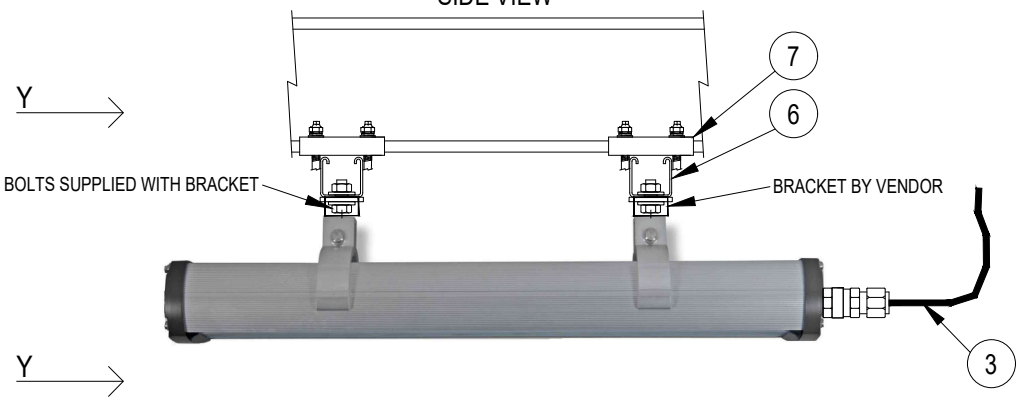
A3 | DRAWING NO. 123A90–DDL–EL–DG–20125 | SHEET 014 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

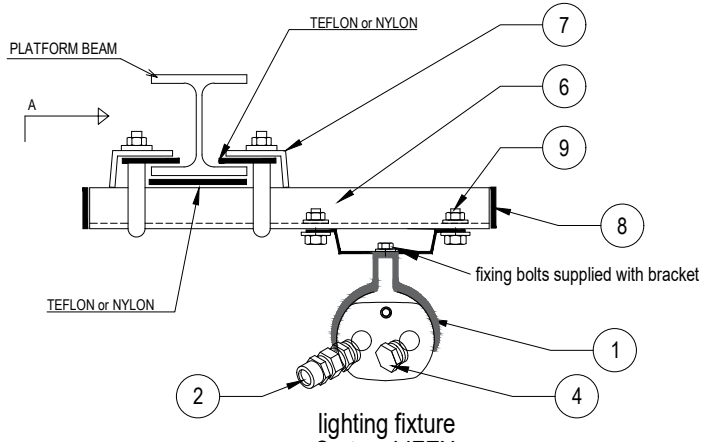
L03A

SIDE VIEW

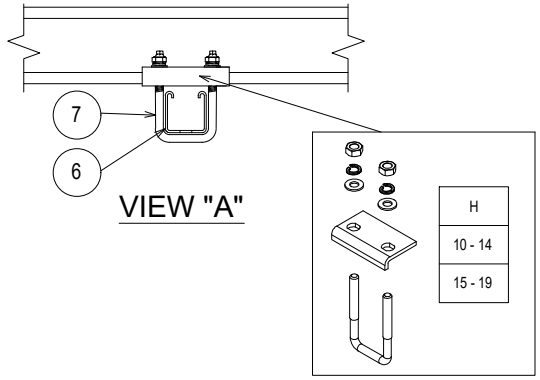


POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	LIGHITNG FIXTURE (Ex e) WITH LED LAMP	ALUMINIUM ALLOY		1	
2	CABLE GLAND (Ex) FOR ARMOURED/UNARMOURED CABLE	NICK.PL.BRASS		1	NOTE 2 NOTE 5
3	ARMOURED/UNARMOURED CABLE				NOTE 5
4	PLUG	NICK.PL.BRASS		AS REQ.	NOTE 3
6	SINGLE U-CHANNEL PERFORATED ON NO.3 SIDE	AISI 316L		AS REQ.	NOTE 1
7	SINGLE U-CHANNEL BEAM ATTACHMENT (10-14) OR (15-19) WITH COLLAR COMPLETE WITH HARDWARE	AISI 316L		4	NOTE 4
8	PLUG FOR U-CHANNEL	LPDE		4	
9	HEX. BOLT M8X16 WITH LARGE PLANE WASHER		M8x16	4	

SECTION "Y-Y"



lighting fixture
Cortem LIFEX



NOTES:

1) THE EXACT DIMENSIONS WILL BE DEFINED DURING ASSEMBLY PHASE.
2) CABLE GLAND COMPLETE WITH LOCKNUT, NYLON WASHER, SERRATED WASHER, EXTERNAL RUBBER RING AND EARTH TAG (IF NECESSARY).
3) UNUSED CABLE ENTRIES MUST BE CLOSED WITH NICKEL PLATED BRASS PLUG.
4) SINGLE U-CHANNEL BEAM ATTACHMENT (CLAMP) IS PRODUCED IN NO. 2 DIFFERENT SIZES (10-14 OR 15-19) SIZE REFERS TO THE THICKNESS OF THE BEAM WHERE THE CLAMP IS INSTALLED.
5) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–LIGHTING SYSTEM
FIXTURE SUSPENSION MOUNTED WITH CLAMPED SUPPORT

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

A3 | DRAWING NO. 123A90–DDL–EL–DD–20091 | SHEET 008 | REV. 02

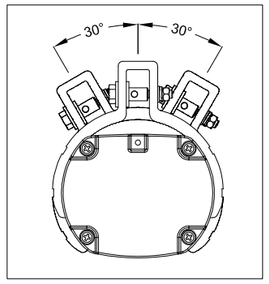
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 2
- Q.TY: 78
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

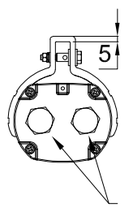
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



LF INFORMATION	
NOMINAL POWER	60W
CONSUMED POWER	40,9W
POWER FACTOR	>0,96
RATED CURRENT	185 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6218 lm
LIGHT INTENSITY	2191 cd
EFFICIENCY	152 lm/W
WEIGHT	3,5 Kg
IP PROTECTION	IP66
AUTONOMY	180 min
LUMEN EMERG. MODE	1168 lm

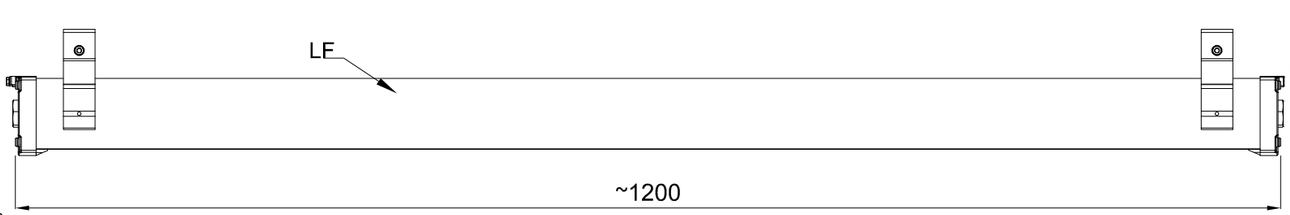
N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-1260N-BB	110-277Vac 50-60Hz 60W (RED. TO 40W) LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

LEFT SIDE (OUT)

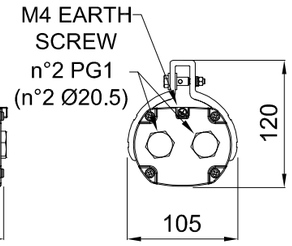


n°2 PG1
(n°2 Ø20.5)

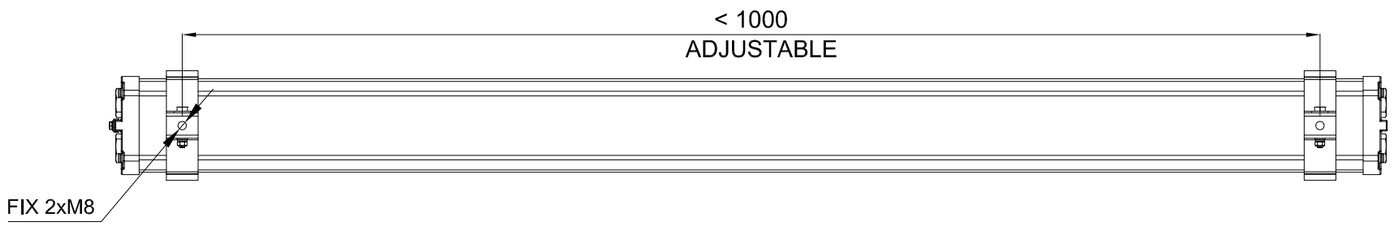
FRONT SIDE



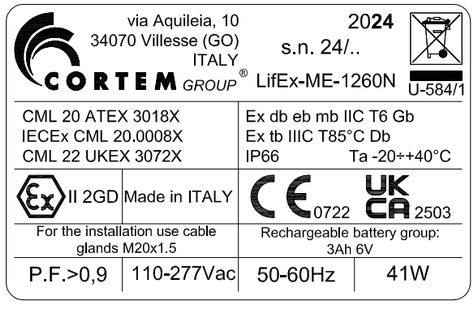
RIGHT SIDE (IN)



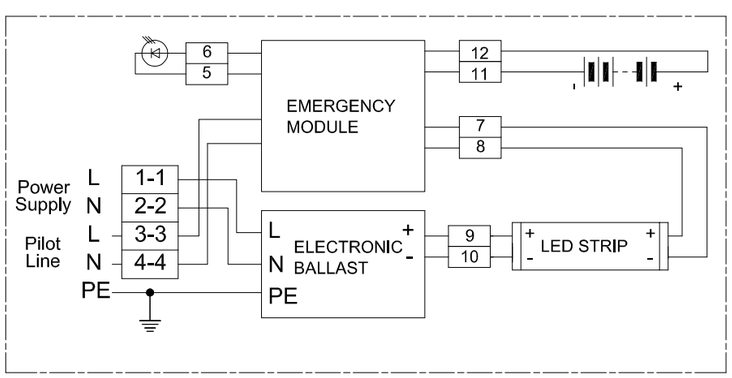
TOP SIDE



CERTIFICATE NAMEPLATE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
002 LIFEX-ME-1260N-BB/C2402693/20.

CORTEM JOB: COV2402693
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27521
SHEET 2 / TOT. 2
NEXT /

CORTEM GROUP
contem
FONDISONZO
ELFIT

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AND IT CANNOT BE REPRODUCED WITHOUT CORTEM'S
AUTHORIZATION

Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	45W LED Linear Luminaire-Emergency Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-1260N-BB		01
4	Serial Number	by vendor			00
5	Quantity	78 Nos.	78 Nos	(69+9 Spare)	01
6	Location / Module	Lower deck/Upper deck/ Below lower deck			00
7	**LED Lamp**				
8	Nominal power	45 watts	60 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Required			00
25	Battery type	NiCd internal battery, gas-tight	Ni/Mh		01
26	Autonomy	180 mins.	180 min		01
27	Emergency luminous flux	1168 lm	1168 lm		01
28	**Mechanical parameters**				
29	Dimension	by vendor	1200x105x120 (mm)		01
30	Weight	by vendor	4.5kg		01

Note:

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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ITEM	Tag	ELF-200N1-10-L3-12	: Emergency Lighting Fixture			Dwg	123A90-DDL-EL-DL-20120
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	TP
TASK	code	C10001844		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

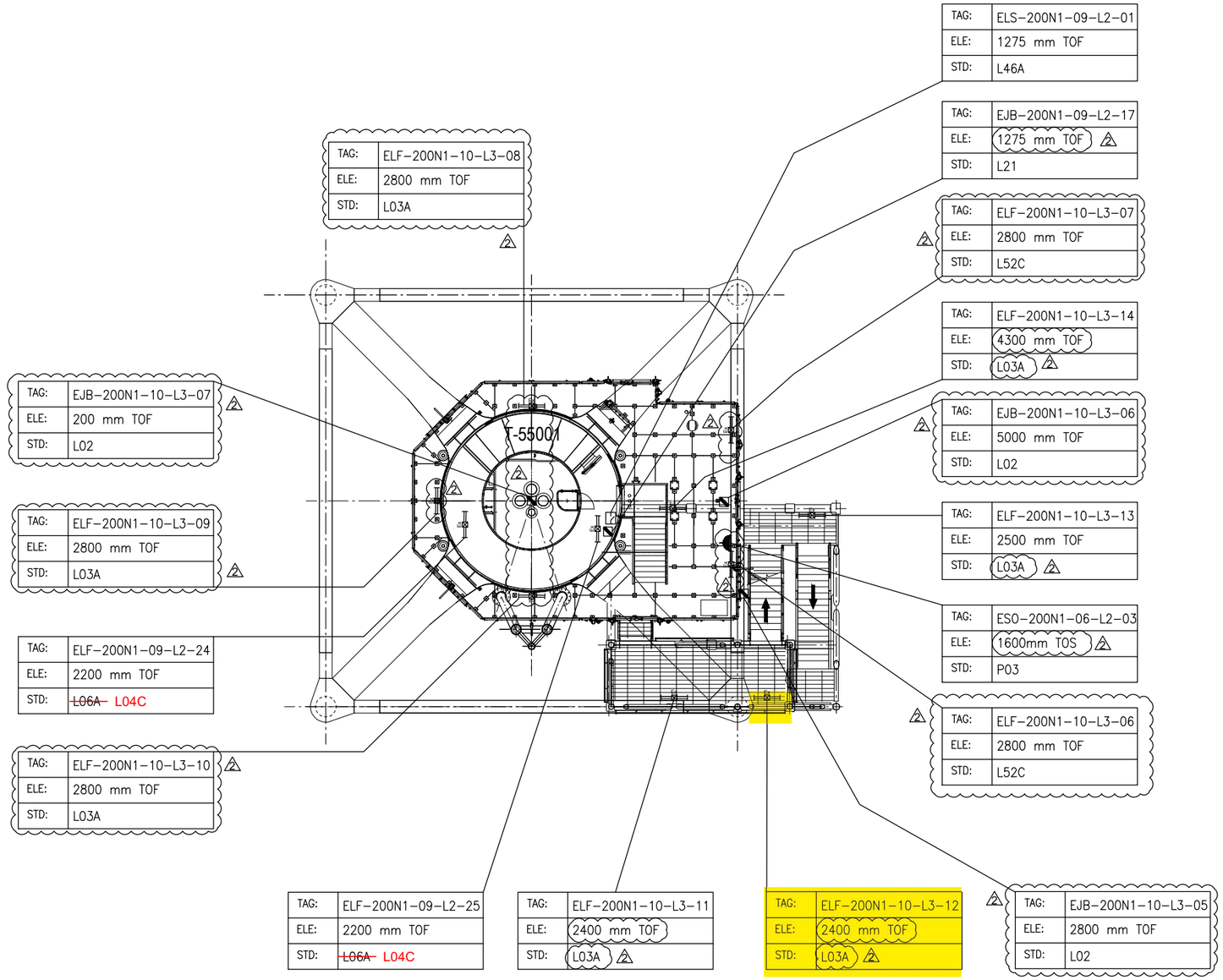
1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	OK
3	Check equipment is undamaged and correcly tagged.	PL
4	Check nameplate data is correct.	OK
5	Check all bolts are fitted and all unused entries are suitably plugged.	OK
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	OK
8	Check items are properly fixed on support.	OK
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

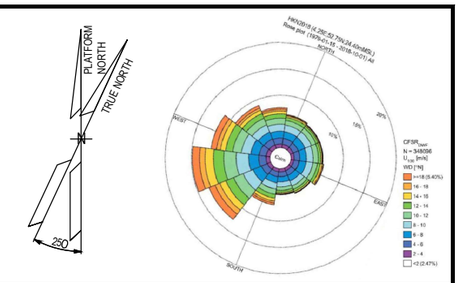
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	VIP	RM(ROSETTI MARINO)	
Name	Madhankumar Arunagiri	Giovanni Tangianu	
Date	2025-04-18	2025-04-29	
Signature	PROVERLIS Digitaly signed by Madhankumar Arunagiri 2025-04-18T06:30:46.961Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2025-04-29T12:49:45.918Z	

DRAWING NO. 123A90-DDL-EL-DL-20120

REV. 02



PLAN ON EXISTING PLATFORM AT EL.+16.860 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S / T.O.F.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. ELEVATION OR STANDARD PRESENT IN THE MASK, WHERE JB AND FIXTURE ARE SHOWN, ARE RELATIVE TO THE ORDER OF THE TAGS, 1°ROW JB AND 2°ROW FIXTURE = ELEVATION JB / ELEVATION FIXTURE.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- SMALL POWER SOCKET WITH INTEGRATED JB
- LOCAL SWITCH IP66 TYPE

JB TAG:	JB–TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

T.O.S TOP OF STEEL
T.O.F TOP OF FOOTING (Walkway plan)

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20120**

REV.:	DATE:	SIGNATURE:
2_B	27/01/25	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-EL-DL-20102	ELECTRICAL EQUIPMENT LAYOUT - TRANSITION PIECE
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-PP-DL-70070	BASE LOAD POWER HUB (BLPH) - PLOT PLAN - LOWER AND UPPER DECK
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
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	04/06/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

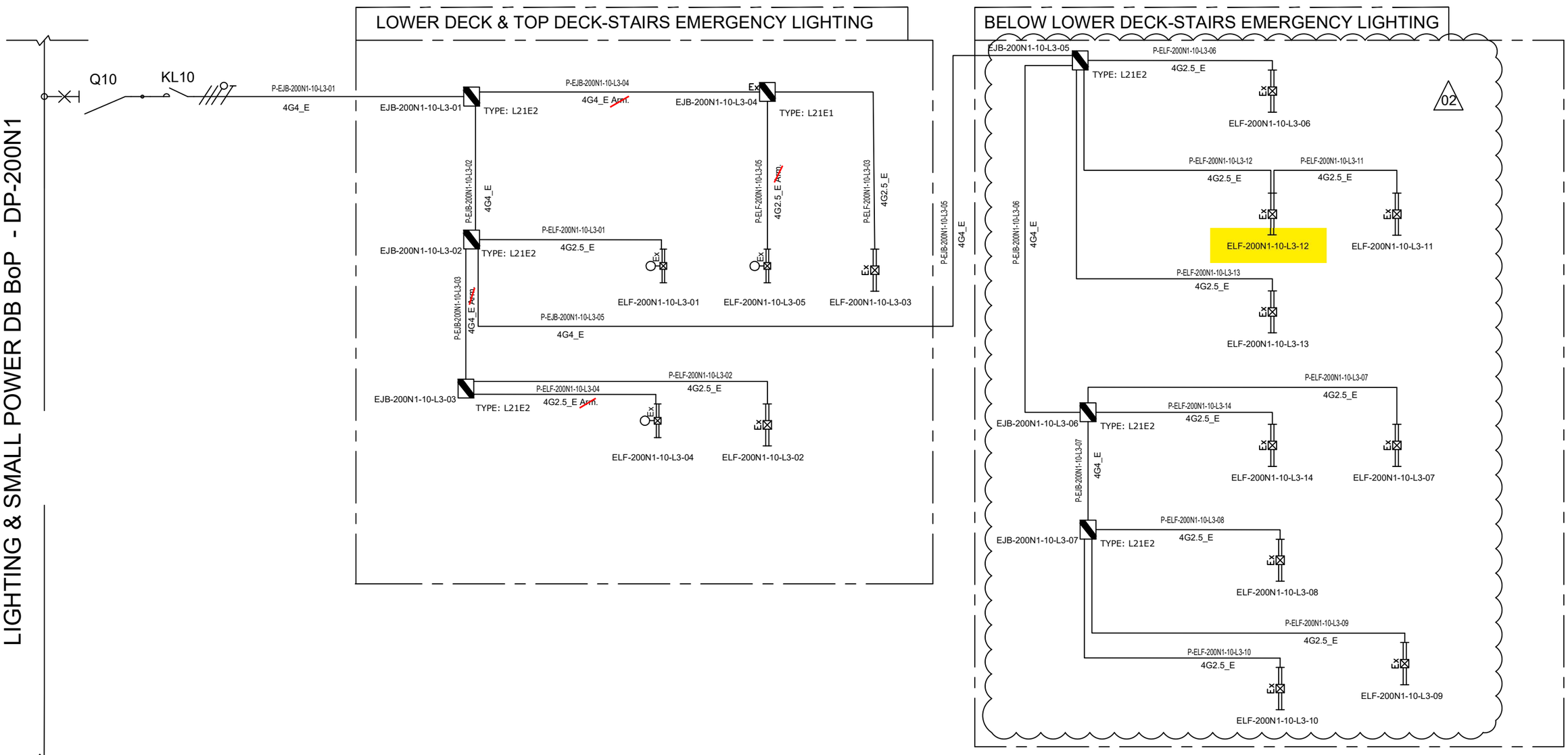
ROSETTI MARINO

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

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:100
DRAWN AMA	CHECKED CGI	APPROVED DLO	DATE 07/10/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20120	SHEET 001	REV. 02

File Name : 123A90-DDL-EL-DL-20120

LIGHTING & SMALL POWER DB BoP - DP-200N1



NOTE:	
ELF-200N1-10-L3-01	LOWER DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-02	
ELF-200N1-10-L3-03	
ELF-200N1-10-L3-04	TOP DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-05	

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

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

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
			ELF-200N1-10-L3-09		
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
STAIRS EMERGENCY LIGHTING (LOWER DECK,TOP DECK AND BELOW LOWER DECK)

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

SCALE : NTS

A3

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

SHEET 007

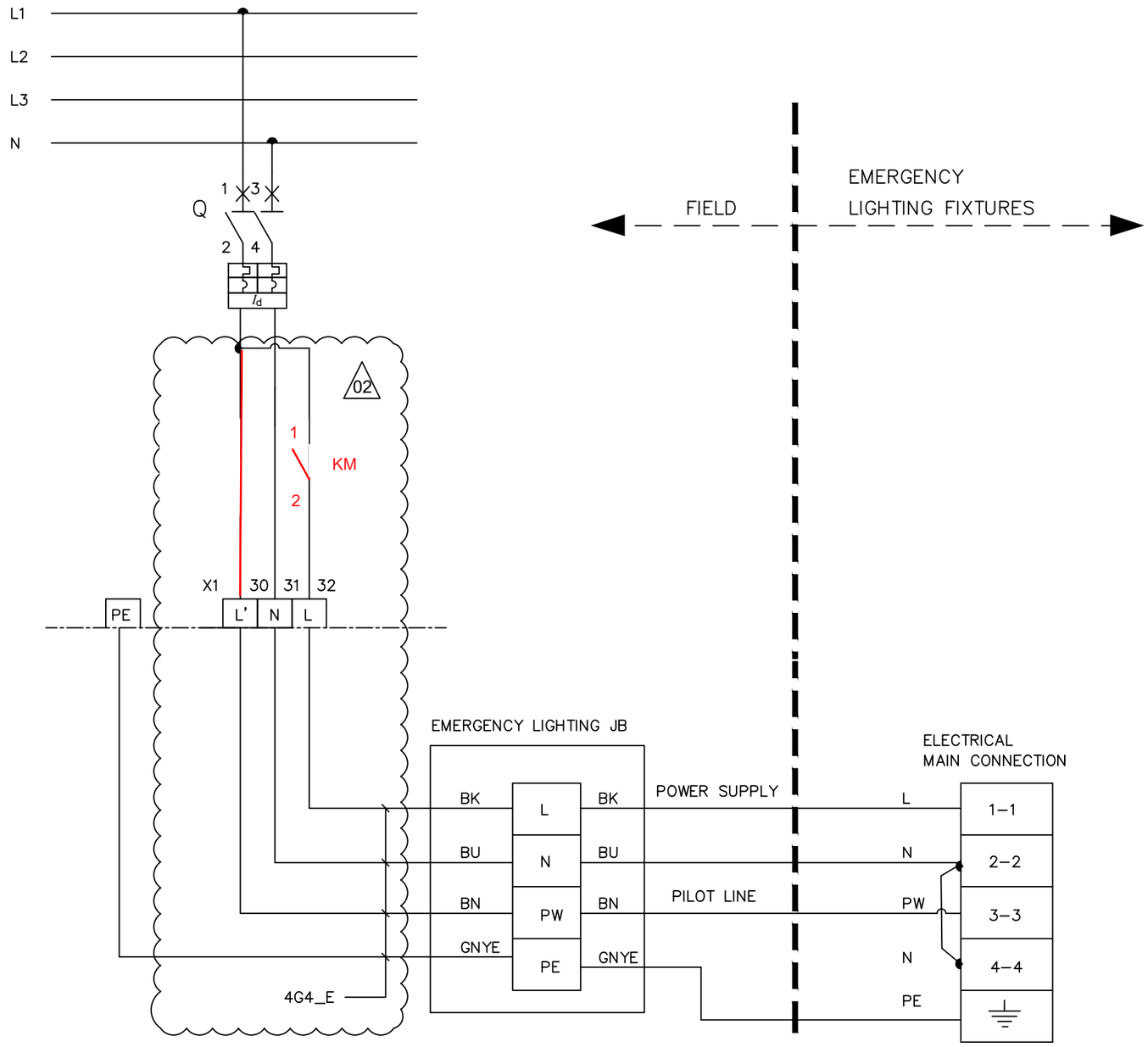
REV. 02

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

F.to UNI A3: 420mmx297mm

EMERGENCY LIGHTS WIRING DIAGRAM

DP–200N1
FOR EMERGENCY LIGHTING
INTERNAL BUS BAR 400V–230V / 50Hz



L – POWER SUPPLY
N – NEUTRAL
PW – PILOT LINE
PE – PROTECTIVE EARTH
BN – BROWN (L')
BK – BLACK (L)
BU – BLUE (N)
GNYE – GREEN/YELLOW (PE)

02

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
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
EMERGENCY LIGHTS WIRING DIAGRAM

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

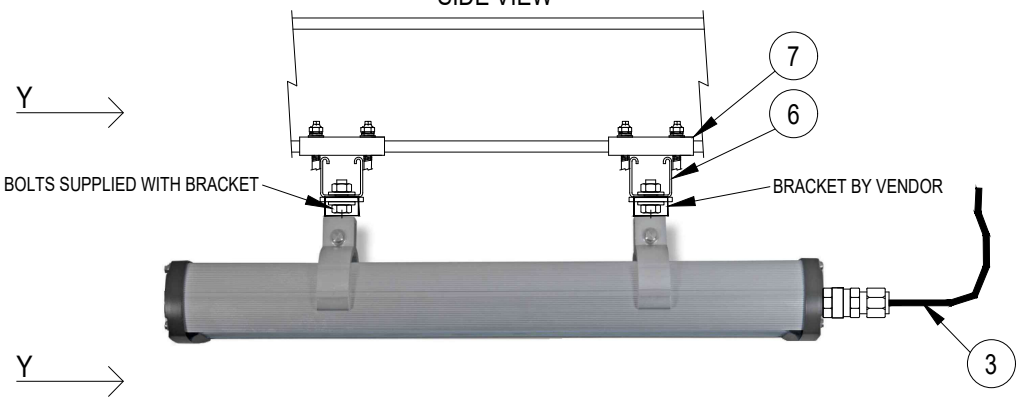
A3 | DRAWING NO. 123A90–DDL–EL–DG–20125 | SHEET 014 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

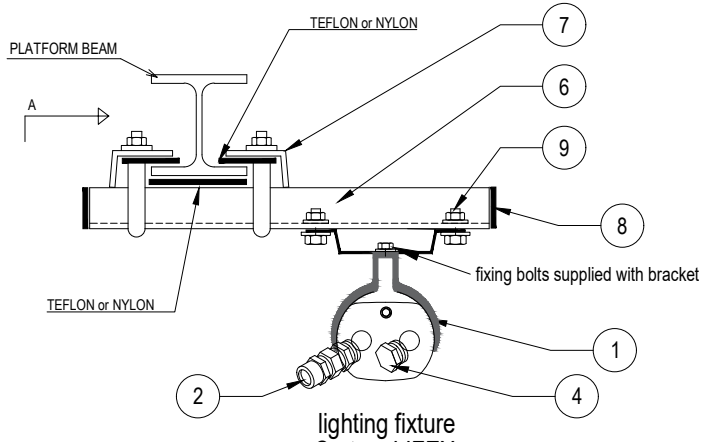
L03A

SIDE VIEW

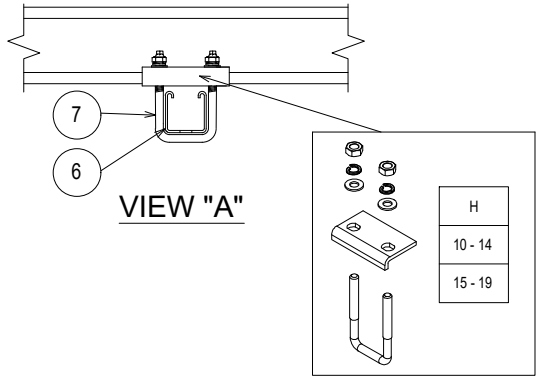


POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	LIGHITNG FIXTURE (Ex e) WITH LED LAMP	ALUMINIUM ALLOY		1	
2	CABLE GLAND (Ex) FOR ARMOURED/UNARMOURED CABLE	NICK.PL.BRASS		1	NOTE 2 NOTE 5
3	ARMOURED/UNARMOURED CABLE				NOTE 5
4	PLUG	NICK.PL.BRASS		AS REQ.	NOTE 3
6	SINGLE U-CHANNEL PERFORATED ON NO.3 SIDE	AISI 316L		AS REQ.	NOTE 1
7	SINGLE U-CHANNEL BEAM ATTACHMENT (10-14) OR (15-19) WITH COLLAR COMPLETE WITH HARDWARE	AISI 316L		4	NOTE 4
8	PLUG FOR U-CHANNEL	LPDE		4	
9	HEX. BOLT M8X16 WITH LARGE PLANE WASHER		M8x16	4	

SECTION "Y-Y"



lighting fixture
Cortem LIFEX



NOTES:

1) THE EXACT DIMENSIONS WILL BE DEFINED DURING ASSEMBLY PHASE.
2) CABLE GLAND COMPLETE WITH LOCKNUT, NYLON WASHER, SERRATED WASHER, EXTERNAL RUBBER RING AND EARTH TAG (IF NECESSARY).
3) UNUSED CABLE ENTRIES MUST BE CLOSED WITH NICKEL PLATED BRASS PLUG.
4) SINGLE U-CHANNEL BEAM ATTACHMENT (CLAMP) IS PRODUCED IN NO. 2 DIFFERENT SIZES (10-14 OR 15-19) SIZE REFERS TO THE THICKNESS OF THE BEAM WHERE THE CLAMP IS INSTALLED.
5) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–LIGHTING SYSTEM
FIXTURE SUSPENSION MOUNTED WITH CLAMPED SUPPORT

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

A3 | DRAWING NO. 123A90–DDL–EL–DD–20091 | SHEET 008 | REV. 02

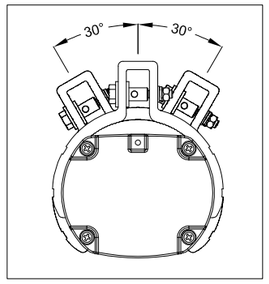
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 2
- Q.TY: 78
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

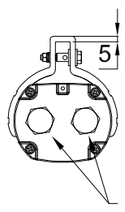
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



LF INFORMATION	
NOMINAL POWER	60W
CONSUMED POWER	40,9W
POWER FACTOR	>0,96
RATED CURRENT	185 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6218 lm
LIGHT INTENSITY	2191 cd
EFFICIENCY	152 lm/W
WEIGHT	3,5 Kg
IP PROTECTION	IP66
AUTONOMY	180 min
LUMEN EMERG. MODE	1168 lm

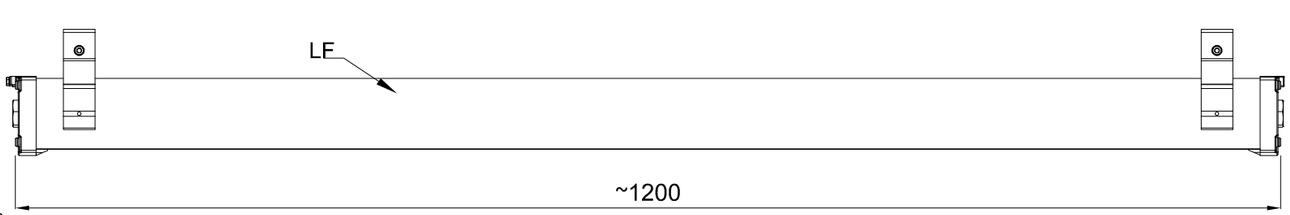
N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-1260N-BB	110-277Vac 50-60Hz 60W (RED. TO 40W) LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

LEFT SIDE (OUT)

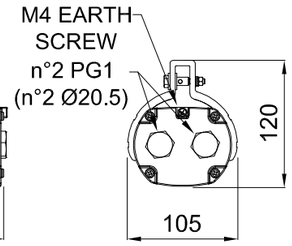


n°2 PG1
(n°2 Ø20.5)

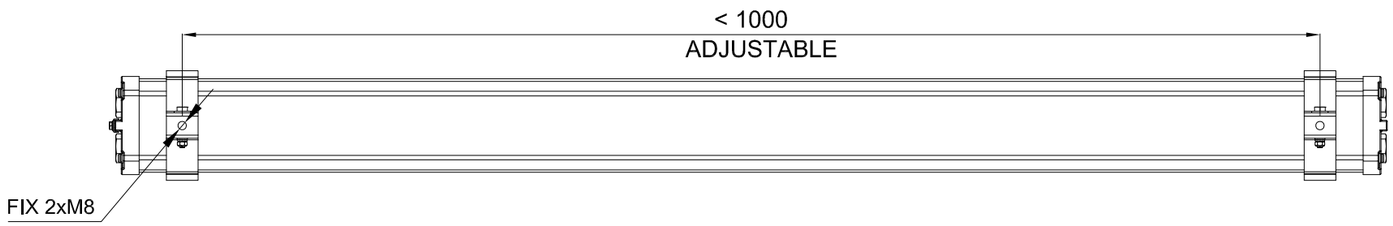
FRONT SIDE



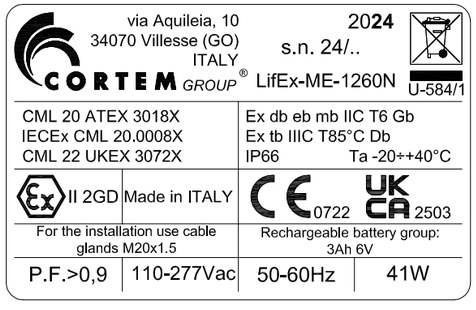
RIGHT SIDE (IN)



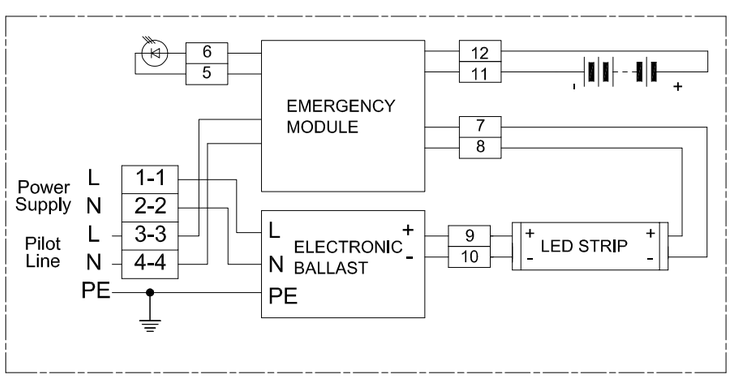
TOP SIDE



CERTIFICATE NAMEPLATE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
002 LIFEX-ME-1260N-BB/C2402693/20.

CORTEM JOB: COV2402693
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27521
SHEET 2 / TOT. 2
NEXT /

CORTEM GROUP
contem
FONDISONZO
ELFIT

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AND IT CANNOT BE REPRODUCED WITHOUT CORTEM'S
AUTHORIZATION

Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	45W LED Linear Luminaire-Emergency Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-1260N-BB		01
4	Serial Number	by vendor			00
5	Quantity	78 Nos.	78 Nos	(69+9 Spare)	01
6	Location / Module	Lower deck/Upper deck/ Below lower deck			00
7	**LED Lamp**				
8	Nominal power	45 watts	60 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Required			00
25	Battery type	NiCd internal battery, gas-tight	Ni/Mh		01
26	Autonomy	180 mins.	180 min		01
27	Emergency luminous flux	1168 lm	1168 lm		01
28	**Mechanical parameters**				
29	Dimension	by vendor	1200x105x120 (mm)		01
30	Weight	by vendor	4.5kg		01

Note:

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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ITEM	Tag	ELF-200N1-10-L3-09	: Emergency Lighting Fixture			Dwg	123A90-DDL-EL-DL-20120
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	TP
TASK	code	C10001858		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

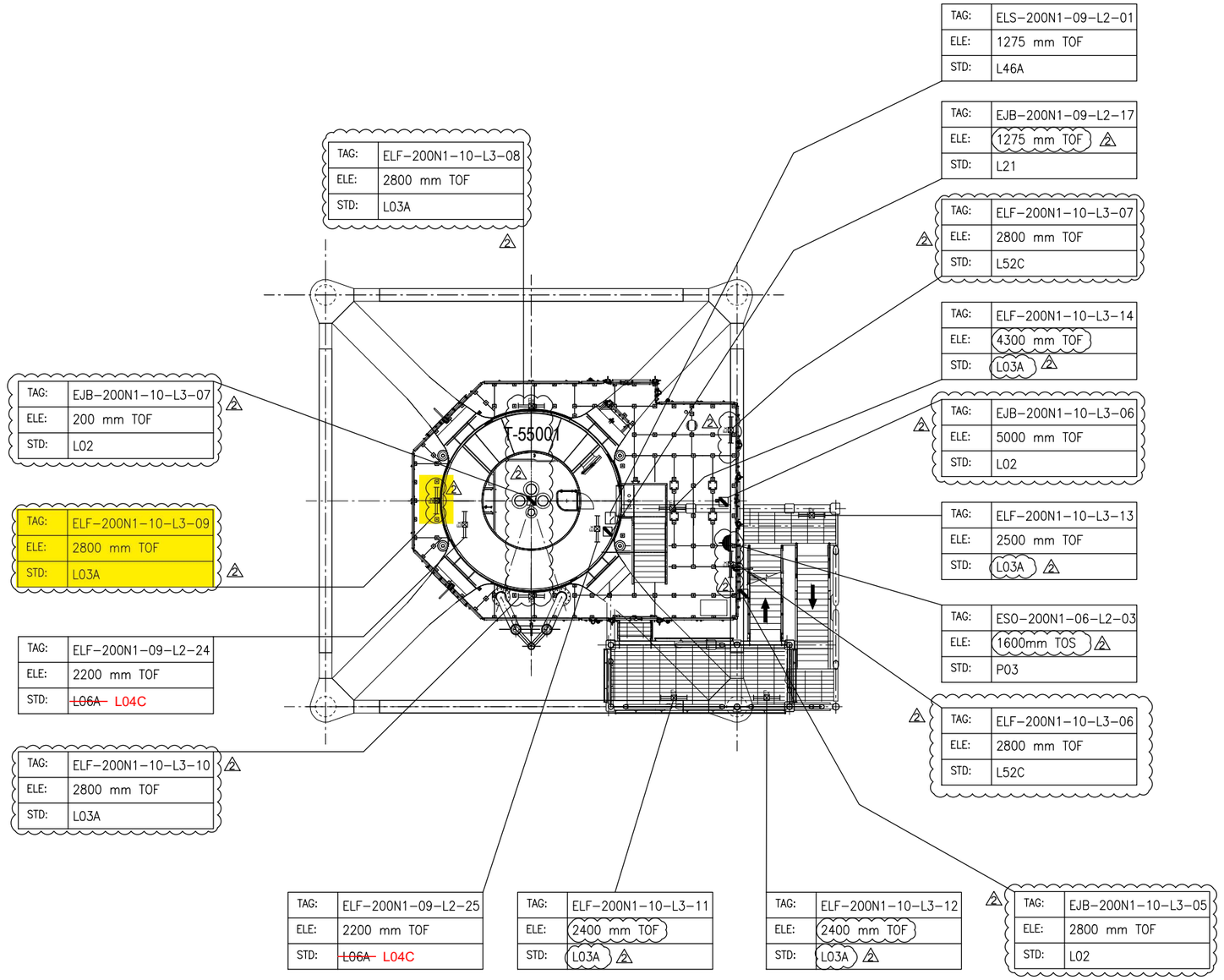
1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	OK
3	Check equipment is undamaged and correcly tagged.	OK
4	Check nameplate data is correct.	OK
5	Check all bolts are fitted and all unused entries are suitably plugged.	OK
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	OK
8	Check items are properly fixed on support.	OK
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

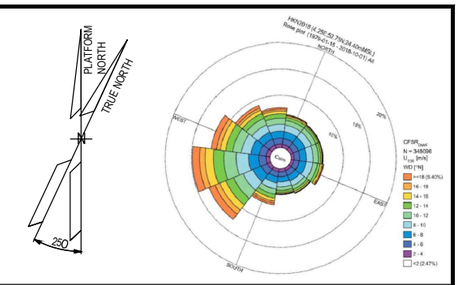
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	VIP	RM(ROSETTI MARINO)	
Name	Madhankumar Arunagiri	Giovanni Tangianu	
Date	2025-04-18	2025-05-05	
Signature	PROVERLIS Digitaly signed by Madhankumar Arunagiri 2025-04-18T06:34:32.623Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2025-05-05T10:50:02.538Z	

DRAWING NO. 123A90-DDL-EL-DL-20120

REV. 02



PLAN ON EXISTING PLATFORM AT EL.+16.860 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S / T.O.F.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. ELEVATION OR STANDARD PRESENT IN THE MASK, WHERE JB AND FIXTURE ARE SHOWN, ARE RELATIVE TO THE ORDER OF THE TAGS, 1°ROW JB AND 2°ROW FIXTURE = ELEVATION JB / ELEVATION FIXTURE.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- SMALL POWER SOCKET WITH INTEGRATED JB
- LOCAL SWITCH IP66 TYPE

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

T.O.S TOP OF STEEL
T.O.F TOP OF FOOTING (Walkway plan)

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20120**

REV.:	DATE:	SIGNATURE:
2_B	27/01/25	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-EL-DL-20102	ELECTRICAL EQUIPMENT LAYOUT - TRANSITION PIECE
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-PP-DL-70070	BASE LOAD POWER HUB (BLPH) - PLOT PLAN - LOWER AND UPPER DECK
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
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	04/06/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

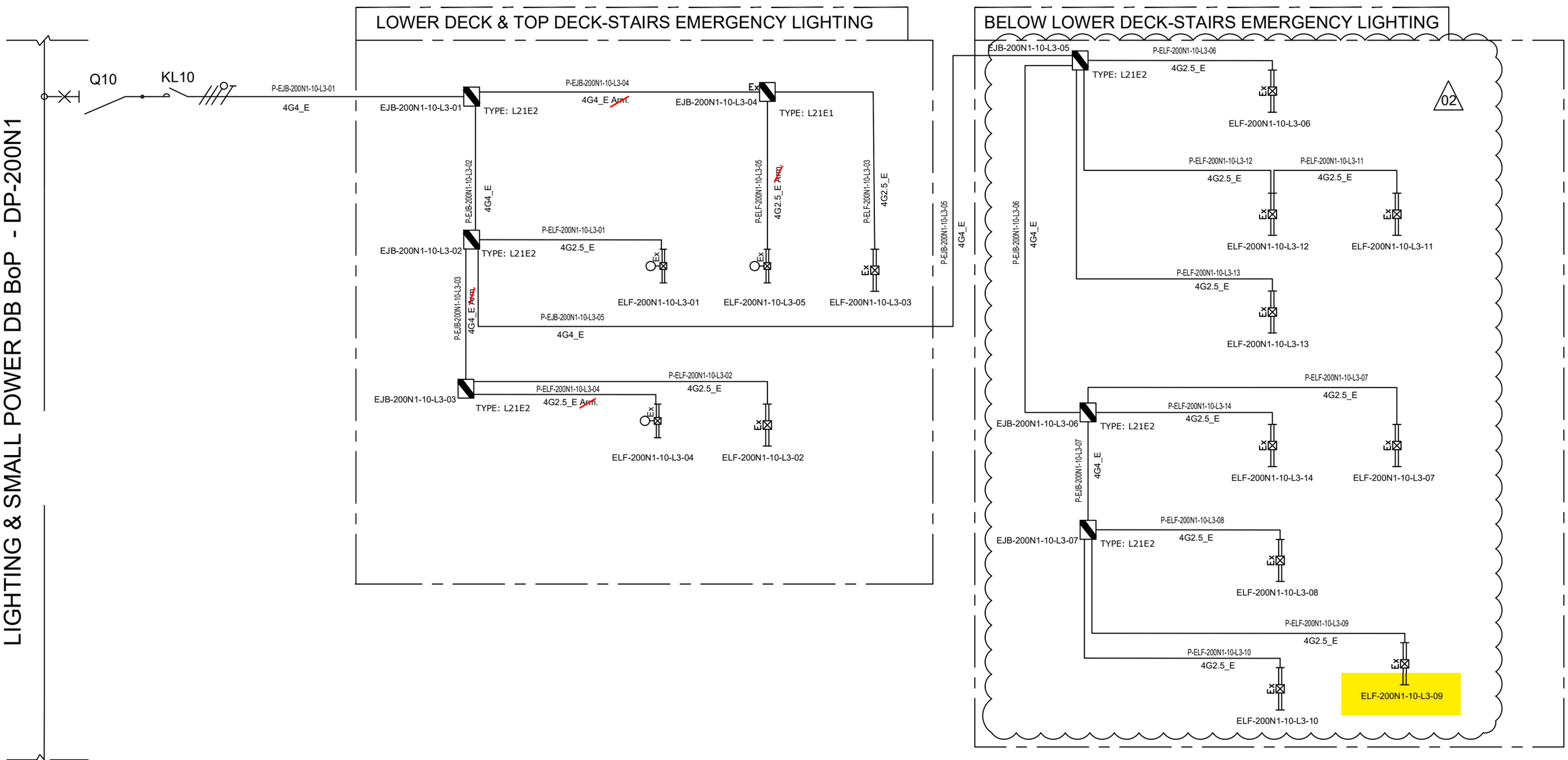
ROSETTI MARINO

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

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:100
DRAWN AMA	CHECKED CGI	APPROVED DLO	DATE 07/10/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20120	SHEET 001	REV. 02

File Name : 123A90-DDL-EL-DL-20120

LIGHTING & SMALL POWER DB BoP - DP-200N1



NOTE:	
ELF-200N1-10-L3-01	LOWER DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-02	
ELF-200N1-10-L3-03	
ELF-200N1-10-L3-04	TOP DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-05	

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

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

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
		ELF-200N1-10-L3-09			
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
STAIRS EMERGENCY LIGHTING (LOWER DECK,TOP DECK AND BELOW LOWER DECK)

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

SCALE : NTS

A3

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

SHEET 007

REV. 02

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

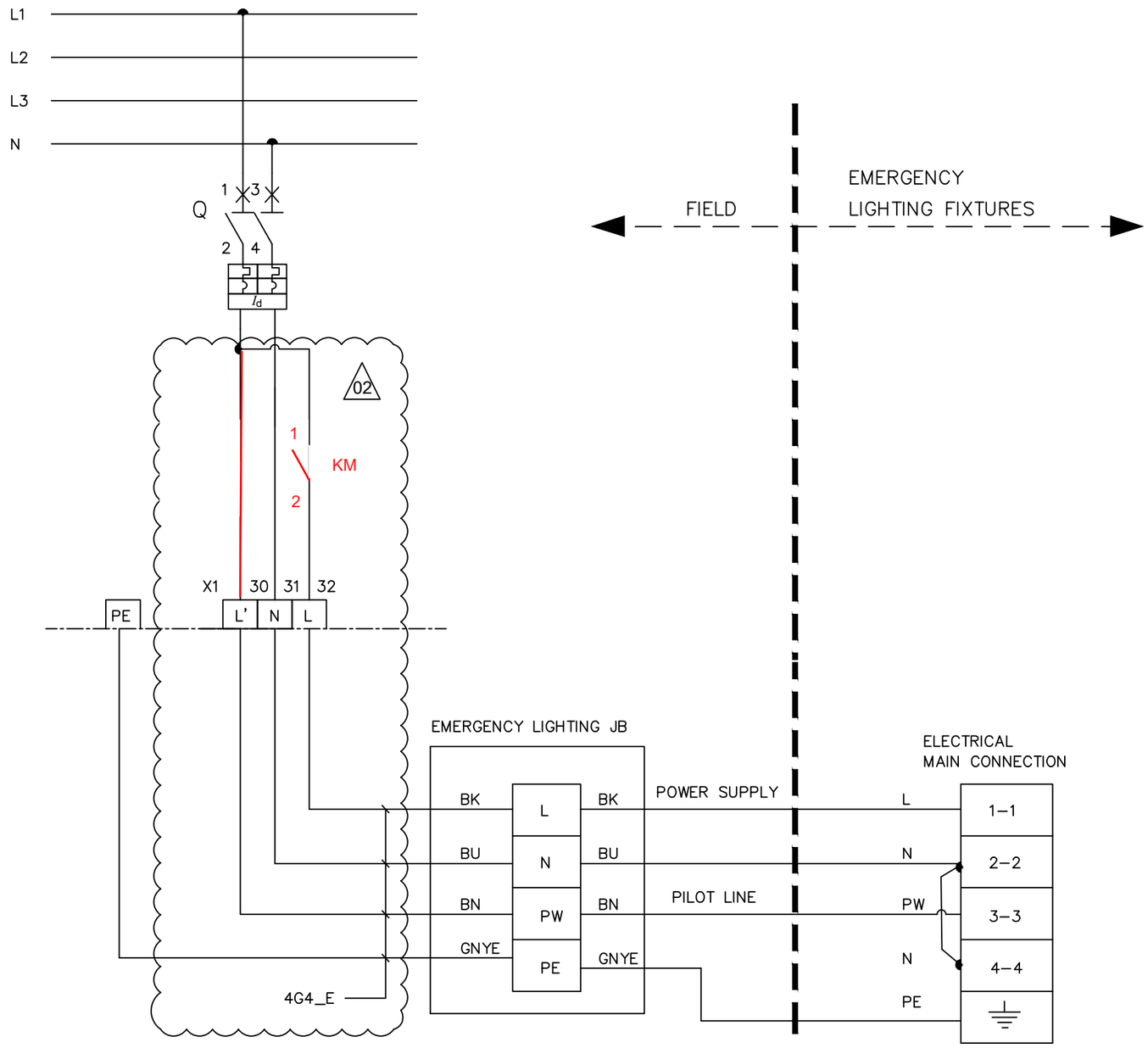
F.to UNI A3: 420mmx297mm

DP–200N1

FOR EMERGENCY LIGHTING

INTERNAL BUS BAR 400V–230V / 50Hz

EMERGENCY LIGHTS WIRING DIAGRAM



L – POWER SUPPLY

N – NEUTRAL

PW – PILOT LINE

PE – PROTECTIVE EARTH

BN – BROWN (L')

BK – BLACK (L)

BU – BLUE (N)

GNYE – GREEN/YELLOW (PE)

02

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
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
EMERGENCY LIGHTS WIRING DIAGRAM

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

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

SHEET 014

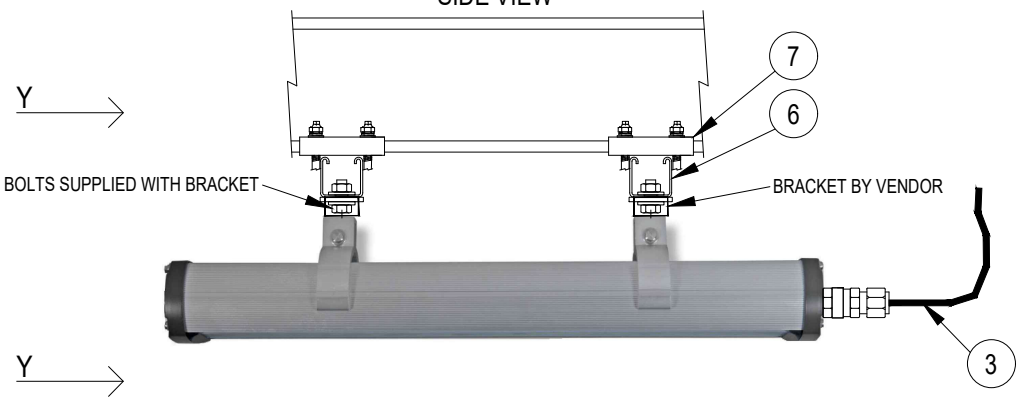
REV. 02

F.to UNI A3: 420mmx297mm

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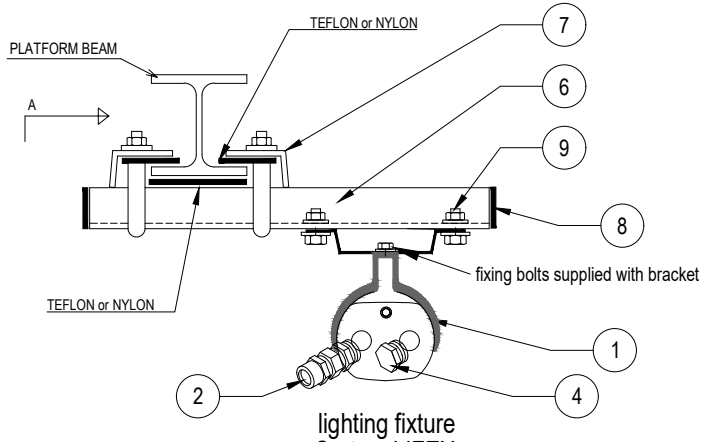
L03A

SIDE VIEW

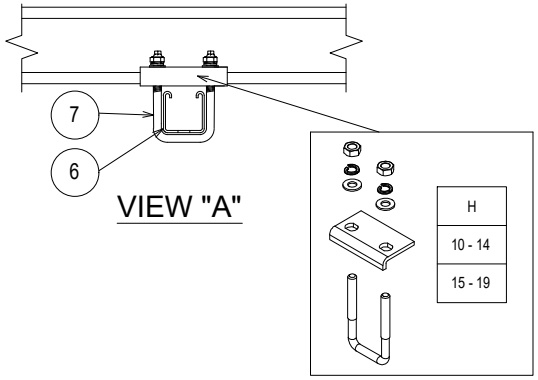


POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	LIGHITNG FIXTURE (Ex e) WITH LED LAMP	ALUMINIUM ALLOY		1	
2	CABLE GLAND (Ex) FOR ARMOURED/UNARMOURED CABLE	NICK.PL.BRASS		1	NOTE 2 NOTE 5
3	ARMOURED/UNARMOURED CABLE				NOTE 5
4	PLUG	NICK.PL.BRASS		AS REQ.	NOTE 3
6	SINGLE U-CHANNEL PERFORATED ON NO.3 SIDE	AISI 316L		AS REQ.	NOTE 1
7	SINGLE U-CHANNEL BEAM ATTACHMENT (10-14) OR (15-19) WITH COLLAR COMPLETE WITH HARDWARE	AISI 316L		4	NOTE 4
8	PLUG FOR U-CHANNEL	LPDE		4	
9	HEX. BOLT M8X16 WITH LARGE PLANE WASHER		M8x16	4	

SECTION "Y-Y"



lighting fixture
Cortem LIFEX



NOTES:

1) THE EXACT DIMENSIONS WILL BE DEFINED DURING ASSEMBLY PHASE.
2) CABLE GLAND COMPLETE WITH LOCKNUT, NYLON WASHER, SERRATED WASHER, EXTERNAL RUBBER RING AND EARTH TAG (IF NECESSARY).
3) UNUSED CABLE ENTRIES MUST BE CLOSED WITH NICKEL PLATED BRASS PLUG.
4) SINGLE U-CHANNEL BEAM ATTACHMENT (CLAMP) IS PRODUCED IN NO. 2 DIFFERENT SIZES (10-14 OR 15-19) SIZE REFERS TO THE THICKNESS OF THE BEAM WHERE THE CLAMP IS INSTALLED.
5) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–LIGHTING SYSTEM
FIXTURE SUSPENSION MOUNTED WITH CLAMPED SUPPORT

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

A3 | DRAWING NO. 123A90–DDL–EL–DD–20091 | SHEET 008 | REV. 02

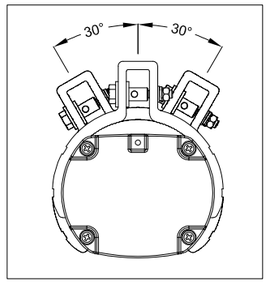
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 2
- Q.TY: 78
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

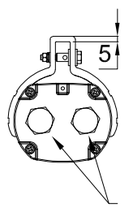
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



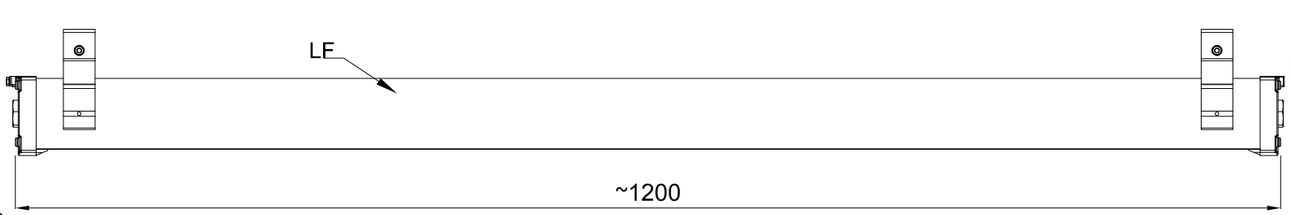
LF INFORMATION	
NOMINAL POWER	60W
CONSUMED POWER	40,9W
POWER FACTOR	>0,96
RATED CURRENT	185 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6218 lm
LIGHT INTENSITY	2191 cd
EFFICIENCY	152 lm/W
WEIGHT	3,5 Kg
IP PROTECTION	IP66
AUTONOMY	180 min
LUMEN EMERG. MODE	1168 lm

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-1260N-BB	110-277Vac 50-60Hz 60W (RED. TO 40W) LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

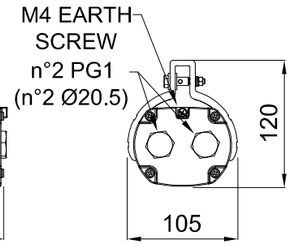
LEFT SIDE (OUT)



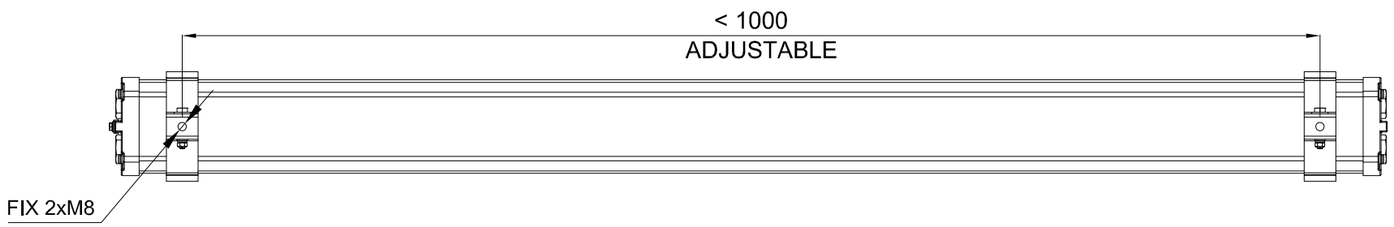
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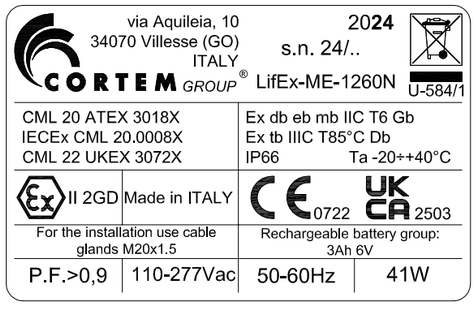
RIGHT SIDE (IN)



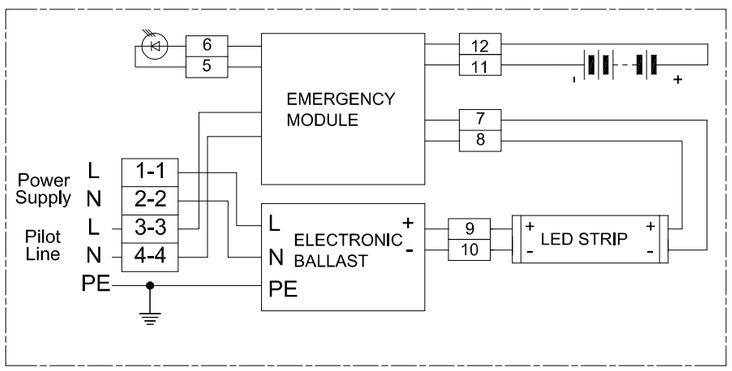
TOP SIDE



CERTIFICATE NAMEPLATE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
002 LIFEX-ME-1260N-BB/C2402693/20.

CORTEM JOB: COV2402693
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27521
SHEET 2 / NEXT /
TOT. 2

CORTEM GROUP
cortem
FONDISONZO
ELFIT

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AND IT CANNOT BE REPRODUCED WITHOUT CORTEM'S
AUTHORIZATION

Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	45W LED Linear Luminaire-Emergency Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-1260N-BB		01
4	Serial Number	by vendor			00
5	Quantity	78 Nos.	78 Nos	(69+9 Spare)	01
6	Location / Module	Lower deck/Upper deck/ Below lower deck			00
7	**LED Lamp**				
8	Nominal power	45 watts	60 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Required			00
25	Battery type	NiCd internal battery, gas-tight	Ni/Mh		01
26	Autonomy	180 mins.	180 min		01
27	Emergency luminous flux	1168 lm	1168 lm		01
28	**Mechanical parameters**				
29	Dimension	by vendor	1200x105x120 (mm)		01
30	Weight	by vendor	4.5kg		01

Note:

This document undergoes an issuance cycle within EDMS "Fusionlive".
Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ITEM	Tag	ELF-200N1-10-L3-10	: Emergency Lighting Fixture			Dwg	123A90-DDL-EL-DL-20120
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	TP
TASK	code	C10001859		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

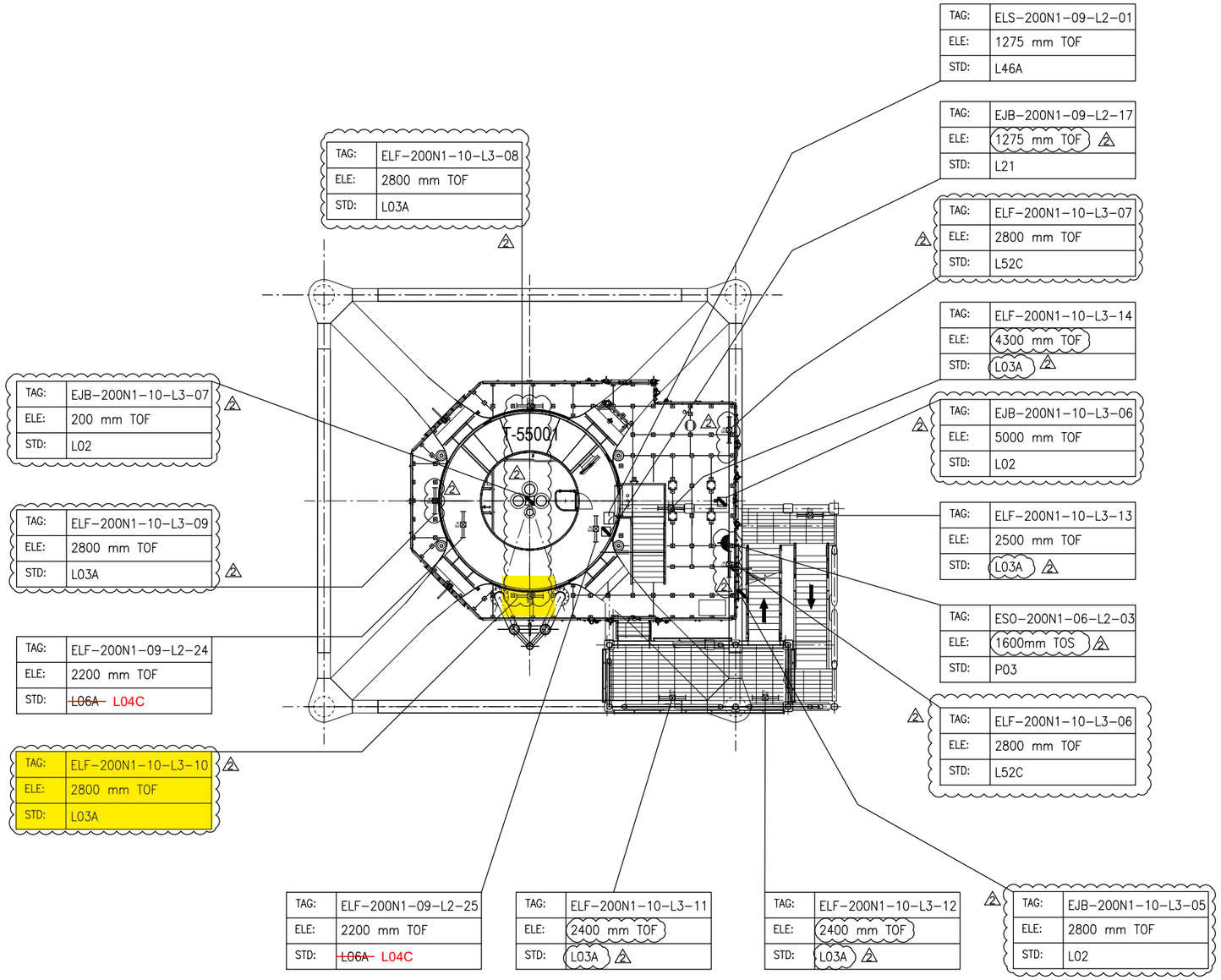
1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	OK
3	Check equipment is undamaged and correcly tagged.	OK
4	Check nameplate data is correct.	OK
5	Check all bolts are fitted and all unused entries are suitably plugged.	OK
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	OK
8	Check items are properly fixed on support.	PL
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

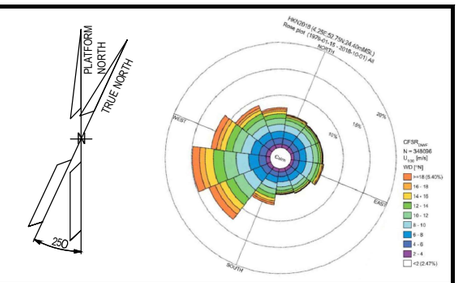
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	VIP	RM(ROSETTI MARINO)	
Name	Madhankumar Arunagiri	Giovanni Tangianu	
Date	2025-04-18	2025-05-05	
Signature	Digitaly signed by Madhankumar Arunagiri 2025-04-18T06:35:35.434Z	Digitaly signed by Giovanni Tangianu 2025-05-05T11:03:47.376Z	

DRAWING NO. 123A90-DDL-EL-DL-20120

REV. 02



PLAN ON EXISTING PLATFORM AT EL.+16.860 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S / T.O.F.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. ELEVATION OR STANDARD PRESENT IN THE MASK, WHERE JB AND FIXTURE ARE SHOWN, ARE RELATIVE TO THE ORDER OF THE TAGS, 1°ROW JB AND 2°ROW FIXTURE = ELEVATION JB / ELEVATION FIXTURE.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- SMALL POWER SOCKET WITH INTEGRATED JB
- LOCAL SWITCH IP66 TYPE

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

T.O.S TOP OF STEEL
T.O.F TOP OF FOOTING (Walkway plan)

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20120**

REV.:	DATE:	SIGNATURE:
2_B	27/01/25	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-EL-DL-20102	ELECTRICAL EQUIPMENT LAYOUT - TRANSITION PIECE
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-PP-DL-70070	BASE LOAD POWER HUB (BLPH) - PLOT PLAN - LOWER AND UPPER DECK
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
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	04/06/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

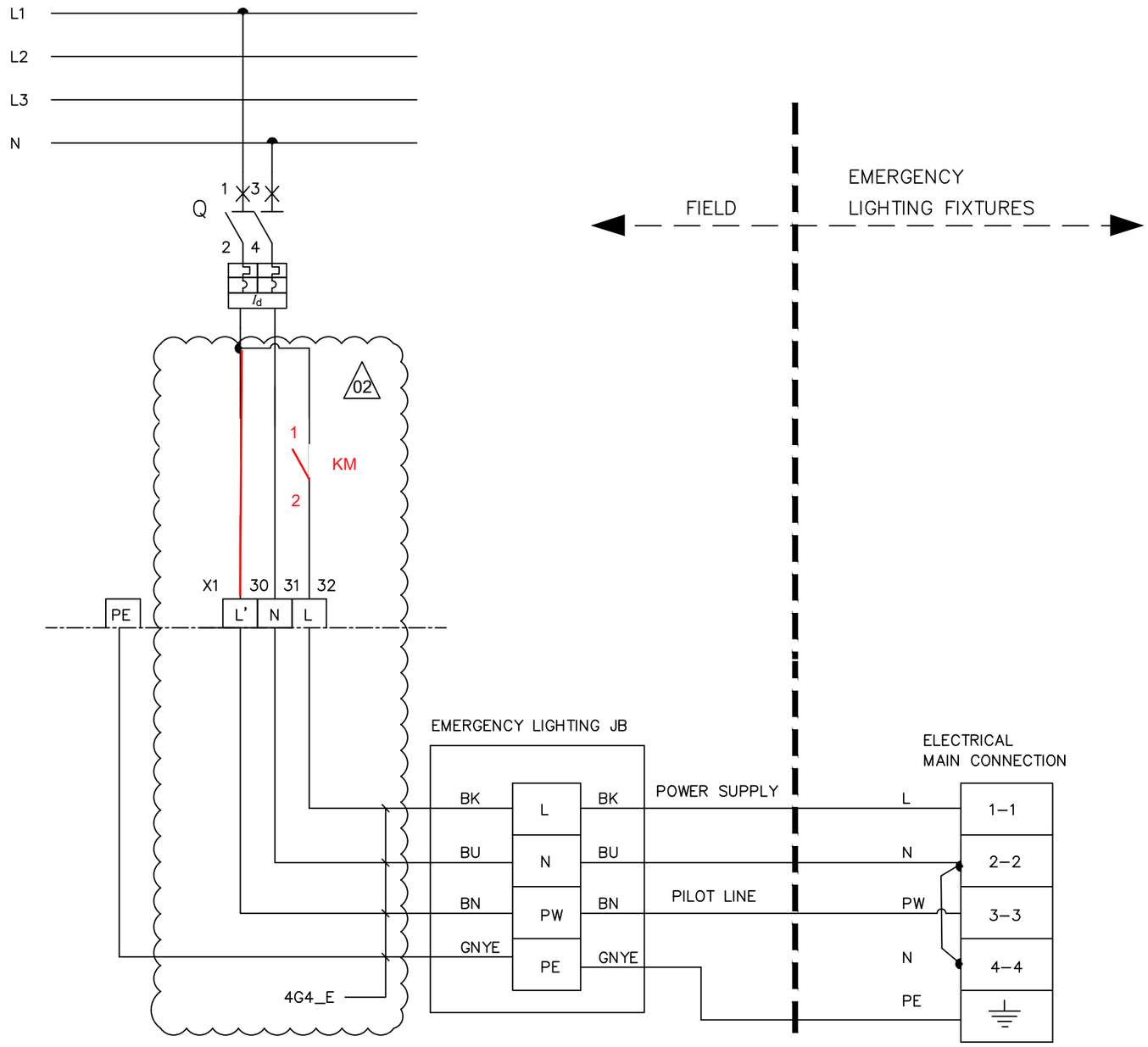
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – BELOW LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:100
DRAWN AMA	CHECKED CGI	APPROVED DLO	DATE 07/10/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20120	SHEET 001	REV. 02

File Name : 123A90-DDL-EL-DL-20120

EMERGENCY LIGHTS WIRING DIAGRAM

DP–200N1
FOR EMERGENCY LIGHTING
INTERNAL BUS BAR 400V–230V / 50Hz



L – POWER SUPPLY
N – NEUTRAL
PW – PILOT LINE
PE – PROTECTIVE EARTH
BN – BROWN (L')
BK – BLACK (L)
BU – BLUE (N)
GNYE – GREEN/YELLOW (PE)

02

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
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
EMERGENCY LIGHTS WIRING DIAGRAM

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

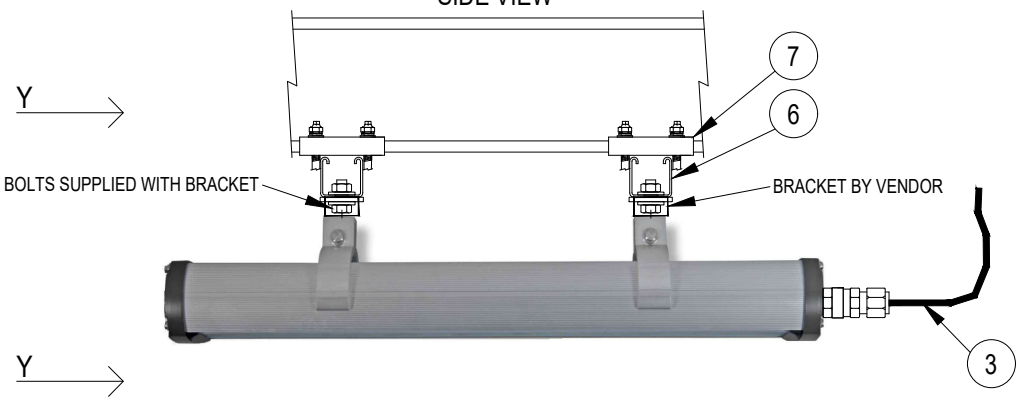
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F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

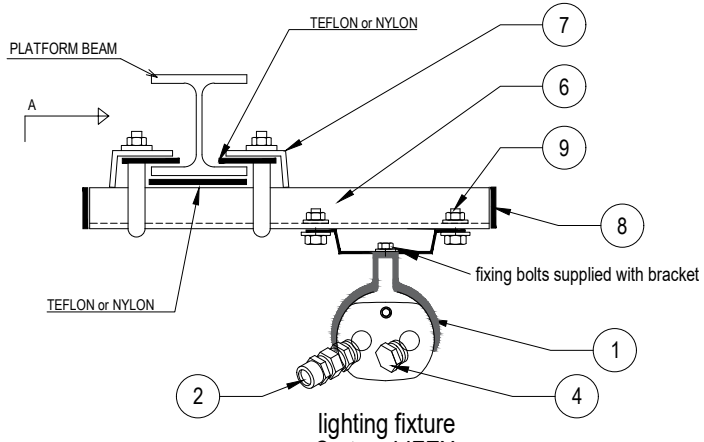
L03A

SIDE VIEW

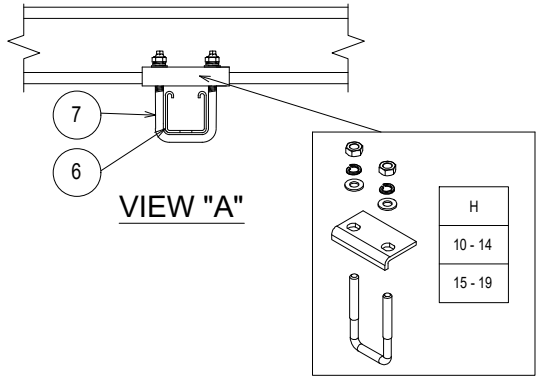


POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	LIGHITNG FIXTURE (Ex e) WITH LED LAMP	ALUMINIUM ALLOY		1	
2	CABLE GLAND (Ex) FOR ARMOURED/UNARMOURED CABLE	NICK.PL.BRASS		1	NOTE 2 NOTE 5
3	ARMOURED/UNARMOURED CABLE				NOTE 5
4	PLUG	NICK.PL.BRASS		AS REQ.	NOTE 3
6	SINGLE U-CHANNEL PERFORATED ON NO.3 SIDE	AISI 316L		AS REQ.	NOTE 1
7	SINGLE U-CHANNEL BEAM ATTACHMENT (10-14) OR (15-19) WITH COLLAR COMPLETE WITH HARDWARE	AISI 316L		4	NOTE 4
8	PLUG FOR U-CHANNEL	LPDE		4	
9	HEX. BOLT M8X16 WITH LARGE PLANE WASHER		M8x16	4	

SECTION "Y-Y"



lighting fixture
Cortem LIFEX



NOTES:

1) THE EXACT DIMENSIONS WILL BE DEFINED DURING ASSEMBLY PHASE.
2) CABLE GLAND COMPLETE WITH LOCKNUT, NYLON WASHER, SERRATED WASHER, EXTERNAL RUBBER RING AND EARTH TAG (IF NECESSARY).
3) UNUSED CABLE ENTRIES MUST BE CLOSED WITH NICKEL PLATED BRASS PLUG.
4) SINGLE U-CHANNEL BEAM ATTACHMENT (CLAMP) IS PRODUCED IN NO. 2 DIFFERENT SIZES (10-14 OR 15-19) SIZE REFERS TO THE THICKNESS OF THE BEAM WHERE THE CLAMP IS INSTALLED.
5) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–LIGHTING SYSTEM
FIXTURE SUSPENSION MOUNTED WITH CLAMPED SUPPORT

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

A3 | DRAWING NO. 123A90–DDL–EL–DD–20091 | SHEET 008 | REV. 02

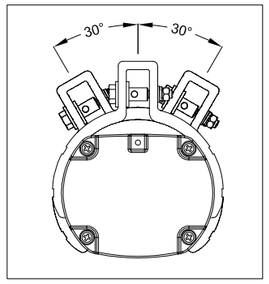
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 2
- Q.TY: 78
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

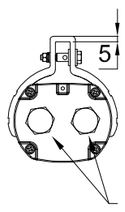
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



LF INFORMATION	
NOMINAL POWER	60W
CONSUMED POWER	40,9W
POWER FACTOR	>0,96
RATED CURRENT	185 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6218 lm
LIGHT INTENSITY	2191 cd
EFFICIENCY	152 lm/W
WEIGHT	3,5 Kg
IP PROTECTION	IP66
AUTONOMY	180 min
LUMEN EMERG. MODE	1168 lm

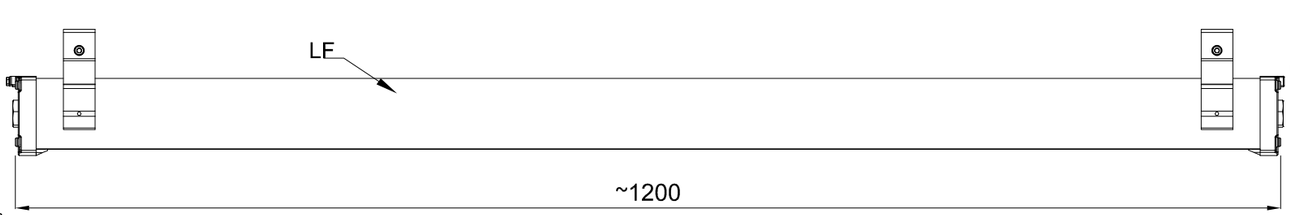
N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-1260N-BB	110-277Vac 50-60Hz 60W (RED. TO 40W) LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

LEFT SIDE (OUT)

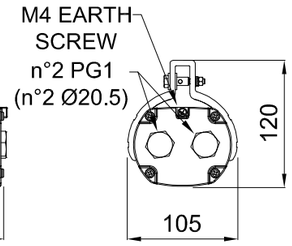


n°2 PG1
(n°2 Ø20.5)

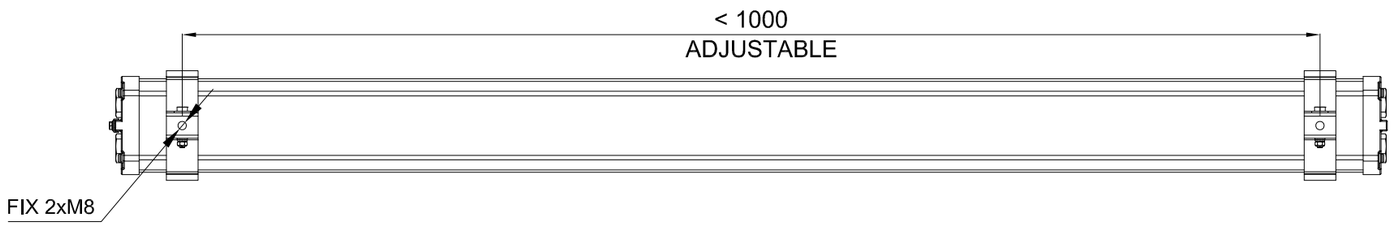
FRONT SIDE



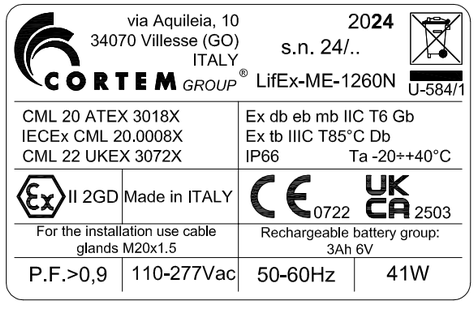
RIGHT SIDE (IN)



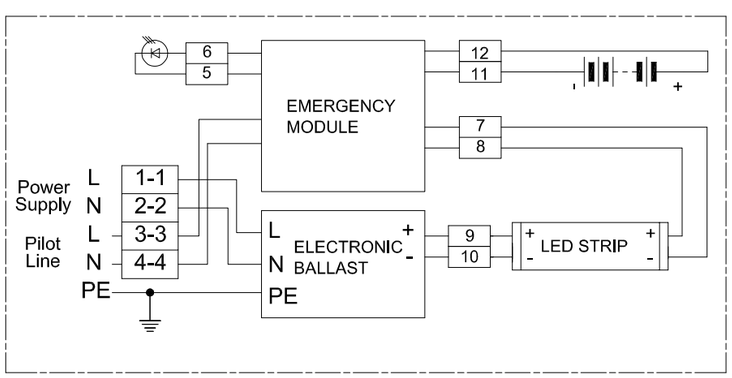
TOP SIDE



CERTIFICATE NAMEPLATE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
002 LIFEX-ME-1260N-BB/C2402693/20.

CORTEM JOB: COV2402693
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27521
SHEET 2 / TOT. 2
NEXT /

CORTEM GROUP
contem
FONDISONZO
ELFIT

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AUTHORIZATION

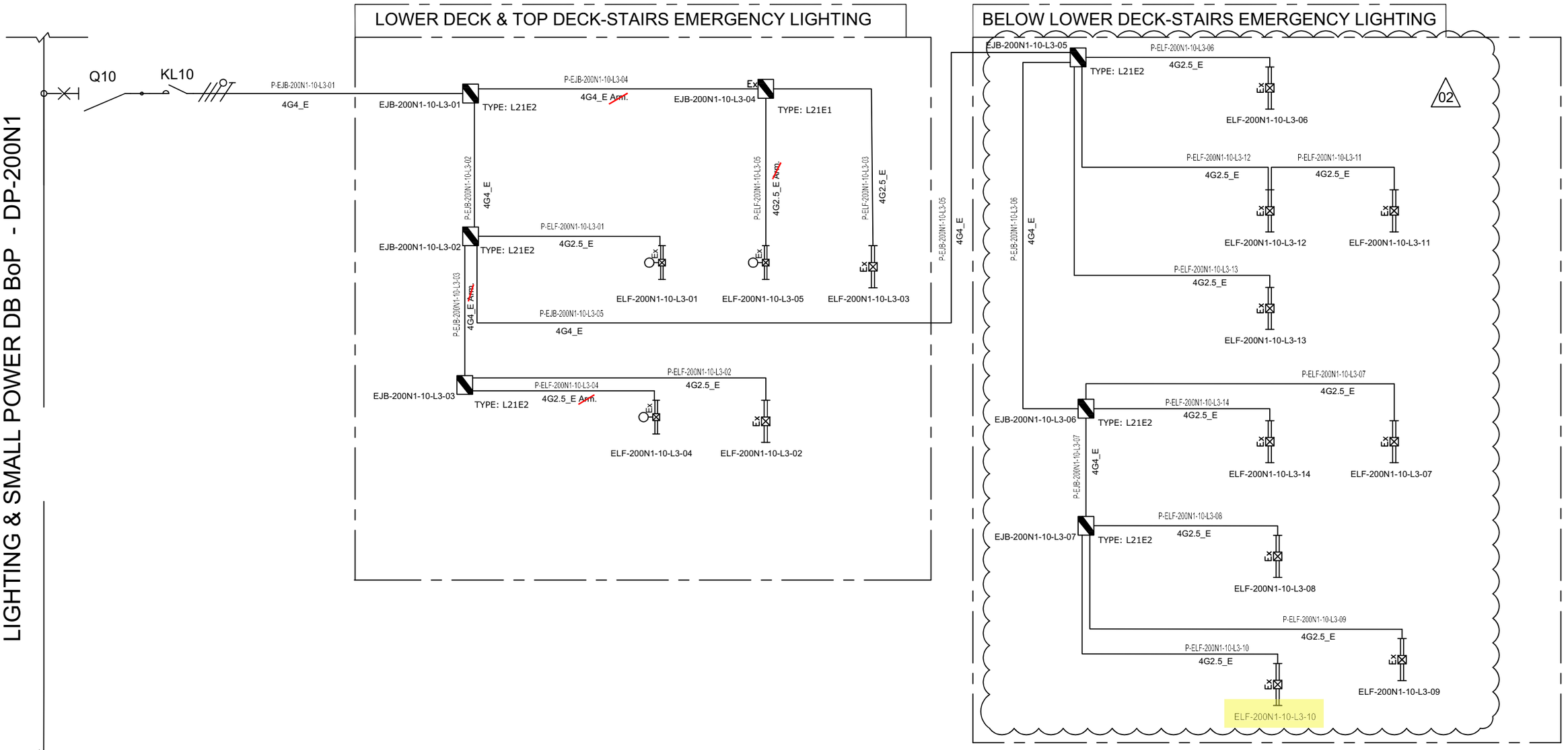
Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	45W LED Linear Luminaire-Emergency Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-1260N-BB		01
4	Serial Number	by vendor			00
5	Quantity	78 Nos.	78 Nos	(69+9 Spare)	01
6	Location / Module	Lower deck/Upper deck/ Below lower deck			00
7	**LED Lamp**				
8	Nominal power	45 watts	60 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Required			00
25	Battery type	NiCd internal battery, gas-tight	Ni/Mh		01
26	Autonomy	180 mins.	180 min		01
27	Emergency luminous flux	1168 lm	1168 lm		01
28	**Mechanical parameters**				
29	Dimension	by vendor	1200x105x120 (mm)		01
30	Weight	by vendor	4.5kg		01

Note:

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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

LIGHTING & SMALL POWER DB BoP - DP-200N1



NOTE:	
ELF-200N1-10-L3-01	LOWER DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-02	
ELF-200N1-10-L3-03	
ELF-200N1-10-L3-04	TOP DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-05	

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

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

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
		ELF-200N1-10-L3-09			
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
STAIRS EMERGENCY LIGHTING (LOWER DECK,TOP DECK AND BELOW LOWER DECK)

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

SCALE : NTS

A3

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

SHEET 007

REV. 02

F.to UNI A3: 420mmx297mm

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

ITEM	Tag	ELF-200N1-10-L3-13	: Emergency Lighting Fixture			Dwg	123A90-DDL-EL-DL-20120
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	TP
TASK	code	C10001860		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

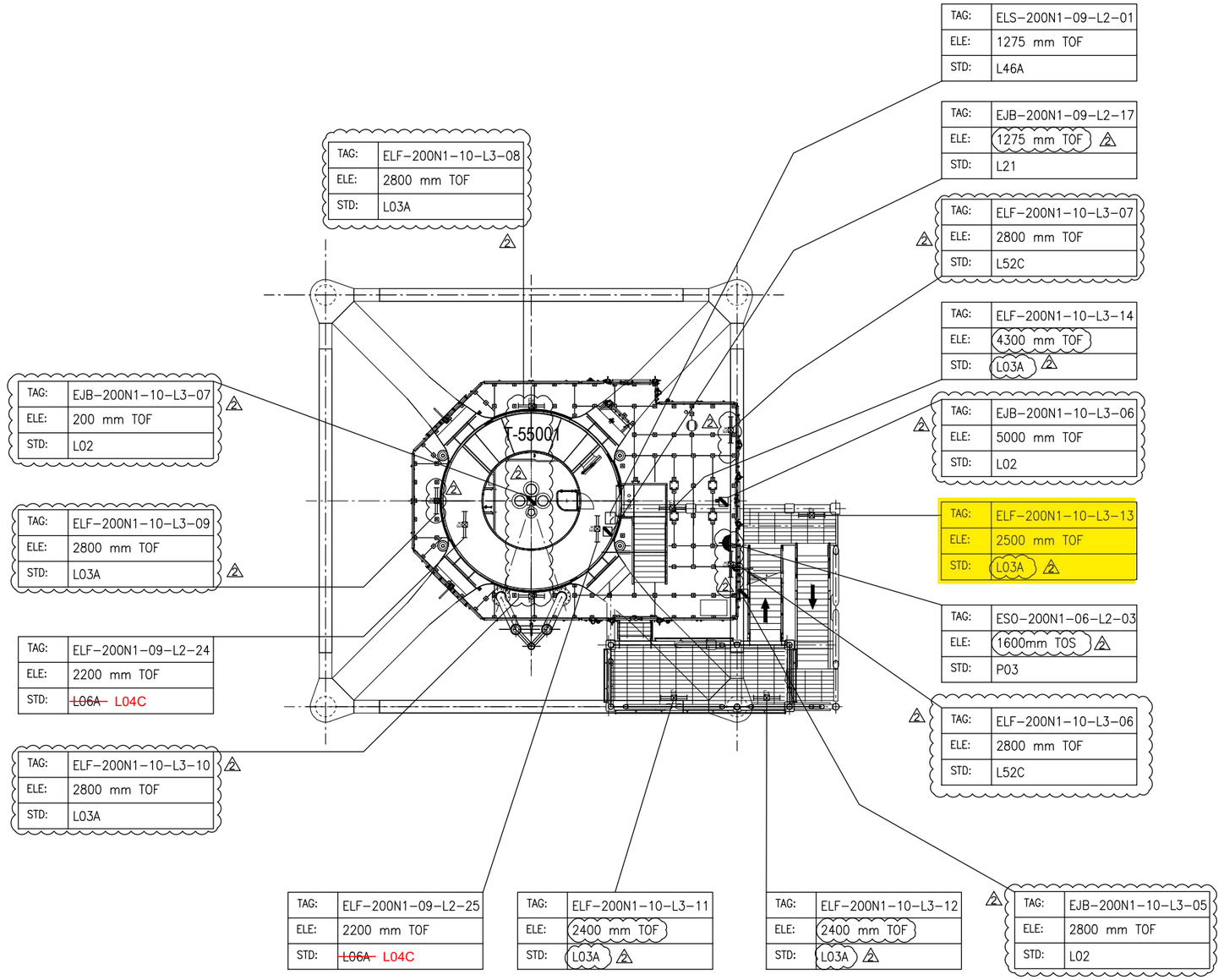
1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	OK
3	Check equipment is undamaged and correcly tagged.	OK
4	Check nameplate data is correct.	OK
5	Check all bolts are fitted and all unused entries are suitably plugged.	OK
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	OK
8	Check items are properly fixed on support.	OK
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

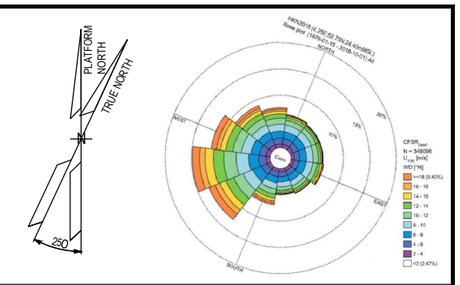
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	VIP	RM(ROSETTI MARINO)	
Name	Madhankumar Arunagiri	Giovanni Tangianu	
Date	2025-04-18	2025-04-30	
Signature	PROVERLIS Digitaly signed by Madhankumar Arunagiri 2025-04-18T06:36:14.231Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2025-04-30T08:57:46.368Z	

DRAWING NO. 123A90-DDL-EL-DL-20120

REV. 02



PLAN ON EXISTING PLATFORM AT EL.+16.860 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S / T.O.F.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. ELEVATION OR STANDARD PRESENT IN THE MASK, WHERE JB AND FIXTURE ARE SHOWN, ARE RELATIVE TO THE ORDER OF THE TAGS, 1°ROW JB AND 2°ROW FIXTURE = ELEVATION JB / ELEVATION FIXTURE.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- SMALL POWER SOCKET WITH INTEGRATED JB
- LOCAL SWITCH IP66 TYPE

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

T.O.S TOP OF STEEL
T.O.F TOP OF FOOTING (Walkway plan)

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20120**

REV.:	DATE:	SIGNATURE:
2_B	27/01/25	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-EL-DL-20102	ELECTRICAL EQUIPMENT LAYOUT - TRANSITION PIECE
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-PP-DL-70070	BASE LOAD POWER HUB (BLPH) - PLOT PLAN - LOWER AND UPPER DECK
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
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	04/06/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

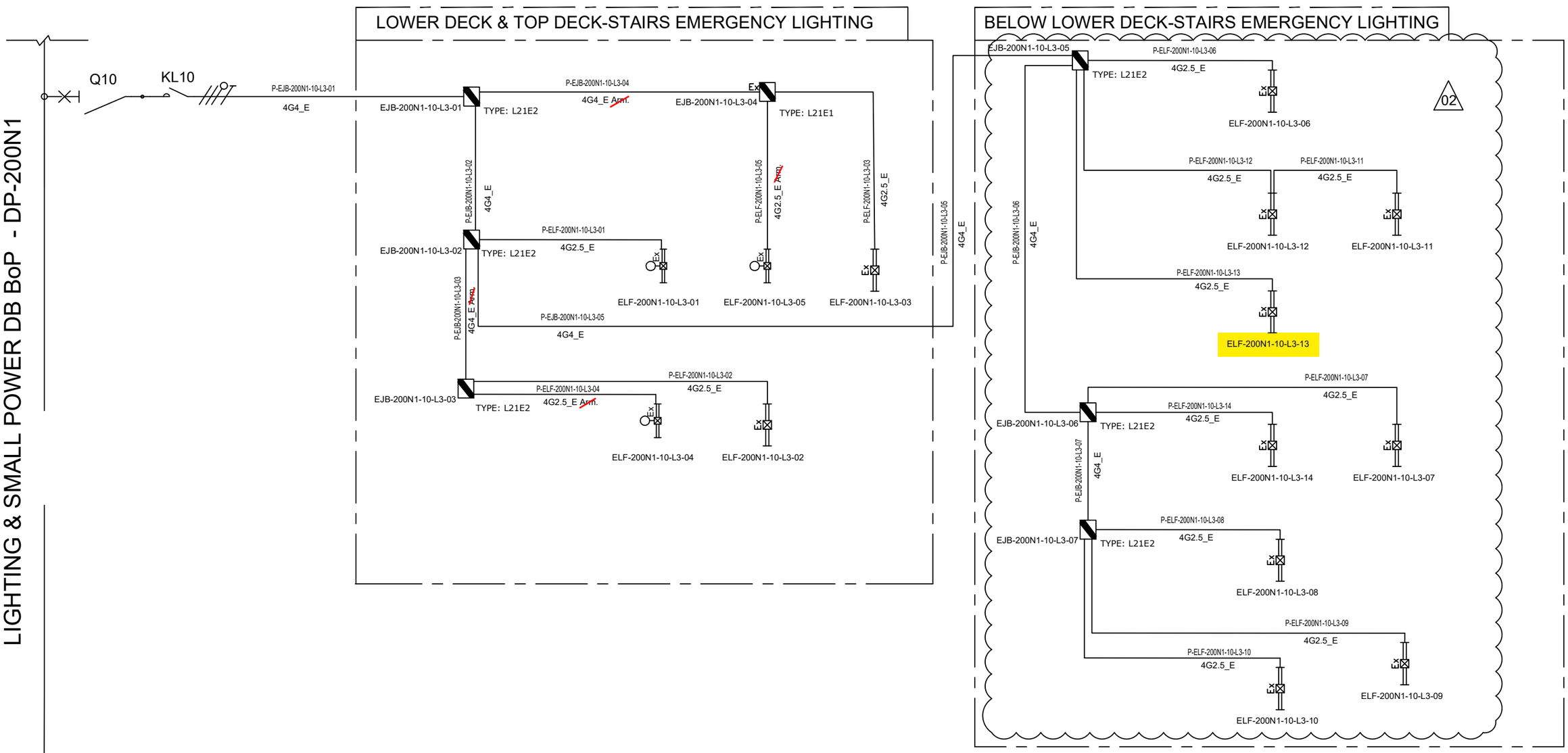
ROSETTI MARINO

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

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:100
DRAWN AMA	CHECKED CGI	APPROVED DLO	DATE 07/10/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20120	SHEET 001	REV. 02

File Name : 123A90-DDL-EL-DL-20120

LIGHTING & SMALL POWER DB BoP - DP-200N1



NOTE:	
ELF-200N1-10-L3-01	LOWER DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-02	
ELF-200N1-10-L3-03	
ELF-200N1-10-L3-04	TOP DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-05	

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

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

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
		ELF-200N1-10-L3-09			
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
STAIRS EMERGENCY LIGHTING (LOWER DECK,TOP DECK AND BELOW LOWER DECK)

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

SCALE : NTS

A3

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

SHEET 007

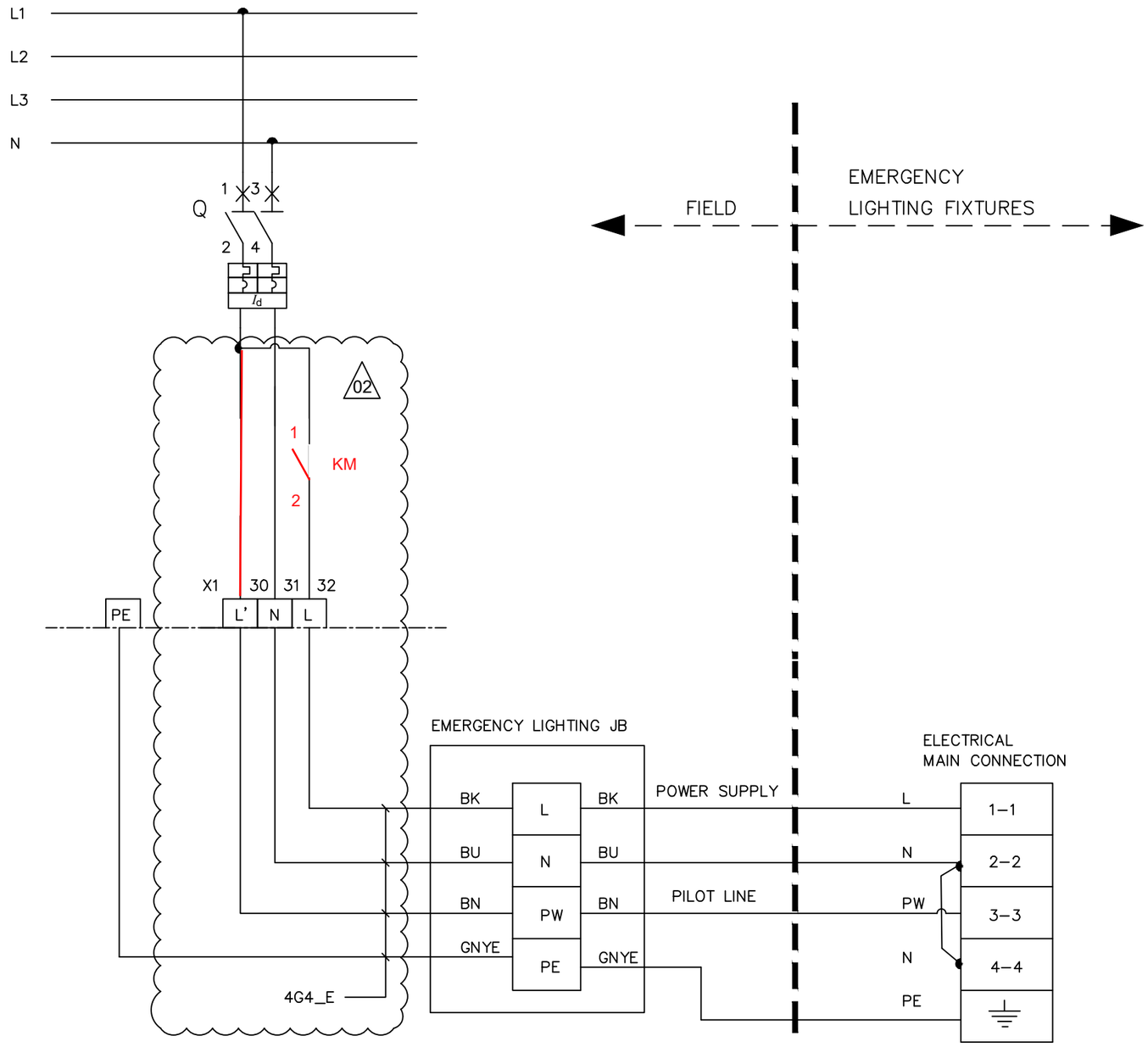
REV. 02

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

F.to UNI A3: 420mmx297mm

EMERGENCY LIGHTS WIRING DIAGRAM

DP–200N1
FOR EMERGENCY LIGHTING
INTERNAL BUS BAR 400V–230V / 50Hz



L – POWER SUPPLY
N – NEUTRAL
PW – PILOT LINE
PE – PROTECTIVE EARTH
BN – BROWN (L')
BK – BLACK (L)
BU – BLUE (N)
GNYE – GREEN/YELLOW (PE)

02

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
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
EMERGENCY LIGHTS WIRING DIAGRAM

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

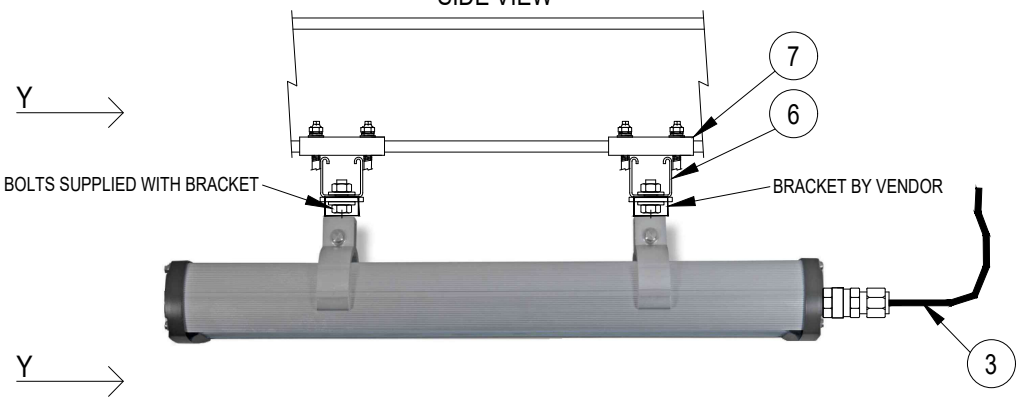
A3 | DRAWING NO. 123A90–DDL–EL–DG–20125 | SHEET 014 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

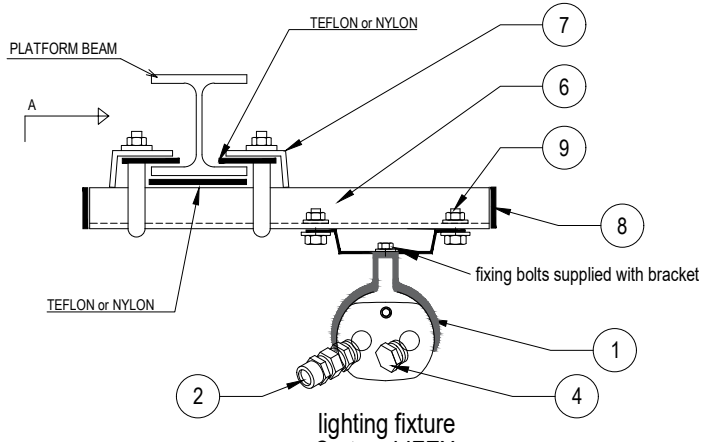
L03A

SIDE VIEW

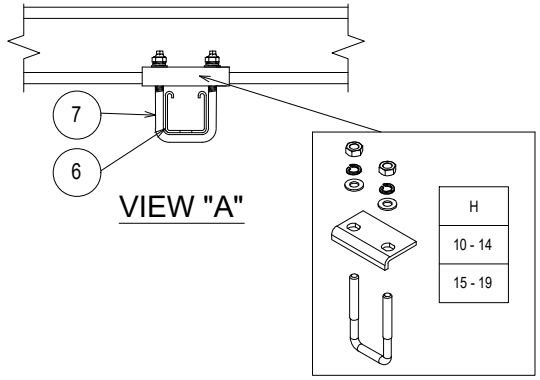


POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	LIGHITNG FIXTURE (Ex e) WITH LED LAMP	ALUMINIUM ALLOY		1	
2	CABLE GLAND (Ex) FOR ARMOURED/UNARMOURED CABLE	NICK.PL.BRASS		1	NOTE 2 NOTE 5
3	ARMOURED/UNARMOURED CABLE				NOTE 5
4	PLUG	NICK.PL.BRASS		AS REQ.	NOTE 3
6	SINGLE U-CHANNEL PERFORATED ON NO.3 SIDE	AISI 316L		AS REQ.	NOTE 1
7	SINGLE U-CHANNEL BEAM ATTACHMENT (10-14) OR (15-19) WITH COLLAR COMPLETE WITH HARDWARE	AISI 316L		4	NOTE 4
8	PLUG FOR U-CHANNEL	LPDE		4	
9	HEX. BOLT M8X16 WITH LARGE PLANE WASHER		M8x16	4	

SECTION "Y-Y"



lighting fixture
Cortem LIFEX



NOTES:

1) THE EXACT DIMENSIONS WILL BE DEFINED DURING ASSEMBLY PHASE.
2) CABLE GLAND COMPLETE WITH LOCKNUT, NYLON WASHER, SERRATED WASHER, EXTERNAL RUBBER RING AND EARTH TAG (IF NECESSARY).
3) UNUSED CABLE ENTRIES MUST BE CLOSED WITH NICKEL PLATED BRASS PLUG.
4) SINGLE U-CHANNEL BEAM ATTACHMENT (CLAMP) IS PRODUCED IN NO. 2 DIFFERENT SIZES (10-14 OR 15-19) SIZE REFERS TO THE THICKNESS OF THE BEAM WHERE THE CLAMP IS INSTALLED.
5) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–LIGHTING SYSTEM
FIXTURE SUSPENSION MOUNTED WITH CLAMPED SUPPORT

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

A3 | DRAWING NO. 123A90–DDL–EL–DD–20091 | SHEET 008 | REV. 02

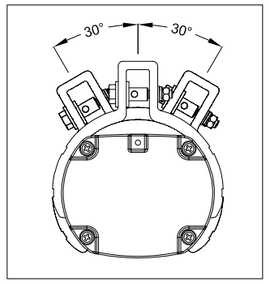
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 2
- Q.TY: 78
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

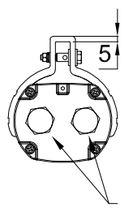
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



LF INFORMATION	
NOMINAL POWER	60W
CONSUMED POWER	40,9W
POWER FACTOR	>0,96
RATED CURRENT	185 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6218 lm
LIGHT INTENSITY	2191 cd
EFFICIENCY	152 lm/W
WEIGHT	3,5 Kg
IP PROTECTION	IP66
AUTONOMY	180 min
LUMEN EMERG. MODE	1168 lm

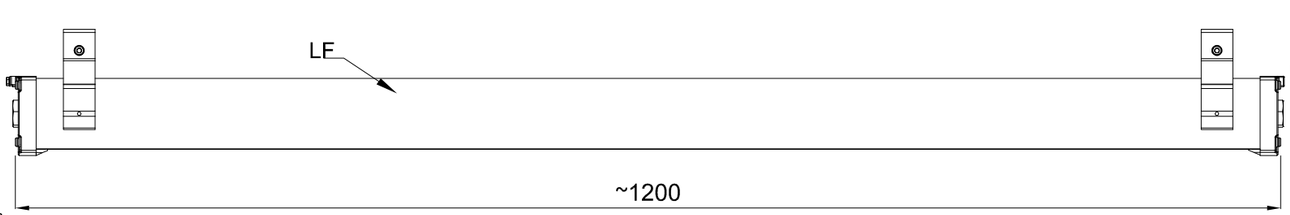
N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-1260N-BB	110-277Vac 50-60Hz 60W (RED. TO 40W) LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

LEFT SIDE (OUT)

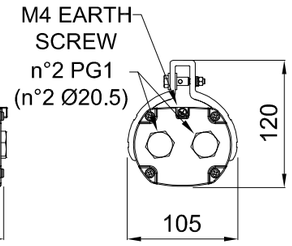


n°2 PG1
(n°2 Ø20.5)

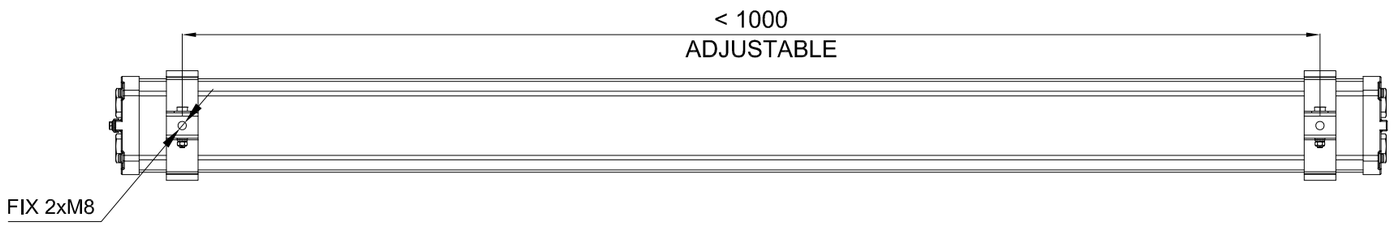
FRONT SIDE



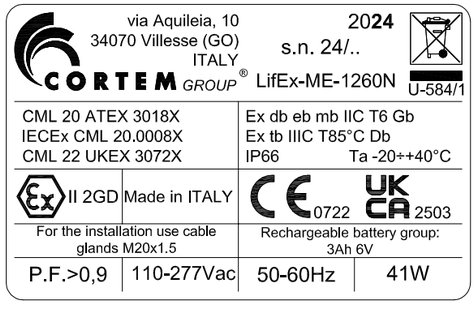
RIGHT SIDE (IN)



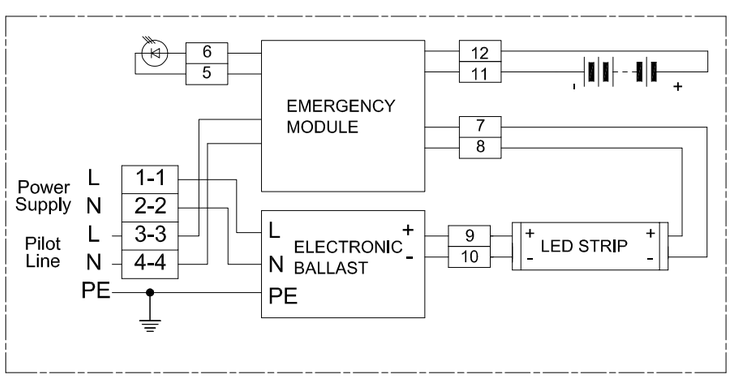
TOP SIDE



CERTIFICATE NAMEPLATE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
002 LIFEX-ME-1260N-BB/C2402693/20.

CORTEM JOB: COV2402693
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27521
SHEET 2 / TOT. 2
NEXT /

CORTEM GROUP
contem
FONDISONZO
ELFIT

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AUTHORIZATION

Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	45W LED Linear Luminaire-Emergency Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-1260N-BB		01
4	Serial Number	by vendor			00
5	Quantity	78 Nos.	78 Nos	(69+9 Spare)	01
6	Location / Module	Lower deck/Upper deck/ Below lower deck			00
7	**LED Lamp**				
8	Nominal power	45 watts	60 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Required			00
25	Battery type	NiCd internal battery, gas-tight	Ni/Mh		01
26	Autonomy	180 mins.	180 min		01
27	Emergency luminous flux	1168 lm	1168 lm		01
28	**Mechanical parameters**				
29	Dimension	by vendor	1200x105x120 (mm)		01
30	Weight	by vendor	4.5kg		01

Note:

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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ITEM	Tag	P-ELF-200N1-10-L3-14	: Emergency Lighting Fixture / Emergency Lighting Fixture		Dwg	123A90-DDL-EL-LIS-20148	
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece		Module	TP	
TASK	code	C10002066	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline Electrical	Form	CPX09	LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 4G2,5 mm2 Color GREY

From EJB-200N1-10-L3-06 To ELF-200N1-10-L3-14

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	OK
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	OK
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-ELF-200N1-10-L3-14	: Emergency Lighting Fixture / Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	TP
TASK	code	C10002066		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,3	
6		PH 2	0,3	
7		PH 3	0,3	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,3	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>1999	
11		PH2 / PH1-PH3-A-E	>1999	
12		PH3 / PH1-PH2-A-E	>1999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

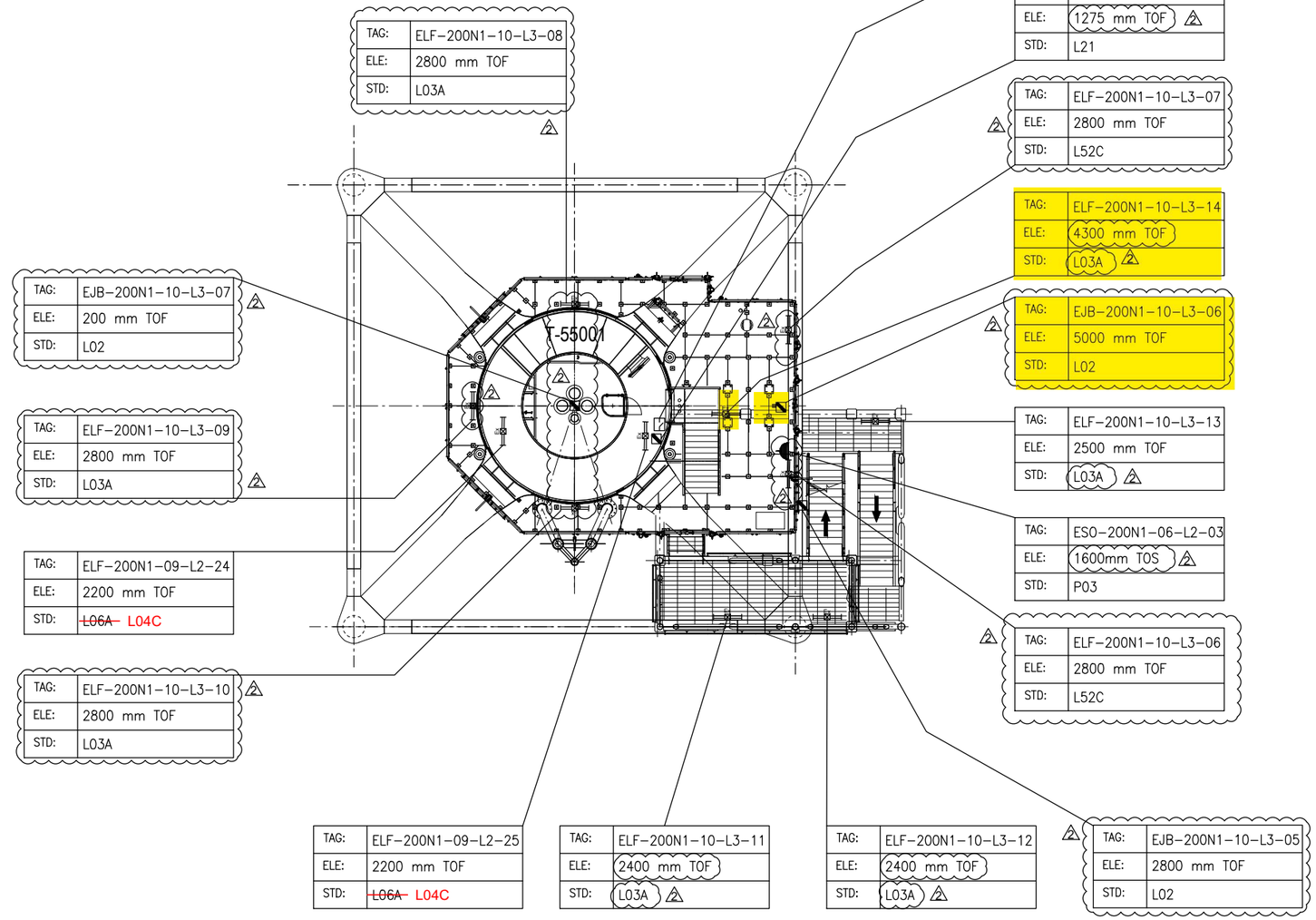
TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	VOLCRAFT 1000V - ET-200 S/N:H240103023	TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207
Calibration certificate N° and date:	N°LAT 042 00768/24 _ 12/10/2024	Calibration certificate N° and date:	N°7722/24 _ 10/07/2024

Comments:

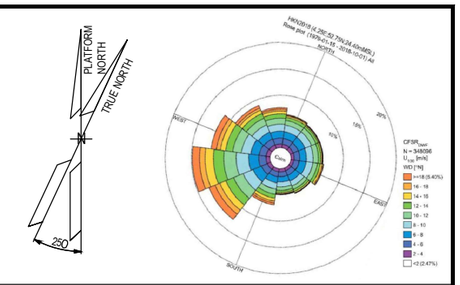
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	VIP	RM(ROSETTI MARINO)	
Name	Madhankumar Arunagiri	Giovanni Tangianu	
Date	2025-04-18	2025-05-05	
Signature	PROVERLIS Digitaly signed by Madhankumar Arunagiri 2025-04-18T06:39:26.846Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2025-05-05T11:09:43.589Z	

DRAWING NO. 123A90-DDL-EL-DL-20120

REV. 02



PLAN ON EXISTING PLATFORM AT EL.+16.860 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S / T.O.F.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. ELEVATION OR STANDARD PRESENT IN THE MASK, WHERE JB AND FIXTURE ARE SHOWN, ARE RELATIVE TO THE ORDER OF THE TAGS, 1°ROW JB AND 2°ROW FIXTURE = ELEVATION JB / ELEVATION FIXTURE.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- SMALL POWER SOCKET WITH INTEGRATED JB
- LOCAL SWITCH IP66 TYPE

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

T.O.S TOP OF STEEL
T.O.F TOP OF FOOTING (Walkway plan)

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20120**

REV.:	DATE:	SIGNATURE:
2_B	27/01/25	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-EL-DL-20102	ELECTRICAL EQUIPMENT LAYOUT - TRANSITION PIECE
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-PP-DL-70070	BASE LOAD POWER HUB (BLPH) - PLOT PLAN - LOWER AND UPPER DECK
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
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	04/06/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

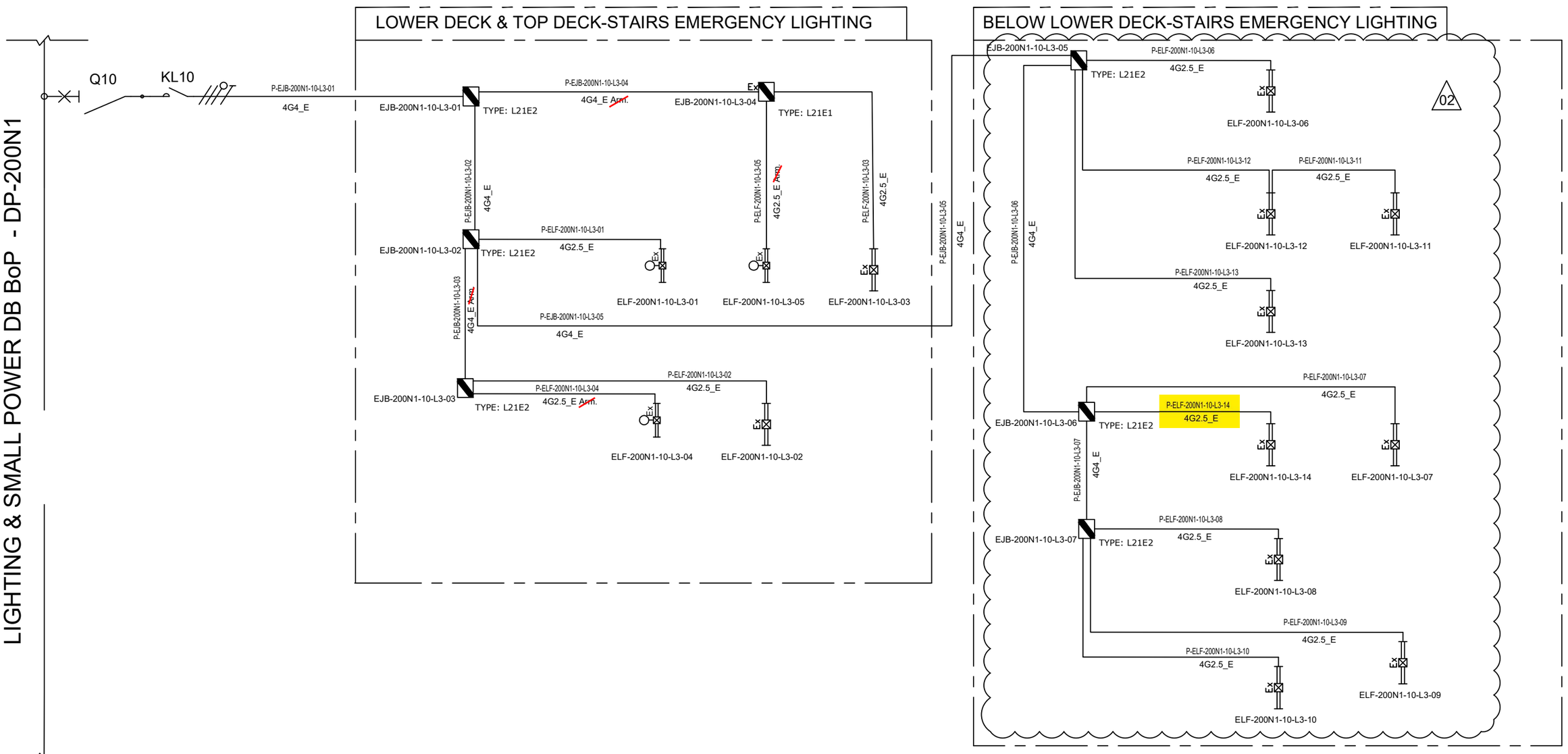
ROSETTI MARINO

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

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:100
DRAWN AMA	CHECKED CGI	APPROVED DLO	DATE 07/10/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20120	SHEET 001	REV. 02

File Name : 123A90-DDL-EL-DL-20120

LIGHTING & SMALL POWER DB BoP - DP-200N1



NOTE:	
ELF-200N1-10-L3-01	LOWER DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-02	
ELF-200N1-10-L3-03	
ELF-200N1-10-L3-04	TOP DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-05	

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

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

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
			ELF-200N1-10-L3-09		
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
STAIRS EMERGENCY LIGHTING (LOWER DECK,TOP DECK AND BELOW LOWER DECK)

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

SCALE : NTS

A3

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

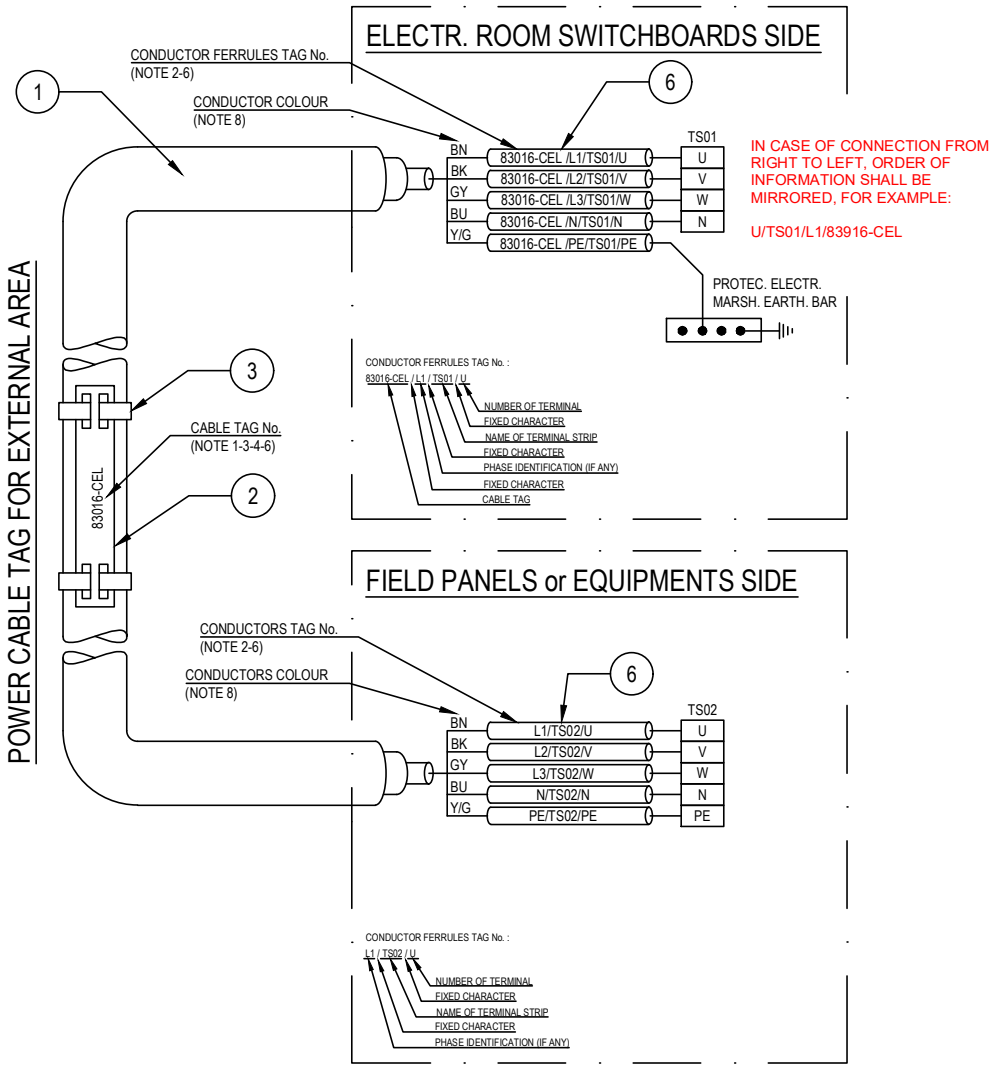
SHEET 007

REV. 02

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

F.to UNI A3: 420mmx297mm

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

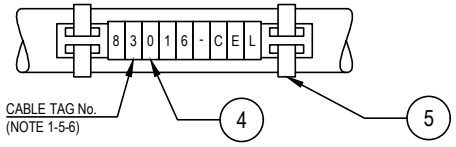
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

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

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

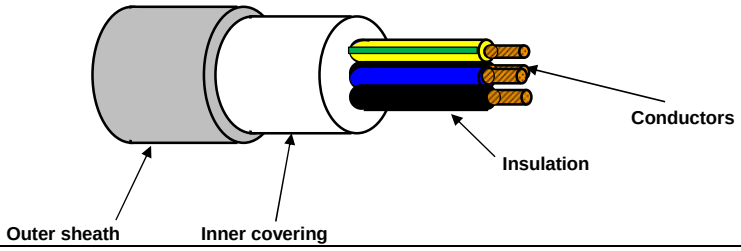
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-10-L3-14	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-10-L3-06	Emergency Lighting JB	Below Lower Deck Stairs		ELF-200N1-10-L3-14	Emergency Lighting Fixture	Below Lower Deck Stairs		ELECV12-4G2.5_E	Cable Cu Cl.2/EPR/LSZH 0.6/1kV 4G2.5mm²_E - Grey	M25	T1_M25_Single	M20	ADAP_M20Mx M25F	T1_M25_Single	M20	ADAP_M20Mx M25F		L-50-101-LVT-135 / L-150-101-LVT-081 / L-50-100-LVT-024

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G2,5_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G2,5 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(14,0 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	ELF-200N1-10-L3-14	: Emergency Lighting Fixture			Dwg	123A90-DDL-EL-DL-20120
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	TP
TASK	code	C10002076		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

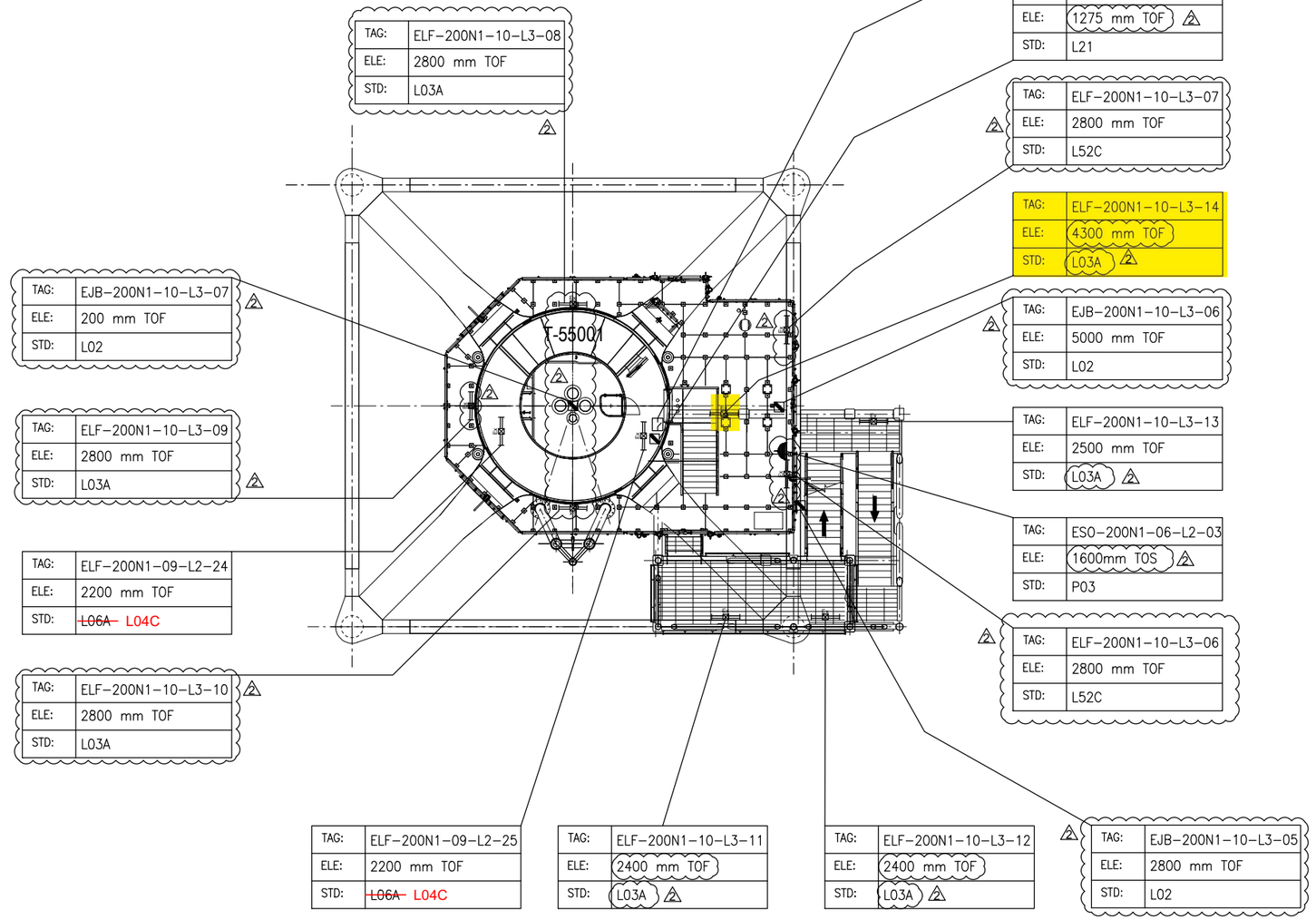
1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	OK
3	Check equipment is undamaged and correcly tagged.	OK
4	Check nameplate data is correct.	OK
5	Check all bolts are fitted and all unused entries are suitably plugged.	OK
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	OK
8	Check items are properly fixed on support.	OK
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

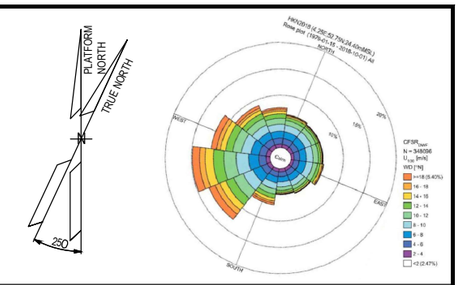
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	VIP	RM(ROSETTI MARINO)	
Name	Madhankumar Arunagiri	Giovanni Tangianu	
Date	2025-04-18	2025-05-05	
Signature	Digitaly signed by Madhankumar Arunagiri 2025-04-18T06:39:53.518Z	Digitaly signed by Giovanni Tangianu 2025-05-05T10:48:46.648Z	

DRAWING NO. 123A90-DDL-EL-DL-20120

REV. 02



PLAN ON EXISTING PLATFORM AT EL.+16.860 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S / T.O.F.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. ELEVATION OR STANDARD PRESENT IN THE MASK, WHERE JB AND FIXTURE ARE SHOWN, ARE RELATIVE TO THE ORDER OF THE TAGS, 1°ROW JB AND 2°ROW FIXTURE = ELEVATION JB / ELEVATION FIXTURE.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- SMALL POWER SOCKET WITH INTEGRATED JB
- LOCAL SWITCH IP66 TYPE

JB TAG:	JB–TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

T.O.S TOP OF STEEL
T.O.F TOP OF FOOTING (Walkway plan)

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20120**

REV.:	DATE:	SIGNATURE:
2_B	27/01/25	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-EL-DL-20102	ELECTRICAL EQUIPMENT LAYOUT - TRANSITION PIECE
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-PP-DL-70070	BASE LOAD POWER HUB (BLPH) - PLOT PLAN - LOWER AND UPPER DECK
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
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	04/06/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

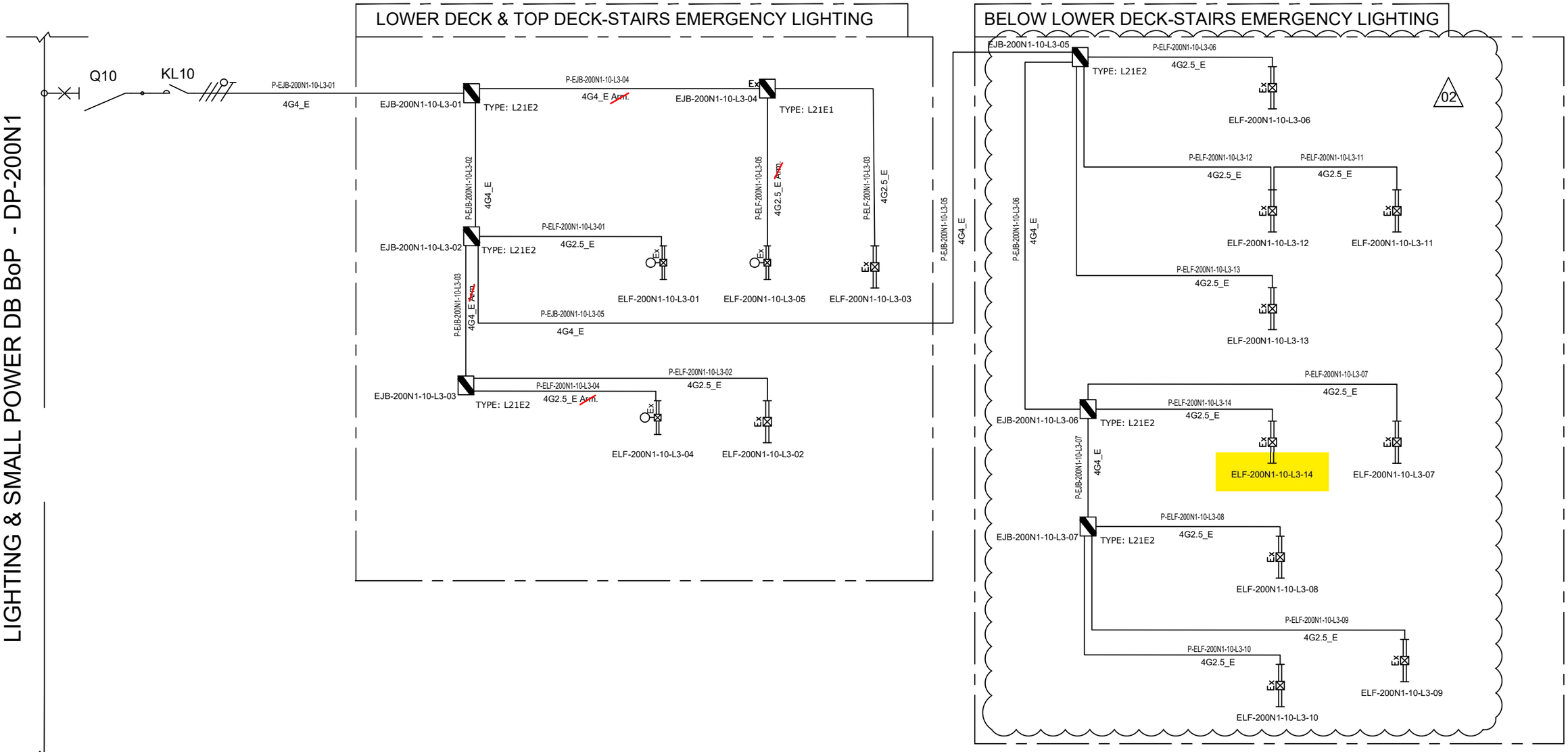
ROSETTI MARINO

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

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:100
DRAWN AMA	CHECKED CGI	APPROVED DLO	DATE 07/10/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20120	SHEET 001	REV. 02

File Name : 123A90-DDL-EL-DL-20120

LIGHTING & SMALL POWER DB BoP - DP-200N1



NOTE:	
ELF-200N1-10-L3-01	LOWER DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-02	
ELF-200N1-10-L3-03	
ELF-200N1-10-L3-04	TOP DECK-STAIRS EMERGENCY LIGHTING
ELF-200N1-10-L3-05	

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

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

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
		ELF-200N1-10-L3-09			
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
STAIRS EMERGENCY LIGHTING (LOWER DECK,TOP DECK AND BELOW LOWER DECK)

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

SCALE : NTS

A3

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

SHEET 007

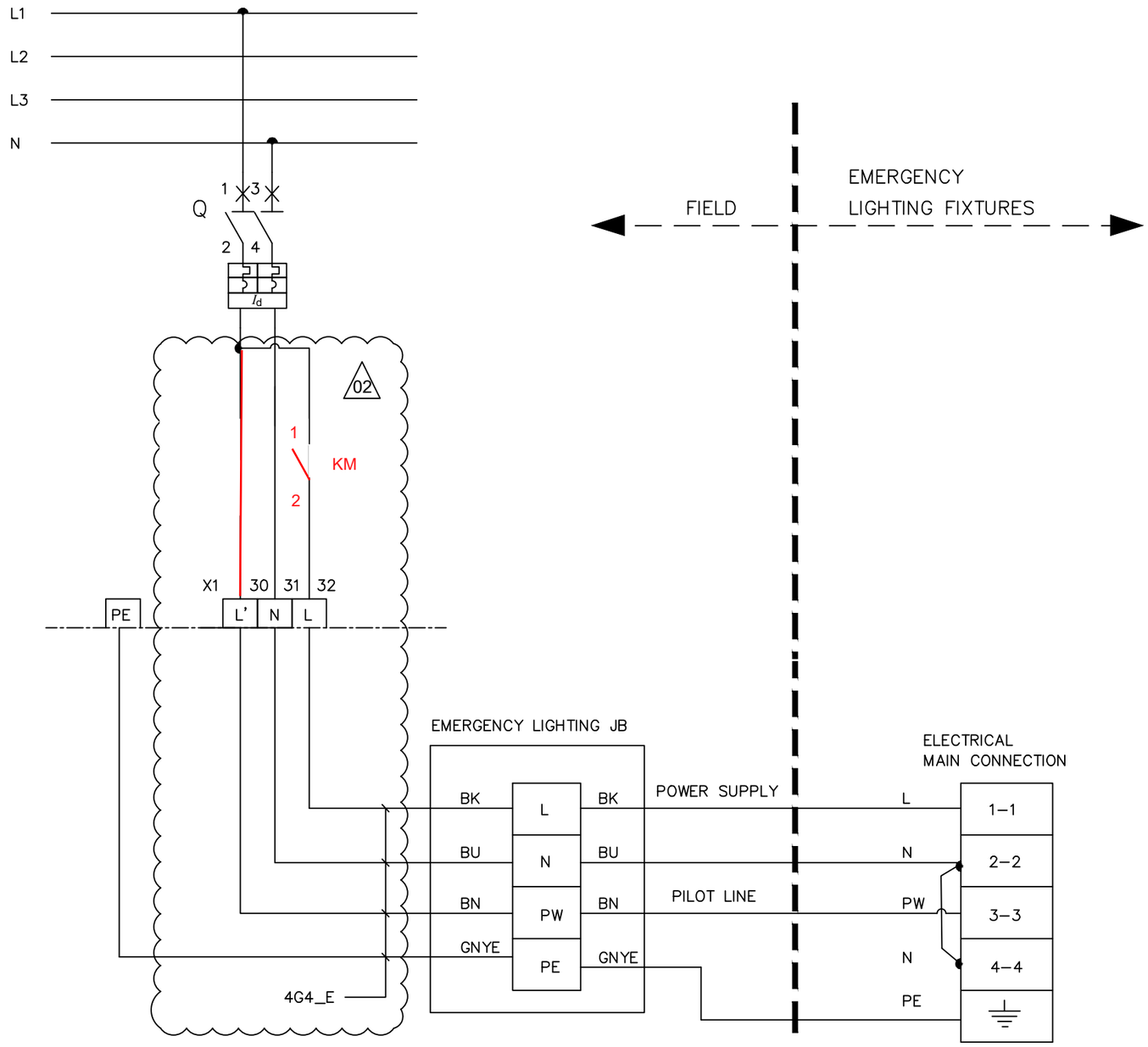
REV. 02

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

F.to UNI A3: 420mmx297mm

EMERGENCY LIGHTS WIRING DIAGRAM

DP–200N1
FOR EMERGENCY LIGHTING
INTERNAL BUS BAR 400V–230V / 50Hz



L – POWER SUPPLY
N – NEUTRAL
PW – PILOT LINE
PE – PROTECTIVE EARTH
BN – BROWN (L')
BK – BLACK (L)
BU – BLUE (N)
GNYE – GREEN/YELLOW (PE)

02

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
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
EMERGENCY LIGHTS WIRING DIAGRAM

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

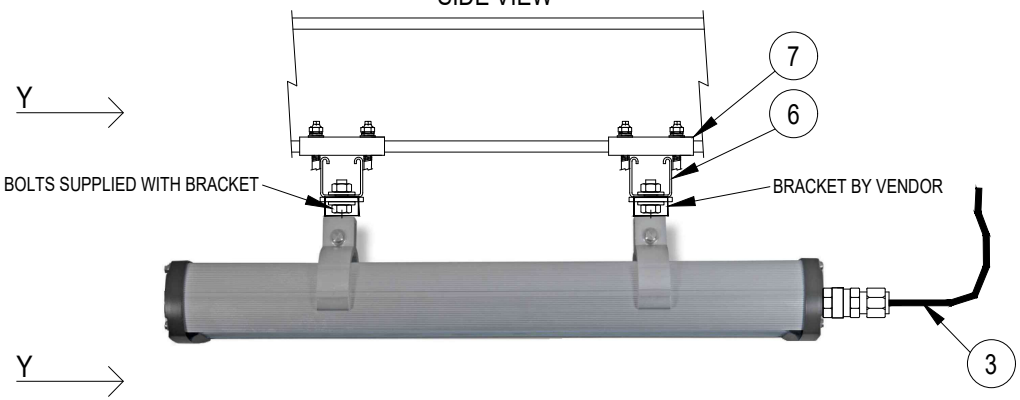
A3 | DRAWING NO. 123A90–DDL–EL–DG–20125 | SHEET 014 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

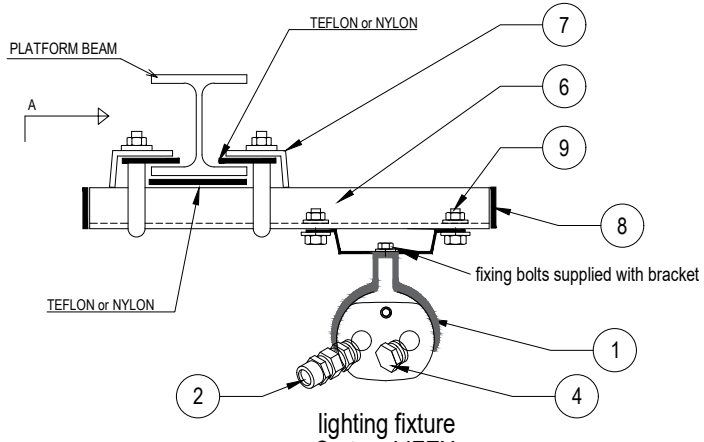
L03A

SIDE VIEW

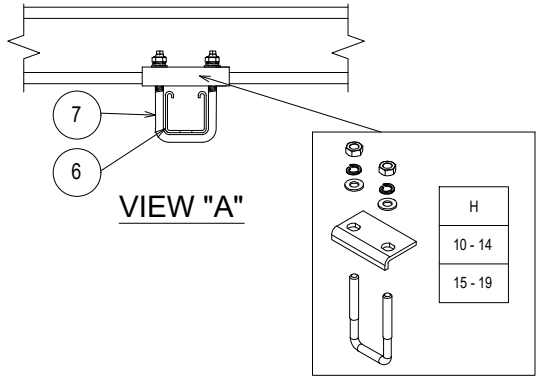


POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	LIGHITNG FIXTURE (Ex e) WITH LED LAMP	ALUMINIUM ALLOY		1	
2	CABLE GLAND (Ex) FOR ARMOURED/UNARMOURED CABLE	NICK.PL.BRASS		1	NOTE 2 NOTE 5
3	ARMOURED/UNARMOURED CABLE				NOTE 5
4	PLUG	NICK.PL.BRASS		AS REQ.	NOTE 3
6	SINGLE U-CHANNEL PERFORATED ON NO.3 SIDE	AISI 316L		AS REQ.	NOTE 1
7	SINGLE U-CHANNEL BEAM ATTACHMENT (10-14) OR (15-19) WITH COLLAR COMPLETE WITH HARDWARE	AISI 316L		4	NOTE 4
8	PLUG FOR U-CHANNEL	LPDE		4	
9	HEX. BOLT M8X16 WITH LARGE PLANE WASHER		M8x16	4	

SECTION "Y-Y"



lighting fixture
Cortem LIFEX



NOTES:

1) THE EXACT DIMENSIONS WILL BE DEFINED DURING ASSEMBLY PHASE.
2) CABLE GLAND COMPLETE WITH LOCKNUT, NYLON WASHER, SERRATED WASHER, EXTERNAL RUBBER RING AND EARTH TAG (IF NECESSARY).
3) UNUSED CABLE ENTRIES MUST BE CLOSED WITH NICKEL PLATED BRASS PLUG.
4) SINGLE U-CHANNEL BEAM ATTACHMENT (CLAMP) IS PRODUCED IN NO. 2 DIFFERENT SIZES (10-14 OR 15-19) SIZE REFERS TO THE THICKNESS OF THE BEAM WHERE THE CLAMP IS INSTALLED.
5) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–LIGHTING SYSTEM
FIXTURE SUSPENSION MOUNTED WITH CLAMPED SUPPORT

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

A3 | DRAWING NO. 123A90–DDL–EL–DD–20091 | SHEET 008 | REV. 02

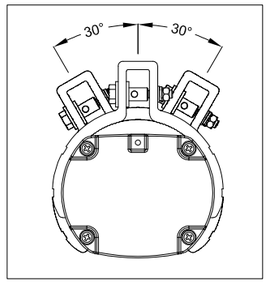
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 2
- Q.TY: 78
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

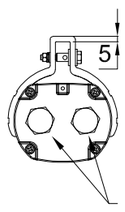
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



LF INFORMATION	
NOMINAL POWER	60W
CONSUMED POWER	40,9W
POWER FACTOR	>0,96
RATED CURRENT	185 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6218 lm
LIGHT INTENSITY	2191 cd
EFFICIENCY	152 lm/W
WEIGHT	3,5 Kg
IP PROTECTION	IP66
AUTONOMY	180 min
LUMEN EMERG. MODE	1168 lm

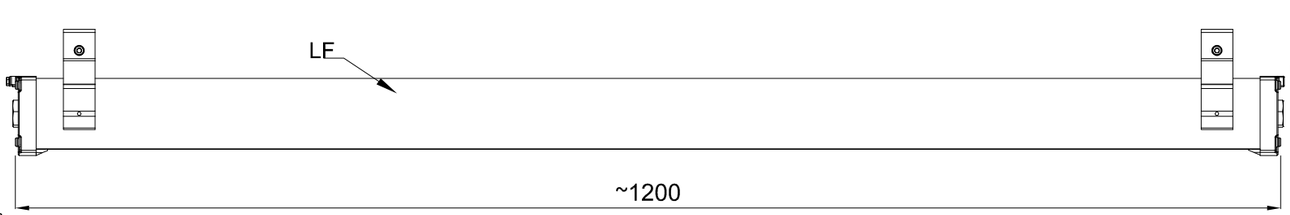
N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-1260N-BB	110-277Vac 50-60Hz 60W (RED. TO 40W) LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

LEFT SIDE (OUT)

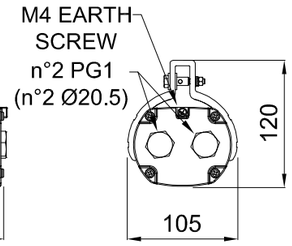


n°2 PG1
(n°2 Ø20.5)

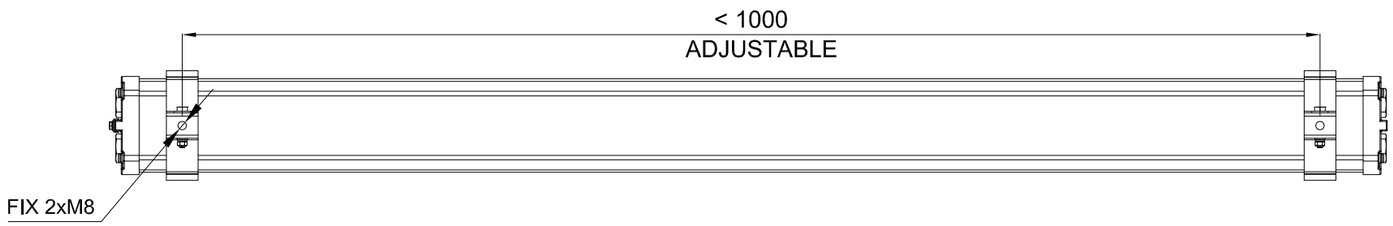
FRONT SIDE



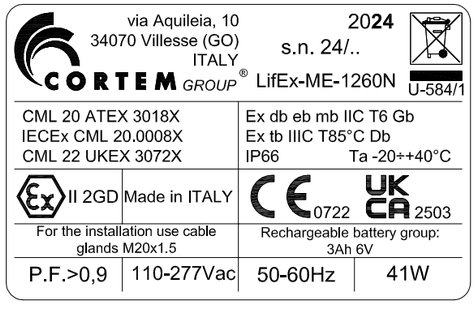
RIGHT SIDE (IN)



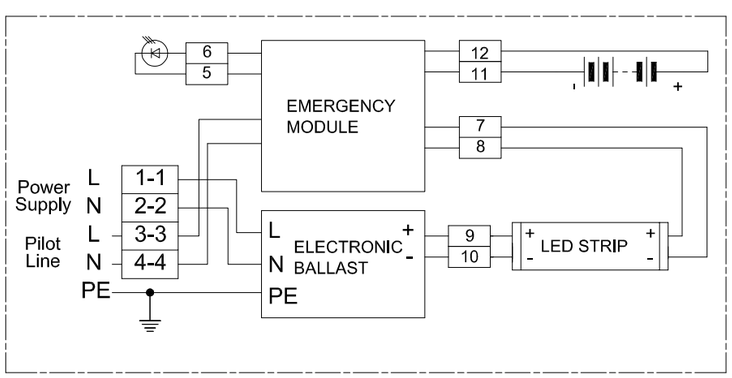
TOP SIDE



CERTIFICATE NAMEPLATE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
002 LIFEX-ME-1260N-BB/C2402693/20.

CORTEM JOB: COV2402693
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27521
SHEET 2 / TOT. 2
NEXT /

CORTEM GROUP
contem
FONDISONZO
ELFIT

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AND IT CANNOT BE REPRODUCED WITHOUT CORTEM'S
AUTHORIZATION

Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	45W LED Linear Luminaire-Emergency Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-1260N-BB		01
4	Serial Number	by vendor			00
5	Quantity	78 Nos.	78 Nos	(69+9 Spare)	01
6	Location / Module	Lower deck/Upper deck/ Below lower deck			00
7	**LED Lamp**				
8	Nominal power	45 watts	60 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Required			00
25	Battery type	NiCd internal battery, gas-tight	Ni/Mh		01
26	Autonomy	180 mins.	180 min		01
27	Emergency luminous flux	1168 lm	1168 lm		01
28	**Mechanical parameters**				
29	Dimension	by vendor	1200x105x120 (mm)		01
30	Weight	by vendor	4.5kg		01

Note:

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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ITEM	Tag	P-EJB-200N1-10-L3-05	: Stair Emergency Lighting JB / Stair Emergency Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	LD/TP
TASK	code	C10004680		Location	Offshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 5G4_E mm2 Color GREY

From EJB-200N1-10-L3-02 To EJB-200N1-10-L3-05

1	Confirm cable is as specified in project cable schedule
2	Visual Check cable physical integrity.
3	Check is installed in accordance with layout drawing (segregation, distance…).
4	Check cable is supported and fixed to rack according to project specification.
5	Check bending radius is within the specified limits.
6	Confirm cable glands suit for cable type, correctly mounted and tightened.
7	Check gland plate for single core cables is non ferrous (non -magnetic).
8	Confirm cable labelling is in accordance with specifications.
9	Check cable is correctly loomed and segregated in accordance with specification.
10	Check cable earthing against lastest drawings.
11	Check cores marking are in accordance with termination diagram
12	Check terminations are in accordance with latest termination diagram
13	If required produce Red Line Mark Up for "AS BUILT"

REFER TO FINAL SHEET FOR ACCEPTANCE

ITEM	Tag	P-EJB-200N1-10-L3-05	: Stair Emergency Lighting JB / Stair Emergency Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	LD/TP
TASK	code	C10004680	Location	Offshore Activities		User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1		
6		PH 2		
7		PH 3		
8	ARMOUR CONTINUITY Ω			
9	PROTECTIVE CONDUCTOR CONTINUITY Ω			
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E		
11		PH2 / PH1-PH3-A-E		
12		PH3 / PH1-PH2-A-E		
13	CABLE IS CORRECTLY RE-CONNECTED.			

TESTING INSTRUMENTS USED	
TYPE / SERIAL N° : Calibration certificate N° and date:	TYPE / SERIAL N° : Calibration certificate N° and date:

Comments:

Page 2/2	Performed by	☐ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company			
Name			
Date			
Signature			

ITEM	Tag	P-EJB-200N1-10-L3-02	: Stair Emergency Lighting JB / Stair Emergency Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	LD
TASK	code	C10004921		Location	Offshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 4G4_E mm2 Color GREY

From EJB-200N1-10-L3-01 To EJB-200N1-10-L3-02

1	Confirm cable is as specified in project cable schedule
2	Visual Check cable physical integrity.
3	Check is installed in accordance with layout drawing (segregation, distance…).
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REFER TO FINAL SHEET FOR ACCEPTANCE

ITEM	Tag	P-EJB-200N1-10-L3-02	: Stair Emergency Lighting JB / Stair Emergency Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	LD
TASK	code	C10004921		Location	Offshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1		
6		PH 2		
7		PH 3		
8	ARMOUR CONTINUITY Ω			
9	PROTECTIVE CONDUCTOR CONTINUITY Ω			
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E		
11		PH2 / PH1-PH3-A-E		
12		PH3 / PH1-PH2-A-E		
13	CABLE IS CORRECTLY RE-CONNECTED.			

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Comments:

Page 2/2	Performed by	☐ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
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Name			
Date			
Signature			

ITEM	Tag	P-EJB-200N1-10-L3-03	: Stair Emergency Lighting JB / Stair Emergency Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	LD/UD
TASK	code	C10004922		Location	Offshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 4G4_E mm2 Color GREY

From EJB-200N1-10-L3-02 To EJB-200N1-10-L3-03

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ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-EJB-200N1-10-L3-03	: Stair Emergency Lighting JB / Stair Emergency Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	LD/UD
TASK	code	C10004922		Location	Offshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1		
6		PH 2		
7		PH 3		
8	ARMOUR CONTINUITY Ω			
9	PROTECTIVE CONDUCTOR CONTINUITY Ω			
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E		
11		PH2 / PH1-PH3-A-E		
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13	CABLE IS CORRECTLY RE-CONNECTED.			

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Comments:

	Performed by	☐ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company			
Name			
Date			
Signature			

Section 6 MECHANICAL COMPLETION STATUS INDEX - INSTRUMENTAL DISCIPLINE

NOT APPLICABLE

Section 7 MECHANICAL COMPLETION STATUS INDEX - MECHANICAL DISCIPLINE

NOT APPLICABLE

Section 8 MECHANICAL COMPLETION STATUS INDEX - TELECOMMUNICATION DISCIPLINE

NOT APPLICABLE

Section 9 MECHANICAL COMPLETION STATUS INDEX - HVAC DISCIPLINE

NOT APPLICABLE

Section 10 MECHANICAL COMPLETION STATUS INDEX - PIPING DISCIPLINE

NOT APPLICABLE

Section 11 MECHANICAL COMPLETION INDEX - SAFETY DISCIPLINE

NOT APPLICABLE

Section 12 FAT / VENDOR REPORTS

NOT APPLICABLE

Section 13 MECHANICAL COMPLETION CHANGES / MARK-UPS

NOT APPLICABLE