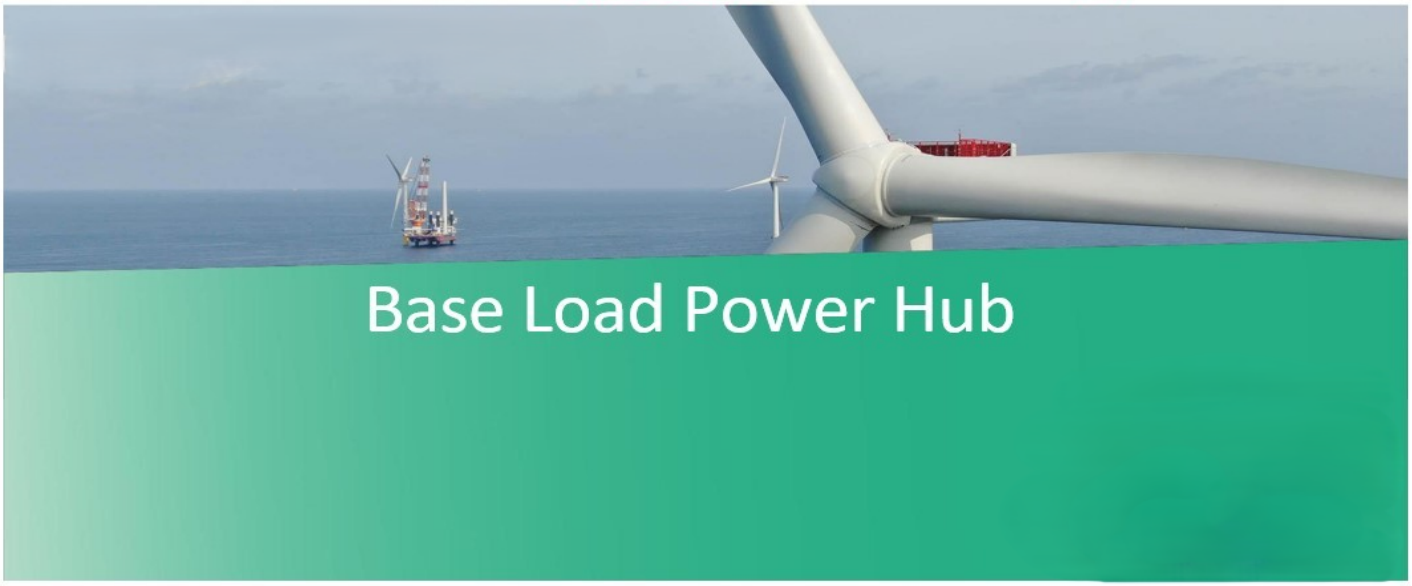
CROSSWIND

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	83-99 400 V Temporary Yard Supply

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

Sub System N°:	83-99	Tick as appropriate	ONSHORE	O
Description:	400 V Temporary Yard Supply		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:	1		Issued on:	2024-09-20	
System:	83	/	Main Power Distribution Low Voltage 440 V		
SubSystem:	83-99	/	400 V Temporary Yard Supply		

1	COMPANY has 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: 0	B: 0

REMARKS:

	CONTRACTOR Construction Manager	CONTRACTOR Commissioning Manager	COMPANY Construction Lead	COMPANY Commissioning Lead
Name	Wolmer Borghi	Anthony Iveson	CPY NOT PRESENT	CPY NOT PRESENT
Date	2024-09-21	2024-09-21	2025-03-17	2025-03-17
Signature	PROVERLIS Digitaly signed by Wolmer Borghi 2024-09-21T10:09:23.131Z	PROVERLIS Digitaly signed by Anthony Iveson 2024-09-21T10:06:48.368Z	PROVERLIS Digitaly signed by CPY NOT PRESEN 2025-03-17T14:14:06.526Z	PROVERLIS Digitaly signed by CPY NOT PRESEN 2025-03-17T14:14:18.049Z

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on system: 83 & subsystem: 83-99 & task location: ONSHORE & process: MC

Electrical	83-99 400 V Temporary Yard Supply

ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
83010-CEL-L1-TEMP	JB-200E2 / SG-200N1	ONSHORE	C10003038	CPX09	100	2024-09-20	RFC 1
83010-CEL-L2-TEMP	JB-200E2 / SG-200N1	ONSHORE	C10003039	CPX09	100	2024-09-20	RFC 1
83010-CEL-L3-TEMP	JB-200E2 / SG-200N1	ONSHORE	C10003040	CPX09	100	2024-09-20	RFC 1
83010-CEL-N-TEMP	JB-200E2 / SG-200N1	ONSHORE	C10003041	CPX09	100	2024-09-20	RFC 1
83010-CEL-PE-TEMP	JB-200E2 / SG-200N1	ONSHORE	C10003042	CPX09	100	2024-09-20	RFC 1
JB-200E2_TEMP	Temporary Junction Box	ONSHORE	C10003043	CPX31	100	2024-09-20	RFC 1
P-EJB-L1-TEMP	YARD_BRK-01 / JB-200E2	ONSHORE	C10003033	CPX09	100	2024-09-20	RFC 1
P-EJB-L2-TEMP	YARD_BRK-01 / JB-200E2	ONSHORE	C10003034	CPX09	100	2024-09-20	RFC 1
P-EJB-L3-TEMP	YARD_BRK-01 / JB-200E2	ONSHORE	C10003035	CPX09	100	2024-09-20	RFC 1
P-EJB-N-TEMP	YARD_BRK-01 / JB-200E2	ONSHORE	C10003036	CPX09	100	2024-09-20	RFC 1
P-EJB-PE-TEMP	YARD_BRK-01 / JB-200E2	ONSHORE	C10003037	CPX09	100	2024-09-20	RFC 1

Project CROSSWIND

PUNCH LIST REPORT

NO DATA AVAILABLE

Section 2 CONSOLIDATED PUNCH LISTS

Project CROSSWIND

PUNCH LIST REPORT

NO DATA AVAILABLE

Section 3 SYSTEM,SUB-SYSTEM LIMIT DRAWINGS

yard service power supply breaker

Level 0

P-EJB-L1-TEMP
P-EJB-L2-TEMP
P-EJB-L3-TEMP
P-EJB-N-TEMP
P-EJB-PE-TEMP

3x(1x95)+N1x95+PE1x95

JB-200E2_TEMP
(temporary)

Lower Deck

83010-CEL-L1-TEMP
83010-CEL-L2-TEMP
83010-CEL-L3-TEMP
83010-CEL-N-TEMP
83010-CEL-PE-TEMP

3x(1x95)+N1x95+PE1x95
(Permanent)

SG-200N1
Main Switchboard (Permanent)

A2/+08

Lower Deck

ITRs that will need to be done:

- 10 ITRs-A for the cables (MC)
- 1 ITR-A for the TEMP JB (MC)
- 1 ITR-B for the Yard Breaker (COMM)
- 1 ITR-B for the TEMP JB (COMM)

Project: CROSSWIND

Temporary Yard Power Supply
SINGLE LINE DIAGRAM

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: 83-99 & process: MC & discipline : E

Electrical	83-99 400 V Temporary Yard Supply						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
83010-CEL-L1-TEMP	JB-200E2 / SG-200N1	ONSHORE	C10003038	CPX09	100	2024-09-20	RFC 1
83010-CEL-L2-TEMP	JB-200E2 / SG-200N1	ONSHORE	C10003039	CPX09	100	2024-09-20	RFC 1
83010-CEL-L3-TEMP	JB-200E2 / SG-200N1	ONSHORE	C10003040	CPX09	100	2024-09-20	RFC 1
83010-CEL-N-TEMP	JB-200E2 / SG-200N1	ONSHORE	C10003041	CPX09	100	2024-09-20	RFC 1
83010-CEL-PE-TEMP	JB-200E2 / SG-200N1	ONSHORE	C10003042	CPX09	100	2024-09-20	RFC 1
JB-200E2_TEMP	Temporary Junction Box	ONSHORE	C10003043	CPX31	100	2024-09-20	RFC 1
P-EJB-L1-TEMP	YARD_BRK-01 / JB-200E2	ONSHORE	C10003033	CPX09	100	2024-09-20	RFC 1
P-EJB-L2-TEMP	YARD_BRK-01 / JB-200E2	ONSHORE	C10003034	CPX09	100	2024-09-20	RFC 1
P-EJB-L3-TEMP	YARD_BRK-01 / JB-200E2	ONSHORE	C10003035	CPX09	100	2024-09-20	RFC 1
P-EJB-N-TEMP	YARD_BRK-01 / JB-200E2	ONSHORE	C10003036	CPX09	100	2024-09-20	RFC 1
P-EJB-PE-TEMP	YARD_BRK-01 / JB-200E2	ONSHORE	C10003037	CPX09	100	2024-09-20	RFC 1

ITEM	Tag	P-EJB-L1-TEMP	: YARD_BRK-01 / JB-200E2			Dwg	
	S/Sys	83-99	: 400 V Temporary Yard Supply			Module	
TASK	code	C10003033		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type: Flame Retardant | Cores/Size mm²: 1CX95 | Color: GREY

From: YARD_BRK_01 | To: JB_200E2_TEMP

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).	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"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-EJB-L1-TEMP	: YARD_BRK-01 / JB-200E2			Dwg	
	S/Sys	83-99	: 400 V Temporary Yard Supply			Module	
TASK	code	C10003033		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	N/A	
7		PH 3	N/A	
8	ARMOUR CONTINUITY Ω		N/A	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		N/A	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>1G	
11		PH2 / PH1-PH3-A-E	N/A	
12		PH3 / PH1-PH2-A-E	N/A	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

TYPE / SERIAL N° :	KEW3125A/ Serial:W8330207	TYPE / SERIAL N° :	Fluke/Serial:AW1/08(17140769)
Calibration certificate N° and date:	7722/24Date:10/07/24	Calibration certificate N° and date:	7715/24 date:10/07/24

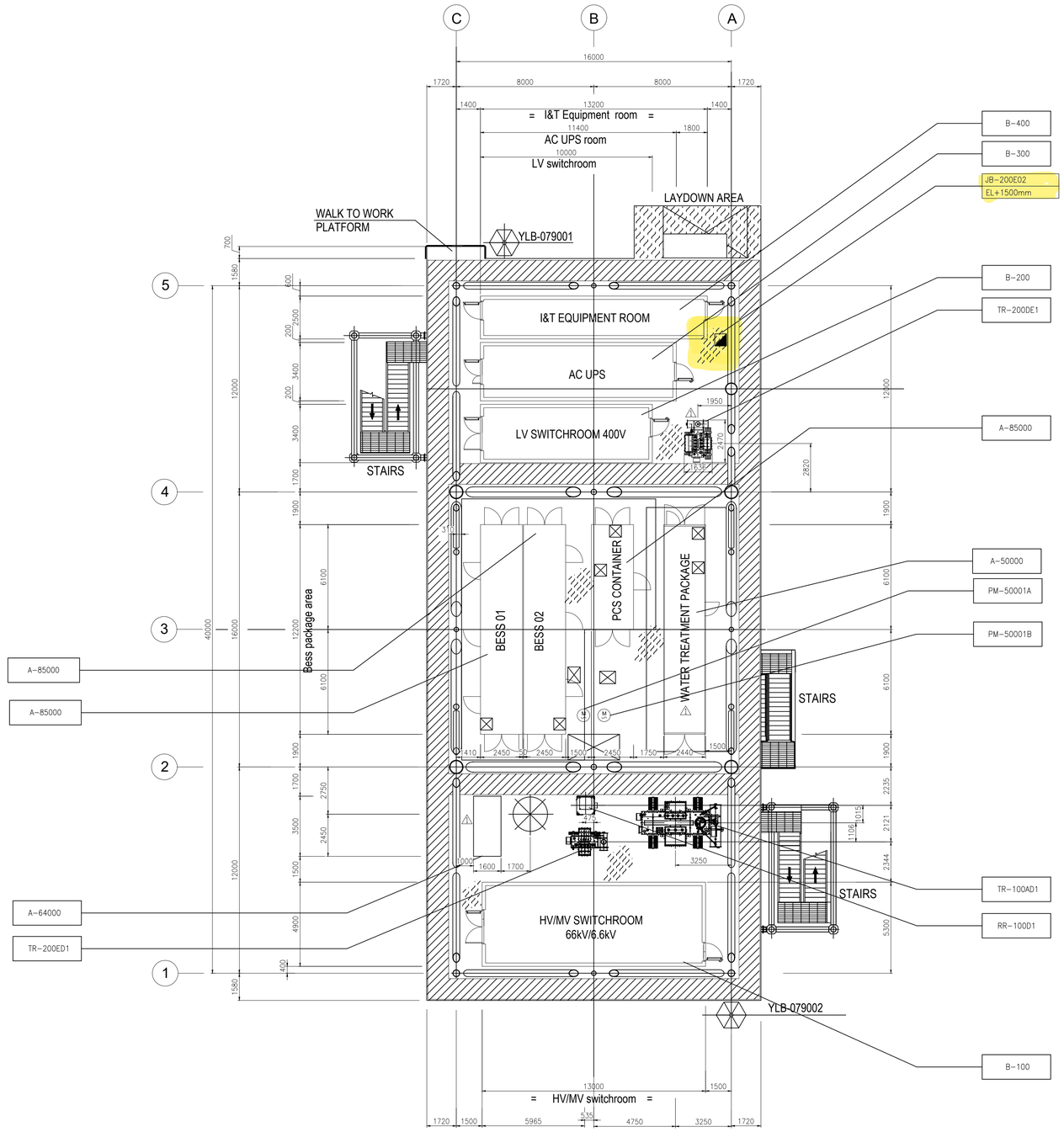
Comments:

	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS Impianti	RM (Rosetti Marino)	
Name	Carmelo Bongiovanni	Giovanni Tangianu	
Date	2024-09-13	2024-09-20	
Signature	PROVERLIS Digitaly signed by Carmelo Bongiovanni 2024-09-13T07:11:57.604Z	Firma Digitale Sicura Giovanni Tangianu 2024-09-20T11:26:06+0200	

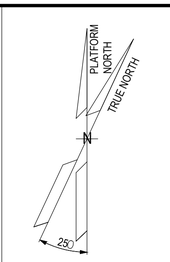
ITEM CODE	ITEM description	ITEM discipline	FROM ITEM	FROM description	TO ITEM	TO description	Cable Type/Section_Tubing Type/section	Cable Lenght [m]
P-EJB-L1-TEMP	YARD_BRK-01 / JB-200E2	E	YARD_BRK-01	Yard service power supply breaker	JB-200E2_TEMP	Temporary Junction Box	1X95	22
P-EJB-L2-TEMP	YARD_BRK-01 / JB-200E2	E	YARD_BRK-01	Yard service power supply breaker	JB-200E2_TEMP	Temporary Junction Box	1X95	22
P-EJB-L3-TEMP	YARD_BRK-01 / JB-200E2	E	YARD_BRK-01	Yard service power supply breaker	JB-200E2_TEMP	Temporary Junction Box	1X95	22
P-EJB-N-TEMP	YARD_BRK-01 / JB-200E2	E	YARD_BRK-01	Yard service power supply breaker	JB-200E2_TEMP	Temporary Junction Box	1X95	22
P-EJB-PE-TEMP	YARD_BRK-01 / JB-200E2	E	YARD_BRK-01	Yard service power supply breaker	JB-200E2_TEMP	Temporary Junction Box	1G95	22
83010-CEL-L1-TEMP	JB-200E2 / SG-200N1	E	JB-200E2_TEMP	Temporary Junction Box	SG-200N1	LV 0,4 kV MCC Switchgear	1X95	31
83010-CEL-L2-TEMP	JB-200E2 / SG-200N1	E	JB-200E2_TEMP	Temporary Junction Box	SG-200N1	LV 0,4 kV MCC Switchgear	1X95	31
83010-CEL-L3-TEMP	JB-200E2 / SG-200N1	E	JB-200E2_TEMP	Temporary Junction Box	SG-200N1	LV 0,4 kV MCC Switchgear	1X95	31
83010-CEL-N-TEMP	JB-200E2 / SG-200N1	E	JB-200E2_TEMP	Temporary Junction Box	SG-200N1	LV 0,4 kV MCC Switchgear	1X95	31
83010-CEL-PE-TEMP	JB-200E2 / SG-200N1	E	JB-200E2_TEMP	Temporary Junction Box	SG-200N1	LV 0,4 kV MCC Switchgear	1G95	31

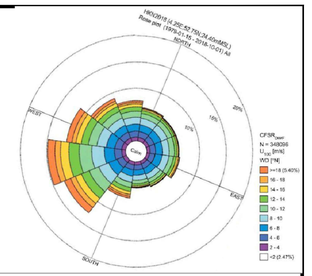
DRAWING NO. 123A90-DDL-EL-DL-20101

REV. 01



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





NOTES

1. ALL DIMENSIONS IN MM UNLESS NOTED OTHERWISE.
2. ALL ELEVATIONS IN METERS. UNLESS NOTED OTHERWISE.
3. ELEVATIONS REFER TO T.O.S.
4. FOR ELECTRICAL EQUIPMENT LAYOUT OF CONTAINERS B-100, B-200, B-300, B-400 REFER TO THE RESPECTIVE LAYOUTS.

LEGEND

(M)	ELECTRIC MOTOR – LOW VOLTAGE
⊠	INTERFACE PANEL
◪	JUNCTION BOX
JB-200E2 / EL+500mm	TAG ITEM / REFERED ELEVATION TO T.O.S. (TOP OF STEEL)

HOLDS

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20106	ELECTRICAL EQUIPMENT LAYOUT UPSs & BATTERIES SWITCHROOM
123A90-DDL-IN-DL-40012	ITER EQUIPMENT LAYOUT
123A90-DDL-EL-DL-20104	ELECTRICAL EQUIPMENT LAYOUT HV & MV SWITCHROOM
123A90-DDL-EL-DL-20105	LV SWITCHGEAR ROOM EQUIPMENT LAYOUT

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/05/24	SAM	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	04/03/24	SAM	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20101**

REV.:	DATE:	SIGNATURE:
1_A	08/08/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL EQUIPMENT LAYOUT
LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN SAM	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 04/03/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20101	SHEET 001	REV. 01

File Name : 123A90-DDL-EL-DL-20101-Electrical Equipment Layout – Lower Deck

yard service power supply breaker

Level 0

P-EJB-L1-TEMP
P-EJB-L2-TEMP
P-EJB-L3-TEMP
P-EJB-N-TEMP
P-EJB-PE-TEMP

3x(1x95)+N1x95+PE1x95

JB-200E2_TEMP
(temporary)

Lower Deck

83010-CEL-L1-TEMP
83010-CEL-L2-TEMP
83010-CEL-L3-TEMP
83010-CEL-N-TEMP
83010-CEL-PE-TEMP

3x(1x95)+N1x95+PE1x95
(Permanent)

SG-200N1
Main Switchboard (Permanent)
A2/+08

Lower Deck

ITRs that will need to be done:

- 10 ITRs-A for the cables (MC)
- 1 ITR-A for the TEMP JB (MC)
- 1 ITR-B for the Yard Breaker (COMM)
- 1 ITR-B for the TEMP JB (COMM)

Project: CROSSWIND

Temporary Yard Power Supply
SINGLE LINE DIAGRAM

TITLE

DATA SHEET FOR LV POWER CABLE (LSZH, FLAME RETARDANT)

CONSTRUCTIVE DATA

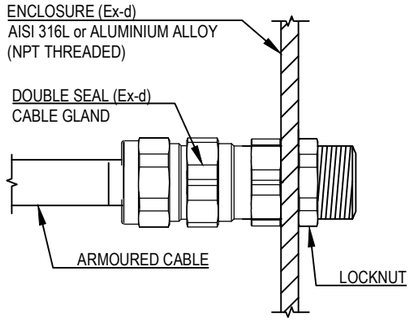
3	MR TAG / PART NUMBER			Note-3	Note-3	Note-3	Note-3
4	n° x NOMINAL AREA OF CONDUCTORS		N.xmm^2	1Cx300	1Cx95	3G2.5	3G4
5	n° AND DIAMETER OF WIRES IN EACH CONDUCTOR		N.xmm	37X3,35	19X2,67	7X0,67	7X0,85
6	CONDUCTOR CLASS (2)			2	2	2	2
7	RATED CURRENT IN AIR AT 30°		A	698	323	31	41
8	RATED CURRENT IN GROUND AT 20°		A	623	333	41	53
9							
10	A.C. PHASES RESISTANCE AT THE MAX OP. TEMP.		Ω/km	0,08	0,247	9,45	5,88
11	PHASE REACTANCE AT 50 Hz		Ω/km	0,08	0,085	0,103	0,096
12	MINIMUM INSULATION RESISTANCE AT 20°		MΩ/km	330	400	1100	1100
13	PHASE CAPACITY		µF/km	0,722	0,451	0,157	0,178
14							
15	MINIMUM ORDER Q.TY		m	300	300	300	300
16	MAX LENGHT OF DRUMS		m	1000	3000	7000	6000
17	DIAMETERS	BARE CONDUCTOR	mm	21	11,3	2	2,6
18		CORE (INSULATED CORE)	mm	25,8	14,5	4	4,6
19		INNER COVERING	mm	NA	NA	10,6	11,9
20		ARMOUR OR CONCENTRIC CONDUCTOR	mm	NA	NA	NA	NA
21							
22							
23		OVERALL	mm	29,4	17,3	13	14,3
24	MASSES	CONDUCTORS	kg/km	2730	864	68	109
25		INSULATION	kg/km	205	58	28	34
26		INNER COVERING	kg/km	NA	NA	83	101
27		ARMOUR OR CONCENTRIC CONDUCTOR	kg/km	NA	NA	NA	NA
28		OUTER SHEATING	kg/km	320	100	74	82
29							
30		TOTAL	kg/km	3255	1022	253	326
31	EXTERNAL COLOUR			GREY	GREY	GREY	GREY
32	CORE IDENTIFICATION (1)			BK	BK	BN,BU,Y/G	BN,BU,Y/G
33							
34							
35							
36							
37							
38							

NOTE: (1) BK=BLACK, BN=BROWN, GY=GRAY, BU=BLUE, RD=RED, Y/G=YELLOW/GREEN

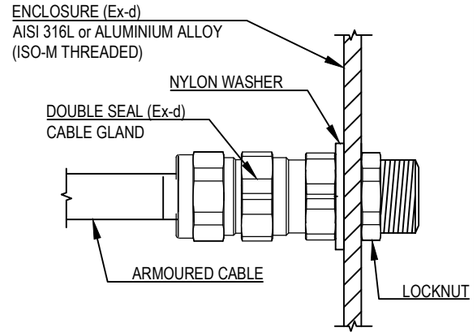
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C01

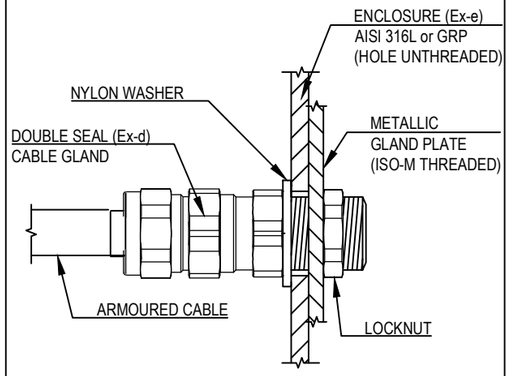
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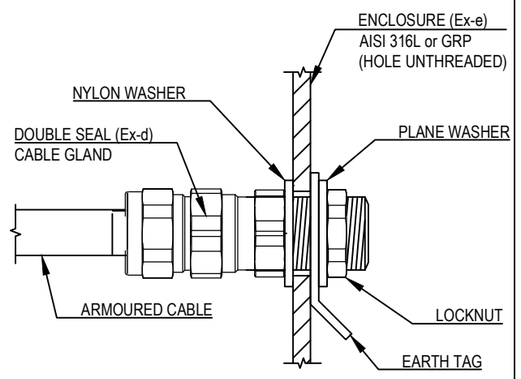
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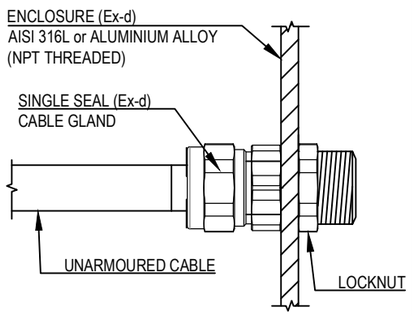
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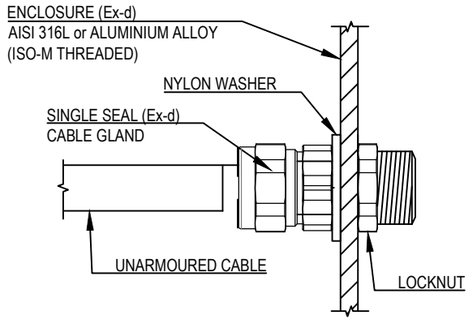
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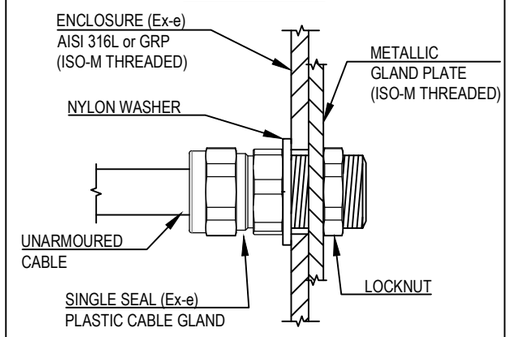
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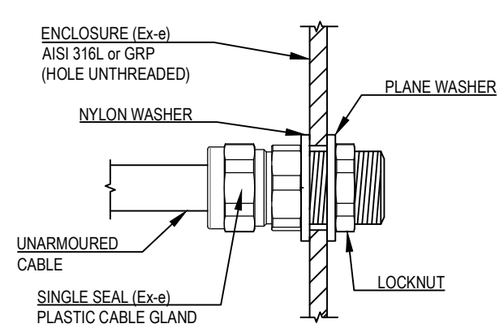
DETAIL "6"



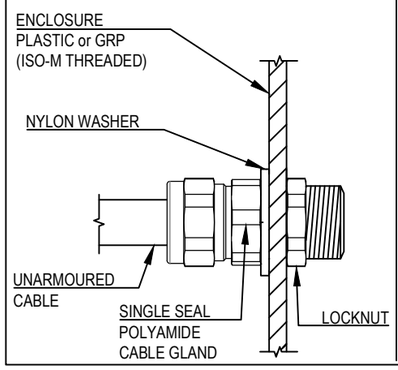
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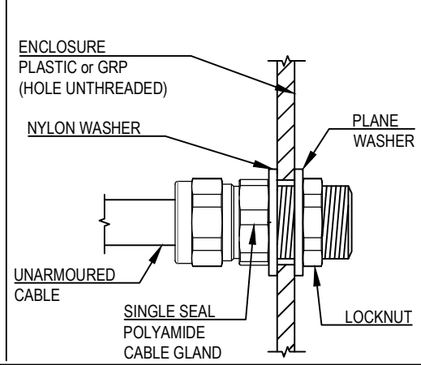
DETAIL "8"

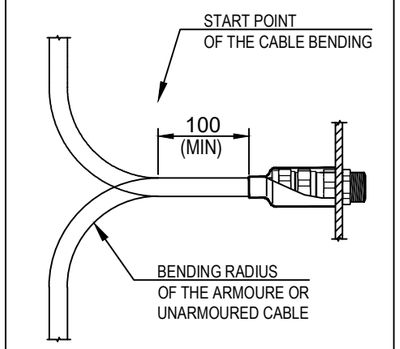


DETAIL "9"



DETAIL "10"





NOTES:

1) IF A REDUCTION OR ADAPTAR ARE NEEDED, ONLY ONE SHALL BE ALLOWED.
2) FOR GRP JUNCTION BOXES AND EQUIPMENTS CONNECTED BY ARMOURED CABLE, CABLE GLAND SHALL BE NICKEL PLATED BRASS TYPE AND GRP JUNCTION BOX AND EQUIPMENTS EQUIPPED WITH NICKEL PLATED CABLE GLAND PLATE. IF THE CABLE IS NON-ARMOURED, CABLE GLAND MAY BE POLYAMIDE TYPE.
3) SINGLE CORE CABLE SHALL HAVE AN EQUIPMENT ENTRY VIA NON MAGNETIC GLAND PLATE AND CONNECTING BY HDG STEEL CABLE GLAND.
4) OUTDOOR CABLE ENTRIES SHALL PREFERABLY BE FROM BOTTOM ENTRY, SIDE ENTRY SHALL BE SUBMITTED TO THE COMPANY APPROVAL. CABLE ENTRY FROM TOP IS FORBIDDEN.

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

REV.:	DATE:	SIGNATURE:
2_A	28/08/24	G.Randi

ROSETTI MARINO SpA

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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
POWER TYPICAL DETAIL CABLE GLAND INSTALLATION FOR E&I CABLES

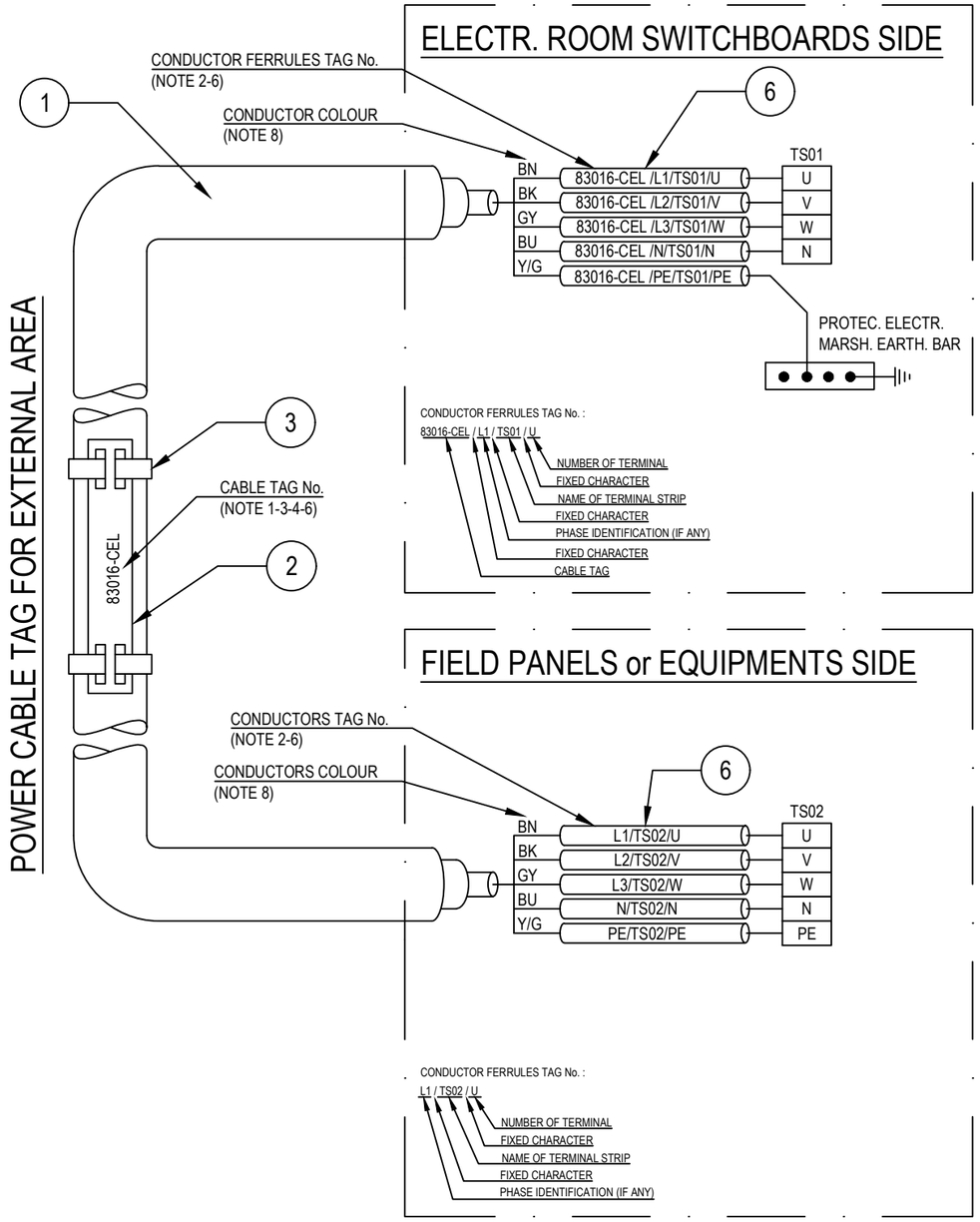
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 006 | REV. 02

F.to UNI A3: 420mmx297mm

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

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.

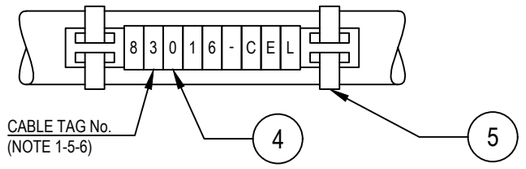
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

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.: 2_A | DATE: 28/08/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

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)

CROSSWIND

ROSETTI MARINO

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

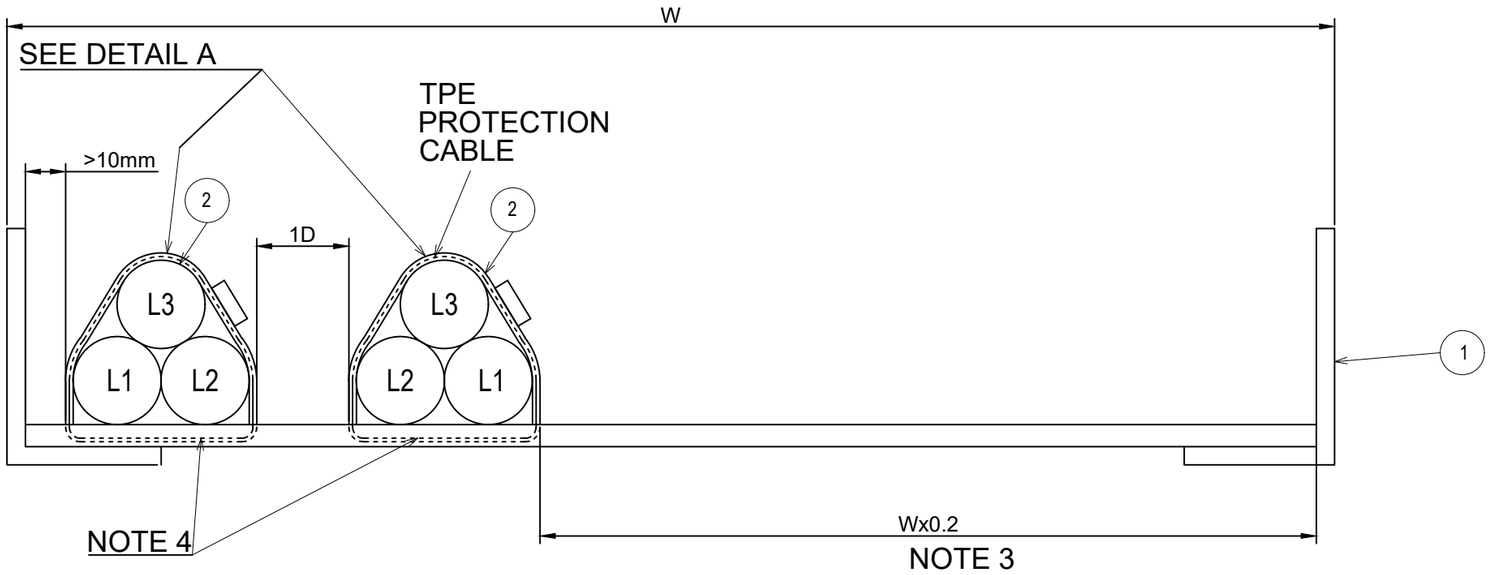
A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

F.to UNI A3: 420mmx297mm

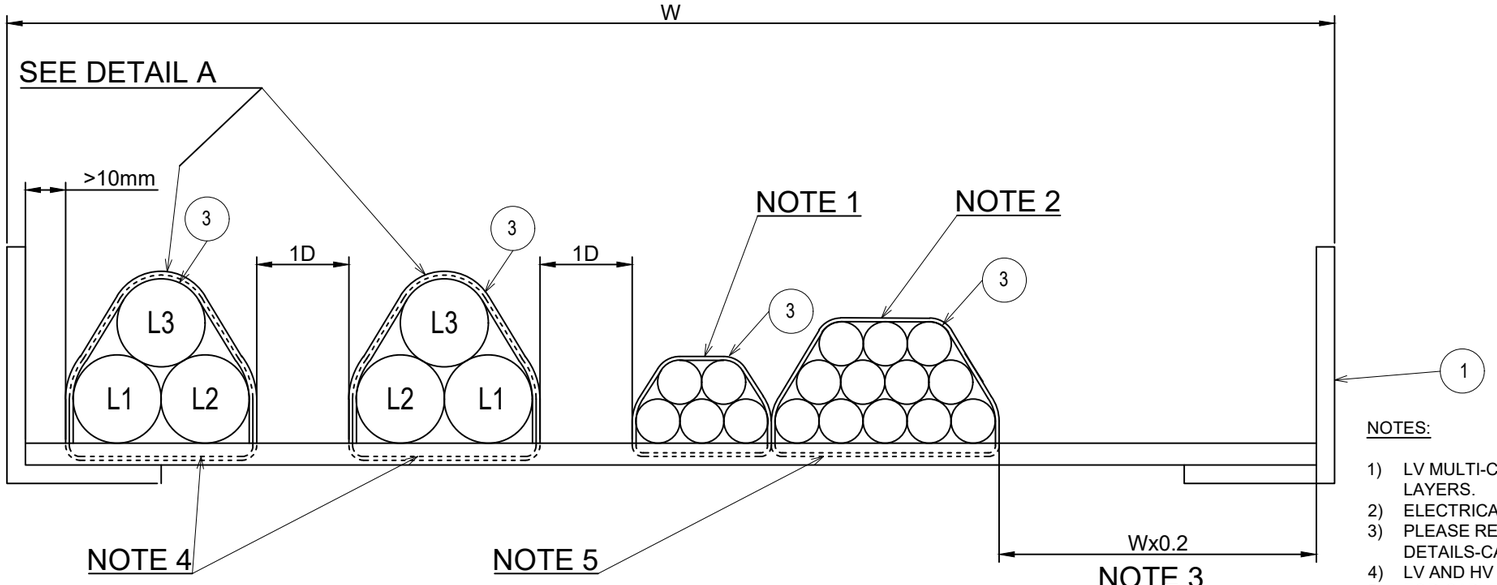
File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

C-05A

HV CABLETRAY

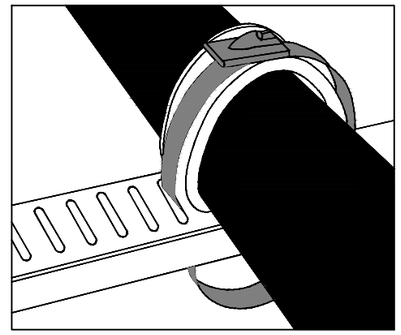


LV CABLETRAY



MATERIALS		
POS.		DESCRIPTION
1		CABLE LADDER AISI 316L
2		CABLE CLEATS STAINLESS STEEL FOR HV CABLES WITH TPE CABLE PROTECTION
3		UV RESISTANT PVC CABLE TIES
4		CABLE CLEATS STAINLESS STEEL FOR LV CABLES WITH TPE CABLE PROTECTION

DETAIL CABLE CLEATS



NOTES:

1) LV MULTI-CORE POWER CABLE (LESS THAN 120SQMM) CAN BE INSTALLED ON TWO LAYERS.
2) ELECTRICAL CONTROL CABLES CAN BE INSTALLED ON THREE LAYERS.
3) PLEASE REFER 123A90-DDL-EL-DD-20093-ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM SHEET-003 FOR CABLE SEGREGATION DETAIL.
4) LV AND HV SINGLE CORE POWER CABLE INSTALLED IN TREFOIL FORMATION.
5) FOR CABLE TIES INSTALLATION SEE DETAIL "C-06" ON SH.011.
6) CABLES BETWEEN TR-200DE1 TRASFORMER AND SG-200N1 POWER CENTER HAVE TO BE PROVIDE WITH CABLE CLEATES WITH STAINLESS STEEL TYPE

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

REV.:	DATE:	SIGNATURE:
2_A	28/08/24	G.Randi

ROSETTI MARINO SpA

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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES ARRANGEMENT IN CABLE LADDER/TRAY FOR ELECTRICAL 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 009 | REV. 02

F.to UNI A3: 420mmx297mm

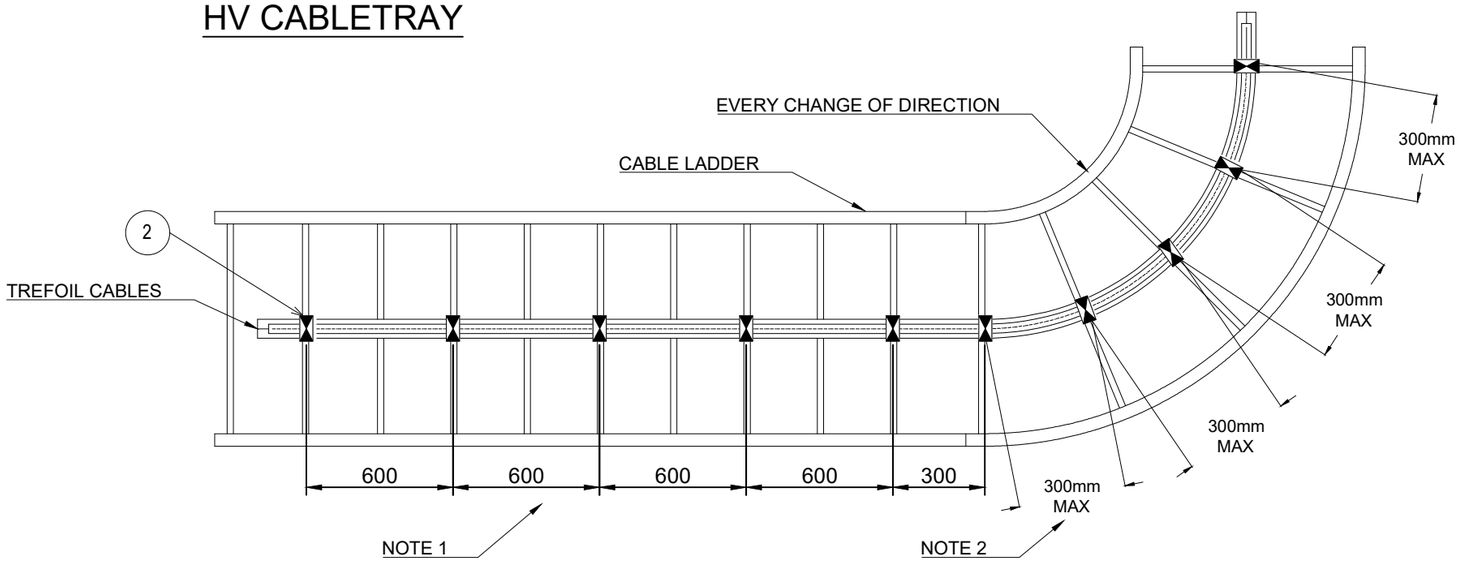
File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

C06

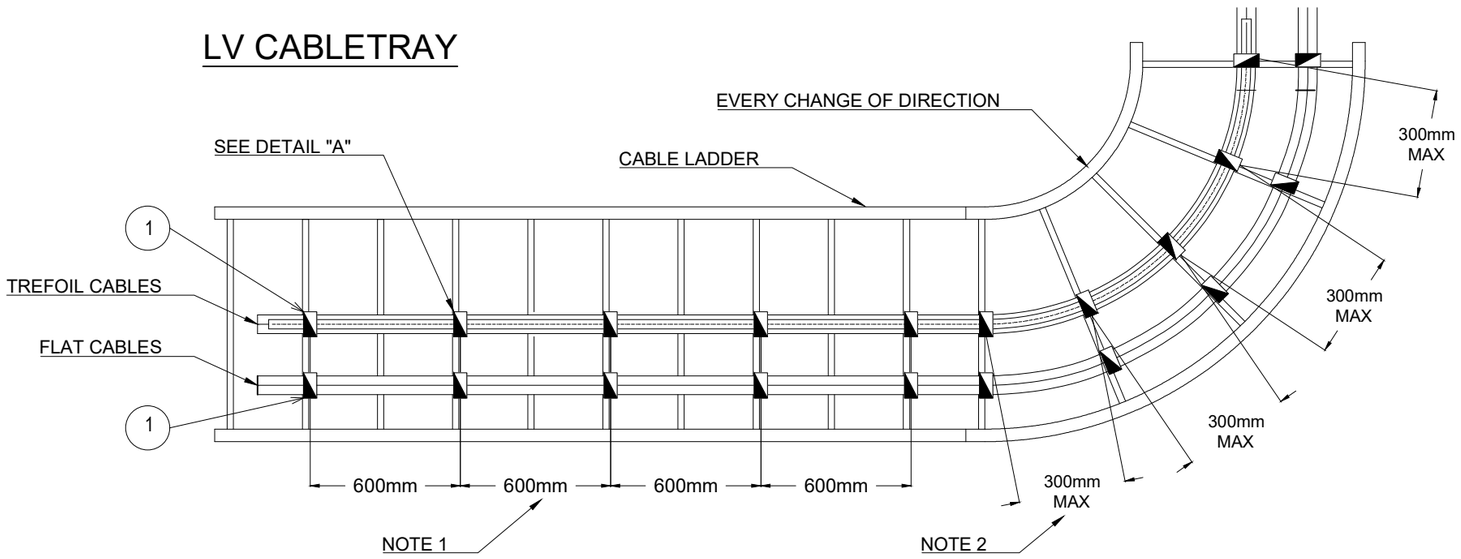
MAXIMUM CABLE TIES/CLEATS SPACING INSTALLATION DETAILS

MATERIALS		
POS.		DESCRIPTION
1		UV RESISTANT PVC CABLE TIES
2		STAINLESS STEEL DOUBLE WRAPPED CABLE CLEATS COMPLETE WITH TPE CUSHION SLEEVING

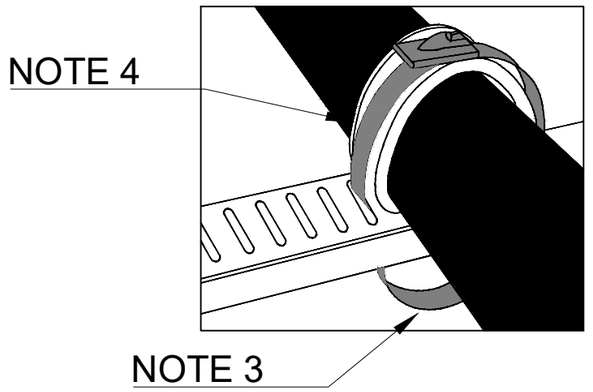
HV CABLETRAY



LV CABLETRAY



DETAIL "A" CABLE CLEATS



NOTES:

1) CABLES TIES SHALL BE HELD EVERY 600mm (CLEATS EVERY 600mm) ON HORIZONTAL RUNS.
2) CABLES SHALL BE HELD EVERY 300mm ON HORIZONTAL/VERTICAL ELBOW AND ON VERTICAL RUNS.
3) CABLE CLEATS WRAPPED TWO TIME AROUND THE CABLE RUNS.
4) TO PROTECT THE CABLE, INSTALL THE CUSHION SLEEVE BETWEEN THE CLAMP AND THE CABLE.

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20092
REV.: 2_A | DATE: 28/08/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
MAXI. CABLE TIES SPACING TYPICAL INSTALLATION DETAILS CABLE FASTENING IN TRAYS/LADDER

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

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 010 | REV. 02

F.to UNI A3: 420mmx297mm

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

ITEM	Tag	P-EJB-L2-TEMP	: YARD_BRK-01 / JB-200E2			Dwg	
	S/Sys	83-99	: 400 V Temporary Yard Supply			Module	
TASK	code	C10003034		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type FLAME RETARDANT Cores/Size mm² 1CX95 Color GREY

From YARD_BRK_01 To JB_200E2_TEMP

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).	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"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-EJB-L2-TEMP	: YARD_BRK-01 / JB-200E2			Dwg	
	S/Sys	83-99	: 400 V Temporary Yard Supply			Module	
TASK	code	C10003034		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	N/A	
7		PH 3	N/A	
8	ARMOUR CONTINUITY Ω		N/A	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		N/A	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>1G	
11		PH2 / PH1-PH3-A-E	N/A	
12		PH3 / PH1-PH2-A-E	N/A	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	KEW3125A/Serial_N°W8330207	TYPE / SERIAL N° :	Fluke/Serial:AW1/08(17140769)
Calibration certificate N° and date:	7722/24 Date:10/07/24	Calibration certificate N° and date:	7715/24Date:10/07/24

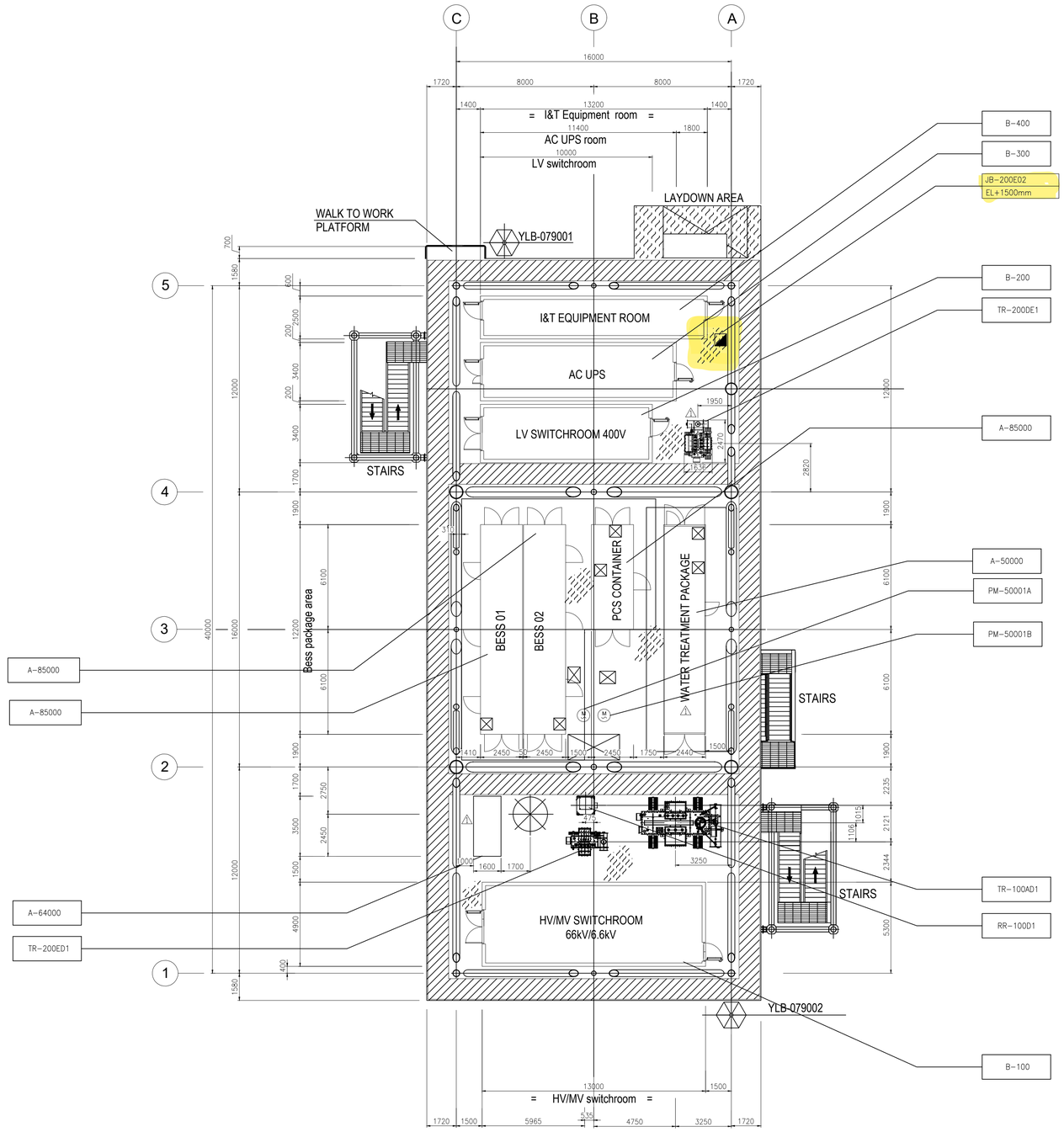
Comments:

	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS Impianti	RM (Rosetti Marino)	
Name	Carmelo Bongiovanni	Giovanni Tangianu	
Date	2024-09-13	2024-09-20	
Signature	PROVERLIS Digitaly signed by Carmelo Bongiovanni 2024-09-13T07:12:31.437Z	Firma Digitale Sicura Giovanni Tangianu 2024-09-20T11:27:56+0200	

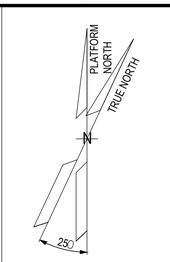
ITEM CODE	ITEM description	ITEM discipline	FROM ITEM	FROM description	TO ITEM	TO description	Cable Type/Section_Tubing Type/section	Cable Lenght [m]
P-EJB-L1-TEMP	YARD_BRK-01 / JB-200E2	E	YARD_BRK-01	Yard service power supply breaker	JB-200E2_TEMP	Temporary Junction Box	1X95	22
P-EJB-L2-TEMP	YARD_BRK-01 / JB-200E2	E	YARD_BRK-01	Yard service power supply breaker	JB-200E2_TEMP	Temporary Junction Box	1X95	22
P-EJB-L3-TEMP	YARD_BRK-01 / JB-200E2	E	YARD_BRK-01	Yard service power supply breaker	JB-200E2_TEMP	Temporary Junction Box	1X95	22
P-EJB-N-TEMP	YARD_BRK-01 / JB-200E2	E	YARD_BRK-01	Yard service power supply breaker	JB-200E2_TEMP	Temporary Junction Box	1X95	22
P-EJB-PE-TEMP	YARD_BRK-01 / JB-200E2	E	YARD_BRK-01	Yard service power supply breaker	JB-200E2_TEMP	Temporary Junction Box	1G95	22
83010-CEL-L1-TEMP	JB-200E2 / SG-200N1	E	JB-200E2_TEMP	Temporary Junction Box	SG-200N1	LV 0,4 kV MCC Switchgear	1X95	31
83010-CEL-L2-TEMP	JB-200E2 / SG-200N1	E	JB-200E2_TEMP	Temporary Junction Box	SG-200N1	LV 0,4 kV MCC Switchgear	1X95	31
83010-CEL-L3-TEMP	JB-200E2 / SG-200N1	E	JB-200E2_TEMP	Temporary Junction Box	SG-200N1	LV 0,4 kV MCC Switchgear	1X95	31
83010-CEL-N-TEMP	JB-200E2 / SG-200N1	E	JB-200E2_TEMP	Temporary Junction Box	SG-200N1	LV 0,4 kV MCC Switchgear	1X95	31
83010-CEL-PE-TEMP	JB-200E2 / SG-200N1	E	JB-200E2_TEMP	Temporary Junction Box	SG-200N1	LV 0,4 kV MCC Switchgear	1G95	31

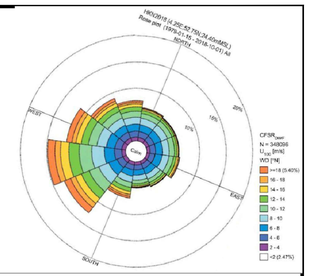
DRAWING NO. 123A90-DDL-EL-DL-20101

REV. 01



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





NOTES

1. ALL DIMENSIONS IN MM UNLESS NOTED OTHERWISE.
2. ALL ELEVATIONS IN METERS. UNLESS NOTED OTHERWISE.
3. ELEVATIONS REFER TO T.O.S.
4. FOR ELECTRICAL EQUIPMENT LAYOUT OF CONTAINERS B-100, B-200, B-300, B-400 REFER TO THE RESPECTIVE LAYOUTS.

LEGEND

(M)	ELECTRIC MOTOR – LOW VOLTAGE
⊠	INTERFACE PANEL
◪	JUNCTION BOX
JB-200E2 / EL+500mm	TAG ITEM / REFERED ELEVATION TO T.O.S. (TOP OF STEEL)

HOLDS

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20106	ELECTRICAL EQUIPMENT LAYOUT UPSs & BATTERIES SWITCHROOM
123A90-DDL-IN-DL-40012	ITER EQUIPMENT LAYOUT
123A90-DDL-EL-DL-20104	ELECTRICAL EQUIPMENT LAYOUT HV & MV SWITCHROOM
123A90-DDL-EL-DL-20105	LV SWITCHGEAR ROOM EQUIPMENT LAYOUT

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/05/24	SAM	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	04/03/24	SAM	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20101**

REV.:	DATE:	SIGNATURE:
1_A	08/08/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL EQUIPMENT LAYOUT
LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN SAM	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 04/03/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20101	SHEET 001	REV. 01

File Name : 123A90-DDL-EL-DL-20101-Electrical Equipment Layout – Lower Deck

yard service power supply breaker

Level 0

P-EJB-L1-TEMP
P-EJB-L2-TEMP
P-EJB-L3-TEMP
P-EJB-N-TEMP
P-EJB-PE-TEMP

3x(1x95)+N1x95+PE1x95

JB-200E2_TEMP
(temporary)

Lower Deck

83010-CEL-L1-TEMP
83010-CEL-L2-TEMP
83010-CEL-L3-TEMP
83010-CEL-N-TEMP
83010-CEL-PE-TEMP

3x(1x95)+N1x95+PE1x95
(Permanent)

SG-200N1
Main Switchboard (Permanent)

A2/+08

Lower Deck

ITRs that will need to be done:

- 10 ITRs-A for the cables (MC)
- 1 ITR-A for the TEMP JB (MC)
- 1 ITR-B for the Yard Breaker (COMM)
- 1 ITR-B for the TEMP JB (COMM)

Project: CROSSWIND

Temporary Yard Power Supply
SINGLE LINE DIAGRAM

TITLE

DATA SHEET FOR LV POWER CABLE (LSZH, FLAME RETARDANT)

CONSTRUCTIVE DATA

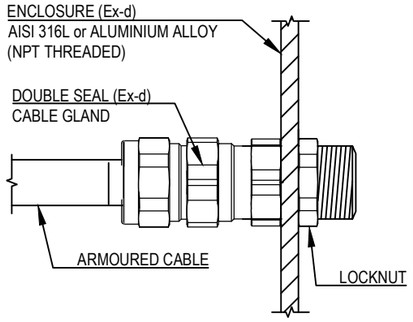
3	MR TAG / PART NUMBER			Note-3	Note-3	Note-3	Note-3
4	n° x NOMINAL AREA OF CONDUCTORS		N.xmm^2	1Cx300	1Cx95	3G2.5	3G4
5	n° AND DIAMETER OF WIRES IN EACH CONDUCTOR		N.xmm	37X3,35	19X2,67	7X0,67	7X0,85
6	CONDUCTOR CLASS (2)			2	2	2	2
7	RATED CURRENT IN AIR AT 30°		A	698	323	31	41
8	RATED CURRENT IN GROUND AT 20°		A	623	333	41	53
9							
10	A.C. PHASES RESISTANCE AT THE MAX OP. TEMP.		Ω/km	0,08	0,247	9,45	5,88
11	PHASE REACTANCE AT 50 Hz		Ω/km	0,08	0,085	0,103	0,096
12	MINIMUM INSULATION RESISTANCE AT 20°		MΩ/km	330	400	1100	1100
13	PHASE CAPACITY		µF/km	0,722	0,451	0,157	0,178
14							
15	MINIMUM ORDER Q.TY		m	300	300	300	300
16	MAX LENGHT OF DRUMS		m	1000	3000	7000	6000
17	DIAMETERS	BARE CONDUCTOR	mm	21	11,3	2	2,6
18		CORE (INSULATED CORE)	mm	25,8	14,5	4	4,6
19		INNER COVERING	mm	NA	NA	10,6	11,9
20		ARMOUR OR CONCENTRIC CONDUCTOR	mm	NA	NA	NA	NA
21							
22							
23		OVERALL	mm	29,4	17,3	13	14,3
24	MASSES	CONDUCTORS	kg/km	2730	864	68	109
25		INSULATION	kg/km	205	58	28	34
26		INNER COVERING	kg/km	NA	NA	83	101
27		ARMOUR OR CONCENTRIC CONDUCTOR	kg/km	NA	NA	NA	NA
28		OUTER SHEATING	kg/km	320	100	74	82
29							
30		TOTAL	kg/km	3255	1022	253	326
31	EXTERNAL COLOUR			GREY	GREY	GREY	GREY
32	CORE IDENTIFICATION (1)			BK	BK	BN,BU,Y/G	BN,BU,Y/G
33							
34							
35							
36							
37							
38							

NOTE: (1) BK=BLACK, BN=BROWN, GY=GRAY, BU=BLUE, RD=RED, Y/G=YELLOW/GREEN

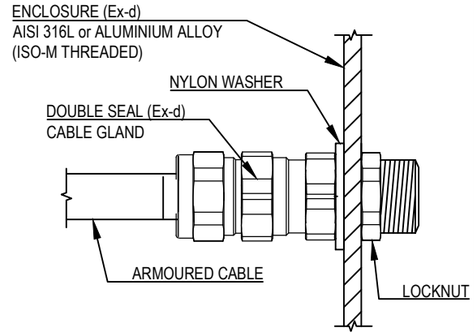
NA NOT APPLICABLE

C01

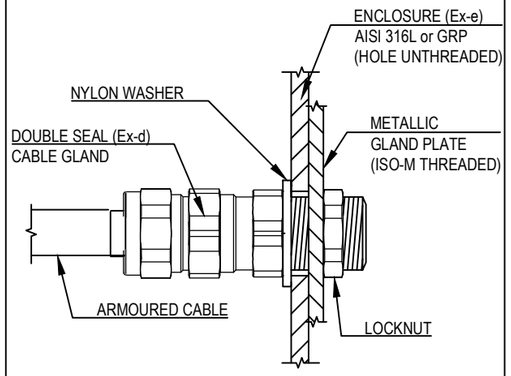
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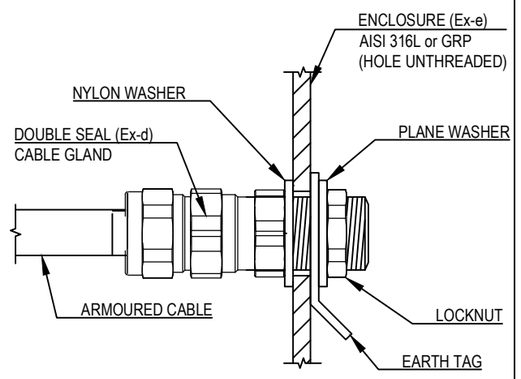
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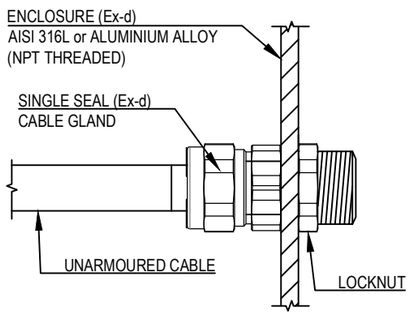
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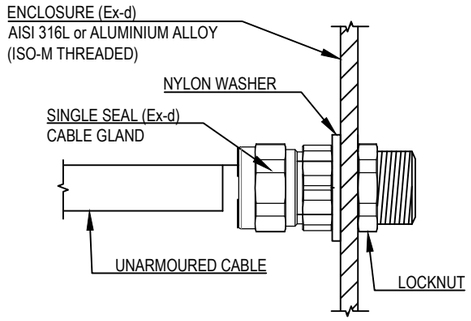
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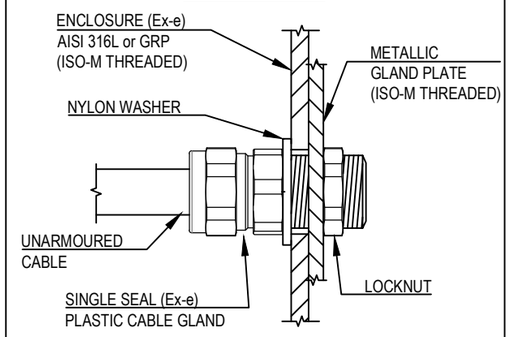
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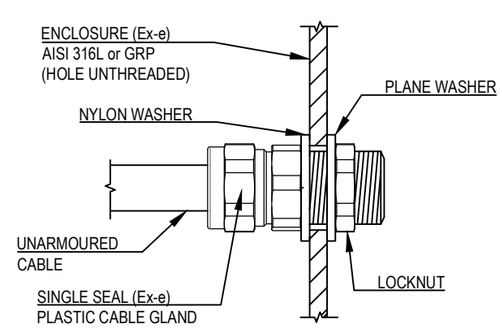
DETAIL "6"



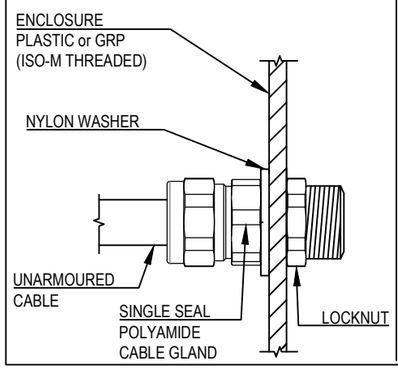
DETAIL "7"



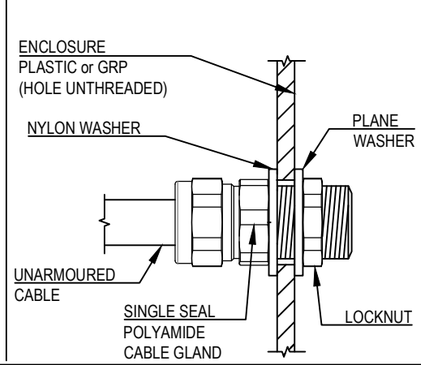
DETAIL "8"

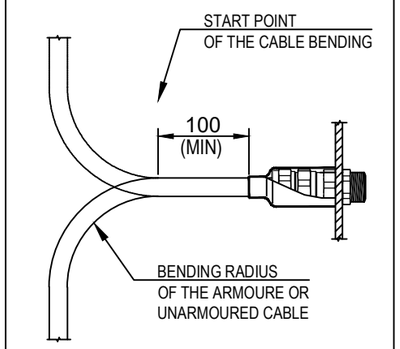


DETAIL "9"



DETAIL "10"





NOTES:

1) IF A REDUCTION OR ADAPTAR ARE NEEDED, ONLY ONE SHALL BE ALLOWED.
2) FOR GRP JUNCTION BOXES AND EQUIPMENTS CONNECTED BY ARMOURED CABLE, CABLE GLAND SHALL BE NICKEL PLATED BRASS TYPE AND GRP JUNCTION BOX AND EQUIPMENTS EQUIPPED WITH NICKEL PLATED CABLE GLAND PLATE. IF THE CABLE IS NON-ARMOURED, CABLE GLAND MAY BE POLYAMIDE TYPE.
3) SINGLE CORE CABLE SHALL HAVE AN EQUIPMENT ENTRY VIA NON MAGNETIC GLAND PLATE AND CONNECTING BY HDG STEEL CABLE GLAND.
4) OUTDOOR CABLE ENTRIES SHALL PREFERABLY BE FROM BOTTOM ENTRY, SIDE ENTRY SHALL BE SUBMITTED TO THE COMPANY APPROVAL. CABLE ENTRY FROM TOP IS FORBIDDEN.

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

REV.:	DATE:	SIGNATURE:
2_A	28/08/24	G.Randi

ROSETTI MARINO SpA

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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
POWER TYPICAL DETAIL CABLE GLAND INSTALLATION FOR E&I CABLES

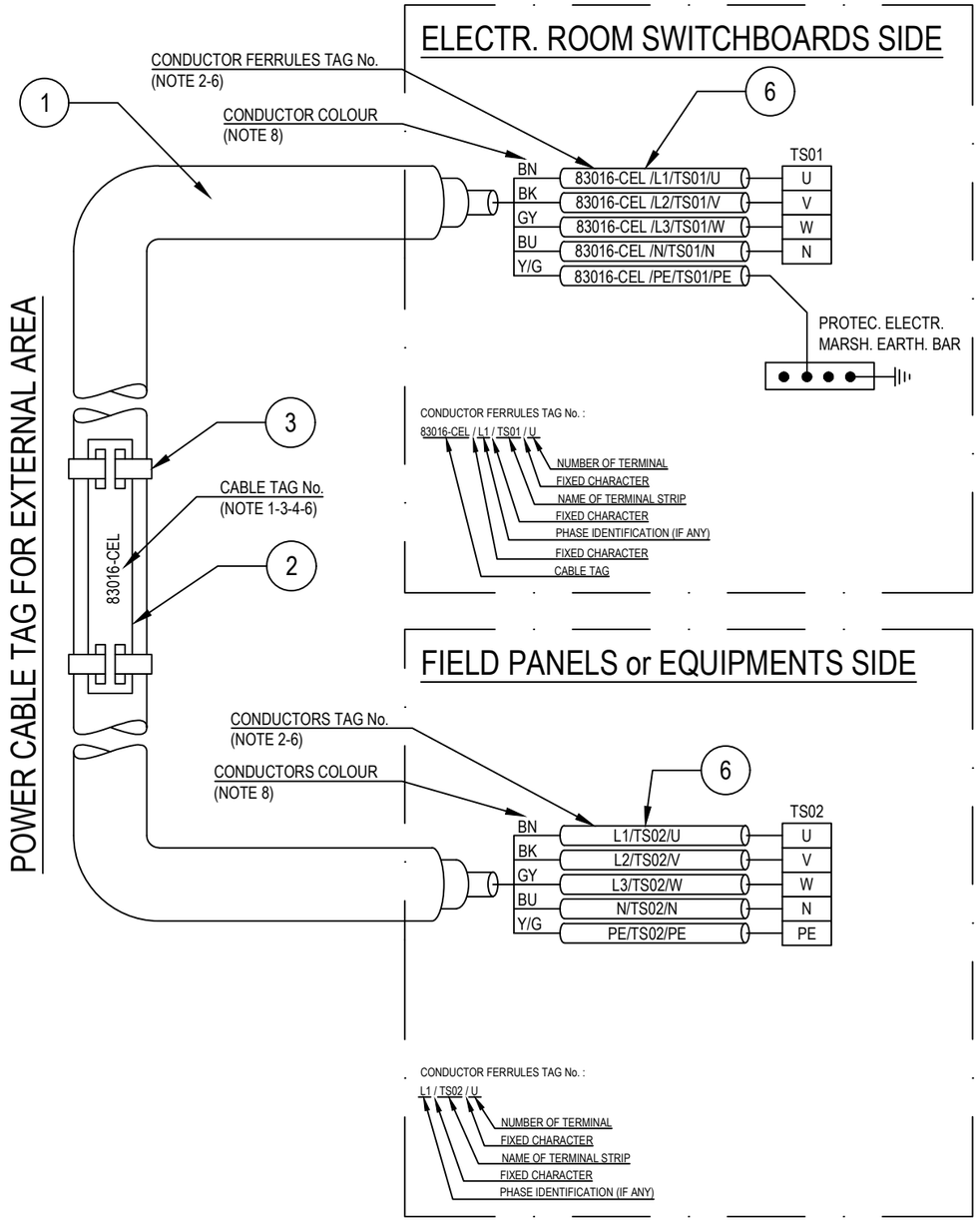
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 006 | REV. 02

F.to UNI A3: 420mmx297mm

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

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.

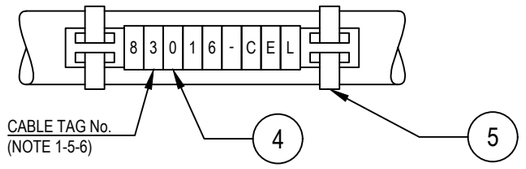
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

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.: 2_A | DATE: 28/08/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

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)

CROSSWIND

ROSETTI MARINO

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

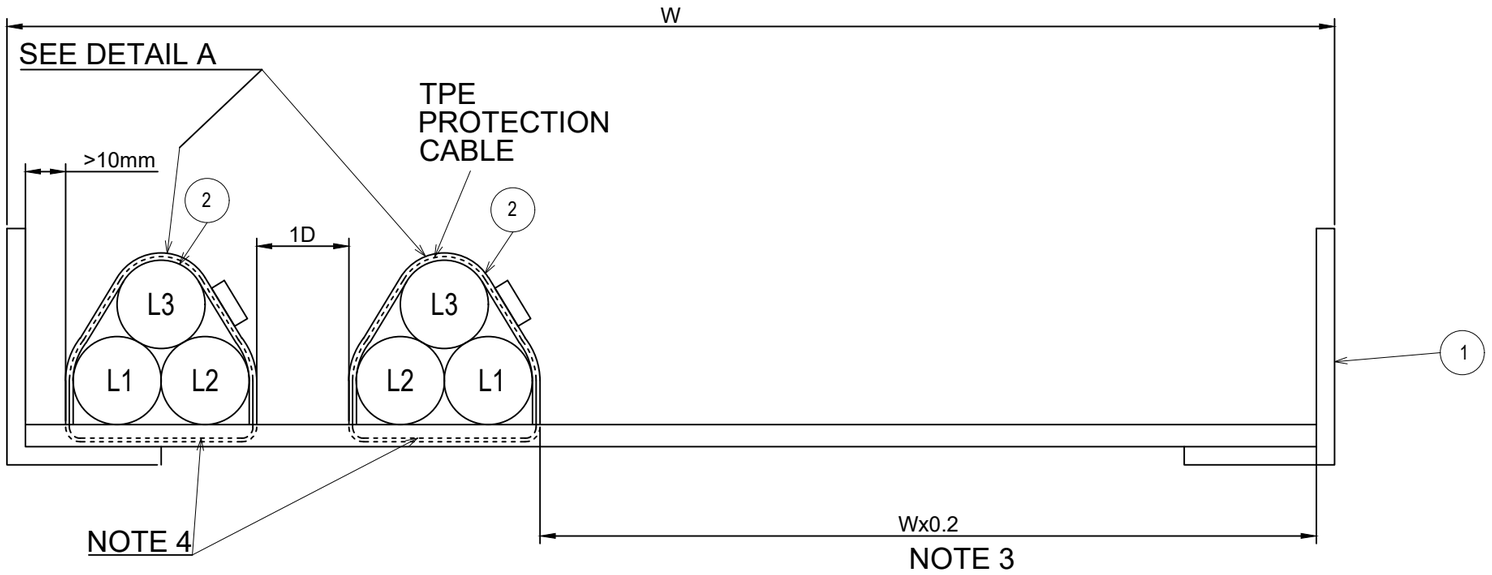
A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

F.to UNI A3: 420mmx297mm

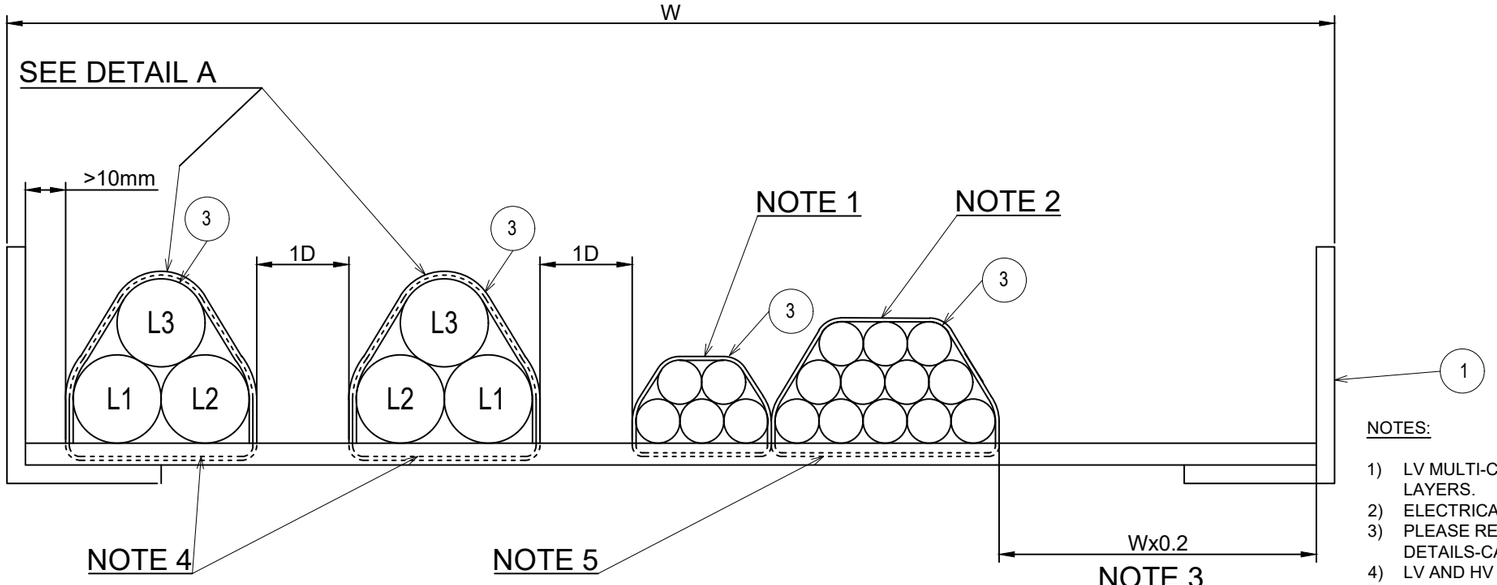
File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

C-05A

HV CABLETRAY

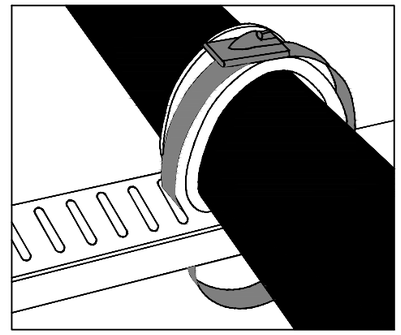


LV CABLETRAY



MATERIALS		
POS.		DESCRIPTION
1		CABLE LADDER AISI 316L
2		CABLE CLEATS STAINLESS STEEL FOR HV CABLES WITH TPE CABLE PROTECTION
3		UV RESISTANT PVC CABLE TIES
4		CABLE CLEATS STAINLESS STEEL FOR LV CABLES WITH TPE CABLE PROTECTION

DETAIL CABLE CLEATS



NOTES:

1) LV MULTI-CORE POWER CABLE (LESS THAN 120SQMM) CAN BE INSTALLED ON TWO LAYERS.
2) ELECTRICAL CONTROL CABLES CAN BE INSTALLED ON THREE LAYERS.
3) PLEASE REFER 123A90-DDL-EL-DD-20093-ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM SHEET-003 FOR CABLE SEGREGATION DETAIL.
4) LV AND HV SINGLE CORE POWER CABLE INSTALLED IN TREFOIL FORMATION.
5) FOR CABLE TIES INSTALLATION SEE DETAIL "C-06" ON SH.011.
6) CABLES BETWEEN TR-200DE1 TRASFORMER AND SG-200N1 POWER CENTER HAVE TO BE PROVIDE WITH CABLE CLEATES WITH STAINLESS STEEL TYPE

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

REV.:	DATE:	SIGNATURE:
2_A	28/08/24	G.Randi

ROSETTI MARINO SpA

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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES ARRANGEMENT IN CABLE LADDER/TRAY FOR ELECTRICAL 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 009 | REV. 02

F.to UNI A3: 420mmx297mm

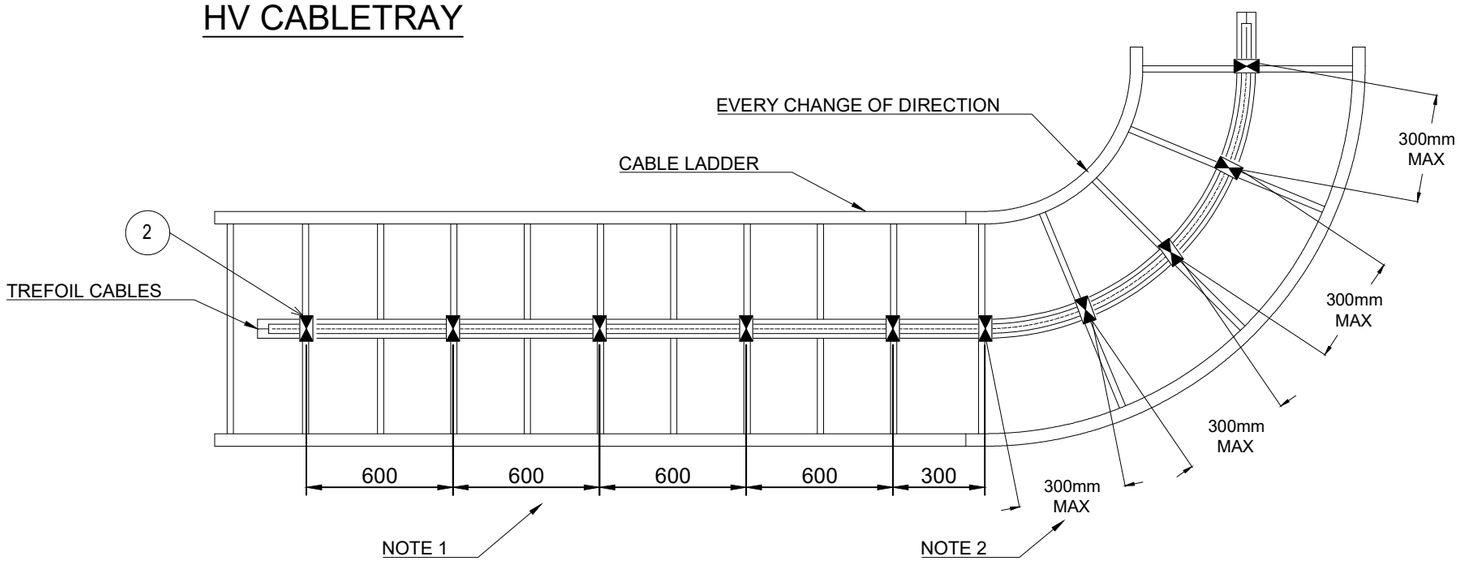
File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

C06

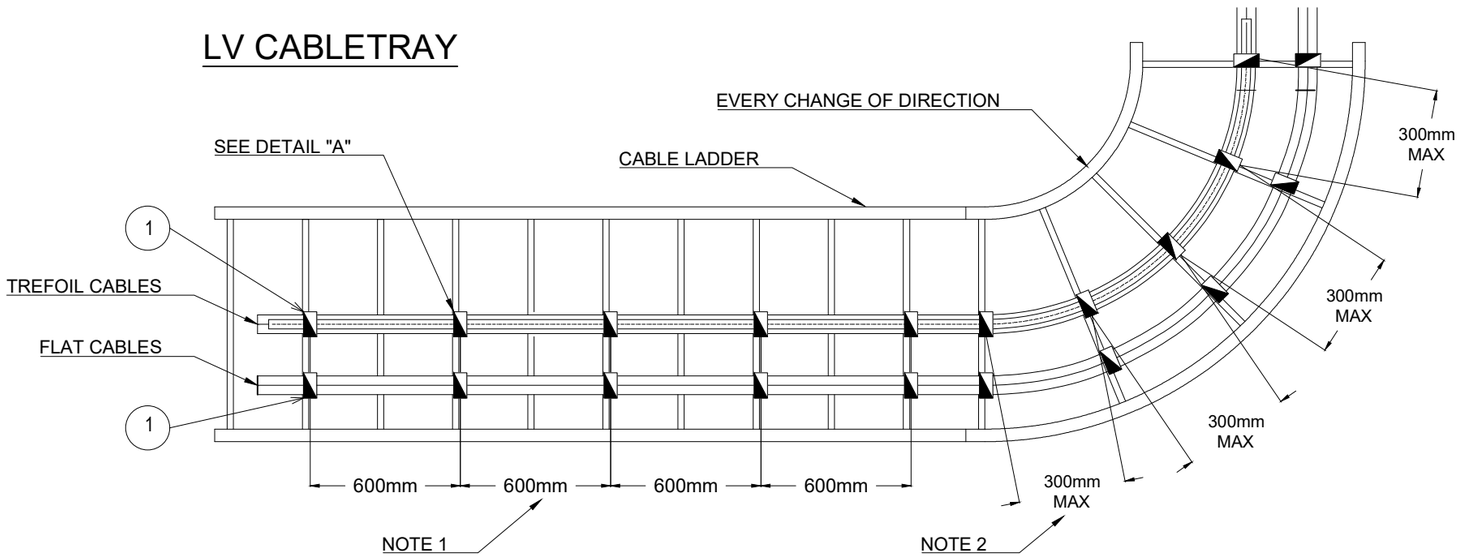
MAXIMUM CABLE TIES/CLEATS SPACING INSTALLATION DETAILS

MATERIALS		
POS.		DESCRIPTION
1		UV RESISTANT PVC CABLE TIES
2		STAINLESS STEEL DOUBLE WRAPPED CABLE CLEATS COMPLETE WITH TPE CUSHION SLEEVING

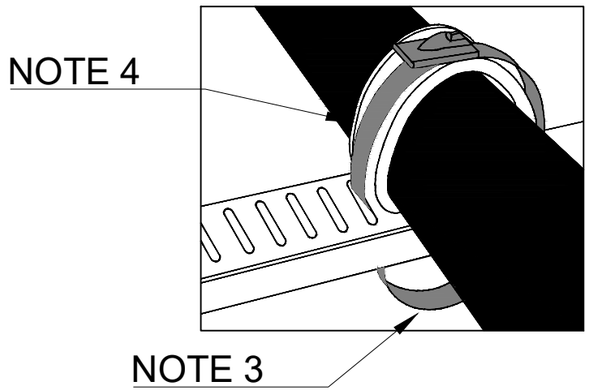
HV CABLETRAY



LV CABLETRAY



DETAIL "A" CABLE CLEATS



NOTES:

1) CABLES TIES SHALL BE HELD EVERY 600mm (CLEATS EVERY 600mm) ON HORIZONTAL RUNS.
2) CABLES SHALL BE HELD EVERY 300mm ON HORIZONTAL/VERTICAL ELBOW AND ON VERTICAL RUNS.
3) CABLE CLEATS WRAPPED TWO TIME AROUND THE CABLE RUNS.
4) TO PROTECT THE CABLE, INSTALL THE CUSHION SLEEVE BETWEEN THE CLAMP AND THE CABLE.

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20092
REV.: 2_A | DATE: 28/08/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
MAXI. CABLE TIES SPACING TYPICAL INSTALLATION DETAILS CABLE FASTENING IN TRAYS/LADDER

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

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 010 | REV. 02

F.to UNI A3: 420mmx297mm

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

ITEM	Tag	P-EJB-L3-TEMP	: YARD_BRK-01 / JB-200E2			Dwg	
	S/Sys	83-99	: 400 V Temporary Yard Supply			Module	
TASK	code	C10003035		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type: Flame Retardant | Cores/Size mm²: 1CX95 | Color: GREY

From: YARD_BRK_01 | To: JB_200E2_TEMP

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).	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"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-EJB-L3-TEMP	: YARD_BRK-01 / JB-200E2			Dwg	
	S/Sys	83-99	: 400 V Temporary Yard Supply			Module	
TASK	code	C10003035		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	N/A	
7		PH 3	N/A	
8	ARMOUR CONTINUITY Ω		N/A	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		N/A	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>1G	
11		PH2 / PH1-PH3-A-E	N/A	
12		PH3 / PH1-PH2-A-E	N/A	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	KEW3125A/Serial N°W8330207	TYPE / SERIAL N° :	fluke/Serial:AW1/08(17140769)
Calibration certificate N° and date:	7722/24date:10/07/24	Calibration certificate N° and date:	7715/24 Date:10/07/24

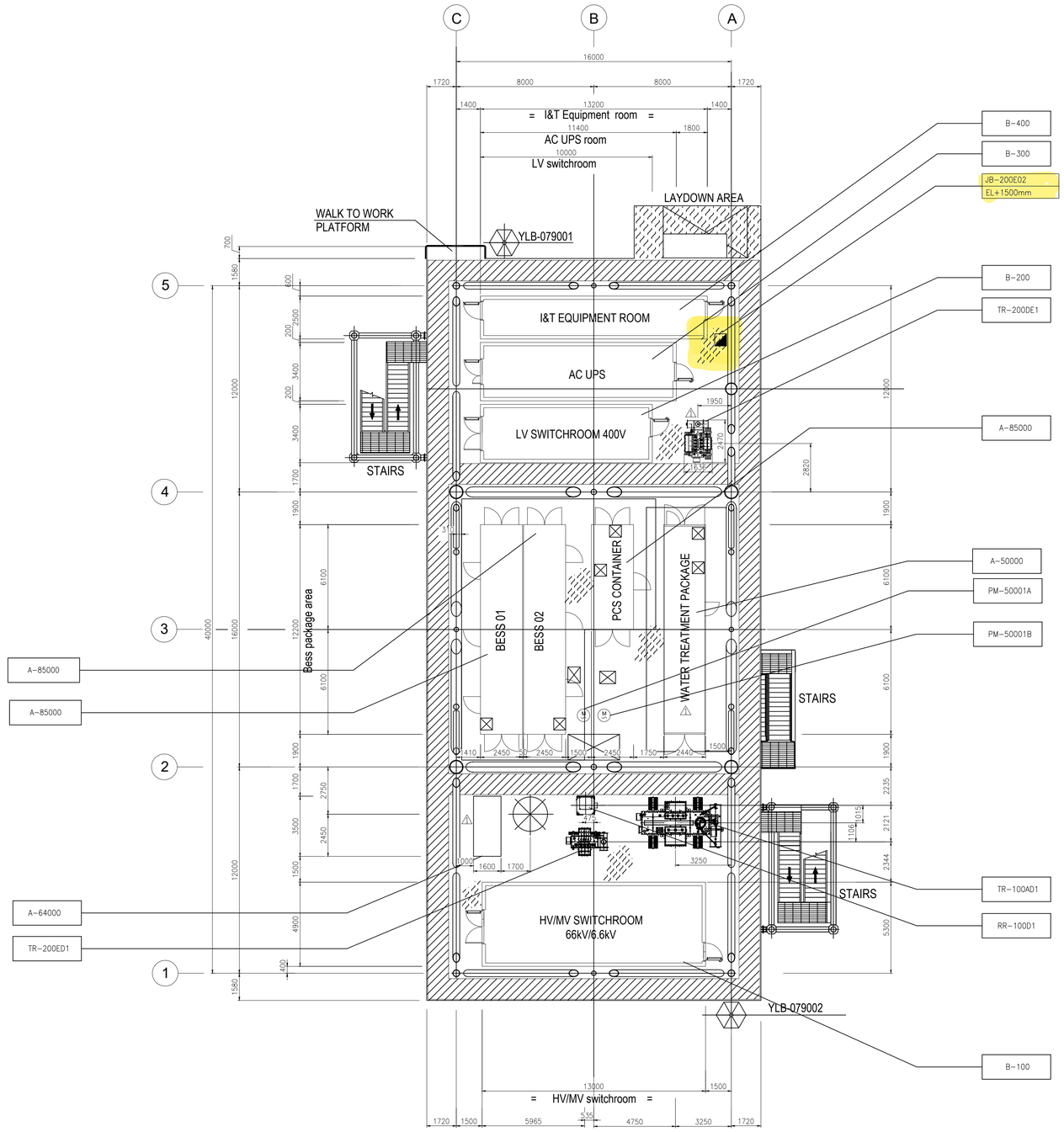
Comments:

	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS Impianti	RM (Rosetti Marino)	
Name	Carmelo Bongiovanni	Giovanni Tangianu	
Date	2024-09-13	2024-09-20	
Signature	PROVERLIS Digitaly signed by Carmelo Bongiovanni 2024-09-13T07:12:59.299Z	Firma Digitale Sicura Giovanni Tangianu 2024-09-20T11:28:55+0200	

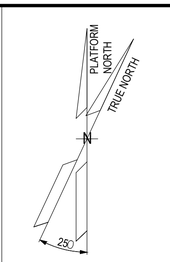
ITEM CODE	ITEM description	ITEM discipline	FROM ITEM	FROM description	TO ITEM	TO description	Cable Type/Section_Tubing Type/section	Cable Lenght [m]
P-EJB-L1-TEMP	YARD_BRK-01 / JB-200E2	E	YARD_BRK-01	Yard service power supply breaker	JB-200E2_TEMP	Temporary Junction Box	1X95	22
P-EJB-L2-TEMP	YARD_BRK-01 / JB-200E2	E	YARD_BRK-01	Yard service power supply breaker	JB-200E2_TEMP	Temporary Junction Box	1X95	22
P-EJB-L3-TEMP	YARD_BRK-01 / JB-200E2	E	YARD_BRK-01	Yard service power supply breaker	JB-200E2_TEMP	Temporary Junction Box	1X95	22
P-EJB-N-TEMP	YARD_BRK-01 / JB-200E2	E	YARD_BRK-01	Yard service power supply breaker	JB-200E2_TEMP	Temporary Junction Box	1X95	22
P-EJB-PE-TEMP	YARD_BRK-01 / JB-200E2	E	YARD_BRK-01	Yard service power supply breaker	JB-200E2_TEMP	Temporary Junction Box	1G95	22
83010-CEL-L1-TEMP	JB-200E2 / SG-200N1	E	JB-200E2_TEMP	Temporary Junction Box	SG-200N1	LV 0,4 kV MCC Switchgear	1X95	31
83010-CEL-L2-TEMP	JB-200E2 / SG-200N1	E	JB-200E2_TEMP	Temporary Junction Box	SG-200N1	LV 0,4 kV MCC Switchgear	1X95	31
83010-CEL-L3-TEMP	JB-200E2 / SG-200N1	E	JB-200E2_TEMP	Temporary Junction Box	SG-200N1	LV 0,4 kV MCC Switchgear	1X95	31
83010-CEL-N-TEMP	JB-200E2 / SG-200N1	E	JB-200E2_TEMP	Temporary Junction Box	SG-200N1	LV 0,4 kV MCC Switchgear	1X95	31
83010-CEL-PE-TEMP	JB-200E2 / SG-200N1	E	JB-200E2_TEMP	Temporary Junction Box	SG-200N1	LV 0,4 kV MCC Switchgear	1G95	31

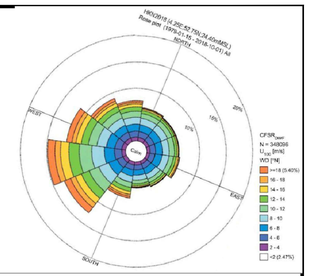
DRAWING NO. 123A90-DDL-EL-DL-20101

REV. 01



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





NOTES

1. ALL DIMENSIONS IN MM UNLESS NOTED OTHERWISE.
2. ALL ELEVATIONS IN METERS. UNLESS NOTED OTHERWISE.
3. ELEVATIONS REFER TO T.O.S.
4. FOR ELECTRICAL EQUIPMENT LAYOUT OF CONTAINERS B-100, B-200, B-300, B-400 REFER TO THE RESPECTIVE LAYOUTS.

LEGEND

(M)	ELECTRIC MOTOR – LOW VOLTAGE
⊠	INTERFACE PANEL
◪	JUNCTION BOX
JB-200E2 / EL+500mm	TAG ITEM / REFERED ELEVATION TO T.O.S. (TOP OF STEEL)

HOLDS

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20106	ELECTRICAL EQUIPMENT LAYOUT UPSs & BATTERIES SWITCHROOM
123A90-DDL-IN-DL-40012	ITER EQUIPMENT LAYOUT
123A90-DDL-EL-DL-20104	ELECTRICAL EQUIPMENT LAYOUT HV & MV SWITCHROOM
123A90-DDL-EL-DL-20105	LV SWITCHGEAR ROOM EQUIPMENT LAYOUT

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/05/24	SAM	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	04/03/24	SAM	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20101**

REV.:	DATE:	SIGNATURE:
1_A	08/08/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL EQUIPMENT LAYOUT
LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN SAM	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 04/03/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20101	SHEET 001	REV. 01

File Name : 123A90-DDL-EL-DL-20101-Electrical Equipment Layout – Lower Deck

yard service power supply breaker

Level 0

P-EJB-L1-TEMP
P-EJB-L2-TEMP
P-EJB-L3-TEMP
P-EJB-N-TEMP
P-EJB-PE-TEMP

3x(1x95)+N1x95+PE1x95

JB-200E2_TEMP
(temporary)

Lower Deck

83010-CEL-L1-TEMP
83010-CEL-L2-TEMP
83010-CEL-L3-TEMP
83010-CEL-N-TEMP
83010-CEL-PE-TEMP

3x(1x95)+N1x95+PE1x95
(Permanent)

SG-200N1
Main Switchboard (Permanent)

A2/+08

Lower Deck

ITRs that will need to be done:

- 10 ITRs-A for the cables (MC)
- 1 ITR-A for the TEMP JB (MC)
- 1 ITR-B for the Yard Breaker (COMM)
- 1 ITR-B for the TEMP JB (COMM)

Project: CROSSWIND

Temporary Yard Power Supply
SINGLE LINE DIAGRAM

TITLE

DATA SHEET FOR LV POWER CABLE (LSZH, FLAME RETARDANT)

CONSTRUCTIVE DATA

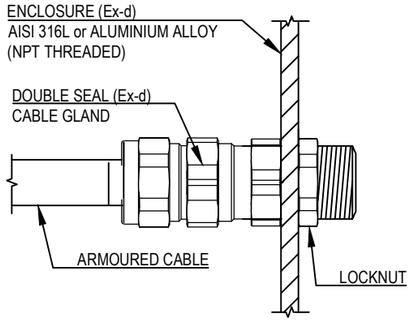
3	MR TAG / PART NUMBER			Note-3	Note-3	Note-3	Note-3
4	n° x NOMINAL AREA OF CONDUCTORS		N.xmm^2	1Cx300	1Cx95	3G2.5	3G4
5	n° AND DIAMETER OF WIRES IN EACH CONDUCTOR		N.xmm	37X3,35	19X2,67	7X0,67	7X0,85
6	CONDUCTOR CLASS (2)			2	2	2	2
7	RATED CURRENT IN AIR AT 30°		A	698	323	31	41
8	RATED CURRENT IN GROUND AT 20°		A	623	333	41	53
9							
10	A.C. PHASES RESISTANCE AT THE MAX OP. TEMP.		Ω/km	0,08	0,247	9,45	5,88
11	PHASE REACTANCE AT 50 Hz		Ω/km	0,08	0,085	0,103	0,096
12	MINIMUM INSULATION RESISTANCE AT 20°		MΩ/km	330	400	1100	1100
13	PHASE CAPACITY		µF/km	0,722	0,451	0,157	0,178
14							
15	MINIMUM ORDER Q.TY		m	300	300	300	300
16	MAX LENGHT OF DRUMS		m	1000	3000	7000	6000
17	DIAMETERS	BARE CONDUCTOR	mm	21	11,3	2	2,6
18		CORE (INSULATED CORE)	mm	25,8	14,5	4	4,6
19		INNER COVERING	mm	NA	NA	10,6	11,9
20		ARMOUR OR CONCENTRIC CONDUCTOR	mm	NA	NA	NA	NA
21							
22							
23		OVERALL	mm	29,4	17,3	13	14,3
24	MASSES	CONDUCTORS	kg/km	2730	864	68	109
25		INSULATION	kg/km	205	58	28	34
26		INNER COVERING	kg/km	NA	NA	83	101
27		ARMOUR OR CONCENTRIC CONDUCTOR	kg/km	NA	NA	NA	NA
28		OUTER SHEATING	kg/km	320	100	74	82
29							
30		TOTAL	kg/km	3255	1022	253	326
31	EXTERNAL COLOUR			GREY	GREY	GREY	GREY
32	CORE IDENTIFICATION (1)			BK	BK	BN,BU,Y/G	BN,BU,Y/G
33							
34							
35							
36							
37							
38							

NOTE: (1) BK=BLACK, BN=BROWN, GY=GRAY, BU=BLUE, RD=RED, Y/G=YELLOW/GREEN

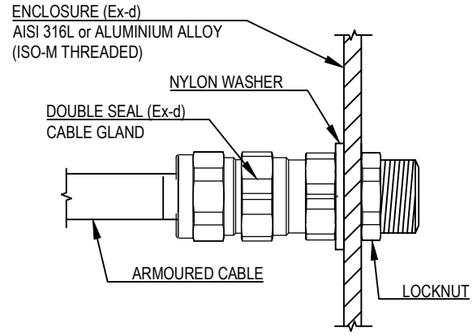
NA NOT APPLICABLE

C01

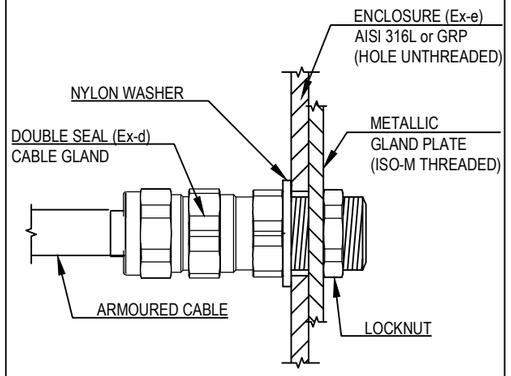
DETAIL "1"



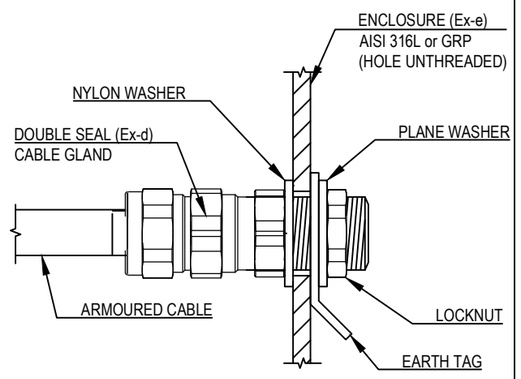
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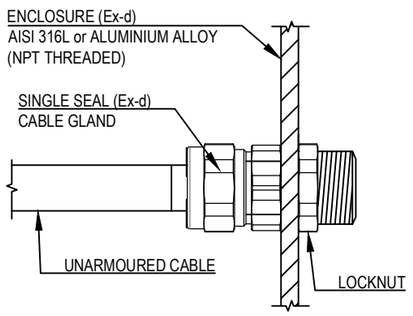
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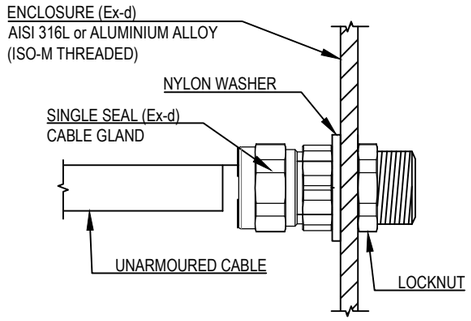
DETAIL "4"



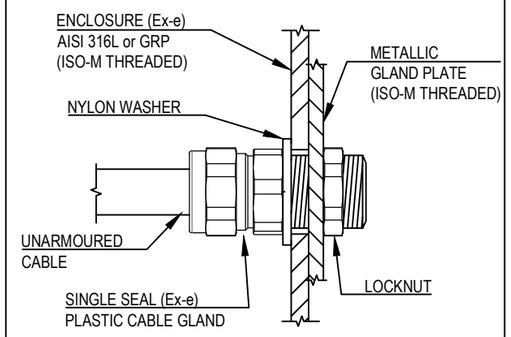
DETAIL "5"



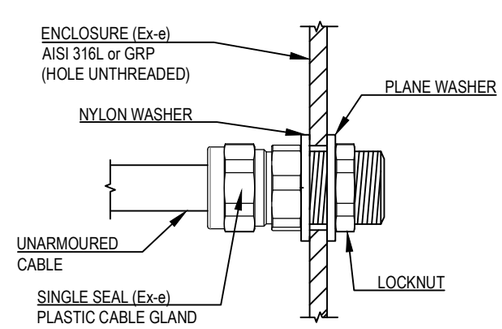
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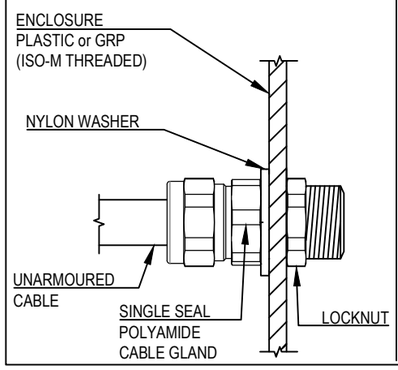
DETAIL "7"



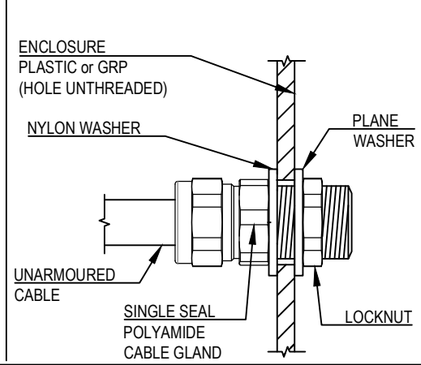
DETAIL "8"

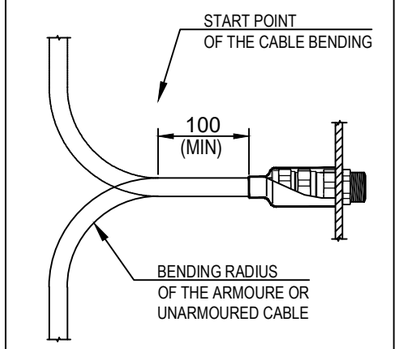


DETAIL "9"



DETAIL "10"





NOTES:

1) IF A REDUCTION OR ADAPTAR ARE NEEDED, ONLY ONE SHALL BE ALLOWED.
2) FOR GRP JUNCTION BOXES AND EQUIPMENTS CONNECTED BY ARMOURED CABLE, CABLE GLAND SHALL BE NICKEL PLATED BRASS TYPE AND GRP JUNCTION BOX AND EQUIPMENTS EQUIPPED WITH NICKEL PLATED CABLE GLAND PLATE. IF THE CABLE IS NON-ARMOURED, CABLE GLAND MAY BE POLYAMIDE TYPE.
3) SINGLE CORE CABLE SHALL HAVE AN EQUIPMENT ENTRY VIA NON MAGNETIC GLAND PLATE AND CONNECTING BY HDG STEEL CABLE GLAND.
4) OUTDOOR CABLE ENTRIES SHALL PREFERABLY BE FROM BOTTOM ENTRY, SIDE ENTRY SHALL BE SUBMITTED TO THE COMPANY APPROVAL. CABLE ENTRY FROM TOP IS FORBIDDEN.

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

REV.:	DATE:	SIGNATURE:
2_A	28/08/24	G.Randi

ROSETTI MARINO SpA

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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
POWER TYPICAL DETAIL CABLE GLAND INSTALLATION FOR E&I CABLES

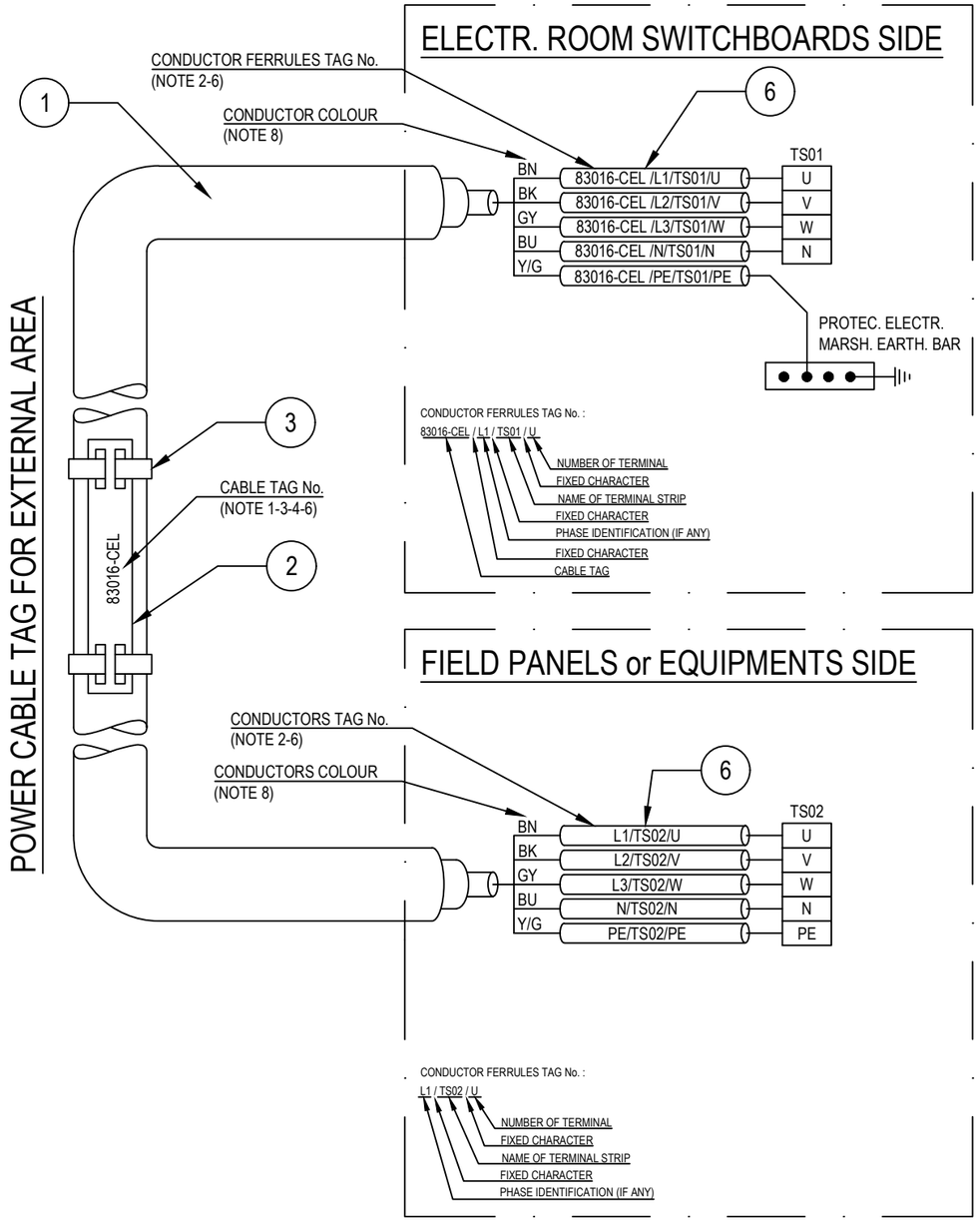
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 006 | REV. 02

F.to UNI A3: 420mmx297mm

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

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.

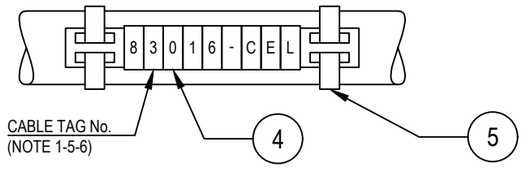
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

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.: 2_A | DATE: 28/08/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

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)

CROSSWIND

ROSETTI MARINO

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

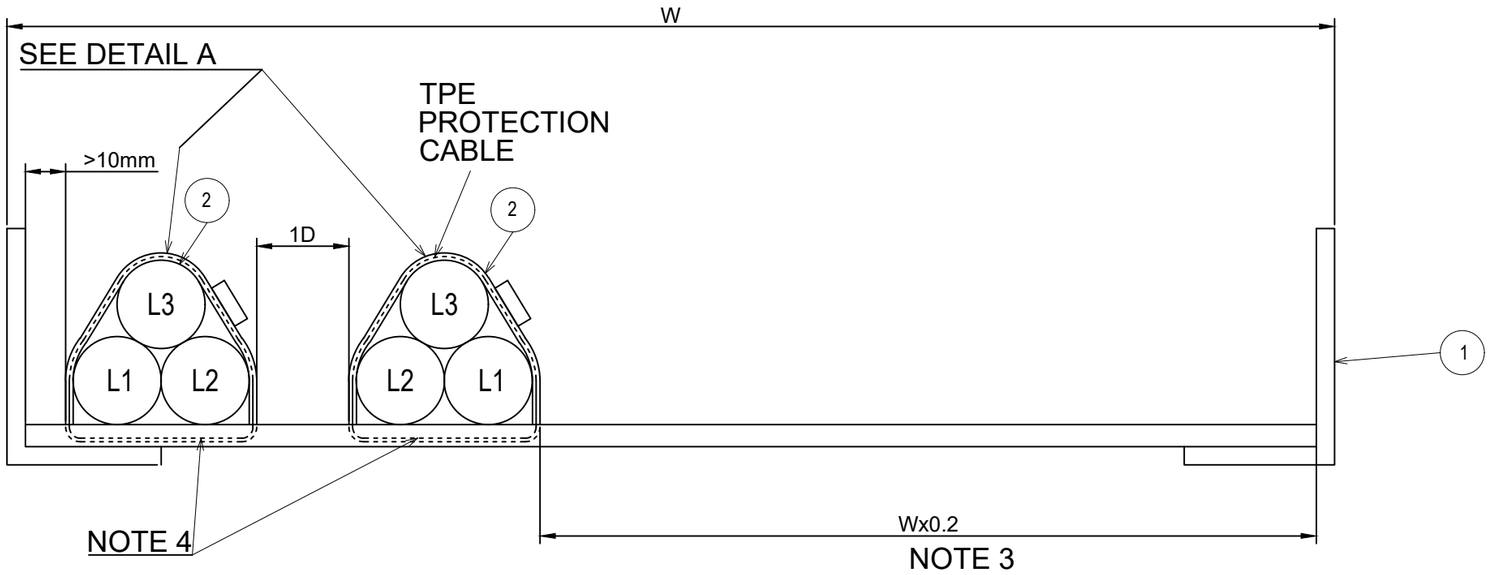
A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

F.to UNI A3: 420mmx297mm

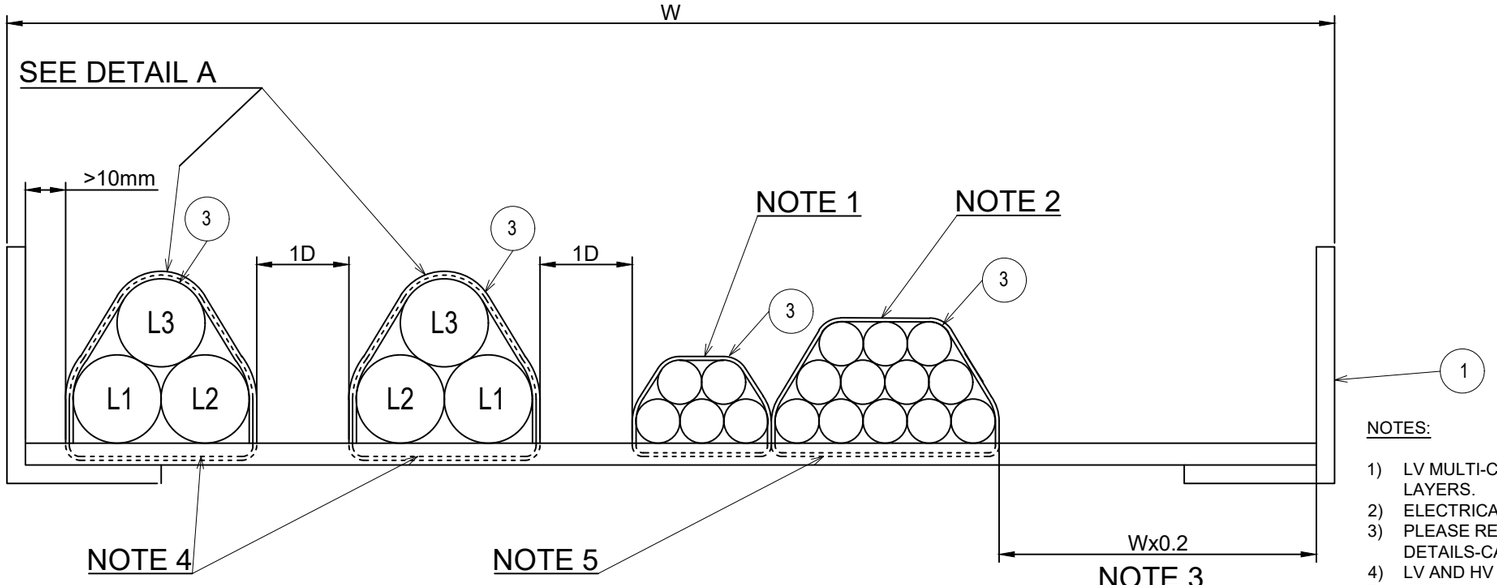
File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

C-05A

HV CABLETRAY

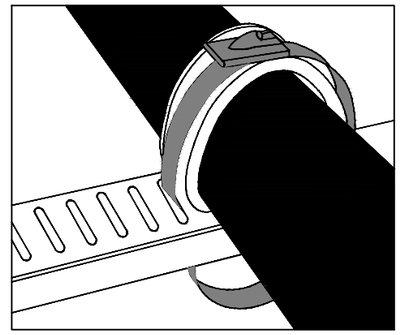


LV CABLETRAY



MATERIALS		
POS.		DESCRIPTION
1		CABLE LADDER AISI 316L
2		CABLE CLEATS STAINLESS STEEL FOR HV CABLES WITH TPE CABLE PROTECTION
3		UV RESISTANT PVC CABLE TIES
4		CABLE CLEATS STAINLESS STEEL FOR LV CABLES WITH TPE CABLE PROTECTION

DETAIL CABLE CLEATS



NOTES:

1) LV MULTI-CORE POWER CABLE (LESS THAN 120SQMM) CAN BE INSTALLED ON TWO LAYERS.
2) ELECTRICAL CONTROL CABLES CAN BE INSTALLED ON THREE LAYERS.
3) PLEASE REFER 123A90-DDL-EL-DD-20093-ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM SHEET-003 FOR CABLE SEGREGATION DETAIL.
4) LV AND HV SINGLE CORE POWER CABLE INSTALLED IN TREFOIL FORMATION.
5) FOR CABLE TIES INSTALLATION SEE DETAIL "C-06" ON SH.011.
6) CABLES BETWEEN TR-200DE1 TRASFORMER AND SG-200N1 POWER CENTER HAVE TO BE PROVIDE WITH CABLE CLEATES WITH STAINLESS STEEL TYPE

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

REV.:	DATE:	SIGNATURE:
2_A	28/08/24	G.Randi

ROSETTI MARINO SpA

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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES ARRANGEMENT IN CABLE LADDER/TRAY FOR ELECTRICAL 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 009 | REV. 02

F.to UNI A3: 420mmx297mm

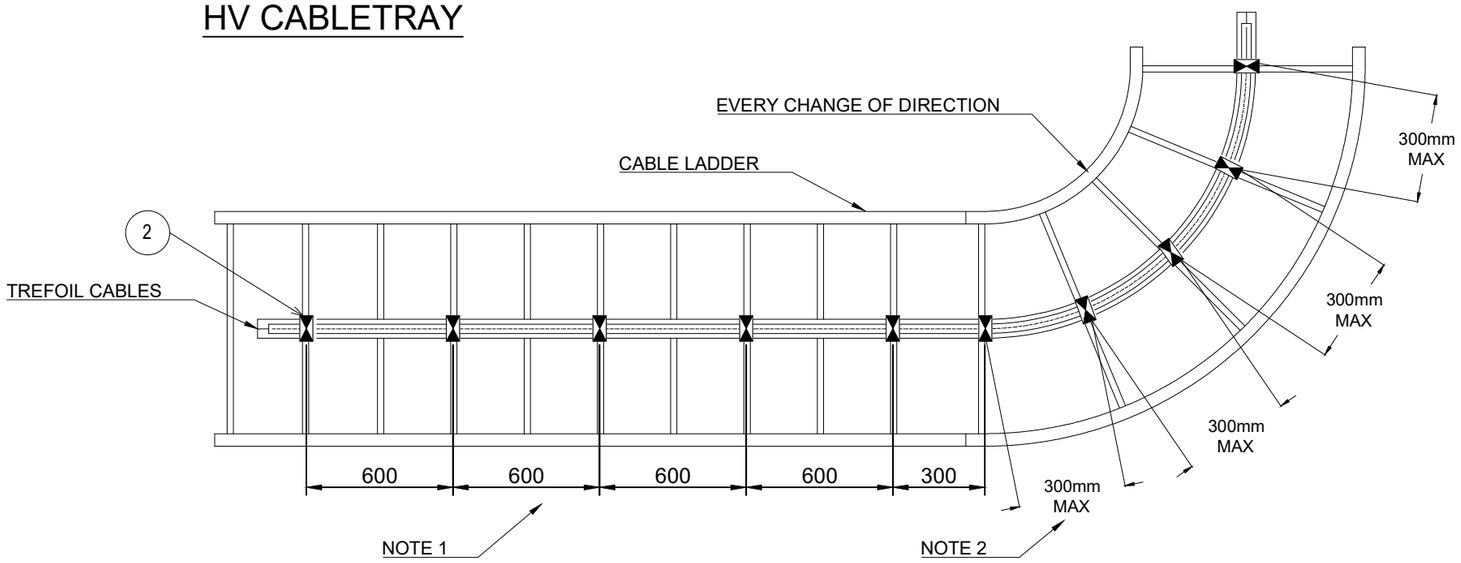
File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

C06

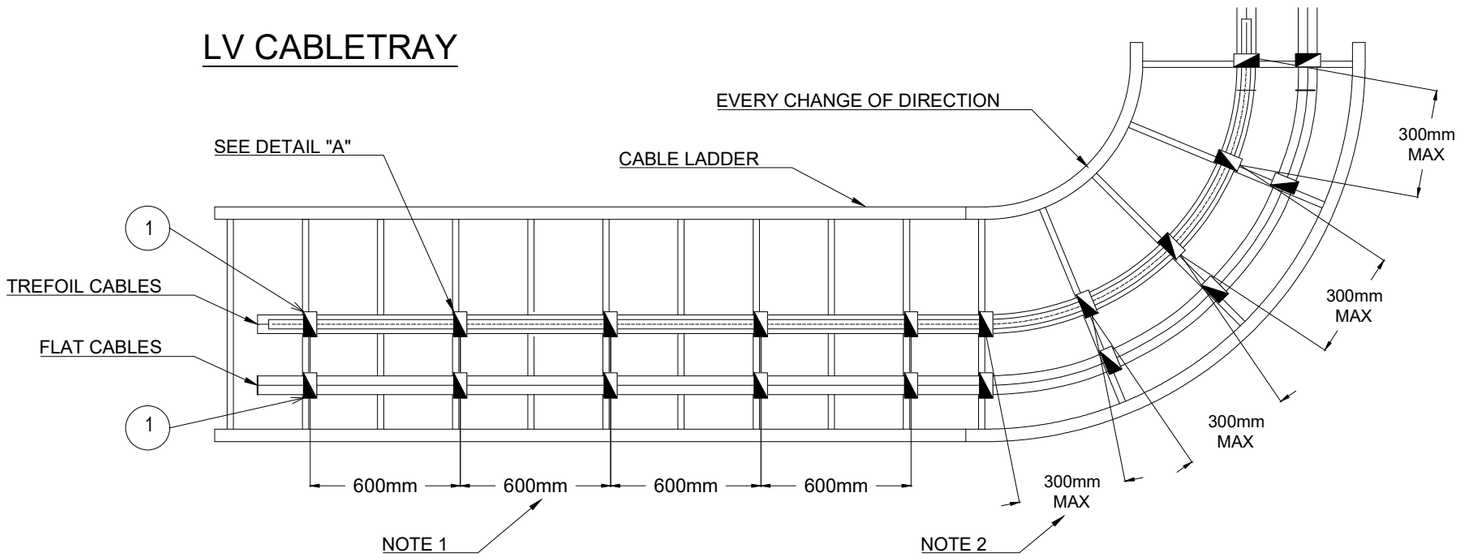
MAXIMUM CABLE TIES/CLEATS SPACING INSTALLATION DETAILS

MATERIALS		
POS.		DESCRIPTION
1		UV RESISTANT PVC CABLE TIES
2		STAINLESS STEEL DOUBLE WRAPPED CABLE CLEATS COMPLETE WITH TPE CUSHION SLEEVING

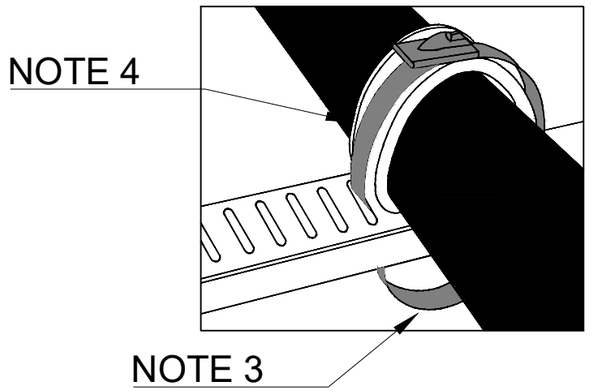
HV CABLETRAY



LV CABLETRAY



DETAIL "A" CABLE CLEATS



NOTES:

1) CABLES TIES SHALL BE HELD EVERY 600mm (CLEATS EVERY 600mm) ON HORIZONTAL RUNS.
2) CABLES SHALL BE HELD EVERY 300mm ON HORIZONTAL/VERTICAL ELBOW AND ON VERTICAL RUNS.
3) CABLE CLEATS WRAPPED TWO TIME AROUND THE CABLE RUNS.
4) TO PROTECT THE CABLE, INSTALL THE CUSHION SLEEVE BETWEEN THE CLAMP AND THE CABLE.

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20092
REV.: 2_A | DATE: 28/08/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
MAXI. CABLE TIES SPACING TYPICAL INSTALLATION DETAILS CABLE FASTENING IN TRAYS/LADDER

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

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 010 | REV. 02

F.to UNI A3: 420mmx297mm

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

ITEM	Tag	P-EJB-N-TEMP	: YARD_BRK-01 / JB-200E2			Dwg	
	S/Sys	83-99	: 400 V Temporary Yard Supply			Module	
TASK	code	C10003036		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type: Flame Retardant | Cores/Size mm²: 1CX95 | Color: GREY

From: YARD_BRK_01 | To: JB_200E2_TEMP

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).	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-EJB-N-TEMP	: YARD_BRK-01 / JB-200E2			Dwg	
	S/Sys	83-99	: 400 V Temporary Yard Supply			Module	
TASK	code	C10003036		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	NA	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		NA	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>542	
11		PH2 / PH1-PH3-A-E	NA	
12		PH3 / PH1-PH2-A-E	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

TYPE / SERIAL N° :	KEW3125A/Serial:W8330207	TYPE / SERIAL N° :	fluke/Serial:AW1/08(17140769)
Calibration certificate N° and date:	7722/24date:10/07/24	Calibration certificate N° and date:	7715/24 date:10/07/24

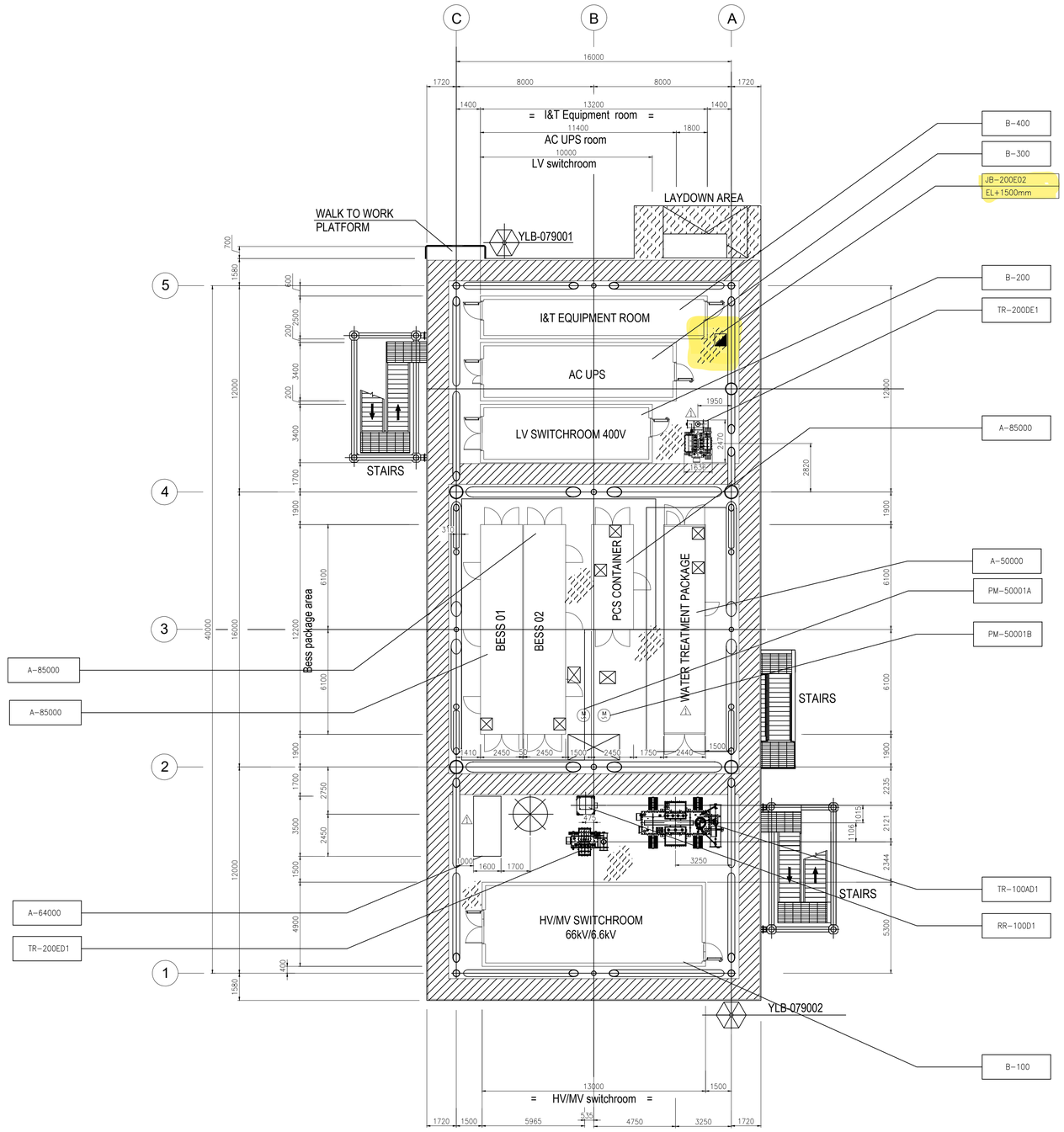
Comments:

	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS Impianti	RM (Rosetti Marino)	
Name	Carmelo Bongiovanni	Giovanni Tangianu	
Date	2024-09-13	2024-09-20	
Signature	PROVERLIS Digitaly signed by Carmelo Bongiovanni 2024-09-13T07:13:27.368Z	Firma Digitale Sicura Giovanni Tangianu 2024-09-20T12:54:34+0200	

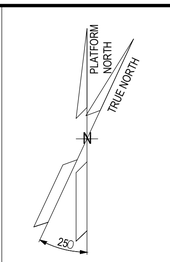
ITEM CODE	ITEM description	ITEM discipline	FROM ITEM	FROM description	TO ITEM	TO description	Cable Type/Section_Tubing Type/section	Cable Lenght [m]
P-EJB-L1-TEMP	YARD_BRK-01 / JB-200E2	E	YARD_BRK-01	Yard service power supply breaker	JB-200E2_TEMP	Temporary Junction Box	1X95	22
P-EJB-L2-TEMP	YARD_BRK-01 / JB-200E2	E	YARD_BRK-01	Yard service power supply breaker	JB-200E2_TEMP	Temporary Junction Box	1X95	22
P-EJB-L3-TEMP	YARD_BRK-01 / JB-200E2	E	YARD_BRK-01	Yard service power supply breaker	JB-200E2_TEMP	Temporary Junction Box	1X95	22
P-EJB-N-TEMP	YARD_BRK-01 / JB-200E2	E	YARD_BRK-01	Yard service power supply breaker	JB-200E2_TEMP	Temporary Junction Box	1X95	22
P-EJB-PE-TEMP	YARD_BRK-01 / JB-200E2	E	YARD_BRK-01	Yard service power supply breaker	JB-200E2_TEMP	Temporary Junction Box	1G95	22
83010-CEL-L1-TEMP	JB-200E2 / SG-200N1	E	JB-200E2_TEMP	Temporary Junction Box	SG-200N1	LV 0,4 kV MCC Switchgear	1X95	31
83010-CEL-L2-TEMP	JB-200E2 / SG-200N1	E	JB-200E2_TEMP	Temporary Junction Box	SG-200N1	LV 0,4 kV MCC Switchgear	1X95	31
83010-CEL-L3-TEMP	JB-200E2 / SG-200N1	E	JB-200E2_TEMP	Temporary Junction Box	SG-200N1	LV 0,4 kV MCC Switchgear	1X95	31
83010-CEL-N-TEMP	JB-200E2 / SG-200N1	E	JB-200E2_TEMP	Temporary Junction Box	SG-200N1	LV 0,4 kV MCC Switchgear	1X95	31
83010-CEL-PE-TEMP	JB-200E2 / SG-200N1	E	JB-200E2_TEMP	Temporary Junction Box	SG-200N1	LV 0,4 kV MCC Switchgear	1G95	31

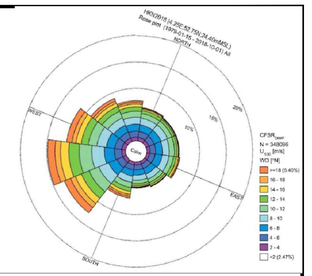
DRAWING NO. 123A90-DDL-EL-DL-20101

REV. 01



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





NOTES

1. ALL DIMENSIONS IN MM UNLESS NOTED OTHERWISE.
2. ALL ELEVATIONS IN METERS. UNLESS NOTED OTHERWISE.
3. ELEVATIONS REFER TO T.O.S.
4. FOR ELECTRICAL EQUIPMENT LAYOUT OF CONTAINERS B-100, B-200, B-300, B-400 REFER TO THE RESPECTIVE LAYOUTS.

LEGEND

(M)	ELECTRIC MOTOR – LOW VOLTAGE
⊠	INTERFACE PANEL
◪	JUNCTION BOX
JB-200E2 / EL+500mm	TAG ITEM / REFERED ELEVATION TO T.O.S. (TOP OF STEEL)

HOLDS

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20106	ELECTRICAL EQUIPMENT LAYOUT UPSs & BATTERIES SWITCHROOM
123A90-DDL-IN-DL-40012	ITER EQUIPMENT LAYOUT
123A90-DDL-EL-DL-20104	ELECTRICAL EQUIPMENT LAYOUT HV & MV SWITCHROOM
123A90-DDL-EL-DL-20105	LV SWITCHGEAR ROOM EQUIPMENT LAYOUT

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/05/24	SAM	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	04/03/24	SAM	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20101**

REV.:	DATE:	SIGNATURE:
1_A	08/08/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL EQUIPMENT LAYOUT
LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN SAM	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 04/03/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20101	SHEET 001	REV. 01

File Name : 123A90-DDL-EL-DL-20101-Electrical Equipment Layout – Lower Deck

yard service power supply breaker

Level 0

P-EJB-L1-TEMP
P-EJB-L2-TEMP
P-EJB-L3-TEMP
P-EJB-N-TEMP
P-EJB-PE-TEMP

3x(1x95)+N1x95+PE1x95

JB-200E2_TEMP
(temporary)

Lower Deck

83010-CEL-L1-TEMP
83010-CEL-L2-TEMP
83010-CEL-L3-TEMP
83010-CEL-N-TEMP
83010-CEL-PE-TEMP

3x(1x95)+N1x95+PE1x95
(Permanent)

SG-200N1
Main Switchboard (Permanent)

A2/+08

Lower Deck

ITRs that will need to be done:

- 10 ITRs-A for the cables (MC)
- 1 ITR-A for the TEMP JB (MC)
- 1 ITR-B for the Yard Breaker (COMM)
- 1 ITR-B for the TEMP JB (COMM)

Project: CROSSWIND

Temporary Yard Power Supply
SINGLE LINE DIAGRAM

TITLE

DATA SHEET FOR LV POWER CABLE (LSZH, FLAME RETARDANT)

CONSTRUCTIVE DATA

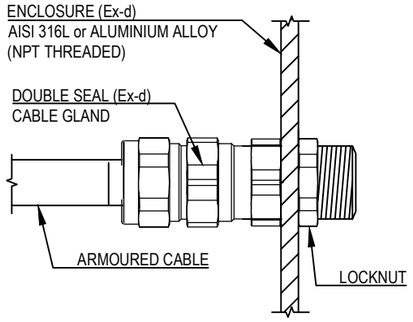
3	MR TAG / PART NUMBER			Note-3	Note-3	Note-3	Note-3
4	n° x NOMINAL AREA OF CONDUCTORS		N.xmm^2	1Cx300	1Cx95	3G2.5	3G4
5	n° AND DIAMETER OF WIRES IN EACH CONDUCTOR		N.xmm	37X3,35	19X2,67	7X0,67	7X0,85
6	CONDUCTOR CLASS (2)			2	2	2	2
7	RATED CURRENT IN AIR AT 30°		A	698	323	31	41
8	RATED CURRENT IN GROUND AT 20°		A	623	333	41	53
9							
10	A.C. PHASES RESISTANCE AT THE MAX OP. TEMP.		Ω/km	0,08	0,247	9,45	5,88
11	PHASE REACTANCE AT 50 Hz		Ω/km	0,08	0,085	0,103	0,096
12	MINIMUM INSULATION RESISTANCE AT 20°		MΩ/km	330	400	1100	1100
13	PHASE CAPACITY		µF/km	0,722	0,451	0,157	0,178
14							
15	MINIMUM ORDER Q.TY		m	300	300	300	300
16	MAX LENGHT OF DRUMS		m	1000	3000	7000	6000
17	DIAMETERS	BARE CONDUCTOR	mm	21	11,3	2	2,6
18		CORE (INSULATED CORE)	mm	25,8	14,5	4	4,6
19		INNER COVERING	mm	NA	NA	10,6	11,9
20		ARMOUR OR CONCENTRIC CONDUCTOR	mm	NA	NA	NA	NA
21							
22							
23		OVERALL	mm	29,4	17,3	13	14,3
24	MASSES	CONDUCTORS	kg/km	2730	864	68	109
25		INSULATION	kg/km	205	58	28	34
26		INNER COVERING	kg/km	NA	NA	83	101
27		ARMOUR OR CONCENTRIC CONDUCTOR	kg/km	NA	NA	NA	NA
28		OUTER SHEATING	kg/km	320	100	74	82
29							
30		TOTAL	kg/km	3255	1022	253	326
31	EXTERNAL COLOUR			GREY	GREY	GREY	GREY
32	CORE IDENTIFICATION (1)			BK	BK	BN,BU,Y/G	BN,BU,Y/G
33							
34							
35							
36							
37							
38							

NOTE: (1) BK=BLACK, BN=BROWN, GY=GRAY, BU=BLUE, RD=RED, Y/G=YELLOW/GREEN

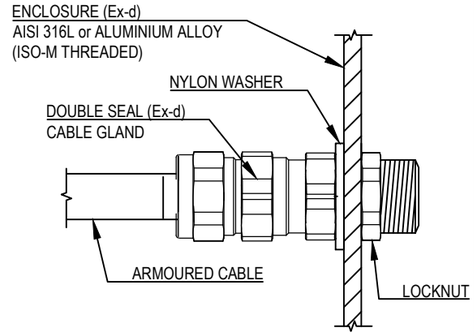
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C01

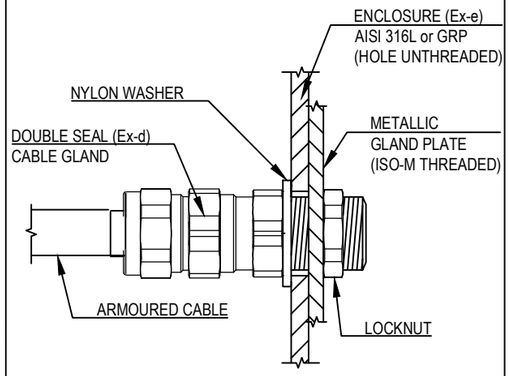
DETAIL "1"



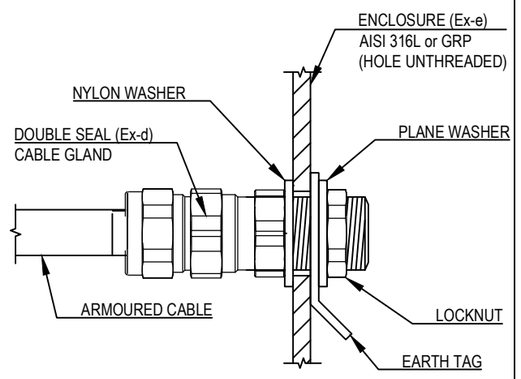
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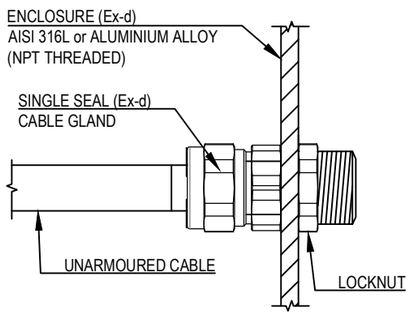
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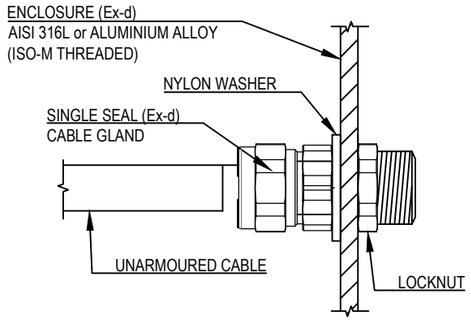
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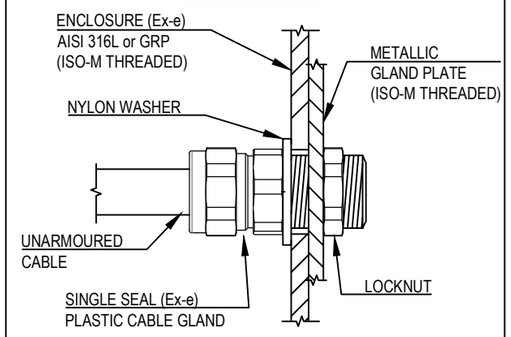
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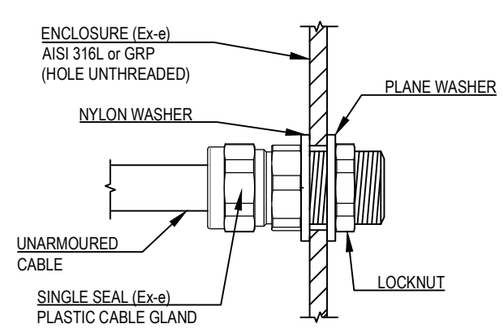
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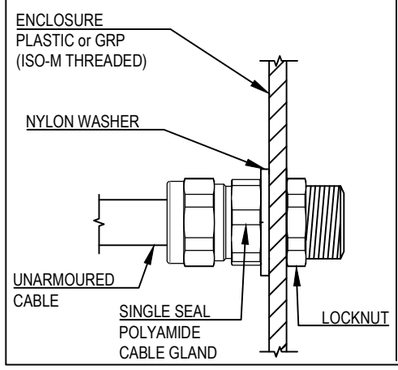
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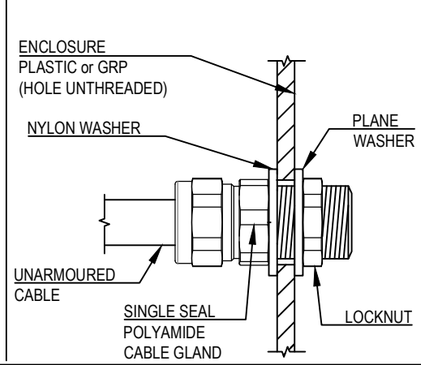
DETAIL "8"

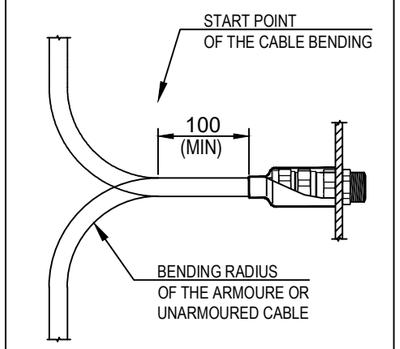


DETAIL "9"



DETAIL "10"





NOTES:

1) IF A REDUCTION OR ADAPTAR ARE NEEDED, ONLY ONE SHALL BE ALLOWED.
2) FOR GRP JUNCTION BOXES AND EQUIPMENTS CONNECTED BY ARMOURED CABLE, CABLE GLAND SHALL BE NICKEL PLATED BRASS TYPE AND GRP JUNCTION BOX AND EQUIPMENTS EQUIPPED WITH NICKEL PLATED CABLE GLAND PLATE. IF THE CABLE IS NON-ARMOURED, CABLE GLAND MAY BE POLYAMIDE TYPE.
3) SINGLE CORE CABLE SHALL HAVE AN EQUIPMENT ENTRY VIA NON MAGNETIC GLAND PLATE AND CONNECTING BY HDG STEEL CABLE GLAND.
4) OUTDOOR CABLE ENTRIES SHALL PREFERABLY BE FROM BOTTOM ENTRY, SIDE ENTRY SHALL BE SUBMITTED TO THE COMPANY APPROVAL. CABLE ENTRY FROM TOP IS FORBIDDEN.

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

REV.:	DATE:	SIGNATURE:
2_A	28/08/24	G.Randi

ROSETTI MARINO SpA

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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
POWER TYPICAL DETAIL CABLE GLAND INSTALLATION FOR E&I CABLES

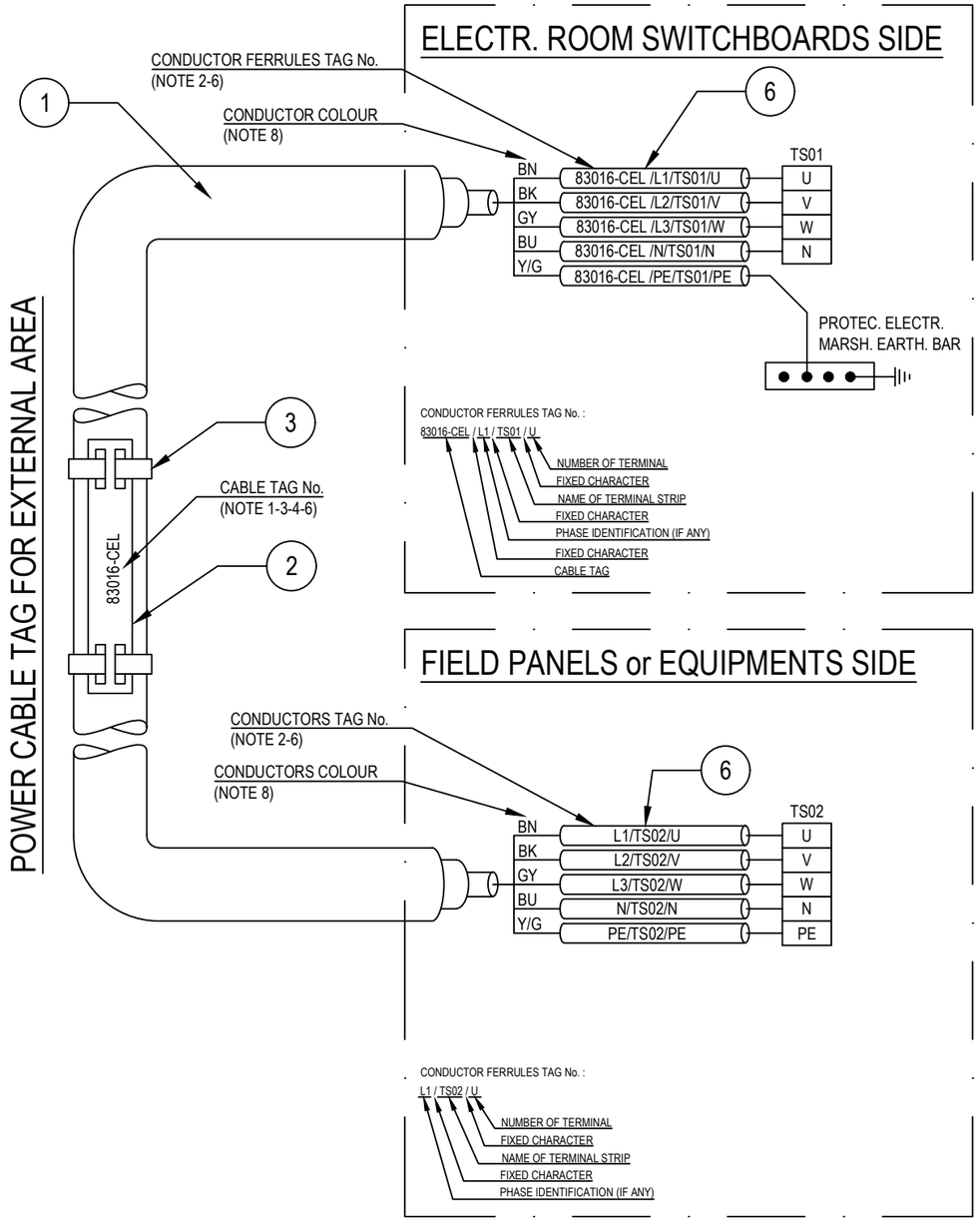
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 006 | REV. 02

F.to UNI A3: 420mmx297mm

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

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.

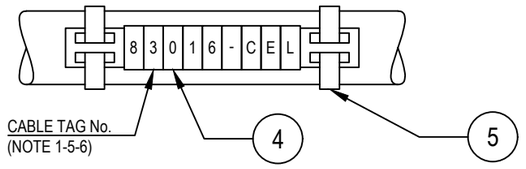
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

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.: 2_A | DATE: 28/08/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

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)

CROSSWIND

ROSETTI MARINO

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

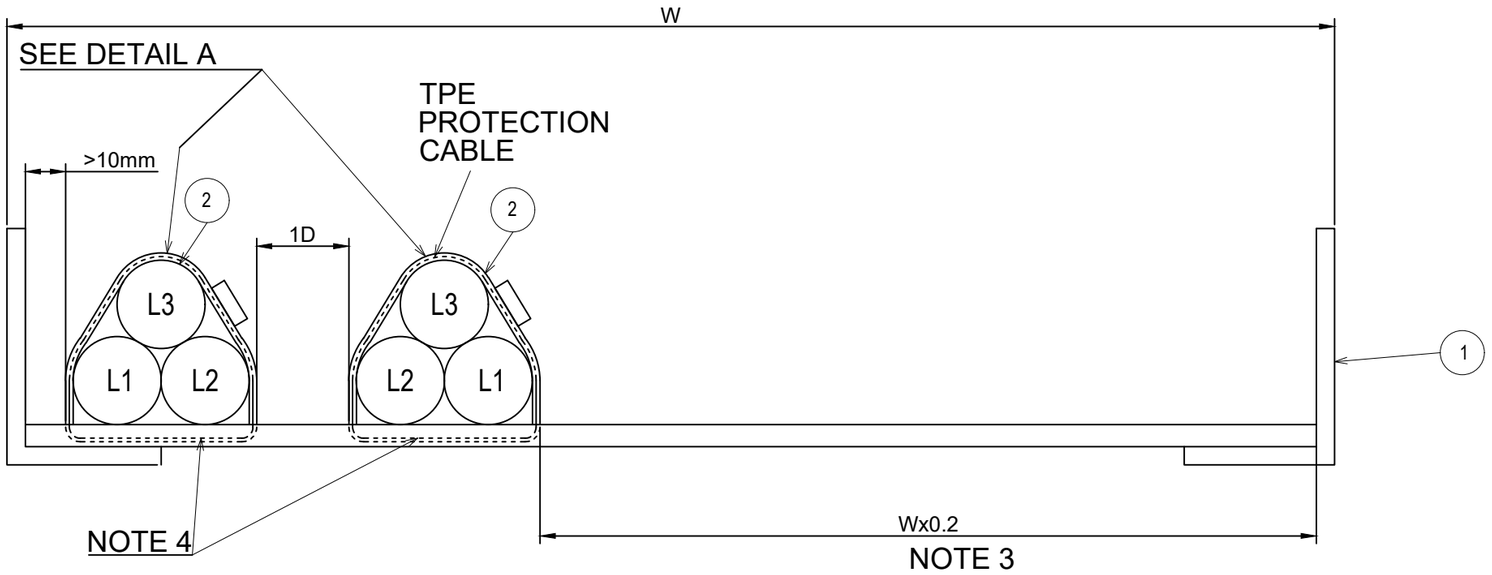
A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

F.to UNI A3: 420mmx297mm

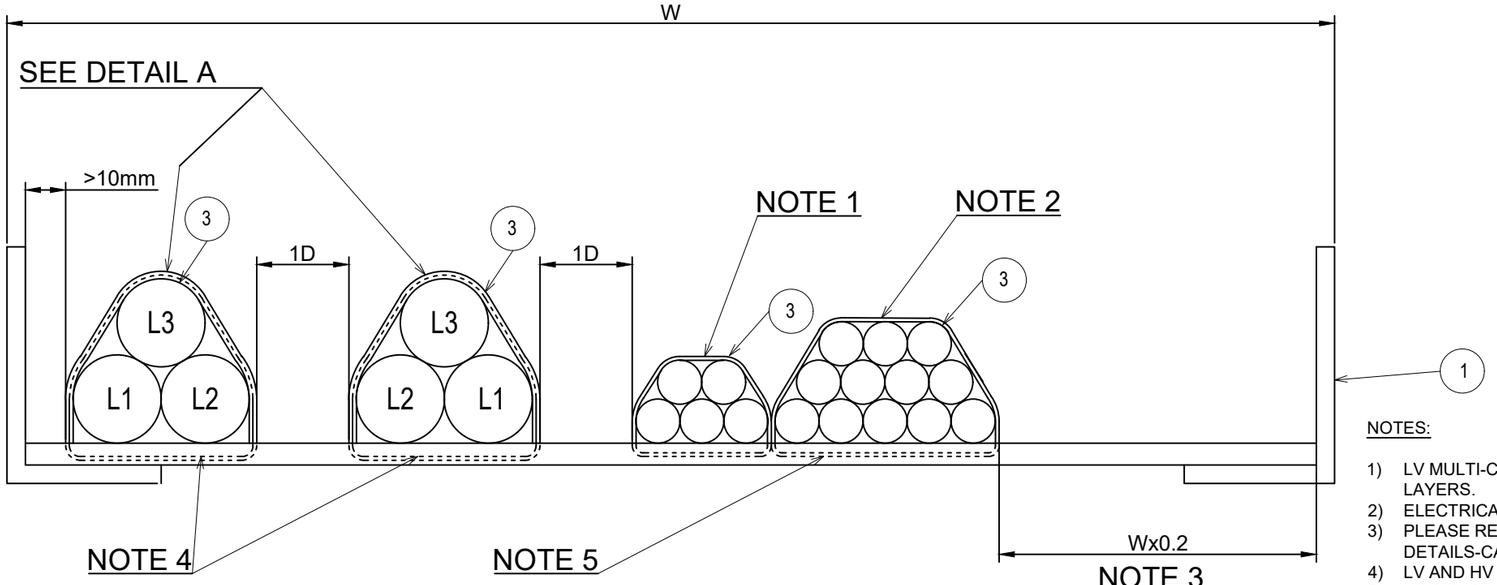
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C-05A

HV CABLETRAY

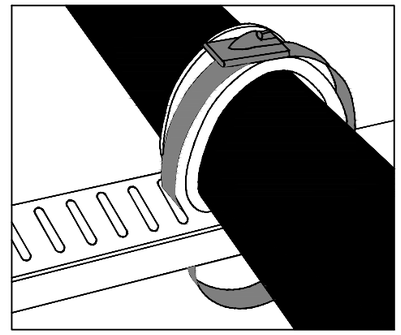


LV CABLETRAY



MATERIALS		
POS.		DESCRIPTION
1		CABLE LADDER AISI 316L
2		CABLE CLEATS STAINLESS STEEL FOR HV CABLES WITH TPE CABLE PROTECTION
3		UV RESISTANT PVC CABLE TIES
4		CABLE CLEATS STAINLESS STEEL FOR LV CABLES WITH TPE CABLE PROTECTION

DETAIL CABLE CLEATS



NOTES:

1) LV MULTI-CORE POWER CABLE (LESS THAN 120SQMM) CAN BE INSTALLED ON TWO LAYERS.
2) ELECTRICAL CONTROL CABLES CAN BE INSTALLED ON THREE LAYERS.
3) PLEASE REFER 123A90-DDL-EL-DD-20093-ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM SHEET-003 FOR CABLE SEGREGATION DETAIL.
4) LV AND HV SINGLE CORE POWER CABLE INSTALLED IN TREFOIL FORMATION.
5) FOR CABLE TIES INSTALLATION SEE DETAIL "C-06" ON SH.011.
6) CABLES BETWEEN TR-200DE1 TRASFORMER AND SG-200N1 POWER CENTER HAVE TO BE PROVIDE WITH CABLE CLEATES WITH STAINLESS STEEL TYPE

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

REV.:	DATE:	SIGNATURE:
2_A	28/08/24	G.Randi

ROSETTI MARINO SpA

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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES ARRANGEMENT IN CABLE LADDER/TRAY FOR ELECTRICAL 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 009 | REV. 02

F.to UNI A3: 420mmx297mm

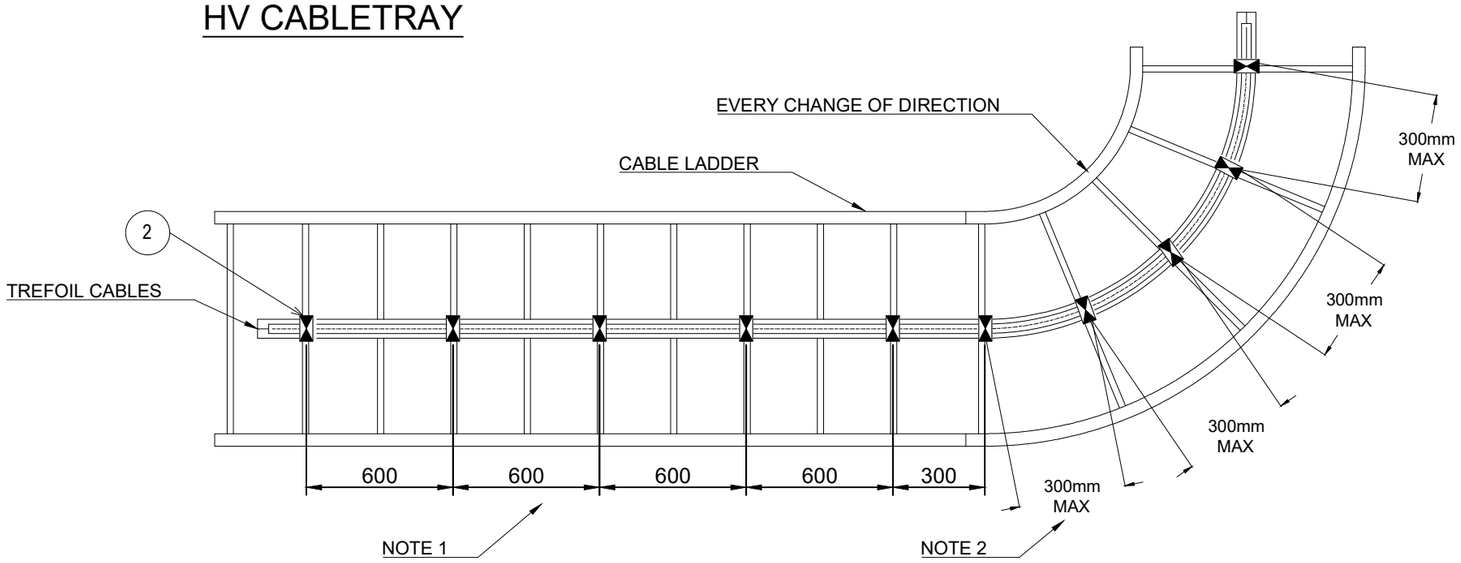
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C06

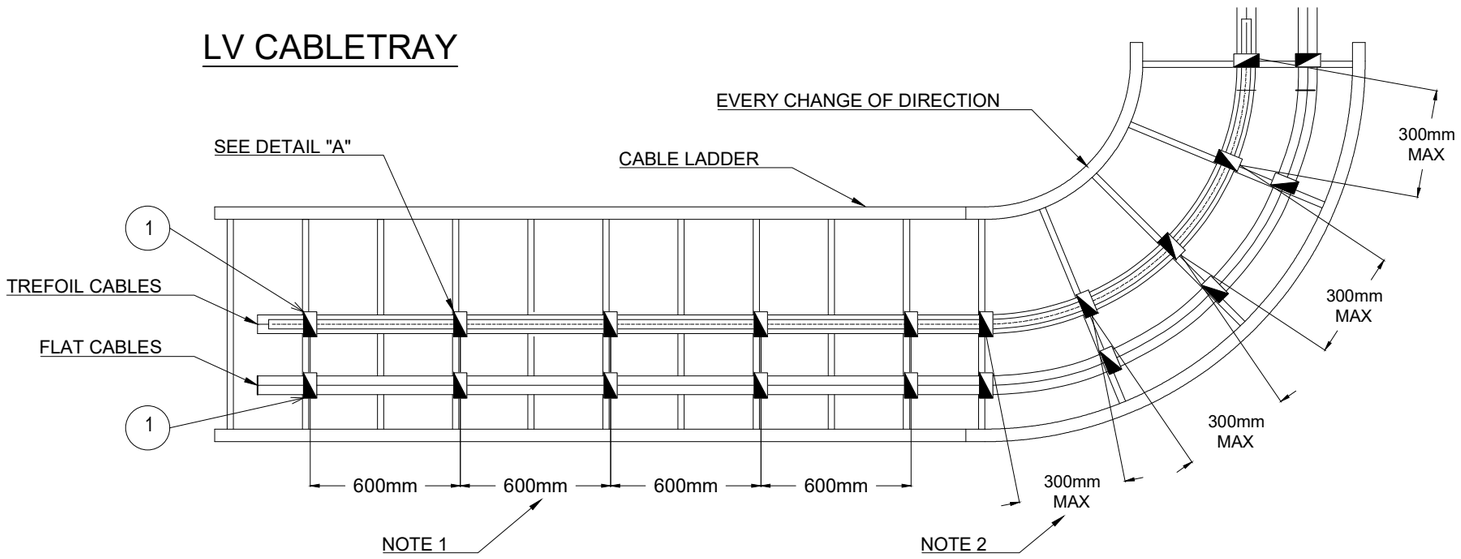
MAXIMUM CABLE TIES/CLEATS SPACING INSTALLATION DETAILS

MATERIALS		
POS.		DESCRIPTION
1		UV RESISTANT PVC CABLE TIES
2		STAINLESS STEEL DOUBLE WRAPPED CABLE CLEATS COMPLETE WITH TPE CUSHION SLEEVING

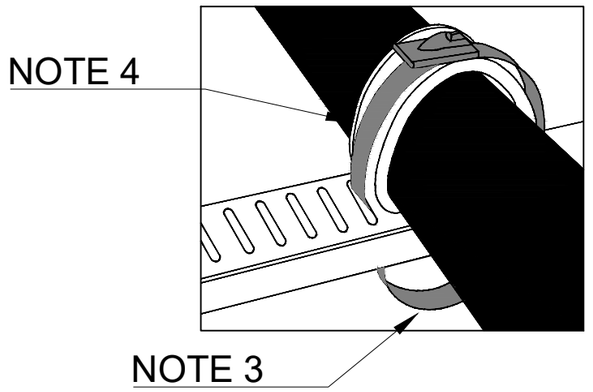
HV CABLETRAY



LV CABLETRAY



DETAIL "A" CABLE CLEATS



NOTES:

1) CABLES TIES SHALL BE HELD EVERY 600mm (CLEATS EVERY 600mm) ON HORIZONTAL RUNS.
2) CABLES SHALL BE HELD EVERY 300mm ON HORIZONTAL/VERTICAL ELBOW AND ON VERTICAL RUNS.
3) CABLE CLEATS WRAPPED TWO TIME AROUND THE CABLE RUNS.
4) TO PROTECT THE CABLE, INSTALL THE CUSHION SLEEVE BETWEEN THE CLAMP AND THE CABLE.

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20092
REV.: 2_A | DATE: 28/08/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
MAXI. CABLE TIES SPACING TYPICAL INSTALLATION DETAILS CABLE FASTENING IN TRAYS/LADDER

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

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 010 | REV. 02

F.to UNI A3: 420mmx297mm

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

ITEM	Tag	P-EJB-PE-TEMP	: YARD_BRK-01 / JB-200E2			Dwg	
	S/Sys	83-99	: 400 V Temporary Yard Supply			Module	
TASK	code	C10003037		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical Form CPX09		LV Power Cable

CABLE DATA

Type flame Retardant Cores/Size mm² 1CX95 Color Y/G

From YARD_BRK_01 To JB_200E2_TEMP

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).	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"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-EJB-PE-TEMP	: YARD_BRK-01 / JB-200E2			Dwg	
	S/Sys	83-99	: 400 V Temporary Yard Supply			Module	
TASK	code	C10003037		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	NA	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		NA	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>47,1	
11		PH2 / PH1-PH3-A-E	NA	
12		PH3 / PH1-PH2-A-E	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	KEW3125A/Serial:n:8330207	TYPE / SERIAL N° :	fluke/Serial:AW1/08(17140769)
Calibration certificate N° and date:	7722/24date:10/07/24	Calibration certificate N° and date:	7715/24date:10/07/24

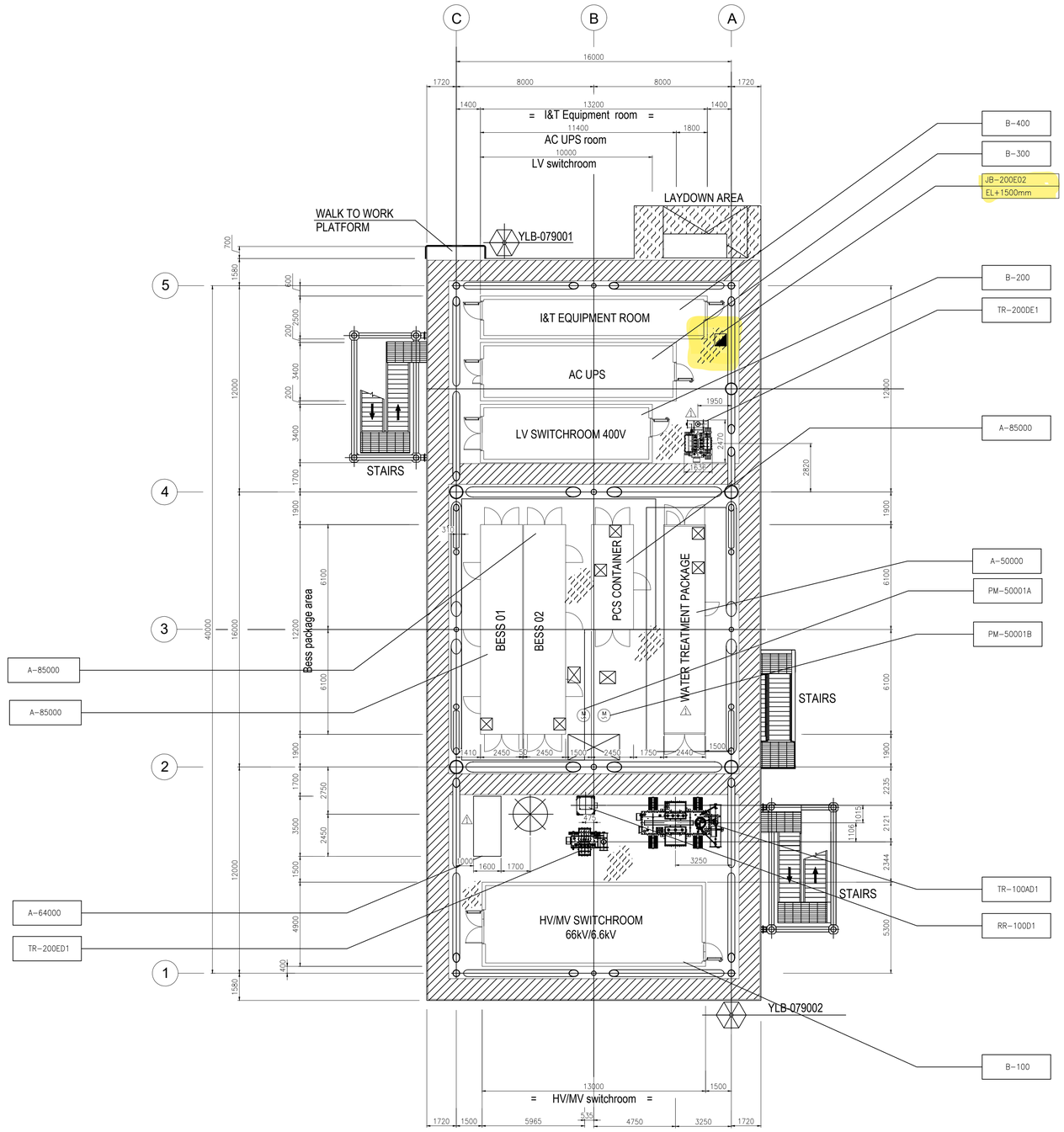
Comments:

	Performed by	☉ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS Impianti	RM (Rosetti Marino)	
Name	Carmelo Bongiovanni	Giovanni Tangianu	
Date	2024-09-13	2024-09-20	
Signature	PROVERLIS Digitaly signed by Carmelo Bongiovanni 2024-09-13T07:13:47.238Z	Firma Digitale Sicura Giovanni Tangianu 2024-09-20T12:56:16+0200	

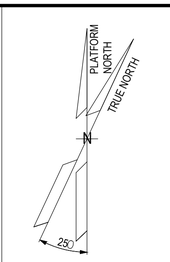
ITEM CODE	ITEM description	ITEM discipline	FROM ITEM	FROM description	TO ITEM	TO description	Cable Type/Section_Tubing Type/section	Cable Lenght [m]
P-EJB-L1-TEMP	YARD_BRK-01 / JB-200E2	E	YARD_BRK-01	Yard service power supply breaker	JB-200E2_TEMP	Temporary Junction Box	1X95	22
P-EJB-L2-TEMP	YARD_BRK-01 / JB-200E2	E	YARD_BRK-01	Yard service power supply breaker	JB-200E2_TEMP	Temporary Junction Box	1X95	22
P-EJB-L3-TEMP	YARD_BRK-01 / JB-200E2	E	YARD_BRK-01	Yard service power supply breaker	JB-200E2_TEMP	Temporary Junction Box	1X95	22
P-EJB-N-TEMP	YARD_BRK-01 / JB-200E2	E	YARD_BRK-01	Yard service power supply breaker	JB-200E2_TEMP	Temporary Junction Box	1X95	22
P-EJB-PE-TEMP	YARD_BRK-01 / JB-200E2	E	YARD_BRK-01	Yard service power supply breaker	JB-200E2_TEMP	Temporary Junction Box	1G95	22
83010-CEL-L1-TEMP	JB-200E2 / SG-200N1	E	JB-200E2_TEMP	Temporary Junction Box	SG-200N1	LV 0,4 kV MCC Switchgear	1X95	31
83010-CEL-L2-TEMP	JB-200E2 / SG-200N1	E	JB-200E2_TEMP	Temporary Junction Box	SG-200N1	LV 0,4 kV MCC Switchgear	1X95	31
83010-CEL-L3-TEMP	JB-200E2 / SG-200N1	E	JB-200E2_TEMP	Temporary Junction Box	SG-200N1	LV 0,4 kV MCC Switchgear	1X95	31
83010-CEL-N-TEMP	JB-200E2 / SG-200N1	E	JB-200E2_TEMP	Temporary Junction Box	SG-200N1	LV 0,4 kV MCC Switchgear	1X95	31
83010-CEL-PE-TEMP	JB-200E2 / SG-200N1	E	JB-200E2_TEMP	Temporary Junction Box	SG-200N1	LV 0,4 kV MCC Switchgear	1G95	31

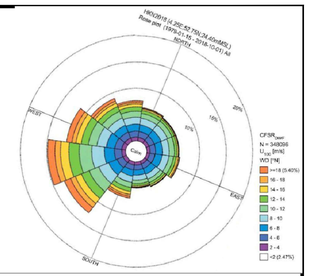
DRAWING NO. 123A90-DDL-EL-DL-20101

REV. 01



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





NOTES

1. ALL DIMENSIONS IN MM UNLESS NOTED OTHERWISE.
2. ALL ELEVATIONS IN METERS. UNLESS NOTED OTHERWISE.
3. ELEVATIONS REFER TO T.O.S.
4. FOR ELECTRICAL EQUIPMENT LAYOUT OF CONTAINERS B-100, B-200, B-300, B-400 REFER TO THE RESPECTIVE LAYOUTS.

LEGEND

(M)	ELECTRIC MOTOR – LOW VOLTAGE
⊠	INTERFACE PANEL
◪	JUNCTION BOX
JB-200E2 / EL+500mm	TAG ITEM / REFERED ELEVATION TO T.O.S. (TOP OF STEEL)

HOLDS

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20106	ELECTRICAL EQUIPMENT LAYOUT UPSs & BATTERIES SWITCHROOM
123A90-DDL-IN-DL-40012	ITER EQUIPMENT LAYOUT
123A90-DDL-EL-DL-20104	ELECTRICAL EQUIPMENT LAYOUT HV & MV SWITCHROOM
123A90-DDL-EL-DL-20105	LV SWITCHGEAR ROOM EQUIPMENT LAYOUT

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/05/24	SAM	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	04/03/24	SAM	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20101**

REV.:	DATE:	SIGNATURE:
1_A	08/08/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL EQUIPMENT LAYOUT
LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN SAM	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 04/03/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20101	SHEET 001	REV. 01

File Name : 123A90-DDL-EL-DL-20101-Electrical Equipment Layout – Lower Deck

yard service power supply breaker

Level 0

P-EJB-L1-TEMP
P-EJB-L2-TEMP
P-EJB-L3-TEMP
P-EJB-N-TEMP
P-EJB-PE-TEMP

3x(1x95)+N1x95+PE1x95

JB-200E2_TEMP
(temporary)

Lower Deck

83010-CEL-L1-TEMP
83010-CEL-L2-TEMP
83010-CEL-L3-TEMP
83010-CEL-N-TEMP
83010-CEL-PE-TEMP

3x(1x95)+N1x95+PE1x95
(Permanent)

SG-200N1
Main Switchboard (Permanent)

A2/+08

Lower Deck

ITRs that will need to be done:

- 10 ITRs-A for the cables (MC)
- 1 ITR-A for the TEMP JB (MC)
- 1 ITR-B for the Yard Breaker (COMM)
- 1 ITR-B for the TEMP JB (COMM)

Project: CROSSWIND

Temporary Yard Power Supply
SINGLE LINE DIAGRAM

TITLE

DATA SHEET FOR LV POWER CABLE (LSZH, FLAME RETARDANT)

CONSTRUCTIVE DATA

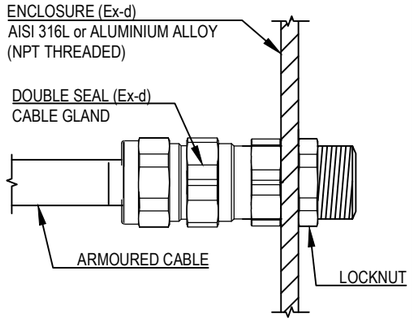
3	MR TAG / PART NUMBER			Note-3	Note-3	Note-3	Note-3
4	n° x NOMINAL AREA OF CONDUCTORS		N.xmm^2	1Cx300	1Cx95	3G2.5	3G4
5	n° AND DIAMETER OF WIRES IN EACH CONDUCTOR		N.xmm	37X3,35	19X2,67	7X0,67	7X0,85
6	CONDUCTOR CLASS (2)			2	2	2	2
7	RATED CURRENT IN AIR AT 30°		A	698	323	31	41
8	RATED CURRENT IN GROUND AT 20°		A	623	333	41	53
9							
10	A.C. PHASES RESISTANCE AT THE MAX OP. TEMP.		Ω/km	0,08	0,247	9,45	5,88
11	PHASE REACTANCE AT 50 Hz		Ω/km	0,08	0,085	0,103	0,096
12	MINIMUM INSULATION RESISTANCE AT 20°		MΩ/km	330	400	1100	1100
13	PHASE CAPACITY		µF/km	0,722	0,451	0,157	0,178
14							
15	MINIMUM ORDER Q.TY		m	300	300	300	300
16	MAX LENGHT OF DRUMS		m	1000	3000	7000	6000
17	DIAMETERS	BARE CONDUCTOR	mm	21	11,3	2	2,6
18		CORE (INSULATED CORE)	mm	25,8	14,5	4	4,6
19		INNER COVERING	mm	NA	NA	10,6	11,9
20		ARMOUR OR CONCENTRIC CONDUCTOR	mm	NA	NA	NA	NA
21							
22							
23		OVERALL	mm	29,4	17,3	13	14,3
24	MASSES	CONDUCTORS	kg/km	2730	864	68	109
25		INSULATION	kg/km	205	58	28	34
26		INNER COVERING	kg/km	NA	NA	83	101
27		ARMOUR OR CONCENTRIC CONDUCTOR	kg/km	NA	NA	NA	NA
28		OUTER SHEATING	kg/km	320	100	74	82
29							
30		TOTAL	kg/km	3255	1022	253	326
31	EXTERNAL COLOUR			GREY	GREY	GREY	GREY
32	CORE IDENTIFICATION (1)			BK	BK	BN,BU,Y/G	BN,BU,Y/G
33							
34							
35							
36							
37							
38							

NOTE: (1) BK=BLACK, BN=BROWN, GY=GRAY, BU=BLUE, RD=RED, Y/G=YELLOW/GREEN

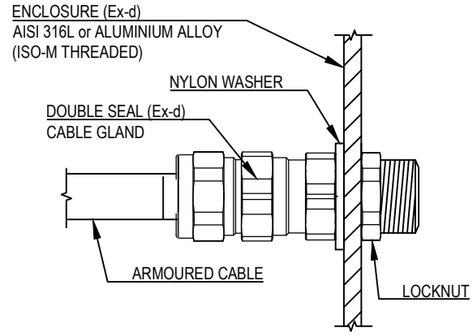
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C01

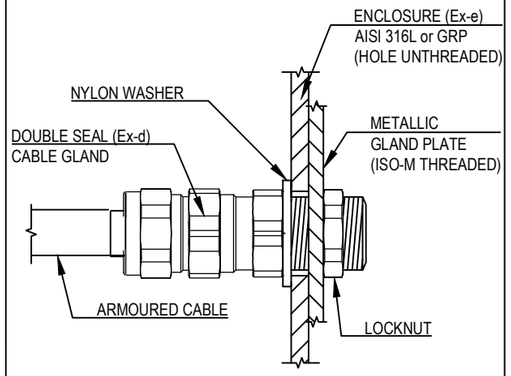
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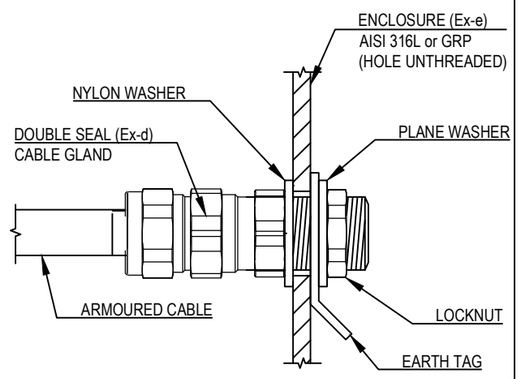
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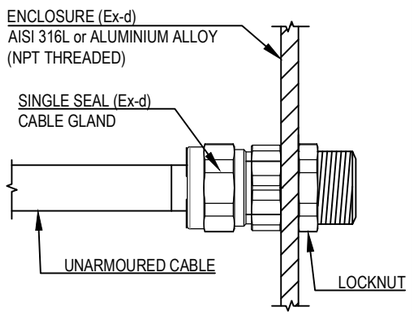
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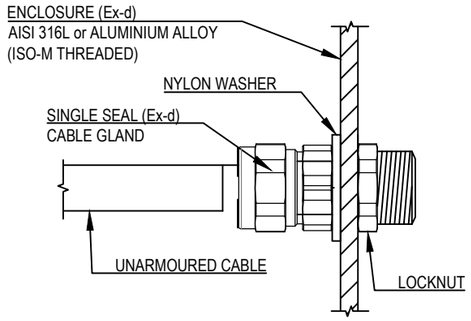
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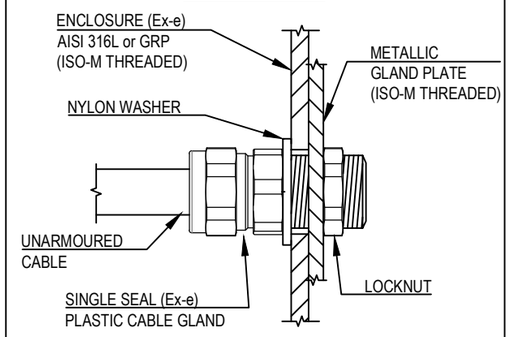
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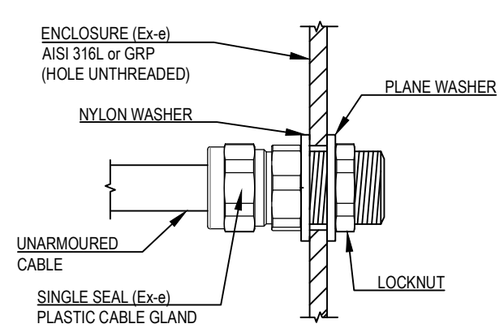
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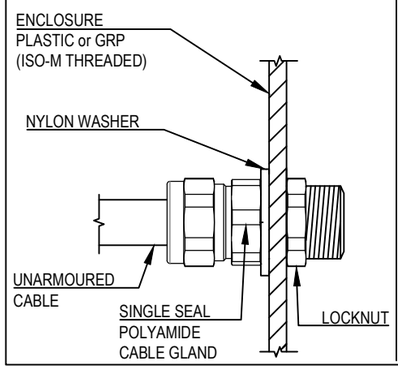
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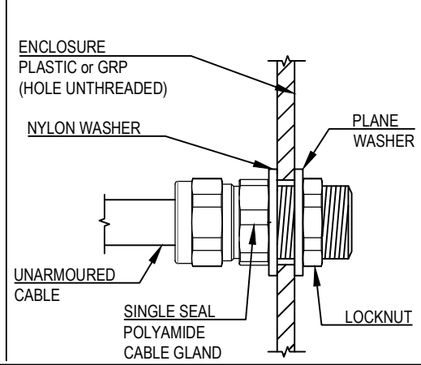
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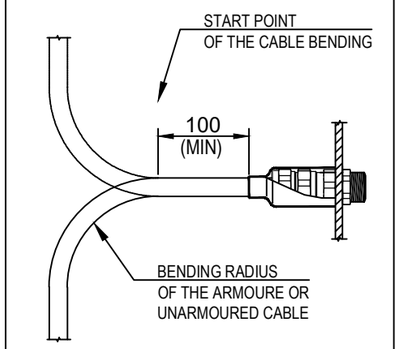


DETAIL "9"



DETAIL "10"





NOTES:

1) IF A REDUCTION OR ADAPTAR ARE NEEDED, ONLY ONE SHALL BE ALLOWED.
2) FOR GRP JUNCTION BOXES AND EQUIPMENTS CONNECTED BY ARMOURED CABLE, CABLE GLAND SHALL BE NICKEL PLATED BRASS TYPE AND GRP JUNCTION BOX AND EQUIPMENTS EQUIPPED WITH NICKEL PLATED CABLE GLAND PLATE. IF THE CABLE IS NON-ARMOURED, CABLE GLAND MAY BE POLYAMIDE TYPE.
3) SINGLE CORE CABLE SHALL HAVE AN EQUIPMENT ENTRY VIA NON MAGNETIC GLAND PLATE AND CONNECTING BY HDG STEEL CABLE GLAND.
4) OUTDOOR CABLE ENTRIES SHALL PREFERABLY BE FROM BOTTOM ENTRY, SIDE ENTRY SHALL BE SUBMITTED TO THE COMPANY APPROVAL. CABLE ENTRY FROM TOP IS FORBIDDEN.

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

REV.:	DATE:	SIGNATURE:
2_A	28/08/24	G.Randi

ROSETTI MARINO SpA

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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
POWER TYPICAL DETAIL CABLE GLAND INSTALLATION FOR E&I CABLES

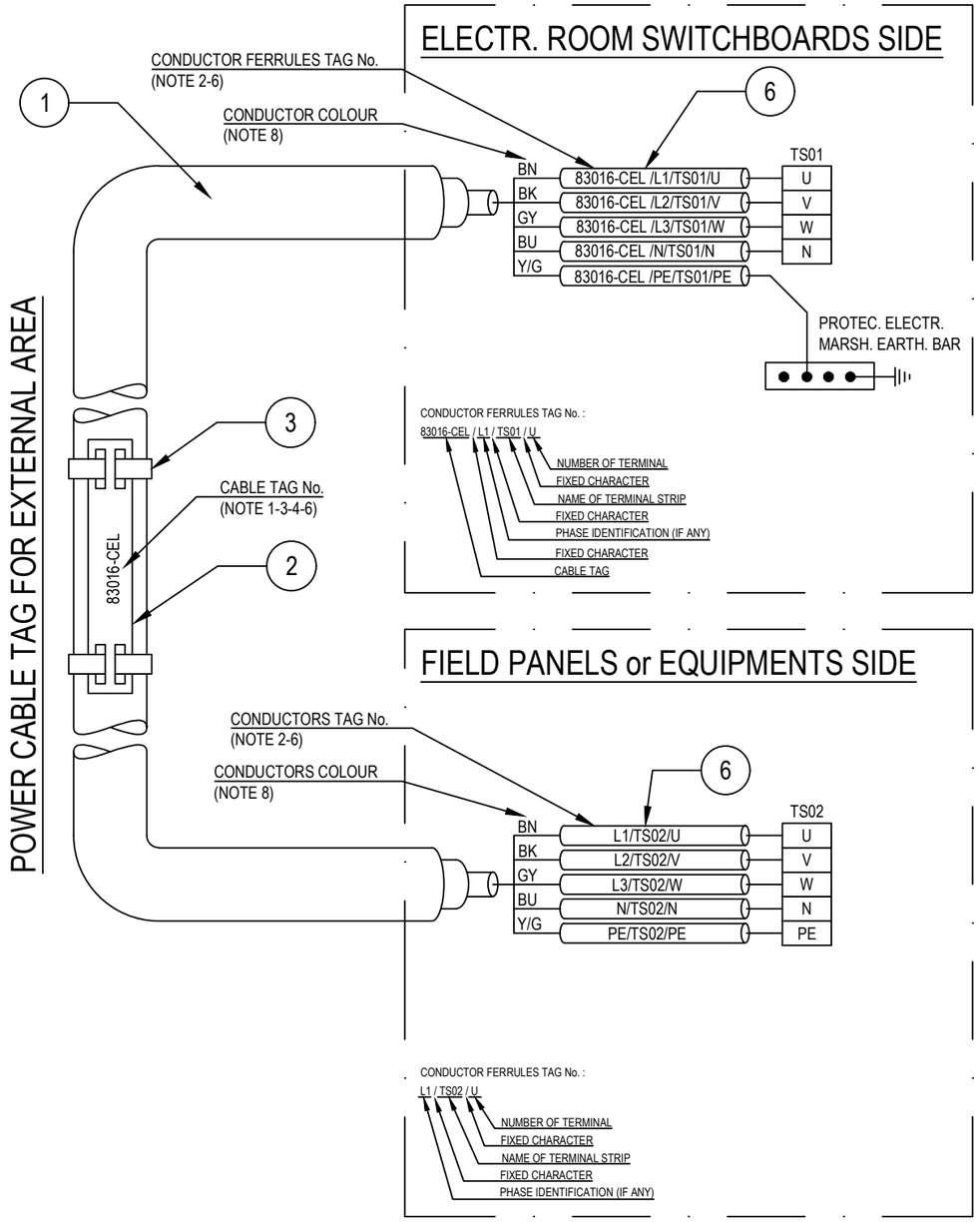
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 006 | REV. 02

F.to UNI A3: 420mmx297mm

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

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.

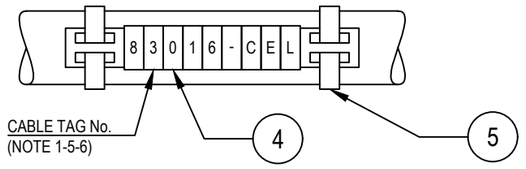
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

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.: 2_A | DATE: 28/08/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

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)

CROSSWIND

ROSETTI MARINO

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

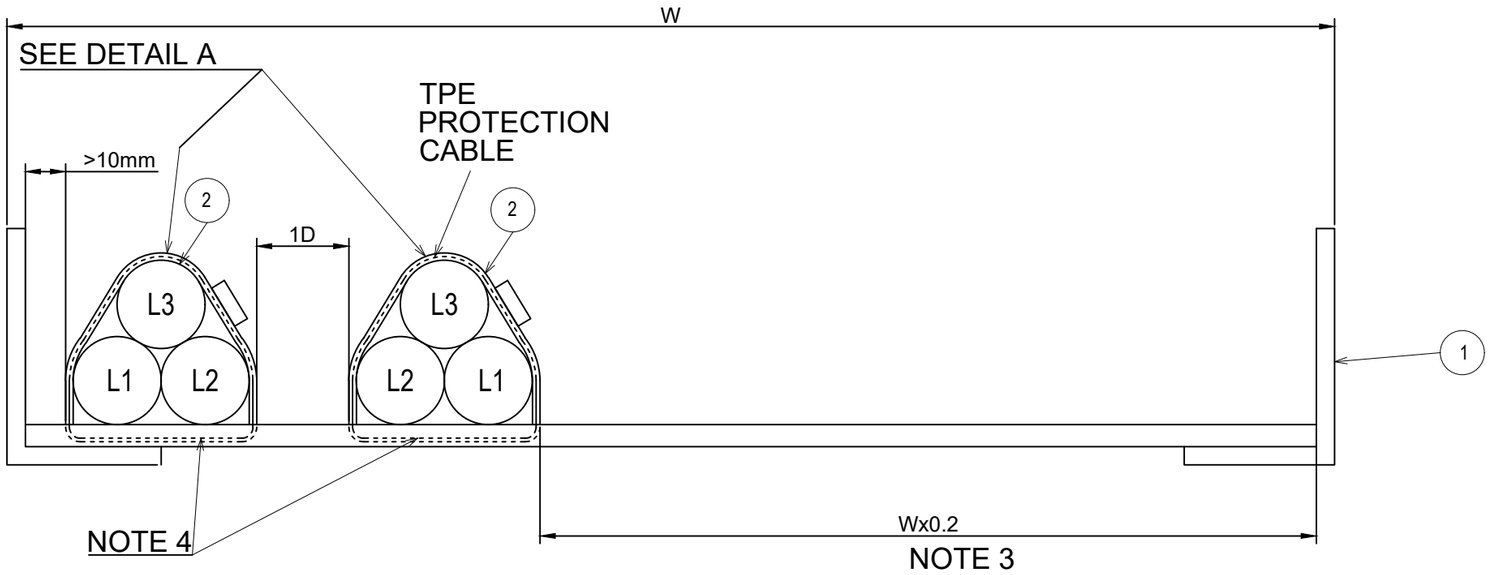
A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

F.to UNI A3: 420mmx297mm

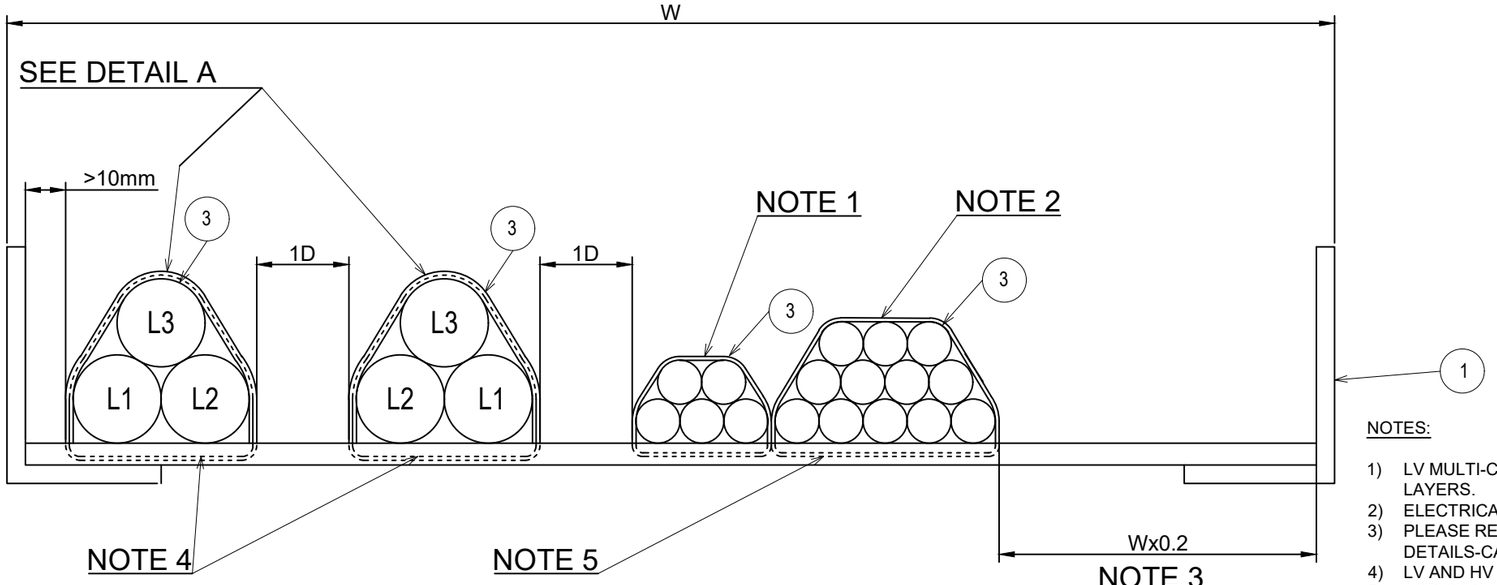
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C-05A

HV CABLETRAY

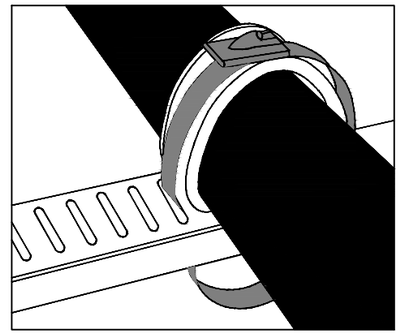


LV CABLETRAY



MATERIALS		
POS.		DESCRIPTION
1		CABLE LADDER AISI 316L
2		CABLE CLEATS STAINLESS STEEL FOR HV CABLES WITH TPE CABLE PROTECTION
3		UV RESISTANT PVC CABLE TIES
4		CABLE CLEATS STAINLESS STEEL FOR LV CABLES WITH TPE CABLE PROTECTION

DETAIL CABLE CLEATS



NOTES:

1) LV MULTI-CORE POWER CABLE (LESS THAN 120SQMM) CAN BE INSTALLED ON TWO LAYERS.
2) ELECTRICAL CONTROL CABLES CAN BE INSTALLED ON THREE LAYERS.
3) PLEASE REFER 123A90-DDL-EL-DD-20093-ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM SHEET-003 FOR CABLE SEGREGATION DETAIL.
4) LV AND HV SINGLE CORE POWER CABLE INSTALLED IN TREFOIL FORMATION.
5) FOR CABLE TIES INSTALLATION SEE DETAIL "C-06" ON SH.011.
6) CABLES BETWEEN TR-200DE1 TRASFORMER AND SG-200N1 POWER CENTER HAVE TO BE PROVIDE WITH CABLE CLEATES WITH STAINLESS STEEL TYPE

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

REV.:	DATE:	SIGNATURE:
2_A	28/08/24	G.Randi

ROSETTI MARINO SpA

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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES ARRANGEMENT IN CABLE LADDER/TRAY FOR ELECTRICAL 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 009 | REV. 02

F.to UNI A3: 420mmx297mm

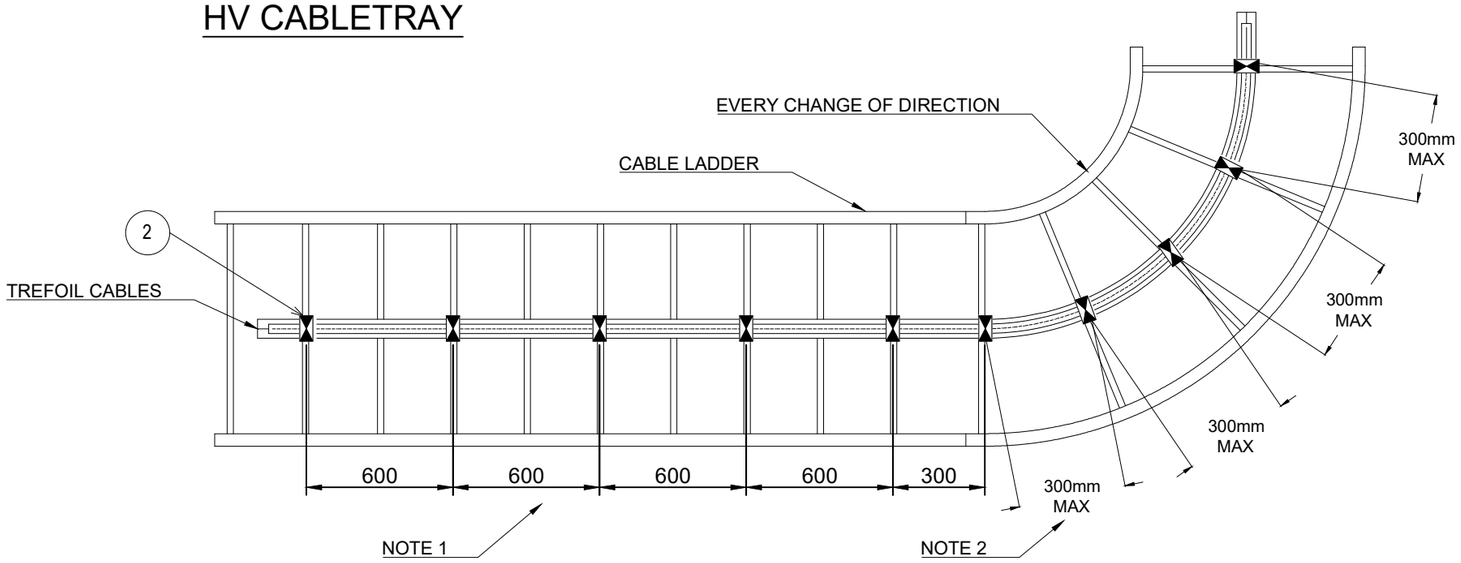
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C06

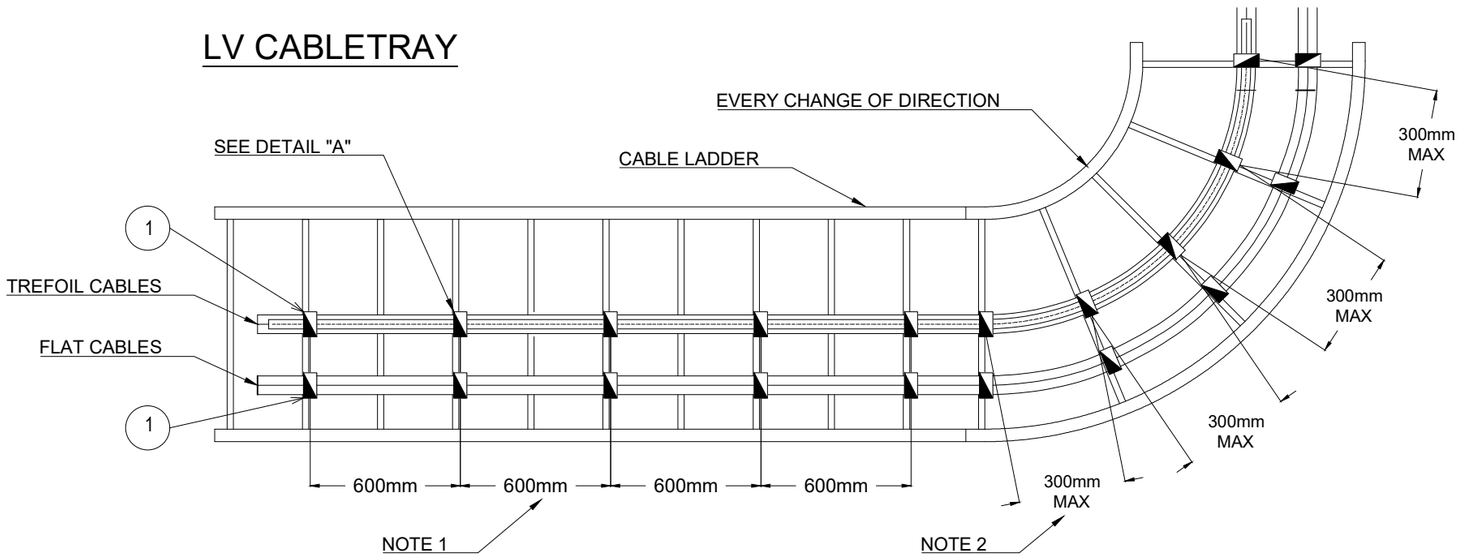
MAXIMUM CABLE TIES/CLEATS SPACING INSTALLATION DETAILS

MATERIALS		
POS.		DESCRIPTION
1		UV RESISTANT PVC CABLE TIES
2		STAINLESS STEEL DOUBLE WRAPPED CABLE CLEATS COMPLETE WITH TPE CUSHION SLEEVING

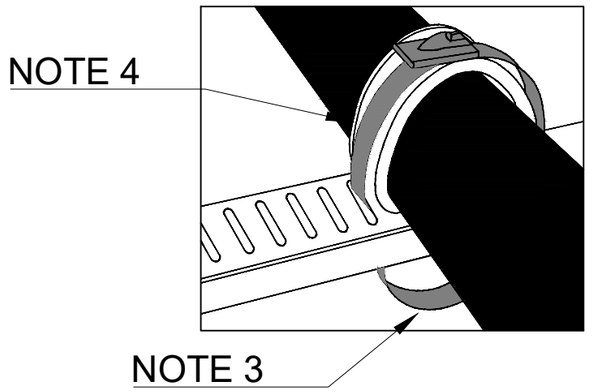
HV CABLETRAY



LV CABLETRAY



DETAIL "A" CABLE CLEATS



NOTES:

1) CABLES TIES SHALL BE HELD EVERY 600mm (CLEATS EVERY 600mm) ON HORIZONTAL RUNS.
2) CABLES SHALL BE HELD EVERY 300mm ON HORIZONTAL/VERTICAL ELBOW AND ON VERTICAL RUNS.
3) CABLE CLEATS WRAPPED TWO TIME AROUND THE CABLE RUNS.
4) TO PROTECT THE CABLE, INSTALL THE CUSHION SLEEVE BETWEEN THE CLAMP AND THE CABLE.

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20092
REV.: 2_A | DATE: 28/08/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
MAXI. CABLE TIES SPACING TYPICAL INSTALLATION DETAILS CABLE FASTENING IN TRAYS/LADDER

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

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 010 | REV. 02

F.to UNI A3: 420mmx297mm

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

ITEM	Tag	83010-CEL-L1-TEMP	: JB-200E2 / SG-200N1			Dwg	
	S/Sys	83-99	: 400 V Temporary Yard Supply			Module	
TASK	code	C10003038		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type: Flame Retardant | Cores/Size mm²: 1CX95 | Color: GREY

From: JB_200E2_TEMP | To: SG-200N1

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).	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"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	83010-CEL-L1-TEMP	: JB-200E2 / SG-200N1			Dwg	
	S/Sys	83-99	: 400 V Temporary Yard Supply			Module	
TASK	code	C10003038		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	NA	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		NA	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>308	
11		PH2 / PH1-PH3-A-E	NA	
12		PH3 / PH1-PH2-A-E	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	KEW3125A/Serial N:W8330207	TYPE / SERIAL N° :	Fluke/Serial:AW1/08(17140769)
Calibration certificate N° and date:	7722/24date10/07/24	Calibration certificate N° and date:	7715/24date: 10/07/24

Comments:

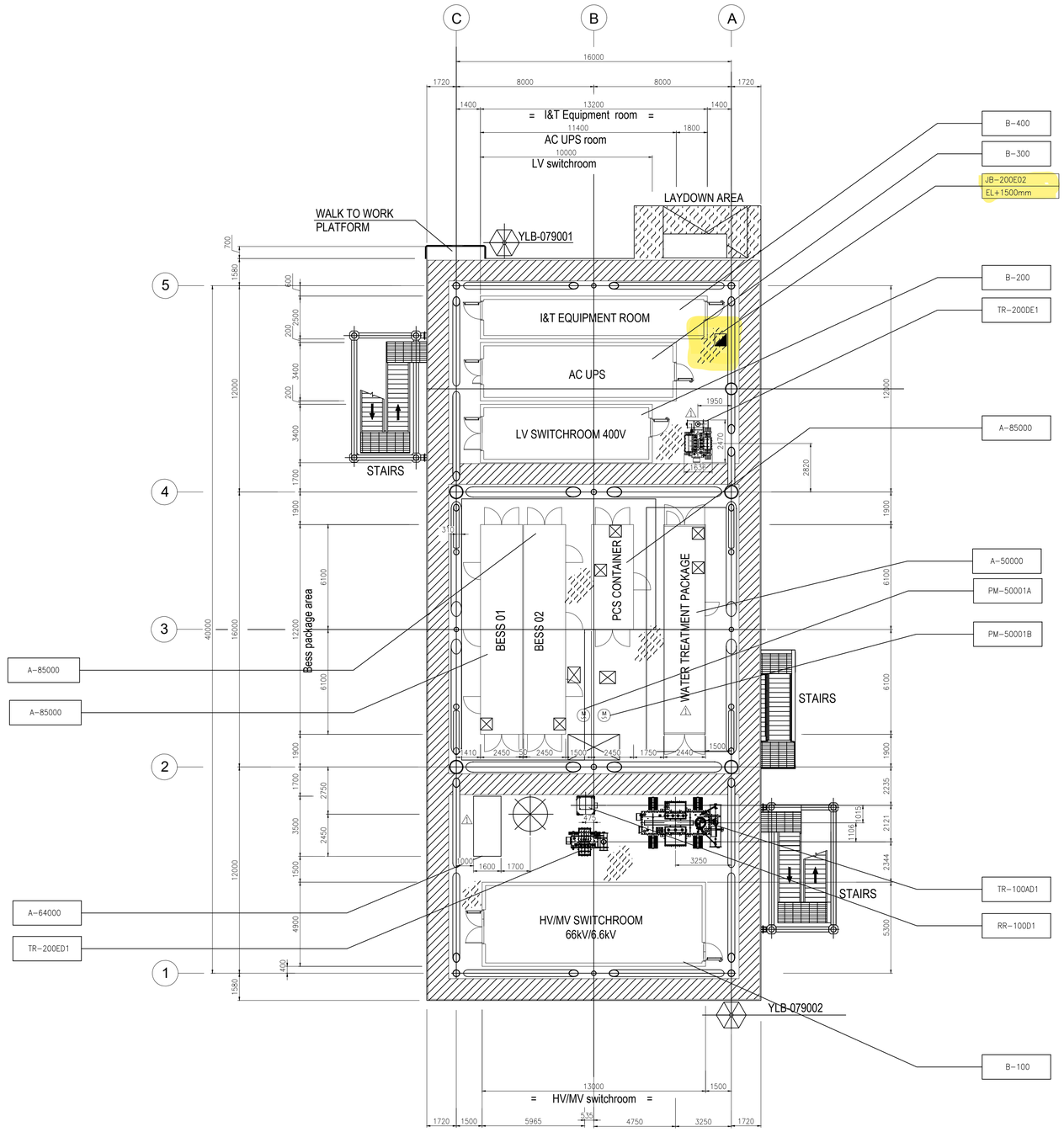
Page 2/2	Performed by	☉ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS Impianti	RM (Rosetti Marino)	
Name	Carmelo Bongiovanni	Giovanni Tangianu	
Date	2024-09-13	2024-09-20	
Signature	PROVERLIS Digitaly signed by Carmelo Bongiovanni 2024-09-13T07:14:24.159Z	Firma Digitale Sicura Giovanni Tangianu 2024-09-20T12:57:14+0200	

ROSETTI MARINO	CROSSWIND	Document Title:	ELECTRICAL POWER & CONTROL CABLE SCHEDULE	Rev.:	00	Rev. Date:	19/03/2024	Remarks:
		Project ID:	CW-I-WP4-2023-05	Issued by:	NLK	Sheet:	5 of 9	
		Document n°:	123A90-DDL-EL-LIS-20148	Reviewed by:	FMA/AMA	System:		
				Approved by:	FPA/DLO	Description:		
Project:	HOLLANDSE KUST NOORD WIND PARK Project			Loc./Plat./Mod.:		Status:		
Area:	BLPH			Doc. Type:		Class:		

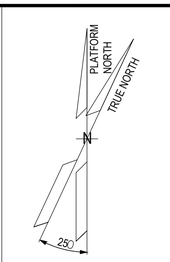
		CABLE TYPE										CABLE ROUTE: FROM									CABLE ROUTE: TO										CONDUIT				
POSITION	REVISION	TAG NUMBER	CABLE TYPE (3)	FORMATION mm^2	RATED VOLTAGE (V)	Estimated LENGTH (m)	LENGTH (m)(4)	SPARE (%)	TOTAL LENGTH (m)(5)	DRUM NUMBER (10)	SYSTEM	ITEM Tag	DESCRIPTION	Panel/JB/etc.	Cable Entry (Top or Botton)	Cable Peeling (m)	CABLE GLAND TYPE	CABLE GLAND SIZE	MCT Module	MCT Tag.	ITEM Tag	DESCRIPTION	Panel/JB/etc.	Cable Entry (Top or Botton)	Cable Peeling (m)	CABLE GLAND TYPE	CABLE GLAND SIZE	MCT Module	MCT Tag.	PHASE/ N /PE	SIZE	LENGTH (m)	ROUTING SECTION MARKER (2)	WIRING & TERMINATION DRAWING	NOTES
1	0	81001-CEH-L1	P1	1C X 300	66000	40	Note-4	10	47	Note-10	Power	JB-100A01	IAC Cable Extension - Interface JB T-Connector	XB2 (Z2)	Bottom	1,5	NA	NA	Hold		HNA6-AFA70	66kV GIS	QZ92	Side	1,5	NA	NA	Hold		L1	NA	NA	N O T E - 2	Note-12	
2	0	81001-CEH-L2	P1	1C X 300	66000	40	Note-4	10	47	Note-10	Power	JB-100A01	IAC Cable Extension - Interface JB T-Connector	XB2 (Z2)	Bottom	1,5	NA	NA	Hold		HNA6-AFA70	66kV GIS	QZ92	Side	1,5	NA	NA	Hold		L2	NA	NA	N O T E - 2	Note-12	
3	0	81001-CEH-L3	P1	1C X 300	66000	40	Note-4	10	47	Note-10	Power	JB-100A01	IAC Cable Extension - Interface JB T-Connector	XB2 (Z2)	Bottom	1,5	NA	NA	Hold		HNA6-AFA70	66kV GIS	QZ92	Side	1,5	NA	NA	Hold		L3	NA	NA	N O T E - 2	Note-12	
4	0	81002-CEH-L1	P1	1C X 300	66000	25	Note-4	10	31	Note-10	Power	HNA6-AFA70	66kV GIS	QZ91	Side	1,5	NA	NA	Hold		TR-200AD1	66/6.6 kV, 7MVA Transformer	HV Cable Box	Side	1,5	NA	NA	Hold		L1	NA	NA	N O T E - 2	Note-12	
5	0	81002-CEH-L2	P1	1C X 300	66000	25	Note-4	10	31	Note-10	Power	HNA6-AFA70	66kV GIS	QZ91	Side	1,5	NA	NA	Hold		TR-200AD1	66/6.6 kV, 7MVA Transformer	HV Cable Box	Side	1,5	NA	NA	Hold		L2	NA	NA	N O T E - 2	Note-12	
6	0	81002-CEH-L3	P1	1C X 300	66000	25	Note-4	10	31	Note-10	Power	HNA6-AFA70	66kV GIS	QZ91	Side	1,5	NA	NA	Hold		TR-200AD1	66/6.6 kV, 7MVA Transformer	HV Cable Box	Side	1,5	NA	NA	Hold		L3	NA	NA	N O T E - 2	Note-12	
7	0	82001-CEM-1-L1	P2	1C X 120	6600	25	Note-4	10	31	Note-10	Power	TR-100AD1	66kV, 7MVA Transformer	Secondary Cable Box	Side	1,5	NA	NA	Hold		SG-100D1	6.6KV HV Switchgear	A2	Top	1,5	NA	NA	Hold		L1	NA	NA	N O T E - 2	Note-12	
8	0	82001-CEM-2-L1	P2	1C X 120	6600	25	Note-4	10	31	Note-10	Power	TR-100AD1	66kV, 7MVA Transformer	Secondary Cable Box	Side	1,5	NA	NA	Hold		SG-100D1	6.6KV HV Switchgear	A2	Top	1,5	NA	NA	Hold		L1	NA	NA	N O T E - 2	Note-12	
9	0	82001-CEM-1-L2	P2	1C X 120	6600	25	Note-4	10	31	Note-10	Power	TR-100AD1	66kV, 7MVA Transformer	Secondary Cable Box	Side	1,5	NA	NA	Hold		SG-100D1	6.6KV HV Switchgear	A2	Top	1,5	NA	NA	Hold		L2	NA	NA	N O T E - 2	Note-12	
10	0	82001-CEM-2-L2	P2	1C X 120	6600	25	Note-4	10	31	Note-10	Power	TR-100AD1	66kV, 7MVA Transformer	Secondary Cable Box	Side	1,5	NA	NA	Hold		SG-100D1	6.6KV HV Switchgear	A2	Top	1,5	NA	NA	Hold		L2	NA	NA	N O T E - 2	Note-12	
11	0	82001-CEM-1-L3	P2	1C X 120	6600	25	Note-4	10	31	Note-10	Power	TR-100AD1	66kV, 7MVA Transformer	Secondary Cable Box	Side	1,5	NA	NA	Hold		SG-100D1	6.6KV HV Switchgear	A2	Top	1,5	NA	NA	Hold		L3	NA	NA	N O T E - 2	Note-12	
12	0	82001-CEM-2-L3	P2	1C X 120	6600	25	Note-4	10	31	Note-10	Power	TR-100AD1	66kV, 7MVA Transformer	Secondary Cable Box	Side	1,5	NA	NA	Hold		SG-100D1	6.6KV HV Switchgear	A2	Top	1,5	NA	NA	Hold		L3	NA	NA	N O T E - 2	Note-12	
13	0	82001-CEM-1-N	P2	1C X 120	6600	10	Note-4	10	14	Note-10	Power	TR-100AD1	66kV, 7MVA Transformer	Secondary Cable Box	Side	1,5	NA	NA	Hold		RR-100D1	NER	Cable Box	Bottom	1,5	NA	NA	Hold		N	NA	NA	N O T E - 2	Note-12	
14	0	82001-CEM-2-N	P2	1C X 120	6600	10	Note-4	10	14	Note-10	Power	RR-100D1	NER	Secondary Cable Box	Side	1,5	NA	NA	Hold		RR-100D1	NER Earth Point	Earth Boss	NA	1,5	NA	NA	Hold		N	NA	NA	N O T E - 2	Note-12	
15	0	82002-CEM-1-L1	P2	1C X 70	6600	44	Note-4	10	52	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A6	Top	1,5	NA	NA	Hold		TR-200DE1	6.6/0.4 KV, 1.6MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L1	NA	NA	N O T E - 2	Note-12	
16	0	82002-CEM-1-L2	P2	1C X 70	6600	44	Note-4	10	52	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A6	Top	1,5	NA	NA	Hold		TR-200DE1	6.6/0.4 KV, 1.6MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L2	NA	NA	N O T E - 2	Note-12	
17	0	82002-CEM-1-L3	P2	1C X 70	6600	44	Note-4	10	52	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A6	Top	1,5	NA	NA	Hold		TR-200DE1	6.6/0.4 KV, 1.6MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L3	NA	NA	N O T E - 2	Note-12	
18	0	82003-CEM-1-L1	P2	1C X 70	6600	78	Note-4	10	89	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A5	Top	1,5	NA	NA	Hold		TA30	6.6/0.4 KV, 1.25MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L1	NA	NA	N O T E - 2	Note-12	
19	0	82003-CEM-1-L2	P2	1C X 70	6600	78	Note-4	10	89	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A5	Top	1,5	NA	NA	Hold		TA30	6.6/0.4 KV, 1.25MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L2	NA	NA	N O T E - 2	Note-12	
20	0	82003-CEM-1-L3	P2	1C X 70	6600	78	Note-4	10	89	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A5	Top	1,5	NA	NA	Hold		TA30	6.6/0.4 KV, 1.25MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L3	NA	NA	N O T E - 2	Note-12	
21	0	82004-CEM-1-L1	P2	1C X 120	6600	45	Note-4	10	53	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A7	Top	1,5	NA	NA	Hold		T4	6.6/0.4/0.4 KV, 3.15MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L1	NA	NA	N O T E - 2	Note-12	
22	0	82004-CEM-1-L2	P2	1C X 120	6600	45	Note-4	10	53	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A7	Top	1,5	NA	NA	Hold		T4	6.6/0.4/0.4 KV, 3.15MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L2	NA	NA	N O T E - 2	Note-12	
23	0	82004-CEM-1-L3	P2	1C X 120	6600	45	Note-4	10	53	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A7	Top	1,5	NA	NA	Hold		T4	6.6/0.4/0.4 KV, 3.15MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L3	NA	NA	N O T E - 2	Note-12	
24	0	82005-CEM-1-L1	P2	1C X 70	6600	55	Note-4	10	64	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A4	Top	1,5	NA	NA	Hold		18T1	6.6/0.62 KV, 1.25MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L1	NA	NA	N O T E - 2	Note-12	
25	0	82005-CEM-1-L2	P2	1C X 70	6600	55	Note-4	10	64	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A4	Top	1,5	NA	NA	Hold		18T1	6.6/0.62 KV, 1.25MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L2	NA	NA	N O T E - 2	Note-12	
26	0	82005-CEM-1-L3	P2	1C X 70	6600	55	Note-4	10	64	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A4	Top	1,5	NA	NA	Hold		18T1	6.6/0.62 KV, 1.25MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L3	NA	NA	N O T E - 2	Note-12	
27	0	82006-CEM-1-L1	P2	1C X 70	6600	25	Note-4	10	31	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A1	Top	1,5	NA	NA	Hold		TR-200ED1	6.6/0.8 KV, 0.5MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L1	NA	NA	N O T E - 2	Note-12	
28	0	82006-CEM-1-L2	P2	1C X 70	6600	25	Note-4	10	31	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A1	Top	1,5	NA	NA	Hold		TR-200ED1	6.6/0.8 KV, 0.5MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L2	NA	NA	N O T E - 2	Note-12	
29	0	82006-CEM-1-L3	P2	1C X 70	6600	25	Note-4	10	31	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A1	Top	1,5	NA	NA	Hold		TR-200ED1	6.6/0.8 KV, 0.5MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L3	NA	NA	N O T E - 2	Note-12	
30	0	83001-CEL-1-L1	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L1	NA	NA	N O T E - 2	Note-12	
31	0	83001-CEL-2-L1	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L1	NA	NA	N O T E - 2	Note-12	
32	0	83001-CEL-3-L1	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L1	NA	NA	N O T E - 2	Note-12	
33	0	83001-CEL-4-L1	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L1	NA	NA	N O T E - 2	Note-12	
34	0	83001-CEL-5-L1	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L1	NA	NA	N O T E - 2	Note-12	
35	0	83001-CEL-1-L2	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L2	NA	NA	N O T E - 2	Note-12	
36	0	83001-CEL-2-L2	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L2	NA	NA	N O T E - 2	Note-12	
37	0	83001-CEL-3-L2	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L2	NA	NA	N O T E - 2	Note-12	
38	0	83001-CEL-4-L2	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L2	NA	NA	N O T E - 2	Note-12	
39	0	83001-CEL-5-L2	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L2	NA	NA	N O T E - 2	Note-12	
40	0	83001-CEL-1-L3	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L3	NA	NA	N O T E - 2	Note-12	
41	0	83001-CEL-2-L3	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L3	NA	NA	N O T E - 2	Note-12	
42	0	83001-CEL-3-L3	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L3	NA	NA	N O T E - 2	Note-12	
43	0	83001-CEL-4-L3	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L3	NA	NA	N O T E - 2	Note-12	
44	0	83001-CEL-5-L3	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L3	NA	NA	N O T E - 2	Note-12	
45	0	83001-CEL-1-N	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		N	NA	NA	N O T E - 2	Note-12	
46	0	83001-CEL-2-N	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		N	NA	NA	N O T E - 2	Note-12	
47	0	83001-CEL-3-N	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		N	NA	NA	N O T E - 2	Note-12	
48	0	83001-CEL-E	P6	1C X 150	400	10	Note-4	10	11	Note-10	PE	TR-200DE1	6.6/0.4 KV, 1.6MVA Transformer-Neutral	LV side Cable Box	Side	0	CW	M32	Hold		TR-200DE1	Earth Point	Earth Boss	NA	0	NA	NA	Hold		PE	NA	NA	N O T E - 2	Note-12	
49	0	86001-CEL-L1	P3	1C X 300	800	50	Note-4	10	58	Note-10	Power	JB-200E01	Solar PV Power Cable JB	JB	Bottom	1,5	CW	M40	Hold		SG-200D2	Breaker	Cable Compartment	Top	1,5	BW	M40	Hold		L1	NA	NA	N O T E - 2	Note-12	Note-13
50	0	86001-CEL-L2	P3	1C X 300	800	50	Note-4	10	58	Note-10	Power	JB-200E01	Solar PV Power Cable JB	JB	Bottom	1,5	CW	M40	Hold		SG-200D2	Breaker	Cable Compartment	Top	1,5	BW	M40	Hold		L2	NA	NA	N O T E - 2	Note-12	Note-13
51	0	86001-CEL-L3	P3	1C X 300	800	50	Note-4	10	58	Note-10	Power	JB-200E01	Solar PV Power Cable JB	JB	Bottom	1,5	CW	M40	Hold		SG-200D2	Breaker	Cable Compartment	Top	1,5	BW	M40	Hold		L3	NA	NA	N O T E - 2	Note-12	Note-13
52	0	86002-CEL-L1	P3	1C X 300	800	50	Note-4	10	58	Note-10	Power	SG-200D2	Solar Breaker	Cable Compartment	Bottom	1,5	CW	M40	Hold		TR-200ED1	6.6/0.8 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		L1	NA	NA	N O T E - 2	Note-12	Note-13
53	0	86002-CEL-L2	P3	1C X 300	800	50	Note-4	10	58	Note-10	Power	SG-200D2	Solar Breaker	Cable Compartment	Bottom	1,5	CW	M40	Hold		TR-200ED1	6.6/0.8 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		L2	NA	NA	N O T E - 2	Note-12	Note-13
54	0	86002-CEL-L3	P3	1C X 300	800	50	Note-4	10	58	Note-10	Power	SG-200D2	Solar Breaker	Cable Compartment	Bottom	1,5	CW	M40	Hold		TR-200ED1	6.6/0.8 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		L3	NA	NA	N O T E - 2	Note-12	Note-13
55	0	83010-CEL-L1	P3	1C X 95	400	25	Note-4	10	31	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M25	Hold		JB-200E1	Temporary Generator / Mobile Battery Pack	JB	Bottom	1,5	CW	M25	Hold		L1	NA	NA	N O T E - 2	Note-12	
56	0	83010-CEL-L2	P3	1C X 95	400	25	Note-4	10	31	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M25	Hold		JB-200E1	Temporary Generator / Mobile Battery Pack	JB	Bottom	1,5	CW	M25	Hold		L2	NA	NA	N O T E - 2	Note-12	
57	0	83010-CEL-L3	P3	1C X 95	400	25	Note-4	10	31	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M25	Hold		JB-200E1	Temporary Generator / Mobile Battery Pack	JB	Bottom	1,5	CW	M25	Hold		L3	NA	NA	N O T E - 2	Note-12	
58	0	83010-CEL-N	P3	1C X 95	400	25	Note-4	10	31	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M25	Hold		JB-200E1	Temporary Generator / Mobile Battery Pack	JB	Bottom	1,5	CW	M25	Hold		N	NA	NA	N O T E - 2	Note-12	
59	0	83010-CEL-PE	P6	1C X 95	400	25	Note-4	10	31	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M25	Hold		JB-200E1	Temporary Generator / Mobile Battery Pack	JB	Bottom	1,5	CW	M25	Hold		PE	NA	NA	N O T E - 2	Note-12	
60	0	83011-CEL	P4	4C X 10	400	40	Note-4	10	47	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M25	Hold		A-85000	BESS PCS Cabinet	Cabinet	Side	1,5	BW	M25	Hold		L1,L2,L3,N	NA	NA	N O T E - 2	Note-12	Note-15
61	0	83012-CEL	P4	5G16	400	40	Note-4	10	47	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M32	Hold		A-80000	Fuel Cell Auxiliary Load	Local Panel	Side	1,5	BW	M32	Hold		L1,L2,L3,N,PE	NA	NA	N O T E - 2	Note-12	
62	0	83013-CEL-1-L1	P3	1C X 300	400	75	Note-4	10	86	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		A-20000	Electrolyser Auxiliary load	Local Panel	Side	1,5	BW	M40	Hold		L1	NA	NA	N O T E - 2	Note-12	
63	0	83013-CEL-2-L1	P3	1C X 300	400	75	Note-4	10	86	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		A-20000	Electrolyser Auxiliary load	Local Panel	Side	1,5	BW	M40	Hold		L1	NA	NA	N O T E - 2	Note-12	
64	0	83013-CEL-1-L2	P3	1C X 300	400	75	Note-4	10	86	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		A-20000	Electrolyser Auxiliary load	Local Panel	Side	1,5	BW	M40	Hold		L2	NA	NA	N O T E - 2	Note-12	
65	0	83013-CEL-2-L2	P3	1C X 300	400	75	Note-4	10	86	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		A-20000	Electrolyser Auxiliary load	Local Panel	Side	1,5	BW	M40	Hold		L2	NA	NA	N O T E - 2	Note-12	
66	0	83013-CEL-1-L3	P3	1C X 300	400	75	Note-4	10	86	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		A-20000	Electrolyser Auxiliary load	Local Panel	Side	1,5	BW	M40	Hold		L3	NA	NA	N O T E - 2	Note-12	
67	0	83013-CEL-2-L3	P3	1C X 300	400	75	Note-4	10	86	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		A-20000	Electrolyser Auxiliary load	Local Panel	Side	1,5	BW	M40	Hold		L3	NA	NA	N O T E - 2	Note-12	
68	0	83013-CEL-2-N	P3	1C X 300	400	75	Note-4	10	86	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		A-20000	Electrolyser Auxiliary load	Local Panel	Side	1,5	BW	M40	Hold		N	NA	NA	N O T E - 2	Note-12	
69	0	83013-CEL-2-E	P6	1C X 150	400	75	Note-4	10	86	Note-10	PE	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M32	Hold		A-20000	Electrolyser Auxiliary load	Local Panel	Side	1,5	BW	M32	Hold		PE	NA	NA	N O T E - 2	Note-12	
70	0	83014-CEL	P4	4C X 10	400	35	Note-4	10	42	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M25	Hold		CP-850-F-01	BESS LV1 Cabinet (+DISTR 1)	Cabinet	Side	1,5	BW	M25	Hold		L1,L2,L3,N	NA	NA	N O T E - 2	Note-12	Note-14
71	0	83015-CEL	P4	4C X 10	400	38	Note-4	10	45	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M25	Hold		CP-850-F-02	BESS LV2 Cabinet (+DISTR 2)	Cabinet	Side	1,5	BW	M25	Hold		L1,L2,L3,N	NA	NA	N O T E - 2	Note-12	Note-14
72	0	85001-CEL-1-E	P6	1C X 95	400	100	Note-4	10	113	Note-10	PE	A-85000	BESS	HOLD	Top	1,5	NA	NA	Hold		A-85000	Earth Point	Earth Boss	Top	1,5	NA	NA	Hold		PE	NA	NA	N O T E - 2	Note-12	Note-14

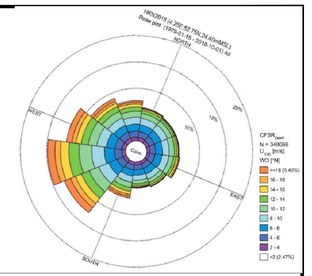
DRAWING NO. 123A90-DDL-EL-DL-20101

REV. 01



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





NOTES

1. ALL DIMENSIONS IN MM UNLESS NOTED OTHERWISE.
2. ALL ELEVATIONS IN METERS. UNLESS NOTED OTHERWISE.
3. ELEVATIONS REFER TO T.O.S.
4. FOR ELECTRICAL EQUIPMENT LAYOUT OF CONTAINERS B-100, B-200, B-300, B-400 REFER TO THE RESPECTIVE LAYOUTS.

LEGEND

(M)	ELECTRIC MOTOR – LOW VOLTAGE
⊠	INTERFACE PANEL
◪	JUNCTION BOX
JB-200E2 / EL+500mm	TAG ITEM / REFERED ELEVATION TO T.O.S. (TOP OF STEEL)

HOLDS

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20106	ELECTRICAL EQUIPMENT LAYOUT UPSs & BATTERIES SWITCHROOM
123A90-DDL-IN-DL-40012	ITER EQUIPMENT LAYOUT
123A90-DDL-EL-DL-20104	ELECTRICAL EQUIPMENT LAYOUT HV & MV SWITCHROOM
123A90-DDL-EL-DL-20105	LV SWITCHGEAR ROOM EQUIPMENT LAYOUT

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/05/24	SAM	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	04/03/24	SAM	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20101**

REV.:	DATE:	SIGNATURE:
1_A	08/08/24	G.Randi

ROSETTI MARINO SpA

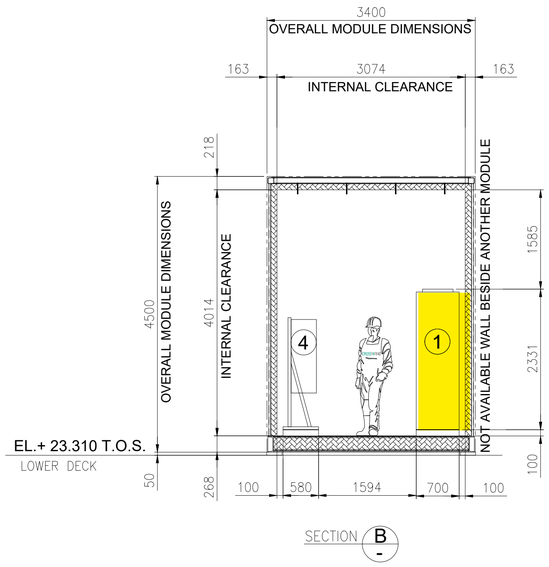
CROSSWIND | ROSETTI MARINO

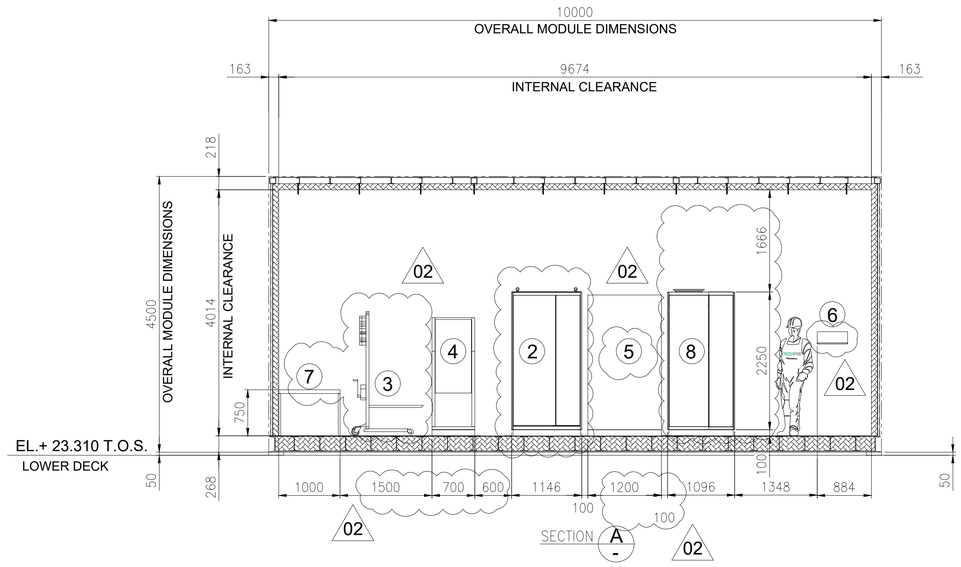
TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL EQUIPMENT LAYOUT
LOWER DECK

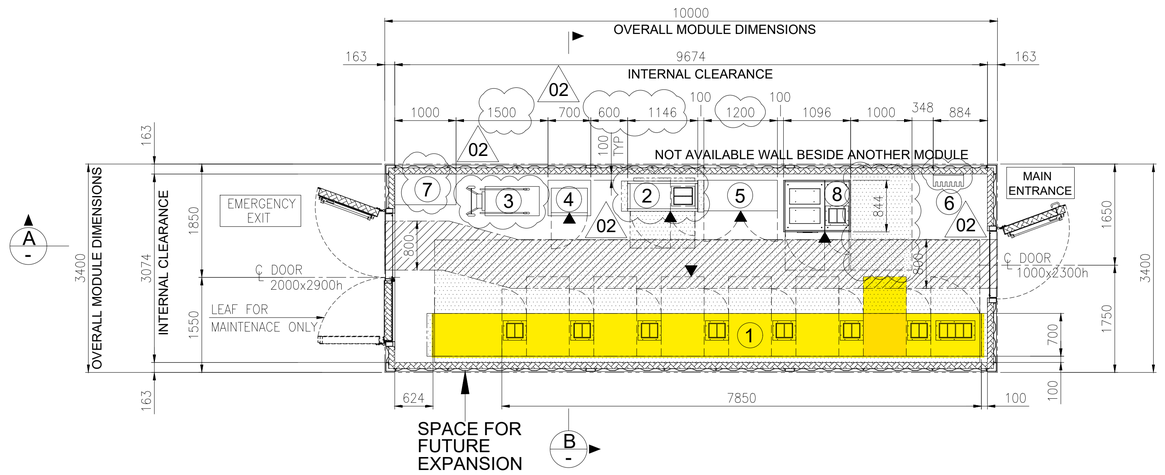
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN SAM	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 04/03/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20101	SHEET 001	REV. 01

File Name : 123A90-DDL-EL-DL-20101-Electrical Equipment Layout – Lower Deck

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





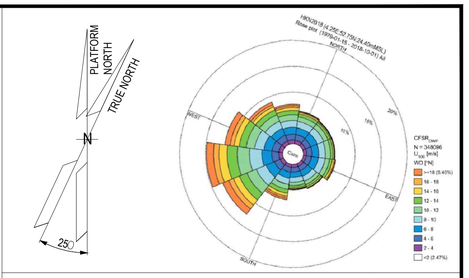


EQUIPMENT LAYOUT
"B-200" LV (400V) SWITCHGEAR ROOM
BOTTOM PLAN

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

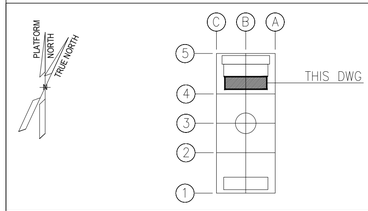
U.N.O. _____ UNLESS NOTED OTHERWISE
T.O.S. _____ TOP OF STEEL
_____ ESCAPE CORRIDOR - WIDTH 800mm.
_____ MAINTENANCE AREA - VENDOR REQUIREMENT
_____ SWITCHGEAR ROOM ENCLOUSURE
_____ FRONT OF EQUIPMENT

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



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	DYFO/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

FROM	TO

DESCRIPTION: LV Switchgear
TAG NUMBER: SG-200N1

COLUMN/CUBIC.: A2/+08

L1	BK	83010-CEL-L1 1C X 95 mm²	BK — L1
L2	BK	83010-CEL-L2 1C X 95 mm²	BK — L2
L3	BK	83010-CEL-L3 1C X 95 mm²	BK — L3
N	BK	83010-CEL-N 1C X 95 mm²	BK — N
PE	Y/G	83010-CEL-PE 1C X 95 mm²	Y/G — PE

P.E. BUS BAR

DESCRIPTION: TEMPORARY GENERATOR / MOBILE BATTERY PACK
TAG NUMBER: JB-200E2

INCOMING FROM LV SWITCHGEAR
SG-200N1

P.E. BUS BAR

COLUMN/CUBIC.: A1/+08

L1	BK	83013-CEL-L1 1C X 300 mm²	BK — L1
L2	BK	83013-CEL-L2 1C X 300 mm²	BK — L2
L3	BK	83013-CEL-L3 1C X 300 mm²	BK — L3
N	BK	83013-CEL-N 1C X 300 mm²	BK — N
PE	Y/G	83013-CEL-E 1C X 150 mm²	Y/G — PE

P.E. BUS BAR

DESCRIPTION: ELECTROLYSER AUXILIARY LOAD
TAG NUMBER: A-20000

P.E. BUS BAR

DESCRIPTION: FUEL CELL AUXILIARY LOAD
TAG NUMBER: A-80000

COLUMN/CUBIC.: A4/+03

L1	BK	83012-CEL 5G16 mm²	BK — L1
L2	BN		BN — L2
L3	GY		GY — L3
N	BU		BU — N
PE	Y/G		Y/G — PE

P.E. BUS BAR

P.E. BUS BAR

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
LV SWITCHGEAR SG-200N1

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

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 021

REV. 00

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20162 Rev. 00

TITLE

DATA SHEET FOR LV POWER CABLE (LSZH, FLAME RETARDANT)

CONSTRUCTIVE DATA

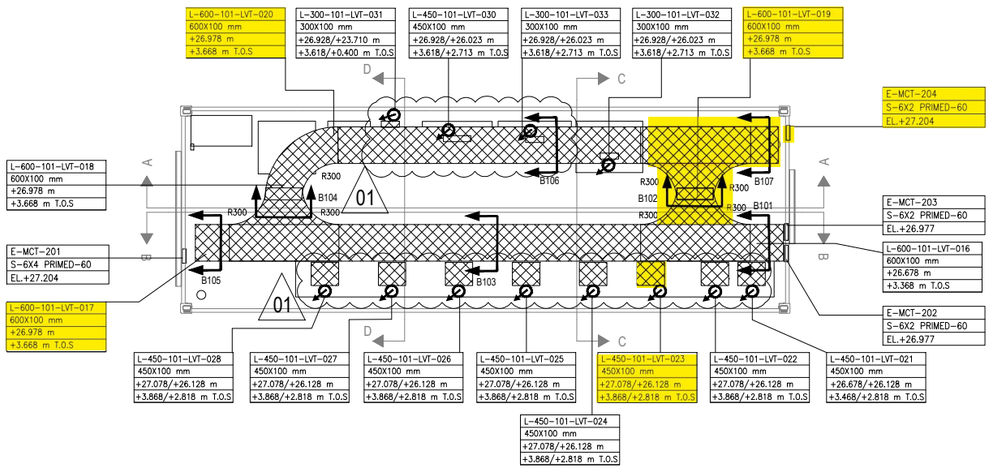
3	MR TAG / PART NUMBER			Note-3	Note-3	Note-3	Note-3
4	n° x NOMINAL AREA OF CONDUCTORS		N.xmm^2	1Cx300	1Cx95	3G2.5	3G4
5	n° AND DIAMETER OF WIRES IN EACH CONDUCTOR		N.xmm	37X3,35	19X2,67	7X0,67	7X0,85
6	CONDUCTOR CLASS (2)			2	2	2	2
7	RATED CURRENT IN AIR AT 30°		A	698	323	31	41
8	RATED CURRENT IN GROUND AT 20°		A	623	333	41	53
9							
10	A.C. PHASES RESISTANCE AT THE MAX OP. TEMP.		Ω/km	0,08	0,247	9,45	5,88
11	PHASE REACTANCE AT 50 Hz		Ω/km	0,08	0,085	0,103	0,096
12	MINIMUM INSULATION RESISTANCE AT 20°		MΩ/km	330	400	1100	1100
13	PHASE CAPACITY		µF/km	0,722	0,451	0,157	0,178
14							
15	MINIMUM ORDER Q.TY		m	300	300	300	300
16	MAX LENGHT OF DRUMS		m	1000	3000	7000	6000
17	DIAMETERS	BARE CONDUCTOR	mm	21	11,3	2	2,6
18		CORE (INSULATED CORE)	mm	25,8	14,5	4	4,6
19		INNER COVERING	mm	NA	NA	10,6	11,9
20		ARMOUR OR CONCENTRIC CONDUCTOR	mm	NA	NA	NA	NA
21							
22							
23		OVERALL	mm	29,4	17,3	13	14,3
24	MASSES	CONDUCTORS	kg/km	2730	864	68	109
25		INSULATION	kg/km	205	58	28	34
26		INNER COVERING	kg/km	NA	NA	83	101
27		ARMOUR OR CONCENTRIC CONDUCTOR	kg/km	NA	NA	NA	NA
28		OUTER SHEATING	kg/km	320	100	74	82
29							
30		TOTAL	kg/km	3255	1022	253	326
31	EXTERNAL COLOUR			GREY	GREY	GREY	GREY
32	CORE IDENTIFICATION (1)			BK	BK	BN,BU,Y/G	BN,BU,Y/G
33							
34							
35							
36							
37							
38							

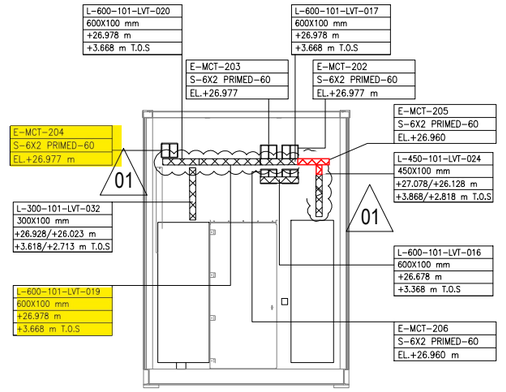
NOTE: (1) BK=BLACK, BN=BROWN, GY=GRAY, BU=BLUE, RD=RED, Y/G=YELLOW/GREEN

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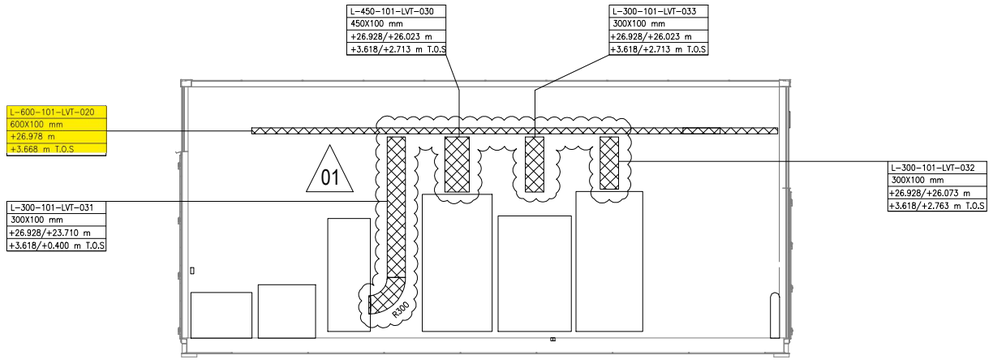
DRAWING NO. 123A90-DDL-EL-DL-20112

REV. 01

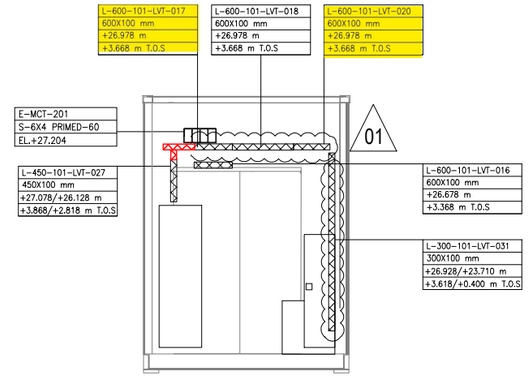




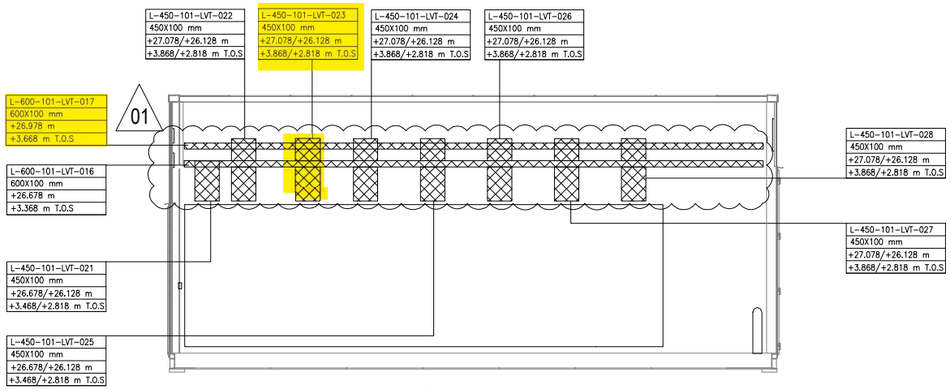
Section C-C



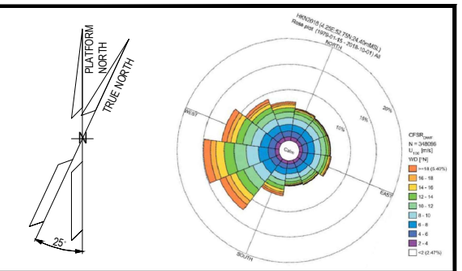
Section A-A



Section D-D



Section B-B



NOTES

1.ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.

2.THIS DRAWING IS VALID ONLY FOR ELECTRICAL CABLE ROUTING LAYOUT.

3.DRAWING SPLIT INTO MULTIPLE SHEETS FOR CLARITY.

4.FOR INSTALLATION DETAIL OF CABLE LADDER REFER TO DOC. 123A90-DDL-EL-DD-20093.

5.FOR LIGHTING AND SOCKET EQUIPMENTS SEE DRAWING 123A90-DDL-EL-DL-20123 AND 1724000049-EL-LIS-00044

6.ELEVATIONS REFER TO T.O.S. (EL+23.310m)

7.FOR PANEL MCTs DETAILS PLEASE REFER TO 123A90-DDL-EL-DL-20115.

LEGEND

ELECTRICAL LV CABLE LADDER

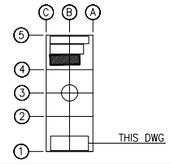
ELECTRICAL CABLE LADDER (VERTICAL DROP)

MCT TAG
TAG
MCT FRAME
ELEVATION

B100
CABLE SECTION

CABLE LADDER TAG
TAG
SIZE
ELEVATION
ELEVATION IN T.O.S

KEY PLAN



REFERENCE DOCUMENTS

123A90-DDL-EL-DD-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE
123A90-DDL-EL-DL-20105	ELECTRICAL EQUIPMENT LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DL-20123	LIGHTING & SOCKET LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DD-20095	MCT COMPOSITION
1724000049-EL-LIS-00044	B-200 ELECTRICAL COMPONENTS LIST AND DS - E&I SHELTERS
123A90-DDL-EL-DL-20115	ELECTRICAL MCT LAYOUT - LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	SAM	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	18/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20112**

REV.:	DATE:	SIGNATURE:
1_B	02/09/24	G.Randi

ROSETTI MARINO SpA

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

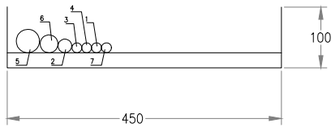
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DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 02/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20112	SHEET 1of11	REV. 01

File Name : 123A90-DDL-EL-DL-20112

DRAWING NO. 123A90-DDL-EL-DL-20112

REV. 01

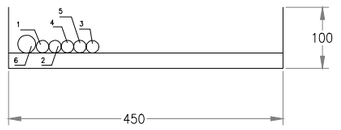
L-450-101-LVT-028



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83034-CEL	DC Battery System – Switchgears Control – Feeder A	SG-200N1	UP-200F1	POWER CABLE	P4	4G16
2	83035-CEL	DC Battery System – Switchgears Control – Feeder B	SG-200N1	UP-200F1	POWER CABLE	P4	4G16
3	83036-CEL	DC UPS NAVAID System – Feeder A	SG-200N1	UP-200F2	POWER CABLE	P5	3G16
4	83037-CEL	DC UPS NAVAID System – Feeder B	SG-200N1	UP-200F2	POWER CABLE	P5	3G16
5	83022-CEL-01	Welding Sockets (Lower Deck)	SG-200N1	JB-200E4	POWER CABLE	P4	5G50
6	83028-CEL	AC UPS PAS – 30min – Line A	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
7	83018-CEL	Sea water intake pump A	SG-200N1	PM-50001 A	POWER CABLE	P4	4G4

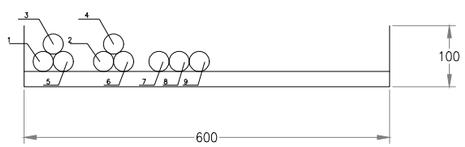
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L-450-101-LVT-023



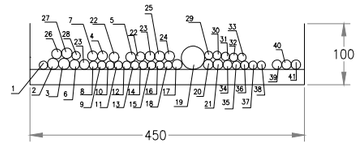
POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83010-CEL-L1	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
2	83010-CEL-L2	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
3	83010-CEL-L3	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
4	83010-CEL-N	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
5	83010-CEL-PE	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P6	1C X 95
6	83031-CEL	AC UPS F&G – 8h – Line A	SG-200N1	UP-200F4	POWER CABLE	P4	4G35

L-600-101-LVT-016 VIA-E-MCT-206



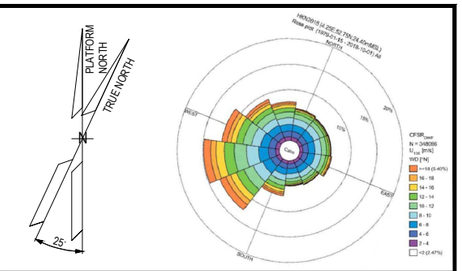
POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83001-CEL-4-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
2	83001-CEL-5-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
3	83001-CEL-4-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
4	83001-CEL-5-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
5	83001-CEL-4-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
6	83001-CEL-5-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
7	83001-CEL-1-N	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
8	83001-CEL-2-N	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
9	83001-CEL-3-N	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300

L-450-101-LVT-030



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	P-EJB-200N1-04-L3-01	Normal Lighting – Stairs	DP-200N1	EJB-200N1-04-L3-01	POWER CABLE	P4	3G4
2	P-ESO-200N1-05-L1-01	Small Power Socket (Upper Deck)	DP-200N1	EJB-200N1-05-L1-01	POWER CABLE	P4	3G10
3	P-ESO-200N1-06-L2-01	Small Power Socket (Lower Deck)	DP-200N1	EJB-200N1-06-L2-01	POWER CABLE	P4	3G10
4	P-ETB-200N1-20-L1-01	TRACE HEATING – PROCESS LINES – FEEDER 7 (SEA WATER PUMPS)	DP-200N1	ETB-200N1-19-L3-01	POWER CABLE	P7	3G6
5	P-ETB-200N1-18-L2-01	TRACE HEATING – PROCESS LINES – FEEDER 5 (VESSEL KO DRUM)	DP-200N1	ETB-200N1-18-L2-01	POWER CABLE	P4	3G6
6	P-EJB-200N1-09-L2-01	Emergency Lighting Lower Deck – Circuit No. 1	DP-200N1	EJB-200N1-09-L2-01	POWER CABLE	P4	4G4_E
7	P-ETB-200N1-19-L3-01	TRACE HEATING – PROCESS LINES – FEEDER 6 (H2 VENT)	DP-200N1	ETB-200N1-20-L1-01	POWER CABLE	P7	3G6
8	83104-CEL	SIS –Controller and I/O Cabinet – Auxiliary	DP-200N1	B400-SIS-001	POWER CABLE	P4	3G2.5
9	83105-CEL	PCS –Controller and I/O Cabinet – Auxiliary	DP-200N1	B400-PCS-001	POWER CABLE	P4	3G2.5
10	83106-CEL	EMCS –Controller and I/O Cabinet – Auxiliary	DP-200N1	B400-EMCS-001	POWER CABLE	P4	3G2.5
11	83107-CEL	FGS Fire & Gas Panel – Auxiliary	DP-200N1	B400-FGS-001	POWER CABLE	P4	3G2.5
12	83108-CEL	System Server / Network Cabinet – Auxiliary	DP-200N1	B400-NET-001	POWER CABLE	P4	3G2.5
13	83109-CEL	Server cabiner ITER – Auxiliary	DP-200N1	B400-SRV-001	POWER CABLE	P4	3G2.5
14	83110-CEL	UCP – Instrument Air Package –A–63000 – Auxiliary	DP-200N1	CP-630E1	POWER CABLE	P4	3G2.5
15	83111-CEL	UCP – N2 Package – Auxiliary	DP-200N1	CP-640E1	POWER CABLE	P4	3G2.5
16	83117-CEL	Auxiliary Trafo SOLAR 0,5MVA	DP-200N1	CP-200E2	POWER CABLE	P4	3G2.5
17	83118-CEL	Auxiliary GIS	DP-200N1	CP-100E1	POWER CABLE	P4	3G6
18	83119-CEL	Auxiliary 6.6kV Switchboard	DP-200N1	SG-100D1	POWER CABLE	P4	3G2.5
19	83043-CEL	DB – Lighting & Small Power – BoP	SG-200N1	DP-200N1	POWER CABLE	P4	5G50
20	P-EJB-200N1-10-L3-01	Emergency Lighting Stairs	DP-200N1	EJB-200N1-10-L3-01	POWER CABLE	P4	4G4_E
21	P-EJB-200N1-17-L1-01	TRACE HEATING – PROCESS LINES – FEEDER 4 (WW LINES) Cold JB	DP-200N1	EJB-200N1-17-L1-01	POWER CABLE	P4	3G6
22	P-EJB-200N1-02-L1-01	Normal Lighting Upper Deck	DP-200N1	EJB-200N1-02-L1-01	POWER CABLE	P4	3G4
23	P-EJB-200N1-08-L1-04	Emergency Lighting Upper Deck	DP-200N1	EJB-200N1-08-L1-04	POWER CABLE	P4	4G4_E
24	P-EJB-200N1-14-L1-01	TRACE HEATING – PROCESS LINES – FEEDER 1 (SWS LINES) Cold JB	DP-200N1	EJB-200N1-14-L1-01	POWER CABLE	P4	3G6
25	P-EJB-200N1-15-L2-01	TRACE HEATING – PROCESS LINES – FEEDER 2 (CI LINES) Cold JB	DP-200N1	EJB-200N1-15-L2-01	POWER CABLE	P4	3G6
26	P-ETB-200N1-16-L3-01	TRACE HEATING – PROCESS LINES – FEEDER 3 (DM LINE)	DP-200N1	ETB-200N1-16-L3-01	POWER CABLE	P4	3G6
27	83112-CEL	Auxiliary Trafo OLTC	DP-200N1	CP-100E2	POWER CABLE	P4	5G4
28	83113-CEL	Auxiliary Trafo AVR	DP-200N1	CP-100E3	POWER CABLE	P4	3G2.5
29	83114-CEL	Auxiliary Trafo 7MVA	DP-200N1	CP-100E4	POWER CABLE	P4	3G2.5
30	83115-CEL	Auxiliary NER	DP-200N1	RR-100D1	POWER CABLE	P4	3G2.5
31	83116-CEL	Auxiliary Trafo 1,6MVA	DP-200N1	CP-200E1	POWER CABLE	P4	3G2.5
32	83120-CEL	Auxiliary LV	DP-200N1	SG-200N1	POWER CABLE	P4	3G2.5
33	83121-CEL	Auxiliary LV SWBD 800/460V	DP-200N1	SG-200D2	POWER CABLE	P4	3G2.5
34	P-EJB-200N1-03-L2-01	Normal Lighting Lower Deck – Circuit No. 1	DP-200N1	EJB-200N1-03-L2-01	POWER CABLE	P4	3G4
35	83122-CEL	AC UPS PAS AUXILIARY	DP-200N1	UP-200F3	POWER CABLE	P4	3G2.5
36	83123-CEL	AC UPS F&G AUXILIARY	DP-200N1	UP-200F4	POWER CABLE	P4	3G2.5
37	83124-CEL	DC BATTERY SYSTEM AUXILIARY	DP-200N1	UP-200F1	POWER CABLE	P4	3G2.5
38	P-EPH-200N1-01	Twilight Relay Sensor	DP-200N1	EPH-200N1-01	POWER CABLE	P5	3G4
39	83125-CEC	LV Switchgear	DP-200N1	SG-200N1	CONTROL CABLE	P7	7C X 1.5
40	83126-CEC	LV Switchgear	DP-200N1	SG-200N1	CONTROL CABLE	P7	7C X 1.5
41	83127-CEC	LV Switchgear	DP-200N1	SG-200N1	CONTROL CABLE	P7	7C X 1.5

01



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S. (EL+23.310m)

CABLE TYPE DETAILS

P3 - SINGLE CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P4 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZHOUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P5 - MULTI CORE, 0.6/1 KV, FIRE RESISTANT, STRANDED COPPER, MICA/GLASS TAPE, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, GALVANIZED STEEL WIRE BRAID ARMOURED CABLE, FLAME RETARDANT
P7 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P8 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, COPPER WIRE BRAID SCREEN, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
C1- SPECIAL SIGNAL CABLE MULTI CORE, STRANDED COPPER, XLPE INSULATION, TIN CU BRAIDED SCREEN PUR JACKET, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
C2- SINGLE CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, STRANDED COPPER, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT

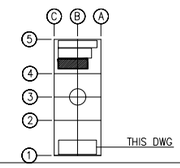
LEGEND

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20112**

REV.:	DATE:	SIGNATURE:
1_B	02/09/24	G.Randi

ROSETTI MARINO SpA

KEY PLAN



REFERENCE DOCUMENTS

123A90-DDL-EL-DD-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE
123A90-DDL-EL-DL-20105	ELECTRICAL EQUIPMENT LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DL-20123	LIGHTING & SOCKET LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DD-20095	MCT COMPOSITION
1724000049-EL-LIS-00044	B-200 ELECTRICAL COMPONENTS LIST AND DS - E&I SHELTERS
123A90-DDL-EL-DL-20115	ELECTRICAL MCT LAYOUT - LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	SAM	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	18/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

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

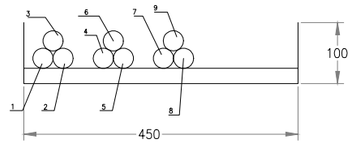
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DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 02/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20112	SHEET 6of11	REV. 01

File Name : 123A90-DDL-EL-DL-20112

DRAWING NO. 123A90-DDL-EL-DL-20112 REV. 01

L-450-101-LVT-021 VIA E-MCT-205

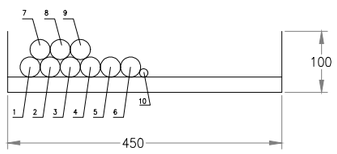
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POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83001-CEL-1-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
2	83001-CEL-2-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
3	83001-CEL-3-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
4	83001-CEL-1-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
5	83001-CEL-2-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
6	83001-CEL-3-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
7	83001-CEL-1-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
8	83001-CEL-2-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
9	83001-CEL-3-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300

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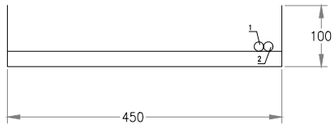
L-450-101-LVT-021 VIA E-MCT-206



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83001-CEL-4-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
2	83001-CEL-5-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
3	83001-CEL-4-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
4	83001-CEL-5-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
5	83001-CEL-4-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
6	83001-CEL-5-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
7	83001-CEL-1-N	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
8	83001-CEL-2-N	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
9	83001-CEL-3-N	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300

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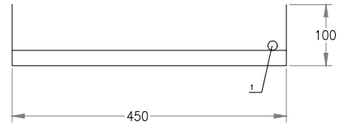
L-450-101-LVT-021 VIA E-MCT-203



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83005-CEC	6.6KV HV Switchgear	SG-200N1	SG-100D1	CONTROL CABLE	P7	7C X 1.5
2	83006-CEC	6.6KV HV Switchgear	SG-200N1	SG-100D1	CONTROL CABLE	P7	7C X 1.5

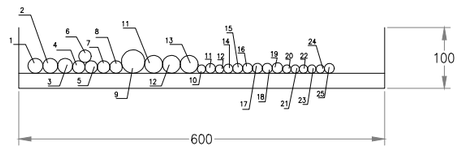
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L-450-101-LVT-021 VIA E-MCT-201



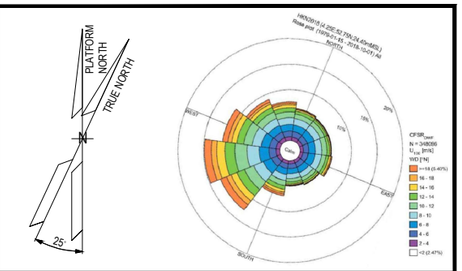
POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	82013-CEC	LV Switchgear	SG-100D1	SG-200N1	CONTROL CABLE	P7	7C X 1.5

B 102 (L-600-101-LVT-019)



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POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83020-CEL	Crane	SG-200N1	JB-200E3	POWER CABLE	P4	5G16
2	83025-CEL	HVAC panel – UPS Room	SG-200N1	B300-HSB-001	POWER CABLE	P4	5G16
3	83026-CEL	HVAC panel – ITER	SG-200N1	B400-HSB-001	POWER CABLE	P4	5G16
4	83010-CEL-L1	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
5	83010-CEL-L2	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
6	83010-CEL-L3	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
7	83010-CEL-N	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
8	83010-CEL-PE	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P6	1C X 95
9	83021-CEL-01	Welding Sockets (Top Deck) JB's	SG-200N1	JB-200E6	POWER CABLE	P4	5G50
10	84318-CEL	LV Switchboard Auxiliary	DP-200F3	SG-200N1	POWER CABLE	P5	3G2.5
11	83029-CEL	AC UPS PAS – 30min – Line B	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
12	83030-CEL	AC UPS PAS – 30min – Bypass	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
13	83031-CEL	AC UPS F&G – 8h – Line A	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
14	P-EJB-200N1-02-L1-01	Normal Lighting Upper Deck	DP-200N1	EJB-200N1-02-L1-01	POWER CABLE	P4	3G4
15	P-EJB-200N1-08-L1-04	Emergency Lighting Upper Deck	DP-200N1	EJB-200N1-08-L1-04	POWER CABLE	P4	4G4_E
16	P-EJB-200N1-14-L1-01	TRACE HEATING – PROCESS LINES – FEEDER 1 (SWS LINES) Cold JB	DP-200N1	EJB-200N1-14-L1-01	POWER CABLE	P4	3G6
17	P-EJB-200N1-15-L2-01	TRACE HEATING – PROCESS LINES – FEEDER 2 (CI LINES) Cold JB	DP-200N1	EJB-200N1-15-L2-01	POWER CABLE	P4	3G6
18	P-ETB-200N1-16-L3-01	TRACE HEATING – PROCESS LINES – FEEDER 3 (DM LINE)	DP-200N1	ETB-200N1-16-L3-01	POWER CABLE	P4	3G6
19	83112-CEL	Auxiliary Trafo OLTC	DP-200N1	CP-100E2	POWER CABLE	P4	5G4
20	83113-CEL	Auxiliary Trafo AVR	DP-200N1	CP-100E3	POWER CABLE	P4	3G2.5
21	83114-CEL	Auxiliary Trafo 7MVA	DP-200N1	CP-100E4	POWER CABLE	P4	3G2.5
22	83115-CEL	Auxiliary NER	DP-200N1	RR-100D1	POWER CABLE	P4	3G2.5
23	83116-CEL	Auxiliary Trafo 1,6MVA	DP-200N1	CP-200E1	POWER CABLE	P4	3G2.5
24	83124-CEL	DC BATTERY SYSTEM AUXILIARY	DP-200N1	UP-200F1	POWER CABLE	P4	3G2.5
25	P-EJB-200N1-10-L3-01	Emergency Lighting stairs	DP-200N1	EJB-200N1-10-L3-01	POWER CABLE	P4	4G4_E



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S. (EL+23.310m)

CABLE TYPE DETAILS

P3 - SINGLE CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P4 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZHOUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P5 - MULTI CORE, 0.6/1 KV, FIRE RESISTANT, STRANDED COPPER, MICA/GLASS TAPE, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, GALVANIZED STEEL WIRE BRAID ARMOURED CABLE, FLAME RETARDANT
P7 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P8 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, COPPER WIRE BRAID SCREEN, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
C1- SPECIAL SIGNAL CABLE MULTI CORE, STRANDED COPPER, XLPE INSULATION, TIN CU BRAIDED SCREEN PUR JACKET, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
C2- SINGLE CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, STRANDED COPPER, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT

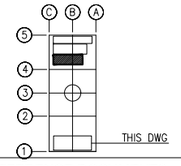
LEGEND

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20112**

REV.:	DATE:	SIGNATURE:
1_B	02/09/24	G.Randi

ROSETTI MARINO SpA

KEY PLAN



REFERENCE DOCUMENTS

123A90-DDL-EL-DD-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE
123A90-DDL-EL-DL-20105	ELECTRICAL EQUIPMENT LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DL-20123	LIGHTING & SOCKET LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DD-20095	MCT COMPOSITION
1724000049-EL-LIS-00044	B-200 ELECTRICAL COMPONENTS LIST AND DS - E&I SHELTERS
123A90-DDL-EL-DL-20115	ELECTRICAL MCT LAYOUT - LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	SAM	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	18/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

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

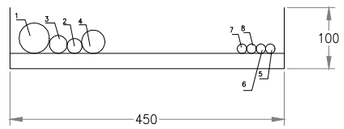
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:50
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 02/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20112	SHEET 7of11	REV. 01

File Name : 123A90-DDL-EL-DL-20112

DRAWING NO. 123A90-DDL-EL-DL-20112

REV. 01

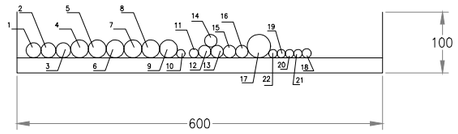
L-450-101-LVT-024



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83016-CEL	Water Package	SG-200N1	JB-500E8	POWER CABLE	P4	5G70
2	83020-CEL	Crane	SG-200N1	JB-200E3	POWER CABLE	P4	5G16
3	83030-CEL	AC UPS PAS – 30min – Bypass	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
4	83043-CEL	DB – Lighting & Small Power – BoP	SG-200N1	DP-200N1	POWER CABLE	P4	5G50
5	83016-CEC	LV Switchgear	SG-200D2	SG-200N1	CONTROL CABLE	P7	7C X 1.5
6	83125-CEC	LV Switchgear	DP-200N1	SG-200N1	CONTROL CABLE	P7	7C X 1.5
7	83126-CEC	LV Switchgear	DP-200N1	SG-200N1	CONTROL CABLE	P7	7C X 1.5
8	83127-CEC	LV Switchgear	DP-200N1	SG-200N1	CONTROL CABLE	P7	7C X 1.5

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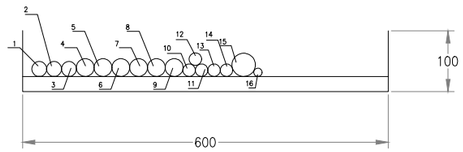
L-600-101-LVT-020 VIA-E-MCT-204



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83020-CEL	Crane	SG-200N1	JB-200E3	POWER CABLE	P4	5G16
2	83025-CEL	HVAC panel – UPS Room	SG-200N1	B300-HSB-001	POWER CABLE	P4	5G16
3	83026-CEL	HVAC panel – ITER	SG-200N1	B400-HSB-001	POWER CABLE	P4	5G16
4	83028-CEL	AC UPS PAS – 30min – Line A	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
5	83029-CEL	AC UPS PAS – 30min – Line B	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
6	83030-CEL	AC UPS PAS – 30min – Bypass	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
7	83031-CEL	AC UPS F&G – 8h – Line A	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
8	83032-CEL	AC UPS F&G – 8h – Line B	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
9	83033-CEL	AC UPS F&G – 8h – Line Bypass	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
10	84315-CEL	UCP – HVAC LV Room	DP-200F3	B200-HSB-001	POWER CABLE	P5	3G2.5
11	P-EJB-200N1-03-L2-01	Normal Lighting Lower Deck – Circuit No. 1	DP-200N1	EJB-200N1-03-L2-01	POWER CABLE	P4	3G4
12	83010-CEL-L1	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
13	83010-CEL-L2	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
14	83010-CEL-L3	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
15	83010-CEL-N	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
16	83010-CEL-PE	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P6	1C X 95
17	83021-CEL-01	Welding Sockets (Top Deck) JB's	SG-200N1	JB-200E6	POWER CABLE	P4	5G50
18	P-EPH-200N1-01	Twilight Relay Sensor	DP-200N1	EPH-200N1-01	POWER CABLE	P5	3G4
19	83123-CEL	AC UPS F&G AUXILIARY	DP-200N1	UP-200F4	POWER CABLE	P4	3G2.5
20	84318-CEL	LV Switchboard Auxiliary	DP-200F3	SG-200N1	POWER CABLE	P5	3G2.5
21	84319-CEL	LV SWBD 800/460V Auxiliary	DP-200F3	SG-200D2	POWER CABLE	P5	3G2.5
22	83122-CEL	AC UPS PAS AUXILIARY	DP-200N1	UP-200F3	POWER CABLE	P4	3G2.5

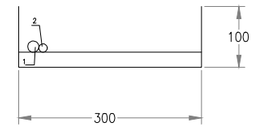
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L-600-101-LVT-017 VIA-E-MCT-204



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83020-CEL	Crane	SG-200N1	JB-200E3	POWER CABLE	P4	5G16
2	83025-CEL	DISTRIBUTION & HVAC panels – UPS Room	SG-200N1	B300-HSB-001	POWER CABLE	P4	5G16
3	83026-CEL	DISTRIBUTION & HVAC panels – ITER	SG-200N1	B400-HSB-001	POWER CABLE	P4	5G16
4	83028-CEL	AC UPS PAS – 30min – Line A	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
5	83029-CEL	AC UPS PAS – 30min – Line B	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
6	83030-CEL	AC UPS PAS – 30min – Bypass	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
7	83031-CEL	AC UPS F&G – 8h – Line A	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
8	83032-CEL	AC UPS F&G – 8h – Line B	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
9	83033-CEL	AC UPS F&G – 8h – Line Bypass	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
10	83010-CEL-L1	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
11	83010-CEL-L2	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
12	83010-CEL-L3	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
13	83010-CEL-N	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
14	83010-CEL-PE	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P6	1C X 95
15	83021-CEL-01	Welding Sockets (Top Deck)	SG-200N1	JB-200E6	POWER CABLE	P4	5G50
16	84318-CEL	LV Switchboard Auxiliary	DP-200F3	SG-200N1	POWER CABLE	P5	3G2.5

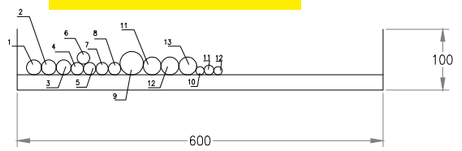
L-300-101-LVT-033



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	84315-CEL	UCP – HVAC LV Room	DP-200F3	B200-HSB-001	POWER CABLE	P5	3G2.5
2	83024-CEL	DISTRIBUTION & HVAC Panel – LV Room	SG-200N1	B200-HSB-001	POWER CABLE	P4	5G16

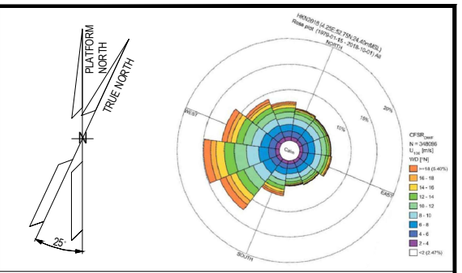
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L-600-101-LVT-019 VIA-E-MCT-204



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83020-CEL	Crane	SG-200N1	JB-200E3	POWER CABLE	P4	5G16
2	83025-CEL	HVAC panel – UPS Room	SG-200N1	B300-HSB-001	POWER CABLE	P4	5G16
3	83026-CEL	HVAC panel – ITER	SG-200N1	B400-HSB-001	POWER CABLE	P4	5G16
4	83010-CEL-L1	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
5	83010-CEL-L2	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
6	83010-CEL-L3	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
7	83010-CEL-N	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
8	83010-CEL-PE	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P6	1C X 95
9	83021-CEL-01	Welding Sockets (Top Deck) JB's	SG-200N1	JB-200E6	POWER CABLE	P4	5G50
10	84318-CEL	LV Switchboard Auxiliary	DP-200F3	SG-200N1	POWER CABLE	P5	3G2.5
11	83029-CEL	AC UPS PAS – 30min – Line B	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
12	83030-CEL	AC UPS PAS – 30min – Bypass	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
13	83031-CEL	AC UPS F&G – 8h – Line A	SG-200N1	UP-200F4	POWER CABLE	P4	4G35

01



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S. (EL+23.310m)

CABLE TYPE DETAILS

P3 - SINGLE CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P4 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZHOUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P5 - MULTI CORE, 0.6/1 KV, FIRE RESISTANT, STRANDED COPPER, MICA/GLASS TAPE, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, GALVANIZED STEEL WIRE BRAID ARMOURED CABLE, FLAME RETARDANT
P7 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P8 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, COPPER WIRE BRAID SCREEN, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
C1- SPECIAL SIGNAL CABLE MULTI CORE, STRANDED COPPER, XLPE INSULATION, TIN CU BRAIDED SCREEN PUR JACKET, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
C2- SINGLE CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, STRANDED COPPER, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT

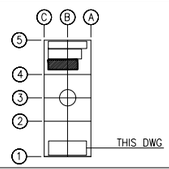
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VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20112**

REV.:	DATE:	SIGNATURE:
1_B	02/09/24	G.Randi

ROSETTI MARINO SpA

KEY PLAN



REFERENCE DOCUMENTS

123A90-DDL-EL-DD-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE
123A90-DDL-EL-DL-20105	ELECTRICAL EQUIPMENT LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DL-20123	LIGHTING & SOCKET LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DD-20095	MCT COMPOSITION
1724000049-EL-LIS-00044	B-200 ELECTRICAL COMPONENTS LIST AND DS - E&I SHELTERS
123A90-DDL-EL-DL-20115	ELECTRICAL MCT LAYOUT - LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	SAM	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	18/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

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

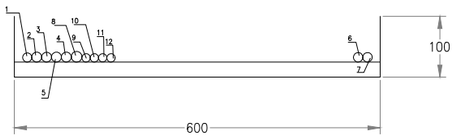
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DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 02/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20112	SHEET 8of11	REV. 01

File Name : 123A90-DDL-EL-DL-20112

DRAWING NO. 123A90-DDL-EL-DL-20112

REV. 01

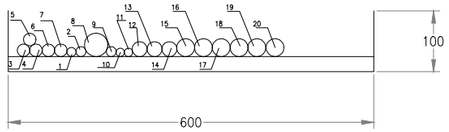
L-600-101-LVT-017 VIA-E-MCT-203



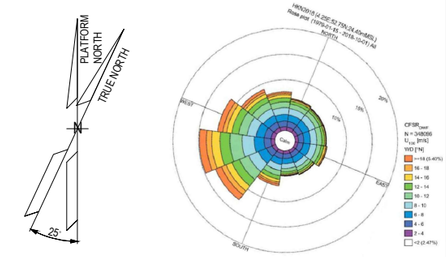
POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	P-EJB-200N1-02-L1-01	Normal Lighting Upper Deck	DP-200N1	EJB-200N1-02-L1-01	POWER CABLE	P4	3G4
2	P-ETB-200N1-16-L3-01	TRACE HEATING - PROCESS LINES - FEEDER 3 (DM LINE)	DP-200N1	ETB-200N1-16-L3-01	POWER CABLE	P4	3G6
3	P-EJB-200N1-08-L1-04	Emergency Lighting Upper Deck	DP-200N1	EJB-200N1-08-L1-04	POWER CABLE	P4	4G4_E
4	P-EJB-200N1-14-L1-01	TRACE HEATING - PROCESS LINES - FEEDER 1 (SWS LINES) Cold JB	DP-200N1	EJB-200N1-14-L1-01	POWER CABLE	P4	3G6
5	P-EJB-200N1-15-L2-01	TRACE HEATING - PROCESS LINES - FEEDER 2 (CI LINES) Cold JB	DP-200N1	EJB-200N1-15-L2-01	POWER CABLE	P4	3G6
6	83005-CEC	6.6KV HV Switchgear	SG-200N1	SG-100D1	CONTROL CABLE	P7	7C X 1.5
7	83006-CEC	6.6KV HV Switchgear	SG-200N1	SG-100D1	CONTROL CABLE	P7	7C X 1.5
8	83112-CEL	Auxiliary Trafo OLTC	DP-200N1	CP-100E2	POWER CABLE	P4	5G4
9	83113-CEL	Auxiliary Trafo AVR	DP-200N1	CP-100E3	POWER CABLE	P4	3G2.5
10	83114-CEL	Auxiliary Trafo 7MVA	DP-200N1	CP-100E4	POWER CABLE	P4	3G2.5
11	83115-CEL	Auxiliary NER	DP-200N1	RR-100D1	POWER CABLE	P4	3G2.5
12	83116-CEL	Auxiliary Trafo 1,6MVA	DP-200N1	CP-200E1	POWER CABLE	P4	3G2.5

01

B 107 (L-600-101-LVT-020)



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	P-EJB-200N1-03-L2-01	Normal Lighting Lower Deck - Circuit No. 1	DP-200N1	EJB-200N1-03-L2-01	POWER CABLE	P4	3G4
2	P-ETB-200N1-16-L3-01	TRACE HEATING - PROCESS LINES - FEEDER 3 (DM LINE)	DP-200N1	ETB-200N1-16-L3-01	POWER CABLE	P4	3G6
3	83010-CEL-L1	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
4	83010-CEL-L2	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
5	83010-CEL-L3	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
6	83010-CEL-N	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
7	83010-CEL-PE	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P6	1C X 95
8	83021-CEL-01	Welding Sockets (Top Deck) JB's	SG-200N1	JB-200E6/ JB-200E7	POWER CABLE	P4	5G50
9	P-ETB-200N1-15-L2-01	Trace Heating - Process Lines - Feeder 2	DP-200N1	ETB-200N1-15-L2-01	POWER CABLE	P4	3G6
10	83122-CEL	AC UPS PAS AUXILIARY	DP-200N1	UP-200F3	POWER CABLE	P4	3G2.5
11	83123-CEL	AC UPS F&G AUXILIARY	DP-200N1	UP-200F4	POWER CABLE	P4	3G2.5
12	83020-CEL	Crane	SG-200N1	JB-200E3	POWER CABLE	P4	5G16
13	83025-CEL	DISTRIBUTION & HVAC panel - UPS Room	SG-200N1	B300-HSB-001	POWER CABLE	P4	5G16
14	83026-CEL	DISTRIBUTION & HVAC panel - ITER	SG-200N1	B400-HSB-001	POWER CABLE	P4	5G16
15	83028-CEL	AC UPS PAS - 30min - Line A	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
16	83029-CEL	AC UPS PAS - 30min - Line B	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
17	83030-CEL	AC UPS PAS - 30min - Bypass	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
18	83031-CEL	AC UPS F&G - 8h - Line A	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
19	83032-CEL	AC UPS F&G - 8h - Line B	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
20	83033-CEL	AC UPS F&G - 8h - Line Bypass	SG-200N1	UP-200F4	POWER CABLE	P4	4G35



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S. (EL+23.310m)

CABLE TYPE DETAILS

P3 - SINGLE CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P4 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZHOUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P5 - MULTI CORE, 0.6/1 KV, FIRE RESISTANT, STRANDED COPPER, MICA/GLASS TAPE, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, GALVANIZED STEEL WIRE BRAID ARMOURED CABLE, FLAME RETARDANT
P7 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P8 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, COPPER WIRE BRAID SCREEN, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
C1- SPECIAL SIGNAL CABLE MULTI CORE, STRANDED COPPER, XLPE INSULATION, TIN CU BRAIDED SCREEN PUR JACKET, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
C2- SINGLE CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, STRANDED COPPER, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT

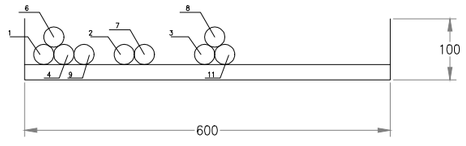
LEGEND

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20112**

REV.:	DATE:	SIGNATURE:
1_B	02/09/24	G.Randi

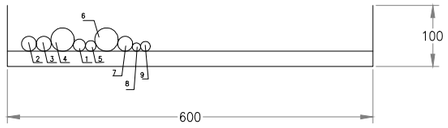
ROSETTI MARINO SpA

L-600-101-LVT-016 VIA-E-MCT-205

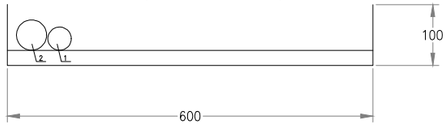


POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83001-CEL-1-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
2	83001-CEL-2-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
3	83001-CEL-3-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
4	83001-CEL-1-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
6	83001-CEL-1-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
7	83001-CEL-2-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
8	83001-CEL-3-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
9	83001-CEL-2-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
11	83001-CEL-3-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300

B103 (L-600-101-LVT-017)



B103 (L-600-101-LVT-016)



B103 (L-600-101-LVT-017)

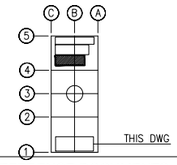
POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83011-CEL	BESS PCS Cabinet	SG-200N1	CP-850F3	POWER CABLE	P4	4C X 10
2	83025-CEL	DISTRIBUTION & HVAC panel - UPS Room	SG-200N1	B300-HSB-001	POWER CABLE	P4	5G16
3	83026-CEL	DISTRIBUTION & HVAC panel - ITER	SG-200N1	B400-HSB-001	POWER CABLE	P4	5G16
4	83043-CEL	DB - Lighting & Small Power - BoP	SG-200N1	DP-200N1	POWER CABLE	P4	5G50
5	82013-CEC	LV Switchgear	SG-100D1	SG-200N1	CONTROL CABLE	P7	7C X 1.5
6	83021-CEL-01	Welding Sockets (Top Deck) JB's	SG-200N1	JB-200E6/ JB-200E7	POWER CABLE	P4	5G50
7	83023-CEL	DISTRIBUTION & HVAC Panel - HV Room	SG-200N1	B100-HSB-001	POWER CABLE	P4	5G16
8	83124-CEL	DC BATTERY SYSTEM AUXILIARY	DP-200N1	UP-200F1	POWER CABLE	P4	3G2.5
9	P-EJB-200N1-10-L3-01	Emergency Lighting stairs	DP-200N1	EJB-200N1-10-L3-01	POWER CABLE	P4	4G4_E

01

B103 (L-600-101-LVT-016)

POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83022-CEL-01	Welding Sockets (Lower Deck)	SG-200N1	JB-200E4	POWER CABLE	P4	5G50
2	83017-CEL-1	Instrument Air Package	SG-200N1	K-63001A	POWER CABLE	P4	5G70

KEY PLAN



REFERENCE DOCUMENTS

123A90-DDL-EL-DD-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE
123A90-DDL-EL-DL-20105	ELECTRICAL EQUIPMENT LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DL-20123	LIGHTING & SOCKET LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DD-20095	MCT COMPOSITION
1724000049-EL-LIS-00044	B-200 ELECTRICAL COMPONENTS LIST AND DS - E&I SHELTERS
123A90-DDL-EL-DL-20115	ELECTRICAL MCT LAYOUT - LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	SAM	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	18/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

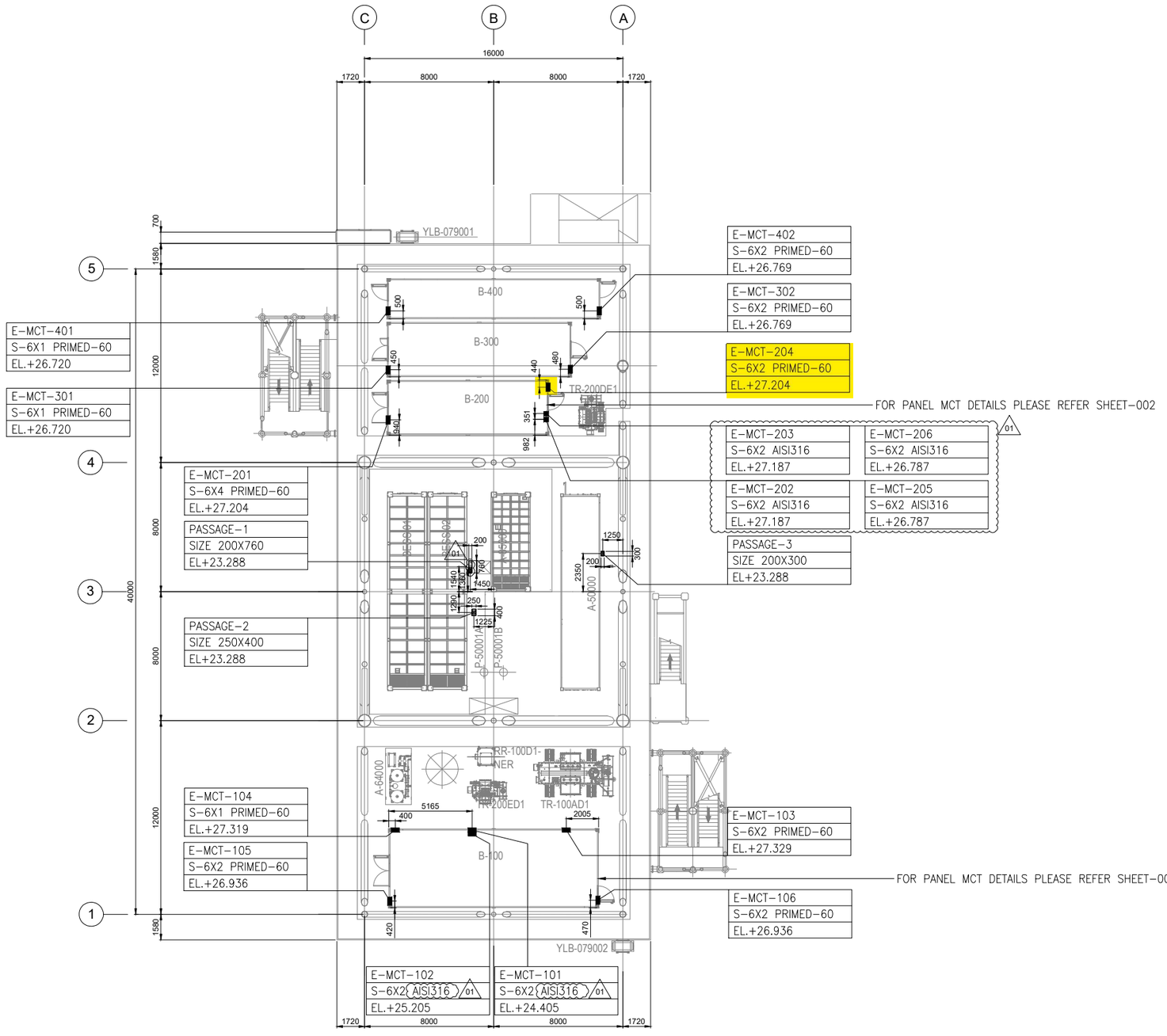
TITLE :
BASE LOAD POWER HUB (BLPH)
ELECTRICAL CABLE ROUTING LAYOUT
LV SWITCHROOM

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:50
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 02/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20112	SHEET 9of11	REV. 01

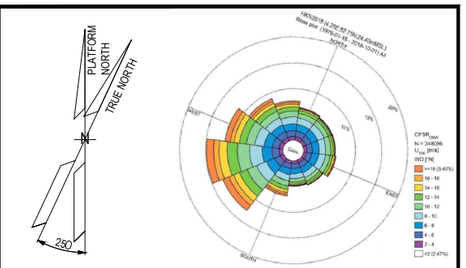
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DRAWING NO. 123A90-DDL-EL-DL-20115

REV. 01



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



NOTES

GENERAL NOTES:

1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. ALL ELEVATIONS RELATE TO LOWEST ASTRONOMICAL TIDE (LAT) = 0.000.

NOTES:

1. THIS DOCUMENT IS VALID FOR TAGGING, SIZE AND LOCATION OF THE MCT.

LEGEND

LEGEND MCT FRAME

S 6X1 (FOR E-MCT-104) 160.6 208 ELEVATION

S 6X1 (FOR E-MCT-301, E-MCT-401) 01 01 238 ELEVATION

S 6X2 271 208 ELEVATION

LEGEND PASSAGE FRAME W H ELEVATION

S 6X3 401.5 208 ELEVATION

S 6X4 532 208 ELEVATION

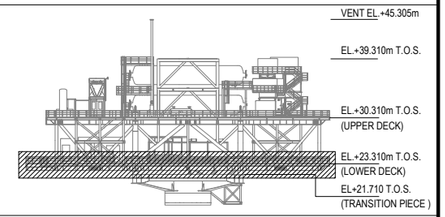
	HEIGHT in mm	WIDTH in mm
PASSAGE-1	100	300
PASSAGE-2	150	200
PASSAGE-3	100	200

MULTI CABLE TRANSIT

PASSAGE

TAG — TAGGING
SIZE-MATERIAL-DEPTH — TYPICAL
EL. — ELEVATION

KEY PLAN



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-20095	MCT COMPOSITION
123A90-DDL-EL-DL-20114	ELECTRICAL MCT LAYOUT-TOP DECK
123A90-DDL-EL-DL-20116	ELECTRICAL MCT LAYOUT- BELOW LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	23/07/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	12/04/24	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

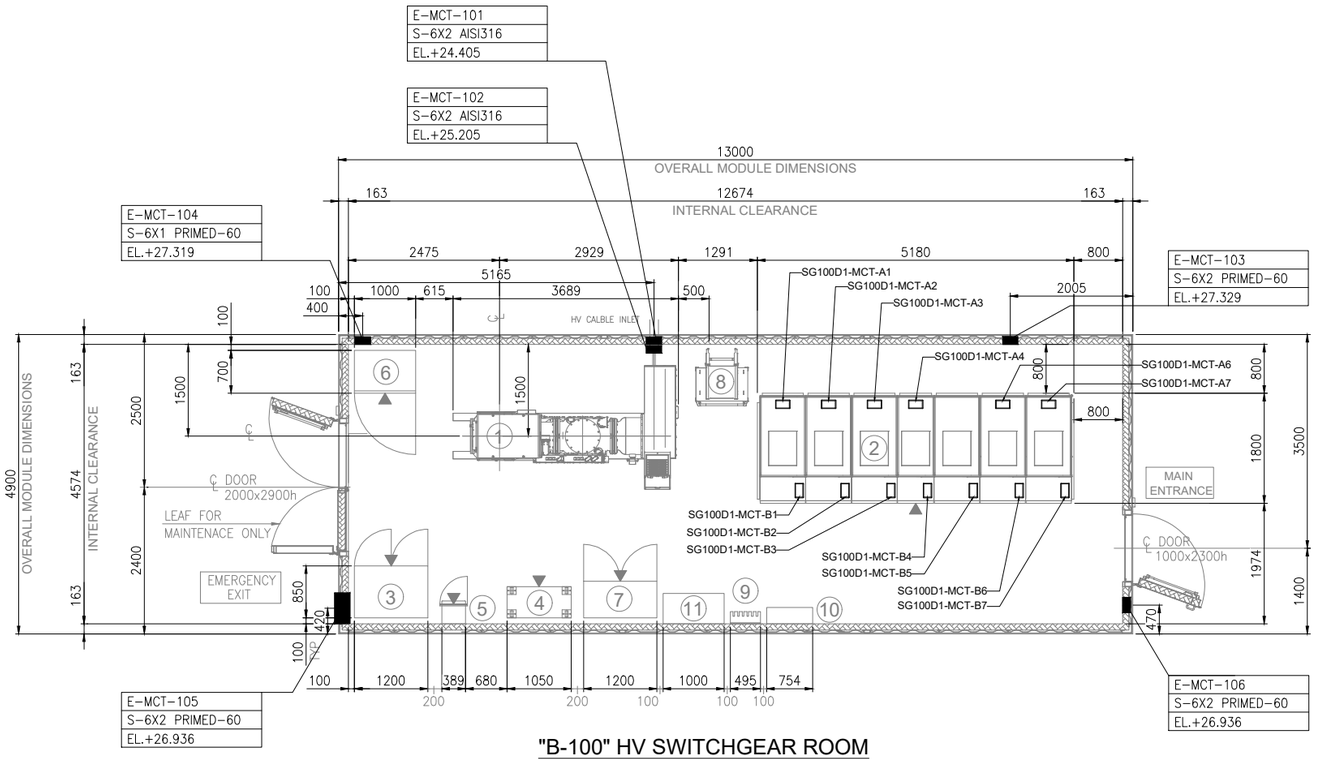
CROSSWIND | ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
ELECTRICAL MCT LAYOUT
LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN SPS	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 18/07/24
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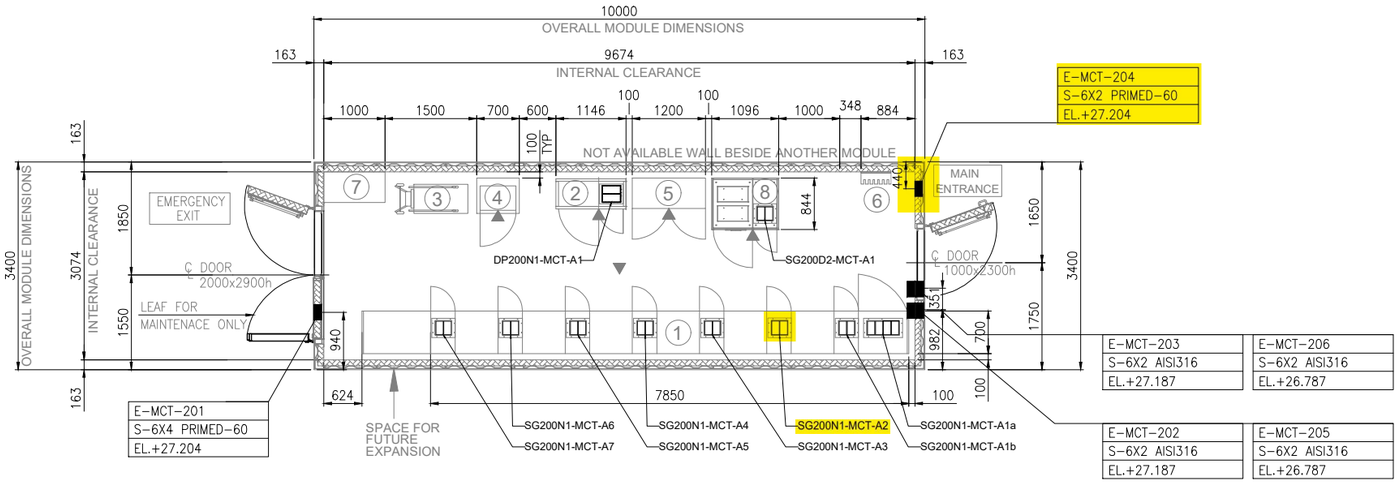
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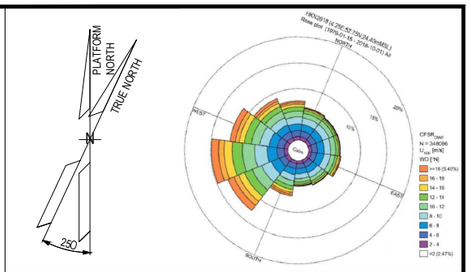
"B-100" HV SWITCHGEAR ROOM

SG-100D1 – 6.6KV SWITCHGEAR MCT (NOTE-2)	
SG100D1-MCT-A1	S 6X1 PRIMED
SG100D1-MCT-A2	S 6X1 PRIMED
SG100D1-MCT-A3	S 6X1 PRIMED
SG100D1-MCT-A4	S 6X1 PRIMED
SG100D1-MCT-A6	S 6X1 PRIMED
SG100D1-MCT-A7	S 6X1 PRIMED
SG100D1-MCT-B1	S 6X1 PRIMED
SG100D1-MCT-B2	S 6X1 PRIMED
SG100D1-MCT-B3	S 6X1 PRIMED
SG100D1-MCT-B4	S 6X1 PRIMED
SG100D1-MCT-B5	S 6X1 PRIMED
SG100D1-MCT-B6	S 6X1 PRIMED
SG100D1-MCT-B7	S 6X1 PRIMED



"B-200" LV SWITCHGEAR ROOM

SG-200N1 – LV SWITCHGEAR MCT (NOTE-2)	
SG200N1-MCT-A1a	S 6X4 PRIMED
SG200N1-MCT-A1b	S 6X2 PRIMED
SG200N1-MCT-A2	S 6X2 PRIMED
SG200N1-MCT-A3	S 6X2 PRIMED
SG200N1-MCT-A4	S 6X2 PRIMED
SG200N1-MCT-A5	S 6X2 PRIMED
SG200N1-MCT-A6	S 6X2 PRIMED
SG200N1-MCT-A7	S 6X2 PRIMED
DP-200N1 – DB BOP MCT (NOTE-2)	
DP200N1-MCT-A1	S 8X2 PRIMED
SG-200D2 – SOLAR ACB MCT (NOTE-2)	
SG200D2-MCT-A1	S 6X2 PRIMED



NOTES

GENERAL NOTES:

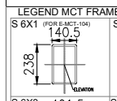
1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. ALL ELEVATIONS RELATE TO LOWEST ASTRONOMICAL TIDE (LAT) = 0.000.

NOTES:

1. THIS DOCUMENT IS VALID FOR TAGGING, SIZE AND LOCATION OF THE MCT.
2. THE MCT FRAMES ARE IN VENDOR SCOPE AND FIXED ON THE VENDOR EQUIPMENT ITEM SG-100D1,SG-200N1, DP-200N1, SG-200D2

LEGEND

LEGEND MCT FRAME



LEGEND PASSAGE FRAME

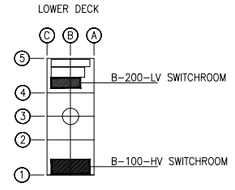


	HEIGHT in mm	WIDTH in mm
PASSAGE-1	100	300
PASSAGE-2	150	200
PASSAGE-3	100	200

MULTI CABLE TRANSIT

TAG	TAGGING
SIZE-MATERIAL-DEPTH	TYPICAL
EL.	ELEVATION

KEY PLAN



REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20104	ELECTRICAL EQUIPMENT LAYOUT - HV SWITCHROOM
123A90-DDL-EL-DL-20105	ELECTRICAL EQUIPMENT LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DD-20095	MCT COMPOSITION

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	23/07/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	12/04/24	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
ELECTRICAL MCT LAYOUT
LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:50
DRAWN SPS	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 18/07/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20115	SHEET 002	REV. 01

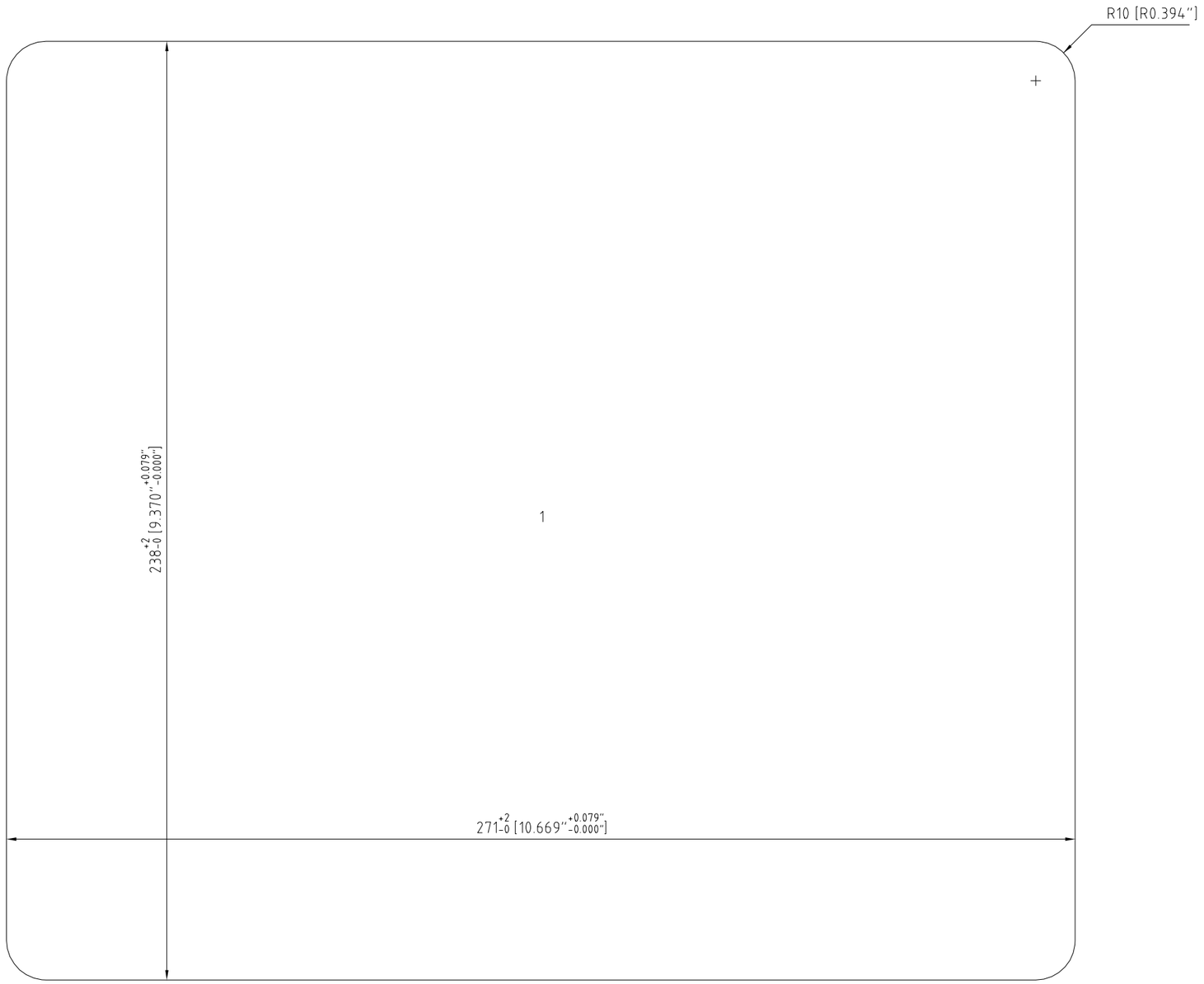
File Name : 123A90-DDL-EL-DL-20115

RTD Version No: 4.37.4.0

Drawing shows component layout according to design. Verification is needed to check if the configuration is valid for the application/certification intended.

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Cutout Detail

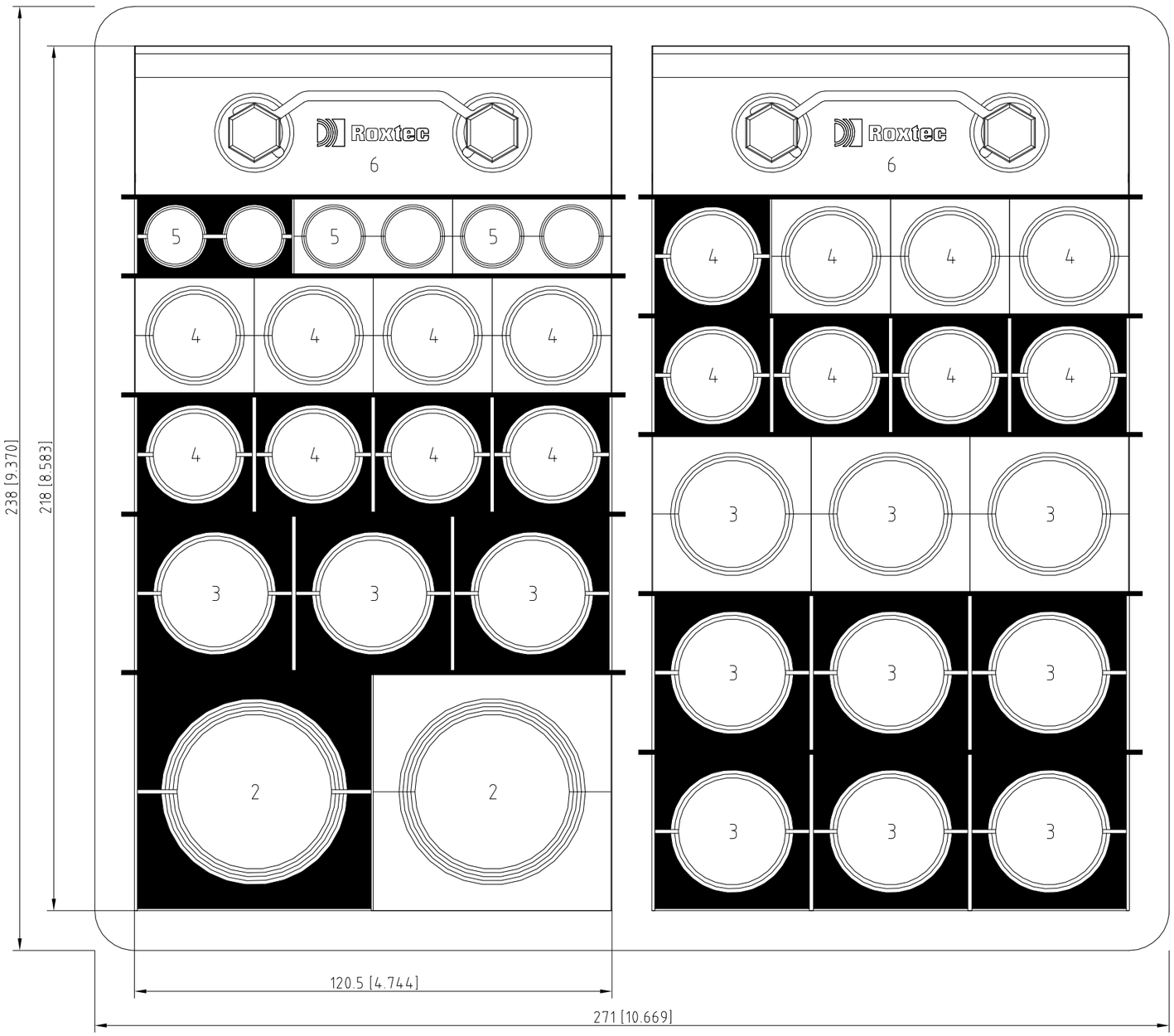
Frame: S 6x2 PRIMED Solution: 1

Item	Qty	Roxtec Packing Material mm ["]	Roxtec Art No	Weight Kg [lb]

Responsible: ARNESH	Created Date: 2024-07-10	Modify Date: 2024-07-17	Project: BLPH - ROS Location/ Sublocation	TotWeight: 12.1 [26.74]
Roxtec	Format: NTS		Transit name: E-MCT-204	Sheet No: 1/3
Client		Drawing number		Rev

RTD Version No: 4.37.4.0

CUTOUT TO FIT SOLUTION WELDING, 271x238 [10.669"x9.370"]



MODULE WITH PIPE | MODULE WITH CABLE | SPARE MODULE | SOLID MODULE

Detail Drawing

Solution: 1

Item	Qty	Roxtec Packing Material mm ["]	Roxtec Art No	Weight Kg [lb]
7	10	Stayplate 120 galv	ASP0001200018	0.1 [0.24]
6	2	Wedge 120 galv	ARW0001201018	0.8 [1.76]
5	3	RM 20W40 3.5-16.5 [0.138"-0.650"]	RM00120401000	0.1 [0.15]
4	16	RM 30 10-25 [0.394"-0.984"]	RM00100301000	0.1 [0.18]
3	12	RM 40 21.5-34.5 [0.846"-1.358"]	RM00100401000	0.1 [0.31]
2	2	RM 60 28-54 [1.102"-2.126"]	RM00100601000	0.3 [0.73]
1	1	S 6x2 PRIMED	S006000000212	5.6 [12.35]

Responsible	Created Date	Modify Date	Project	TotWeight
ARNESH	2024-07-10	2024-07-17	BLPH - ROS Location/ Sublocation	12.1 [26.74]
Roxtec	Format NTS		Transit name E-MCT-204	Sheet No 2/3
	Client	Drawing number		Rev

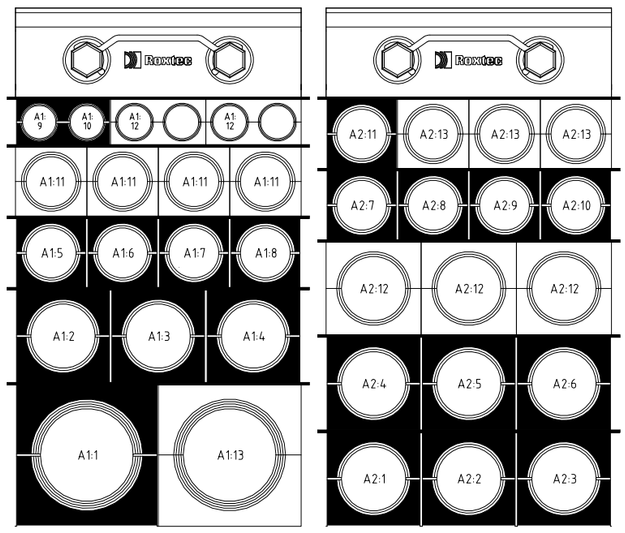
Drawing shows component layout according to design. Verification is needed to check if the configuration is valid for the application/certification intended.

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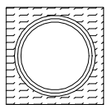
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A1 A2

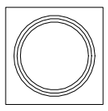
A1 A2

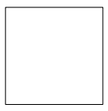


Pos	Cable ID	Name	Cable Type	Cable Category	OD (mm/ ["])	Module Type
A2:13						RM 30 10-25 [0.394"-0.984"]
A2:12						RM 40 21.5-34.5 [0.846"-1.358"]
A2:11	P-EJB-200N1-03-L2-01	Normal Lighting Lower Deck - Circuit No. 1	3G4	Power	14.3 [0.563"]	RM 30 10-25 [0.394"-0.984"]
A2:10	83010-CEL-N	Temporary Generator / Mobile Battery Pack	1C X 95	Power	17.3 [0.681"]	RM 30 10-25 [0.394"-0.984"]
A2:9	83010-CEL-L3	Temporary Generator / Mobile Battery Pack	1C X 95	Power	17.3 [0.681"]	RM 30 10-25 [0.394"-0.984"]
A2:8	83010-CEL-L2	Temporary Generator / Mobile Battery Pack	1C X 95	Power	17.3 [0.681"]	RM 30 10-25 [0.394"-0.984"]
A2:7	83010-CEL-L1	Temporary Generator / Mobile Battery Pack	1C X 95	Power	17.3 [0.681"]	RM 30 10-25 [0.394"-0.984"]
A2:6	83030-CEL	AC UPS PAS - 30min - Bypass	4G35	Power	27.4 [1.079"]	RM 40 21.5-34.5 [0.846"-1.358"]
A2:5	83029-CEL	AC UPS PAS - 30min - Line B	4G35	Power	27.4 [1.079"]	RM 40 21.5-34.5 [0.846"-1.358"]
A2:4	83028-CEL	AC UPS PAS - 30min - Line A	4G35	Power	27.4 [1.079"]	RM 40 21.5-34.5 [0.846"-1.358"]
A2:3	83026-CEL	HVAC panels - ITER	5G16	Power	24 [0.945"]	RM 40 21.5-34.5 [0.846"-1.358"]
A2:2	83025-CEL	HVAC panels - UPS Room	5G16	Power	24 [0.945"]	RM 40 21.5-34.5 [0.846"-1.358"]
A2:1	83020-CEL	Crane	5G16	Power	24 [0.945"]	RM 40 21.5-34.5 [0.846"-1.358"]
A1:13						RM 60 28-54 [1.102"-2.126"]
A1:12						RM 20W40 3.5-16.5 [0.138"-0.650"]
A1:11						RM 30 10-25 [0.394"-0.984"]
A1:10	83123-CEL	AC UPS F&G AUXILIARY	3G2.5	Power	13 [0.512"]	RM 20W40 3.5-16.5 [0.138"-0.650"]
A1:9	83122-CEL	AC UPS PAS AUXILIARY	3G2.5	Power	13 [0.512"]	RM 20W40 3.5-16.5 [0.138"-0.650"]
A1:8	84319-CEL	LV SWBD 800/460V Auxiliary	3G2.5	Power	15.5 [0.610"]	RM 30 10-25 [0.394"-0.984"]
A1:7	84318-CEL	LV Switchboard Auxiliary	3G2.5	Power	15.5 [0.610"]	RM 30 10-25 [0.394"-0.984"]
A1:6	84315-CEL	UCP - HVAC LV Room	3G2.5	Power	15.5 [0.610"]	RM 30 10-25 [0.394"-0.984"]
A1:5	83010-CEL-PE	Temporary Generator / Mobile Battery Pack	1C X 95	Power	14.5 [0.571"]	RM 30 10-25 [0.394"-0.984"]
A1:4	83033-CEL	AC UPS F&G - 8h - Bypass	4G35	Power	27.4 [1.079"]	RM 40 21.5-34.5 [0.846"-1.358"]
A1:3	83032-CEL	AC UPS F&G - 8h - Line B	4G35	Power	24.4 [0.961"]	RM 40 21.5-34.5 [0.846"-1.358"]
A1:2	83031-CEL	AC UPS F&G - 8h - Line A	4G35	Power	27.4 [1.079"]	RM 40 21.5-34.5 [0.846"-1.358"]
A1:1	83021-CEL	Welding Sockets (Top Deck) JB's	5G50	Power	35 [1.378"]	RM 60 28-54 [1.102"-2.126"]


MODULE WITH PIPE


MODULE WITH CABLE


SPARE MODULE

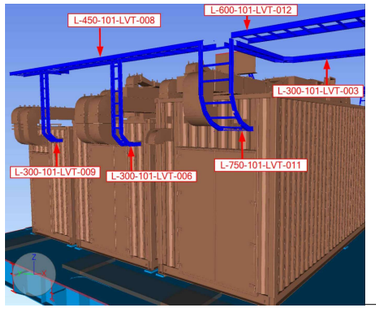

SOLID MODULE

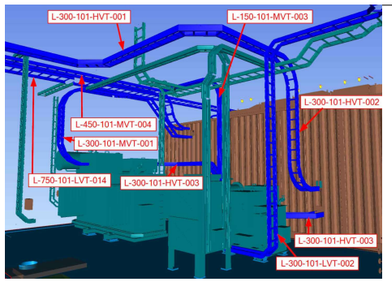
Responsible: ARNESH	Created Date: 2024-07-10	Modify Date: 2024-07-17	Project: BLPH - ROS	Location/ Sublocation	TotWeight: 12.1 [26.74]
Roxtec	Format: NTS		Transit name: E-MCT-204		Sheet No: 3/3
	Client		Drawing number		Rev

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Drawing shows component layout according to design. Verification is needed to check if the configuration is valid for the application/certification intended.
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DRAWING NO. 123A90-DDL-EL-DL-20108

REV. 01





L-750-101-LVT-013
W750 X H100mm
+27.078m
+3.768m T.O.S

L-450-101-LVT-005
W450 X H100mm
+26.660m
+3.350m T.O.S

L-300-101-MVT-006
W300 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-MVT-006
W300 X H100mm
+28.810/+30.190m
+5.500/6.880m T.O.S

L-300-101-LVT-007
W300 X H100mm
+28.810/+26.660m
+5.500/3.350m T.O.S

L-750-101-LVT-001
W750 X H100mm
+26.678m
+3.368m T.O.S

L-300-101-LVT-009
W300 X H100mm
+26.660m
+3.350m T.O.S

L-300-101-LVT-009
W300 X H100mm
+28.760/+26.660m
+5.450/3.350m T.O.S

L-300-101-LVT-006
W300 X H100mm
+26.660m
+3.350m T.O.S

L-300-101-LVT-006
W300 X H100mm
+28.760/+26.660m
+5.450/3.350m T.O.S

L-450-101-LVT-008
W450 X H100mm
+28.810m
+5.500m T.O.S

L-450-101-LVT-008
W450 X H100mm
+28.010/+28.810m
+4.700/5.500m T.O.S

L-600-101-LVT-012
W600 X H100mm
+28.010/+28.810m
+4.700/5.500m T.O.S

L-750-101-LVT-011
W750 X H100mm
+27.078m
+3.768m T.O.S

L-750-101-LVT-011
W750 X H100mm
+27.078/+28.010m
+3.768/4.700m T.O.S

L-750-101-LVT-001
W750 X H100mm
+25.335m
+2.025m T.O.S

L-300-101-LVT-003
W300 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-LVT-004
W300 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-LVT-004
W300 X H100mm
+28.810/+23.360m
+5.500/0.050m T.O.S

L-600-101-LVT-012
W600 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-LVT-002
W300 X H100mm
+23.480m
0.170m T.O.S

L-300-101-LVT-002
W300 X H100mm
+28.810/+23.480m
+5.500/0.170m T.O.S

L-300-101-MVT-007
W300 X H100mm
+27.210/+30.190m
+3.900/6.880m T.O.S

L-300-101-MVT-007
W300 X H100mm
+27.210m
+3.900m T.O.S

L-300-101-HVT-002
W300 X H150mm
+25.004/+28.810m
+1.694/5.500m T.O.S

L-300-101-HVT-002
W300 X H150mm
+25.004m
+1.694m T.O.S

L-150-101-MVT-003
W150 X H100mm
+23.510m
+0.200m T.O.S

L-300-101-HVT-003
W300 X H150mm
+24.205m
+0.895m T.O.S

L-300-101-HVT-003
W300 X H150mm
+25.410m
+2.100m T.O.S

L-150-101-MVT-003
W150 X H100mm
+28.810m
+5.500m T.O.S

L-750-101-LVT-015
W750 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-MVT-002
W300 X H100mm
+28.810m
+5.500m T.O.S

L-450-101-LVT-005
W450 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-MVT-002
W300 X H100mm
+23.648m
+0.338m T.O.S

L-600-101-LVT-010
W600 X H100mm
+28.810m
5.500m T.O.S

L-600-101-LVT-010
W600 X H100mm
+27.078m
+3.768m T.O.S

L-750-101-LVT-013
W750 X H100mm
+28.810m
+5.500m T.O.S

L-750-101-LVT-014
W750 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-MVT-005
W300 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-MVT-005
W300 X H100mm
+28.810/+23.600m
+5.500/0.290m T.O.S

L-300-101-HVT-001
W300 X H150mm
+28.810m
+5.50m T.O.S

L-300-101-HVT-001
W300 X H150mm
+23.385/+28.810m
+0.75/5.50m T.O.S

L-450-101-MVT-004
W450 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-HVT-001
W300 X H150mm
+28.810m
+5.500m T.O.S

L-300-101-MVT-001
W300 X H100mm
+25.800/+28.410m
+2.490/5.100m T.O.S

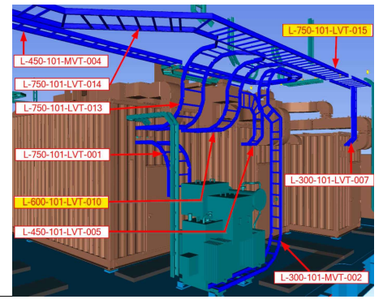
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+28.410m
+5.100m T.O.S

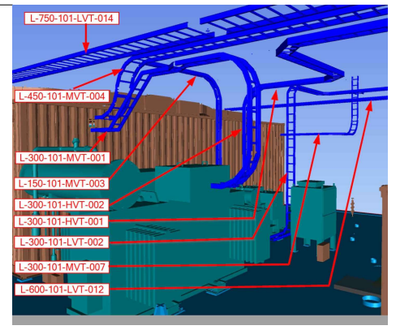
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+28.810m
+5.500m T.O.S

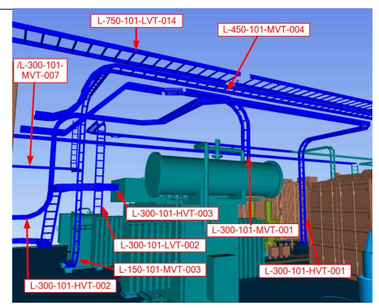
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+4.100m T.O.S

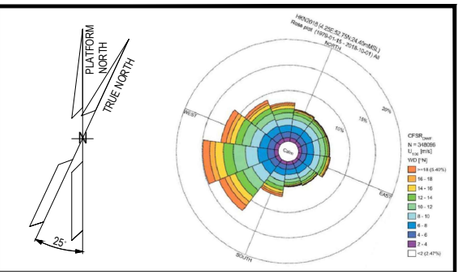
L-750-101-LVT-014
W750 X H100mm
+28.810/27.810m
+5.500/4.500m T.O.S

L-300-101-MVT-001
W300 X H100mm
+27.070m
+3.760m T.O.S









NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS NOTED OTHERWISE.
2. ELEVATIONS REFER TO T.O.S.
3. THIS DRAWING IS VALID ONLY FOR ELECTRICAL CABLE ROUTING LAYOUT.
4. A MINIMUM OF 20% CAPACITY IN EACH CABLE LADDER SHALL BE PROVIDED FOR FUTURE EXTENSION.
5. DRAWING SPLIT INTO MULTIPLY SHEETS FOR CLARITY.
6. FOR INSTALLATION DETAIL OF CABLE LADDER REFER TO DOC. 123A90-DDL-EL-DD-20093.
7. UNARMOURED CABLES PASSING OR ARRIVING IN A CLASSIFIED AREA WILL BE MECHANICALLY PROTECTED IN COMPLIANCE WITH THE REQUIREMENTS OF THE IEC 60079-14.
8. 50MM CABLE TRAYS ROUTES MAY BE MODIFIED DURING CONSTRUCTION WITHOUT OFFICIAL APPROVAL.

LEGEND

- ELECTRICAL 66 KV CABLE TRAY
- ELECTRICAL 6.6 KV CABLE TRAY
- ELECTRICAL LV CABLE TRAY
- CABLE TRAY ELEVATION CHANGE
- ELECTRICAL CABLE TRAY VERTICAL RAISE
- ELECTRICAL CABLE TRAY VERTICAL DROP
- L101 — CABLE TRAY SECTION
- TAG
- SIZE
- ELEVATION
- ELEVATION(T.O.S)

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20108**

REV.:	DATE:	SIGNATURE:
1_B	22/08/24	G.Randi

ROSETTI MARINO SpA

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-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-DL-20107	ELECTRICAL CABLES ROUTING LAYOUT - TOP DECK
123A90-DDL-EL-DL-20109	ELECTRICAL CABLES ROUTING LAYOUT - BELOW LOWER DECK
123A90-DDL-EL-DG-20125	LIGHTING & SOCKET CIRCUIT DIAGRAM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	30/07/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	27/06/24	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :

BASE LOAD POWER HUB (BLPH)
ELECTRICAL CABLES ROUTING LAYOUT
LOWER DECK

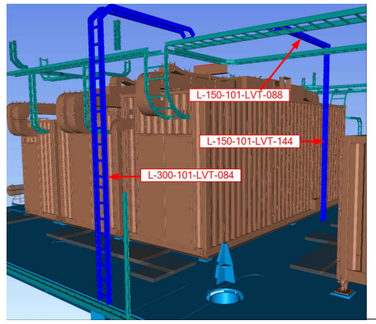
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN SPS	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 30/07/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20108	SHEET 01of18	REV. 01

File Name : 123A90-DDL-EL-DL-20108

PRIMARY CABLE ROUTING
PLAN ON LOWER DECK
EL+23.310 T.O.S

DRAWING NO. 123A90-DDL-EL-DL-20108

REV. 01



L-300-101-LVT-112
W300 X H100mm
+28.810/30.170m
+5.500/6.860m T.O.S

L-300-101-LVT-077
W300 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-LVT-078
W300 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-LVT-078
W300 X H100mm
+29.060/30.170m
+5.750/6.860m T.O.S

L-150-101-LVT-086
W150 X H100mm
+23.300m
−0.010m T.O.S

L-150-101-LVT-086
W150 X H100mm
+22.700m
−0.610m T.O.S

L-300-101-LVT-077
W300 X H100mm
+28.810/30.170m
+5.500/6.860m T.O.S

L-300-101-LVT-078
W300 X H100mm
+29.060m
+5.750m T.O.S

L-300-101-LVT-073
W300 X H100mm
+28.810m
+5.500m T.O.S

L-150-101-LVT-086
W150 X H100mm
+23.300m
−0.010m T.O.S

L-150-101-LVT-106
W150 X H100mm
+28.988/30.188m
+5.678/6.878m T.O.S

L-300-101-LVT-084
W300 X H100mm
+29.010m
+5.700m T.O.S

L-300-101-LVT-084
W300 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-LVT-084
W300 X H100mm
+29.010/+23.298m
+5.700/0.012m T.O.S

L-150-101-LVT-088
W150 X H100mm
+29.010m
+5.700m T.O.S

L-150-101-LVT-088
W150 X H100mm
+28.810m
+5.500m T.O.S

L-150-101-LVT-144
W150 X H100mm
+28.930/24.180m
+5.620/0.870m T.O.S

L-300-101-LVT-068
W300 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-LVT-068
W300 X H100mm
+29.060m
+5.750m T.O.S

L-150-101-LVT-083
W150 X H100mm
+23.300m
−0.010m T.O.S

L-300-101-LVT-096
W300 X H100mm
+28.960/24.400m
+5.650/1.090m T.O.S

L-150-101-LVT-102
W150 X H100mm
+28.938/30.188m
+5.628/6.878m T.O.S

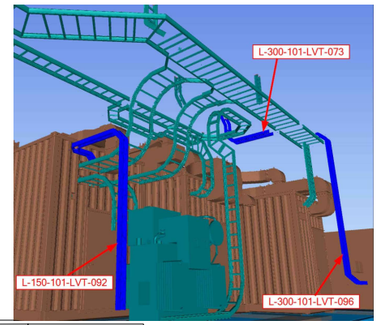
L-150-101-LVT-103
W150 X H100mm
+28.908/30.208m
+5.598/6.898m T.O.S

L-150-101-LVT-092
W150 X H100mm
+27.178m
+3.868m T.O.S

L-150-101-LVT-092
W150 X H100mm
+27.278m
+3.968m T.O.S

L-150-101-LVT-092
W150 X H100mm
+27.278/23.728m
+3.968/0.418m T.O.S

L-300-101-LVT-095
W300 X H100mm
+28.888/30.188m
+5.578/6.878m T.O.S



L-150-101-LVT-093
W150 X H100mm
+28.810/26.400m
+5.500/3.090m T.O.S

L-150-101-LVT-099
W150 X H100mm
+28.810/24.000m
+5.500/0.690m T.O.S

L-150-101-LVT-139
W150 X H100mm
+26.280
+2.970m T.O.S

L-300-101-LVT-068
W300 X H100mm
+29.060m/+23.500
+5.750/0.190m T.O.S

L-150-101-LVT-087
W150 X H100mm
+28.810/23.390m
+5.500/0.080m T.O.S

L-150-101-LVT-138
W150 X H100mm
+26.280
+2.970m T.O.S

L-150-101-LVT-105
W150 X H100mm
+28.810/30.188m
+5.500/6.878m T.O.S

L-300-101-LVT-070
W300 X H100mm
+23.410m
+0.100m T.O.S

L-150-101-LVT-146
W150 X H100mm
+26.280/24.520m
+2.970/1.210m T.O.S

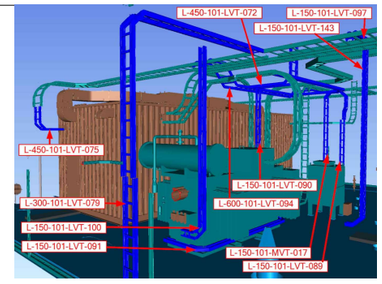
L-150-101-LVT-083
W150 X H100mm
+23.300/22.860m
−0.010/0.450m T.O.S

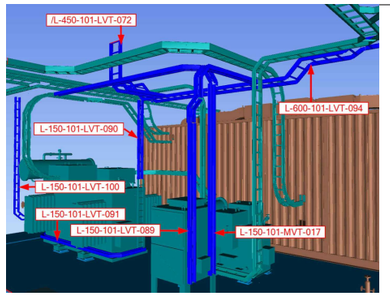
L-150-101-LVT-081
W150 X H100mm
+22.680m
−0.630m T.O.S

L-300-101-LVT-069
300X100mm
+29.060m
+5.750m T.O.S

L-300-101-LVT-071
W300 X H100mm
+23.410m
+0.100m T.O.S

L-150-101-LVT-101
W150 X H100mm
+28.810/30.188m
+5.500/6.878m T.O.S





L-300-101-LVT-069
300X100mm
+29.060/23.610m
+5.750/0.300m T.O.S

L-300-101-LVT-109
W300 X H100mm
+23.410m
+0.100m T.O.S

L-300-101-LVT-079
W300 X H100mm
+28.810/22.940m
+5.500/−0.370m T.O.S

L-300-101-LVT-080
W300 X H100mm
+22.680m
−0.630m T.O.S

L-150-101-LVT-097
W150 X H100mm
+29.080m
+5.770m T.O.S

L-150-101-LVT-143
W150 X H100mm
+29.080/24.185m
+5.770/0.875m T.O.S

L-150-101-LVT-082
W150 X H100mm
+22.680m
−0.630m T.O.S

L-150-101-LVT-089
W150 X H100mm
+28.410/23.860m
+5.100/0.550m T.O.S

L-150-101-LVT-089
W150 X H100mm
+28.410m
+5.100m T.O.S

L-150-101-LVT-082
W150 X H100mm
+23.300m
−0.010m T.O.S

L-300-101-LVT-098
W300 X H100mm
+28.660/24.000m
+5.350/0.690m T.O.S

L-150-101-LVT-104
W150 X H100mm
+28.938/30.188m
+5.628/6.878m T.O.S

L-300-101-LVT-076
W300 X H100mm
+28.810m
+5.500m T.O.S

L-150-101-LVT-100
W150 X H100mm
+28.710/24.260m
+5.400/0.950m T.O.S

L-600-101-LVT-094
W600 X H100mm
+28.970m
+5.660m T.O.S

L-600-101-LVT-094
W600 X H100mm
+28.810m
+5.500m T.O.S

L-150-101-LVT-091
W150 X H100mm
+23.600m
+0.290m T.O.S

L-600-101-LVT-094
W600 X H100mm
+28.410m
+5.100m T.O.S

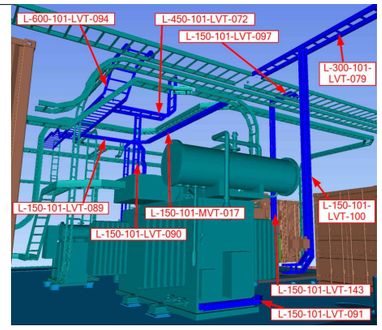
L-600-101-LVT-094
W600 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-LVT-074
W300 X H100mm
+28.810/26.810m
+5.500/3.500m T.O.S

L-150-101-LVT-085
W150 X H100mm
+22.598m
−0.712m T.O.S

L-450-101-LVT-072
W450 X H100mm
+28.410/30.219m
+5.100/6.909m T.O.S

L-450-101-LVT-075
W300 X H100mm
+27.810/26.810m
+4.500/3.500m T.O.S



L-150-101-MVT-017
W150 X H100mm
+28.410/23.860m
+5.100/0.550m T.O.S

L-150-101-LVT-108
W150 X H100mm
+23.300m
−0.010m T.O.S

L-150-101-LVT-108
W150 X H100mm
+22.598m
−0.712m T.O.S

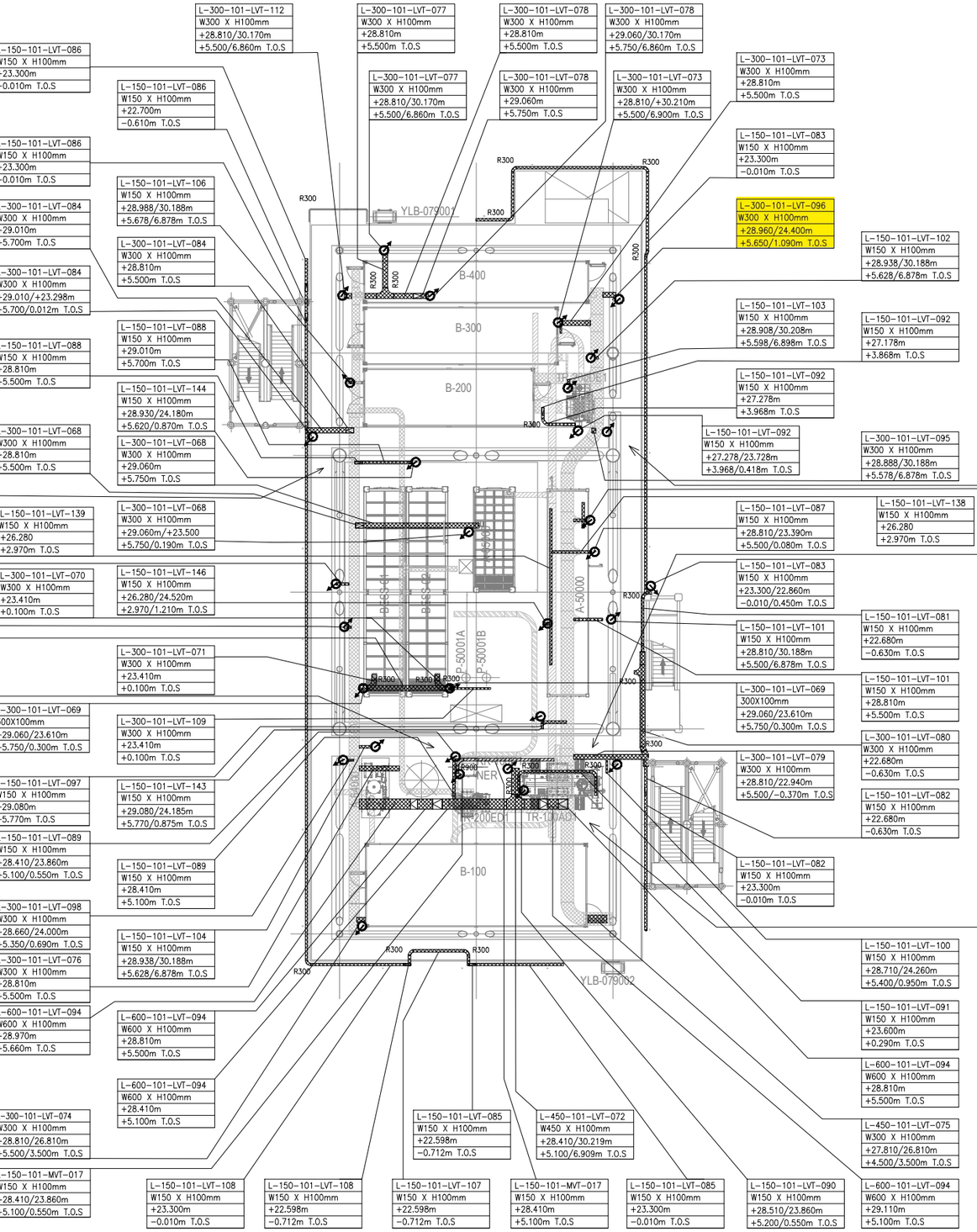
L-150-101-LVT-107
W150 X H100mm
+22.598m
−0.712m T.O.S

L-150-101-MVT-017
W150 X H100mm
+28.410m
+5.100m T.O.S

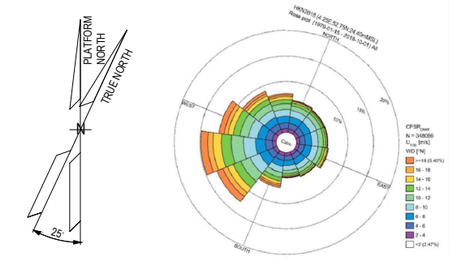
L-150-101-LVT-085
W150 X H100mm
+23.300m
−0.010m T.O.S

L-150-101-LVT-090
W150 X H100mm
+28.510/23.860m
+5.200/0.550m T.O.S

L-600-101-LVT-094
W600 X H100mm
+29.110m
+5.100m T.O.S



SECONDARY CABLE ROUTING
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. THIS DRAWING IS VALID ONLY FOR ELECTRICAL CABLE ROUTING LAYOUT.
4. A MINIMUM OF 20% CAPACITY IN EACH CABLE LADDER SHALL BE PROVIDED FOR FUTURE EXTENSION.
5. DRAWING SPLIT INTO MULTIPLY SHEETS FOR CLARITY.
6. FOR INSTALLATION DETAIL OF CABLE LADDER REFER TO DOC. 123A90-DDL-EL-DD-20093.
7. UNARMOURED CABLES PASSING OR ARRIVING IN A CLASSIFIED AREA WILL BE MECHANICALLY PROTECTED IN COMPLIANCE WITH THE REQUIREMENTS OF THE IEC 60079-14.
8. 50MM CABLE TRAYS ROUTES MAY BE MODIFIED DURING CONSTRUCTION WITHOUT OFFICIAL APPROVAL.

LEGEND

- ELECTRICAL 66 KV CABLE TRAY
- ELECTRICAL 6.6 KV CABLE TRAY
- ELECTRICAL LV CABLE TRAY
- CABLE TRAY ELEVATION CHANGE
- ELECTRICAL CABLE TRAY VERTICAL RAISE
- ELECTRICAL CABLE TRAY VERTICAL DROP
- L101 — CABLE TRAY SECTION
- TAG
- SIZE
- ELEVATION
- ELEVATION(T.O.S)

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20108**

REV.:	DATE:	SIGNATURE:
1_B	22/08/24	G.Randi

ROSETTI MARINO SpA

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-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-DL-20107	ELECTRICAL CABLES ROUTING LAYOUT - TOP DECK
123A90-DDL-EL-DL-20109	ELECTRICAL CABLES ROUTING LAYOUT - BELOW LOWER DECK
123A90-DDL-EL-DG-20125	LIGHTING & SOCKET CIRCUIT DIAGRAM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	30/07/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	27/06/24	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
ELECTRICAL CABLES ROUTING LAYOUT
LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN SPS	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 30/07/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20108	SHEET 02of18	REV. 01

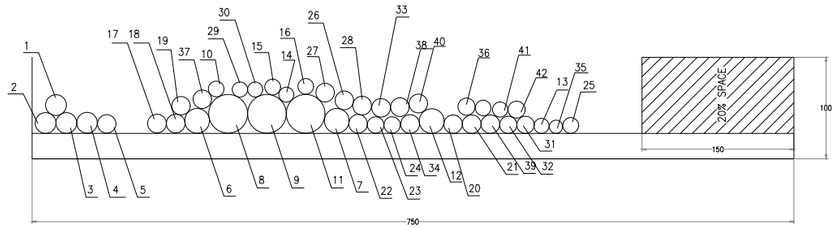
File Name : 123A90-DDL-EL-DL-20108

DRAWING NO. 123A90-DDL-EL-DL-20108

REV. 01

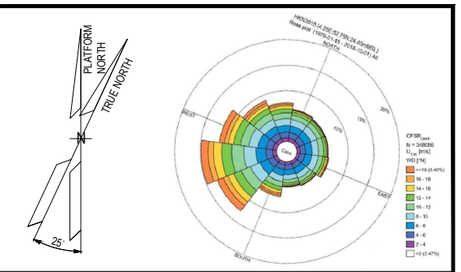
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L106 (L-750-101-LVT-015)



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83010-CEL-L1	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
2	83010-CEL-L2	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
3	83010-CEL-L3	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
4	83010-CEL-N	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
5	83010-CEL-PE	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P6	1C x 95
6	83012-CEL	FUEL CELL AUXILIARY LOAD	SG-200N1	A-80000	POWER CABLE	P4	5G16
7	83020-CEL	CRANE	SG-200N1	JB-200E3	POWER CABLE	P4	5G16
01 8	83021-CEL-03	WELDING SOCKETS (TOP DECK) JB'S	JB-200E6	JB-200E7	POWER CABLE	P4	5G50
9	83022-CEL	WELDING SOCKET (LOWER DECK)	SG-200N1	JB-200E4	POWER CABLE	P4	5G50
10	72213-CEL	INTERMEDIATE OBSTRUCTION RED LIGHTS	EJB-200F2-02	EOL-200-04	POWER CABLE	P5	3G2.5
01 11	83022-CEL-03	WELDING SOCKETS (LOWER DECK) JB'S	JB-200E4	JB-200E5	POWER CABLE	P4	5G50
12	83026-CEL	HVAC PANEL – ITER	SG-200N1	B400-HSB-001	POWER CABLE	P4	5G16
13	72210-CEL	WAVE OFF STATUS LIGHT	NC-200F2	ESL-200-01	POWER CABLE	P5	2C X 2.5
14	72202-CEL	NAV AIDS MAIN YELLOW LANTERNS	NC-200F2	EML-200-02	POWER CABLE	P5	2C X 2.5
15	72203-CEL	TOP OBSTRUCTION LIGHTS JUNCTION BOX	NC-200F2	EJB-200F2-01	POWER CABLE	P5	3G2.5
16	72211-CEL	INTERMEDIATE OBSTRUCTION LIGHTS JUNCTION BOX	NC-200F2	EJB-200F2-02	POWER CABLE	P5	3G2.5
17	84301-CEL	SIS – CONTROLLER AND I/O CABINET – LINE A	DP-200F3	B400-SIS-001	POWER CABLE	P5	3G2.5
18	84302-CEL	SIS – CONTROLLER AND I/O CABINET – LINE B	DP-200F3	B400-SIS-001	POWER CABLE	P5	3G2.5
19	84303-CEL	PCS – CONTROLLER AND I/O CABINET – LINE A	DP-200F3	B400-PCS-001	POWER CABLE	P5	3G2.5
20	84304-CEL	PCS – CONTROLLER AND I/O CABINET – LINE B	DP-200F3	B400-PCS-001	POWER CABLE	P5	3G2.5
21	84305-CEL	EMCS – CONTROLLER AND I/O CABINET – LINE A	DP-200F3	B400-EMCS-001	POWER CABLE	P5	3G2.5
22	84306-CEL	EMCS – CONTROLLER AND I/O CABINET – LINE B	DP-200F3	B400-EMCS-001	POWER CABLE	P5	3G2.5
23	84307-CEL	SERVER CABINET ITER – LINE A	DP-200F3	B400-SRV-001	POWER CABLE	P5	3G6
24	84308-CEL	SERVER CABINET ITER – LINE B	DP-200F3	B400-SRV-001	POWER CABLE	P5	3G6
01 25	P-EJB-200N1-08-L1-04	EMERGENCY LIGHTING UPPER DECK	DP-200N1	EJB-200N1-08-L1-04	POWER CABLE	P4	4G4_E

POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
27	84313-CEL	UCP – WATER PACKAGE	DP-200F3	JB-500F8	POWER CABLE	P5	3G2.5
28	84314-CEL	UCP – HVAC HV ROOM	DP-200F3	B100-HSB-001	POWER CABLE	P5	3G2.5
29	P-EJB-200N1-02-L1-01	NORMAL LIGHTING UPPER DECK	DP-200N1	EJB-200N1-02-L1-01	POWER CABLE	P4	3G4
30	P-EJB-200N1-03-L2-01	NORMAL LIGHTING LOWER DECK	DP-200N1	EJB-200N1-03-L2-01	POWER CABLE	P4	3G4
01 31	P-EJB-200N1-02-L1-02	NORMAL LIGHTING JB	EJB-200N1-02-L1-01	EJB-200N1-02-L1-02	POWER CABLE	P5	3G4
32	P-EJB-200N1-02-L1-19	NORMAL LIGHTING JB	EJB-200N1-02-L1-01	EJB-200N1-02-L1-19	POWER CABLE	P5	3G4
33	P-EJB-200N1-08-L1-16	EMERGENCY LIGHTING JB	EJB-200N1-08-L1-04	EJB-200N1-08-L1-16	POWER CABLE	P5	4G4_E
34	P-EJB-200N1-08-L1-01	EMERGENCY LIGHTING JB	EJB-200N1-08-L1-04	EJB-200N1-08-L1-01	POWER CABLE	P5	4G4_E
35	P-ELF-200N1-03-L2-01	NORMAL LIGHTING FIXTURE	EJB-200N1-03-L2-01	ELF-200N1-03-L2-01	POWER CABLE	P4	3G2.5
36	P-EPH-200N1-01	TWILIGHT RELAY SENSOR	DP-200N1	EPH-200N1-01	POWER CABLE	P5	3G4
37	84401-CEL	FGS FIRE & GAS PANEL – LINE A	DP-200F4	B400-FGS-001	POWER CABLE	P5	3G2.5
38	84402-CEL	FGS FIRE & GAS PANEL – LINE B	DP-200F4	B400-FGS-001	POWER CABLE	P5	3G2.5
39	84403-CEL	SYSTEM SERVER / NETWORK CABINET – LINE A	DP-200F4	B400-NET-001	POWER CABLE	P5	3G2.5
40	84404-CEL	SYSTEM SERVER / NETWORK CABINET – LINE B	DP-200F4	B400-NET-001	POWER CABLE	P5	3G2.5
01 41	P-EJB-200N1-03-L2-02	NORMAL LIGHTING JB	EJB-200N1-03-L2-01	EJB-200N1-03-L2-02	POWER CABLE	P4	3G4
42	P-ELF-200N1-09-L2-11	EMERGENCY LIGHTING FIXTURE	ELF-200N1-09-L2-02	ELF-200N1-09-L2-11	POWER CABLE	P4	4G2.5_E
43							
44							



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.

CABLE TYPE DETAILS

P2 – SINGLE CORE, 3.6/6 (7.2) KV, CU/EPR/CU/LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.
P3 – SINGLE CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH, PVC, UNARMOURED CABLE, FLAME RETARDANT
P4 – MULTI CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.
P5 – MULTI CORE, 0.6/1 KV, FIRE RESISTANT, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, GALVANIZED STEEL WIRE ARMOURED CABLE, FLAME RETARDANT.
P7 – MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.
P8 – MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, CU SCREEN, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.

LEGEND

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20108**

REV.:	DATE:	SIGNATURE:
1_B	22/08/24	G.Randi

ROSETTI MARINO SpA

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-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-DL-20107	ELECTRICAL CABLES ROUTING LAYOUT - TOP DECK
123A90-DDL-EL-DL-20109	ELECTRICAL CABLES ROUTING LAYOUT - BELOW LOWER DECK
123A90-DDL-EL-DG-20125	LIGHTING & SOCKET CIRCUIT DIAGRAM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	30/07/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	27/06/24	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
ELECTRICAL CABLES ROUTING LAYOUT
LOWER DECK

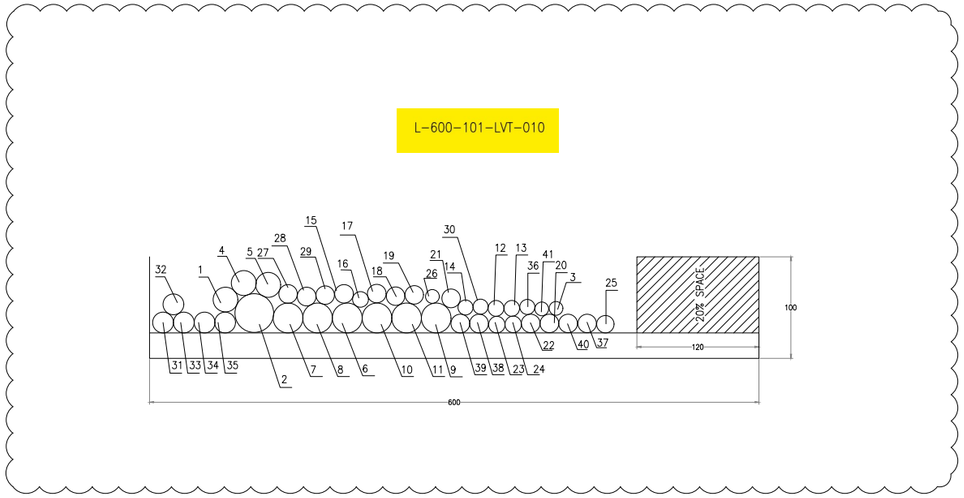
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:50
DRAWN SPS	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 30/07/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20108	SHEET 05of18	REV. 01

File Name : 123A90-DDL-EL-DL-20108

DRAWING NO. 123A90-DDL-EL-DL-20108

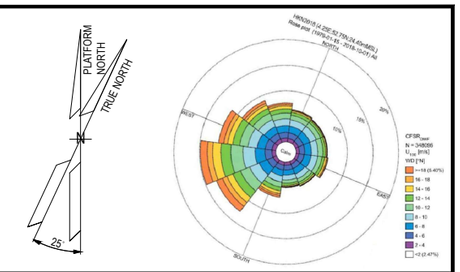
REV. 01

01



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83020-CEL	CRANE	SG-200N1	JB-200E3	POWER CABLE	P4	5G16
2	83021-CEL	WELDING SOCKET (TOP DECK)	SG-200N1	JB-200E6	POWER CABLE	P4	5G50
01 3	83123-CEL	AC UPS F&G AUXILIARY	DP-200N1	UP-200F4	POWER CABLE	P4	3G2.5
4	83025-CEL	HVAC PANEL – UPS ROOM	SG-200N1	B300-HSB-001	POWER CABLE	P4	5G16
5	83026-CEL	HVAC PANEL – ITER	SG-200N1	B400-HSB-001	POWER CABLE	P4	5G16
6	83028-CEL	AC UPS PAS – 30MIN – LINE A	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
7	83029-CEL	AC UPS PAS – 30MIN – LINE B	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
8	83030-CEL	AC UPS PAS – 30MIN – BYPASS	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
9	83031-CEL	AC UPS F&G – 8H – LINE A	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
10	83032-CEL	AC UPS F&G – 8H – LINE B	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
11	83033-CEL	AC UPS F&G – 8H – BYPASS	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
01 12	84318-CEL	LV SWITCHBOARD AUXILIARY	DP-200F3	SG-200N1	POWER CABLE	P5	3G2.5
13	84319-CEL	LV SWBD 800/460V AUXILIARY	DP-200F3	SG-200D2	POWER CABLE	P5	3G2.5
14	72202-CEL	NAV AIDS MAIN YELLOW LANTERNS	NC-200F2	EML-200-02	POWER CABLE	P5	2C X 2.5
15	72203-CEL	TOP OBSTRUCTION LIGHTS JUNCTION BOX	NC-200F2	EJB-200F2-01	POWER CABLE	P5	3G2.5
16	72211-CEL	INTERMEDIATE OBSTRUCTION LIGHTS JUNCTION BOX	NC-200F2	EJB-200F2-02	POWER CABLE	P5	3G2.5
17	84301-CEL	SIS – CONTROLLER AND I/O CABINET – LINE A	DP-200F3	B400-SIS-001	POWER CABLE	P5	3G2.5
18	84302-CEL	SIS – CONTROLLER AND I/O CABINET – LINE B	DP-200F3	B400-SIS-001	POWER CABLE	P5	3G2.5
19	84303-CEL	PCS – CONTROLLER AND I/O CABINET – LINE A	DP-200F3	B400-PCS-001	POWER CABLE	P5	3G2.5
20	84304-CEL	PCS – CONTROLLER AND I/O CABINET – LINE B	DP-200F3	B400-PCS-001	POWER CABLE	P5	3G2.5
21	84305-CEL	EMCS – CONTROLLER AND I/O CABINET – LINE A	DP-200F3	B400-EMCS-001	POWER CABLE	P5	3G2.5
22	84306-CEL	EMCS – CONTROLLER AND I/O CABINET – LINE B	DP-200F3	B400-EMCS-001	POWER CABLE	P5	3G2.5
23	84307-CEL	SERVER CABINET ITER – LINE A	DP-200F3	B400-SRV-001	POWER CABLE	P5	3G6
24	84308-CEL	SERVER CABINET ITER – LINE B	DP-200F3	B400-SRV-001	POWER CABLE	P5	3G6
01 25	P-EPH-200N1-01	TWILIGHT RELAY SENSOR	DP-200N1	EPH-200N1-01	POWER CABLE	P5	3G4

POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
01 26	P-ELF-200N1-03-L2-01	NORMAL LIGHTING FIXTURE	EJB-200N1-03-L2-01	ELF-200N1-03-L2-01	POWER CABLE	P4	3G2.5
27	84313-CEL	UCP – WATER PACKAGE	DP-200F3	CP-500F01	POWER CABLE	P5	3G2.5
28	84314-CEL	UCP – HVAC HV ROOM	DP-200F3	B100-HSB-001	POWER CABLE	P5	3G2.5
29	84315-CEL	UCP – HVAC LV ROOM	DP-200F3	B200-HSB-001	POWER CABLE	P5	3G2.5
01 30	P-EJB-200N1-03-L2-01	NORMAL LIGHTING LOWER DECK	DP-200N1	EJB-200N1-03-L2-01	POWER CABLE	P4	3G4
31	83010-CEL-L1	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
32	83010-CEL-L2	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
33	83010-CEL-L3	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
34	83010-CEL-N	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
35	83010-CEL-PE	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P6	1C x 95
36	72210-CEL	WAVE OFF STATUS LIGHT	NC-200F2	ESL-200-01	POWER CABLE	P5	2C X 2.5
37	84401-CEL	FGS FIRE & GAS PANEL – LINE A	DP-200F4	B400-FGS-001	POWER CABLE	P5	3G2.5
38	84402-CEL	FGS FIRE & GAS PANEL – LINE B	DP-200F4	B400-FGS-001	POWER CABLE	P5	3G2.5
39	84403-CEL	SYSTEM SERVER / NETWORK CABINET – LINE A	DP-200F4	B400-NET-001	POWER CABLE	P5	3G2.5
40	84404-CEL	SYSTEM SERVER / NETWORK CABINET – LINE B	DP-200F4	B400-NET-001	POWER CABLE	P5	3G2.5
41	83122-CEL	AC UPS PAS AUXILIARY	DP-200N1	UP-200F3	POWER CABLE	P4	3G2.5



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.

CABLE TYPE DETAILS

P2 – SINGLE CORE, 3.6/6 (7.2) KV, CU/EPR/CU/LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.
P3 – SINGLE CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH, PVC, UNARMOURED CABLE, FLAME RETARDANT
P4 – MULTI CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.
P5 – MULTI CORE, 0.6/1 KV, FIRE RESISTANT, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, GALVANIZED STEEL WIRE ARMOURED CABLE, FLAME RETARDANT.
P7 – MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.
P8 – MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, CU SCREEN, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.

LEGEND

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20108**

REV.:	DATE:	SIGNATURE:
1_B	22/08/24	G.Randi

ROSETTI MARINO SpA

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-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-DL-20107	ELECTRICAL CABLES ROUTING LAYOUT - TOP DECK
123A90-DDL-EL-DL-20109	ELECTRICAL CABLES ROUTING LAYOUT - BELOW LOWER DECK
123A90-DDL-EL-DG-20125	LIGHTING & SOCKET CIRCUIT DIAGRAM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	30/07/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	27/06/24	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
ELECTRICAL CABLES ROUTING LAYOUT
LOWER DECK

CONTRACT NO./TITLE	CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE 1:50
DRAWN SPS	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 30/07/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20108	SHEET 06of18	REV. 01

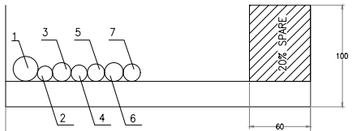
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DRAWING NO. 123A90-DDL-EL-DL-20108

REV. 01

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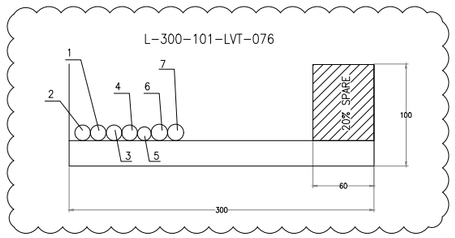
L-300-101-LVT-073



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83012-CEL	FUEL CELL AUXILIARY LOAD	SG-200N1	A-80000	POWER CABLE	P4	5G16
2	P-EJB-200N1-02-L1-01	NORMAL LIGHTING UPPER DECK	DP-200N1	EJB-200N1-02-L1-01	POWER CABLE	P4	3G4
3	P-EJB-200N1-08-L1-01	EMERGENCY LIGHTING JB	EJB-200N1-08-L1-04	EJB-200N1-08-L1-01	POWER CABLE	P5	4G4_E
4	P-EJB-200N1-08-L1-04	EMERGENCY LIGHTING JB	DP-200N1	EJB-200N1-08-L1-04	POWER CABLE	P4	4G4_E
5	P-EJB-200N1-02-L1-02	NORMAL LIGHTING JB	EJB-200N1-02-L1-01	EJB-200N1-02-L1-02	POWER CABLE	P5	3G4
6	P-EJB-200N1-08-L1-16	EMERGENCY LIGHTING JB	EJB-200N1-08-L1-04	EJB-200N1-08-L1-16	POWER CABLE	P5	4G4_E
7	P-EJB-200N1-02-L1-19	NORMAL LIGHTING JB	EJB-200N1-02-L1-01	EJB-200N1-02-L1-19	POWER CABLE	P5	3G4

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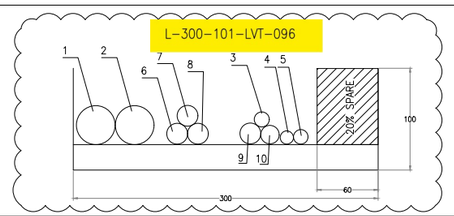
L-300-101-LVT-076



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83011-CEC	6.6KV HV SWITCHGEAR	CP-200ED1A	SG-100D1	CONTROL CABLE	P7	7C X 1.5
2	83012-CEC	6.6KV HV SWITCHGEAR	CP-200ED1A	SG-100D1	CONTROL CABLE	P7	7C X 1.5
3	83013-CEC	6.6KV HV SWITCHGEAR	CP-200ED1A	SG-100D1	CONTROL CABLE	P7	7C X 1.5
4	83014-CEC	6.6KV HV SWITCHGEAR	CP-200ED1A	SG-100D1	CONTROL CABLE	P7	7C X 1.5
5	P-ELF-200N1-03-L2-03	NORMAL LIGHTING FIXTURE	EJB-200N1-03-L2-03	ELF-200N1-03-L2-03	POWER CABLE	P4	3G2.5
6	P-EJB-200N1-09-L2-02	EMERGENCY LIGHTING JB	EJB-200N1-09-L2-04	EJB-200N1-09-L2-02	POWER CABLE	P4	4G4_E
7	P-ELS-200N1-09-L2-01	LOCAL SWITCH	EJB-200N1-09-L2-04	ELS-200N1-09-L2-01	POWER CABLE	P4	4G4_E

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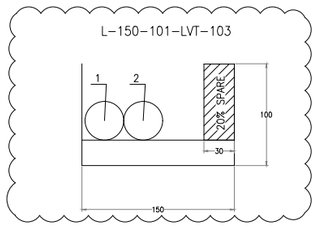
L-300-101-LVT-096



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83022-CEL	WELDING SOCKETS (LOWER DECK) JB'S	SG-200N1	JB-200E4 /JB-200E5	POWER CABLE	P4	5G50
2	83022-CEL-03	WELDING SOCKETS (LOWER DECK) JB'S	JB-200E4	JB-200E5	POWER CABLE	P4	5G50
3	P-EJB-200N1-03-L2-01	NORMAL LIGHTING LOWER DECK	DP-200N1	EJB-200N1-03-L2-01	POWER CABLE	P4	3G4
4	P-ELF-200N1-03-L2-01	NORMAL LIGHTING FIXTURE	EJB-200N1-03-L2-01	ELF-200N1-03-L2-01	POWER CABLE	P4	3G2.5
5	P-EJB-200N1-03-L2-02	NORMAL LIGHTING FIXTURE	EJB-200N1-03-L2-01	EJB-200N1-03-L2-02	POWER CABLE	P4	3G4
6	83010-CEL-L1	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
7	83010-CEL-L2	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
8	83010-CEL-L3	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
9	83010-CEL-N	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
10	83010-CEL-PE	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P6	1C x 95

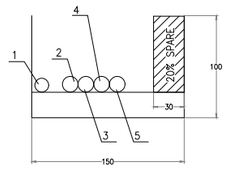
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L-150-101-LVT-103



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83021-CEL	WELDING SOCKET (TOP DECK)	SG-200N1	JB-200E6 /JB-200E7	POWER CABLE	P4	5G50
2	83021-CEL-03	WELDING SOCKET (TOP DECK)	JB-200E6	JB-200E7	POWER CABLE	P4	5G50

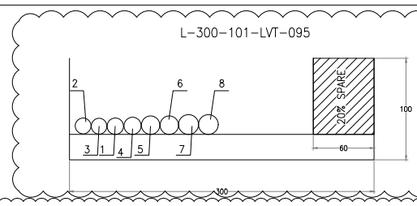
L-150-101-LVT-092



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83116-CEL	AUXILIARY TRAFO 1.6MVA	DP-200N1	CP-200E1	POWER CABLE	P4	3G2.5
2	83001-CEC	6.6KV HV SWITCHGEAR	CP-200DE1A	SG-100D1	CONTROL CABLE	P7	7C X 1.5
3	83002-CEC	6.6KV HV SWITCHGEAR	CP-200DE1A	SG-100D1	CONTROL CABLE	P7	7C X 1.5
4	83003-CEC	6.6KV HV SWITCHGEAR	CP-200DE1A	SG-100D1	CONTROL CABLE	P7	7C X 1.5
5	83004-CEC	6.6KV HV SWITCHGEAR	CP-200DE1A	SG-100D1	CONTROL CABLE	P7	7C X 1.5

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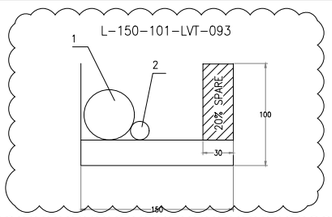
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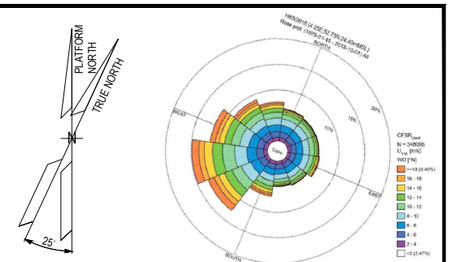
SECTION POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	P-EJB-200N1-08-L1-01	EMERGENCY LIGHTING UPPER DECK – CIRCUIT NO. 1	DP-200N1	EJB-200N1-08-L1-01	POWER CABLE	P4	4G4_E
2	72203-CEL	TOP OBSTRUCTION LIGHTS JUNCTION BOX	UP-200F2	EJB-200F2-01	POWER CABLE	P5	3G2.5
3	72211-CEL	INTERMEDIATE OBSTRUCTION LIGHTS JUNCTION BOX	NC-200F2	EJB-200F2-02	POWER CABLE	P5	3G2.5
4	72213-CEL	INTERMEDIATE OBSTRUCTION RED LIGHTS	EJB-200F2-02	EOL-200-04	POWER CABLE	P5	3G2.5
5	P-EJB-200N1-08-L1-03	EMERGENCY LIGHTING JB	EJB-200N1-08-L1-02	EJB-200N1-08-L1-03	POWER CABLE	P5	4G4_E
6	P-EJB-200N1-08-L1-01	EMERGENCY LIGHTING JB	EJB-200N1-08-L1-04	EJB-200N1-08-L1-01	POWER CABLE	P5	4G4_E
7	P-EJB-200N1-02-L1-02	NORMAL LIGHTING JB	EJB-200N1-02-L1-01	EJB-200N1-02-L1-02	POWER CABLE	P5	3G4
8	P-EJB-200N1-02-L1-03	NORMAL LIGHTING JB	EJB-200N1-02-L1-02	EJB-200N1-02-L1-03	POWER CABLE	P5	3G4

01

L-150-101-LVT-093



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83016-CEL	WATER PACKAGE	SG-200N1	JB-500E8	POWER CABLE	P4	5G70
2	84313-CEL	UCP – WATER PACKAGE	DP-200F3	JB-500E8	POWER CABLE	P5	3G2.5



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.

CABLE TYPE DETAILS

P2 – SINGLE CORE, 3.6/6 (7.2) KV, CU/EPR/CU/LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.
P3 – SINGLE CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH, PVC, UNARMOURED CABLE, FLAME RETARDANT
P4 – MULTI CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.
P5 – MULTI CORE, 0.6/1 KV, FIRE RESISTANT, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, GALVANIZED STEEL WIRE ARMOURED CABLE, FLAME RETARDANT.
P7 – MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.
P8 – MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, CU SCREEN, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.

LEGEND

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20108**

REV.:	DATE:	SIGNATURE:
1_B	22/08/24	G.Randi

ROSETTI MARINO SpA

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-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-DL-20107	ELECTRICAL CABLES ROUTING LAYOUT - TOP DECK
123A90-DDL-EL-DL-20109	ELECTRICAL CABLES ROUTING LAYOUT - BELOW LOWER DECK
123A90-DDL-EL-DG-20125	LIGHTING & SOCKET CIRCUIT DIAGRAM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	30/07/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	27/06/24	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

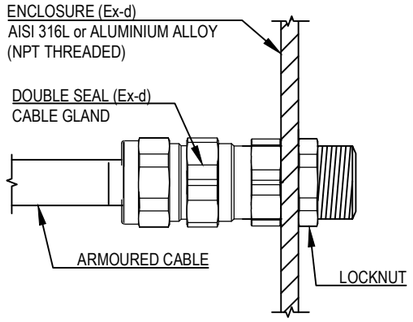
TITLE :
BASE LOAD POWER HUB (BLPH)
ELECTRICAL CABLES ROUTING LAYOUT
LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:50
DRAWN SPS	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 30/07/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20108	SHEET 12of18	REV. 01

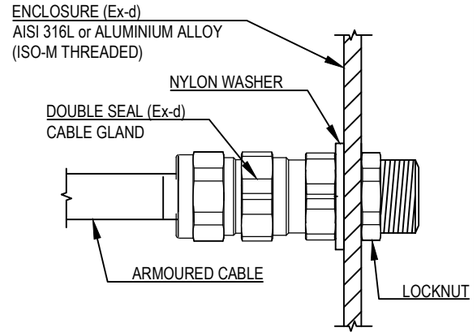
File Name : 123A90-DDL-EL-DL-20108

C01

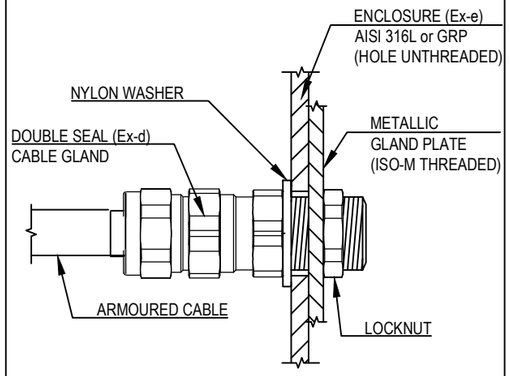
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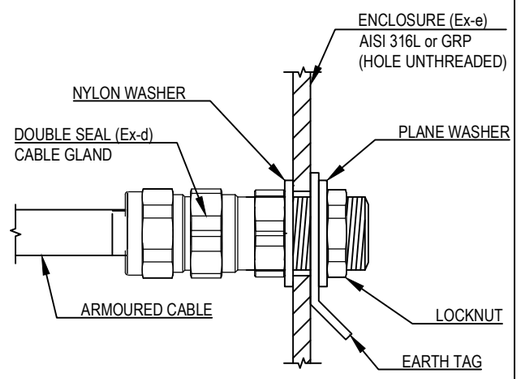
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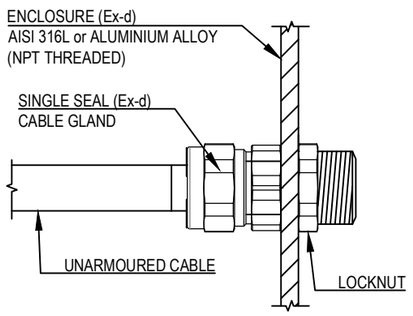
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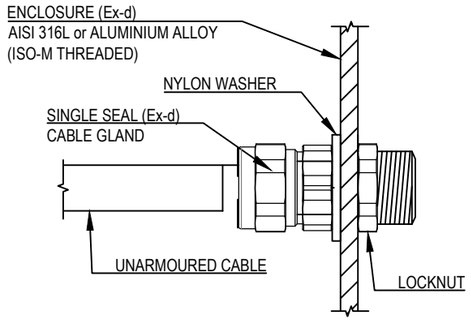
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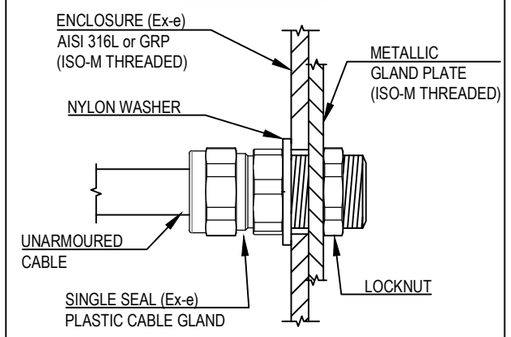
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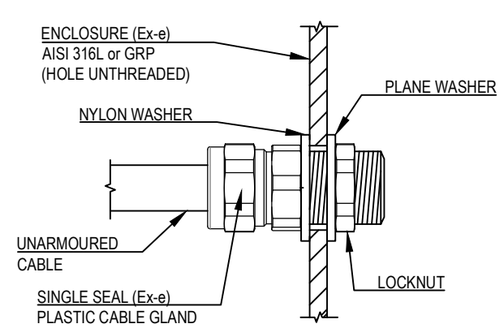
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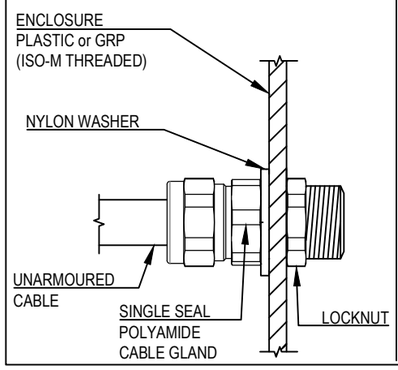
DETAIL "7"



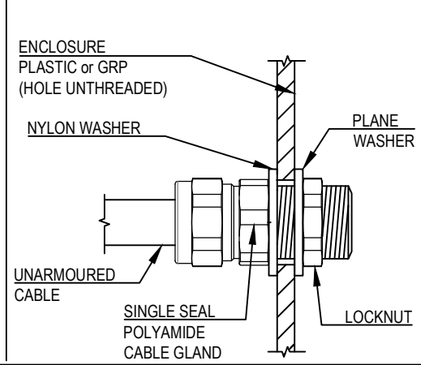
DETAIL "8"

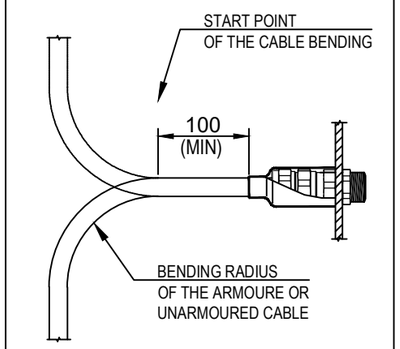


DETAIL "9"



DETAIL "10"





NOTES:

1) IF A REDUCTION OR ADAPTAR ARE NEEDED, ONLY ONE SHALL BE ALLOWED.
2) FOR GRP JUNCTION BOXES AND EQUIPMENTS CONNECTED BY ARMOURED CABLE, CABLE GLAND SHALL BE NICKEL PLATED BRASS TYPE AND GRP JUNCTION BOX AND EQUIPMENTS EQUIPPED WITH NICKEL PLATED CABLE GLAND PLATE. IF THE CABLE IS NON-ARMOURED, CABLE GLAND MAY BE POLYAMIDE TYPE.
3) SINGLE CORE CABLE SHALL HAVE AN EQUIPMENT ENTRY VIA NON MAGNETIC GLAND PLATE AND CONNECTING BY HDG STEEL CABLE GLAND.
4) OUTDOOR CABLE ENTRIES SHALL PREFERABLY BE FROM BOTTOM ENTRY, SIDE ENTRY SHALL BE SUBMITTED TO THE COMPANY APPROVAL. CABLE ENTRY FROM TOP IS FORBIDDEN.

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

REV.:	DATE:	SIGNATURE:
2_A	28/08/24	G.Randi

ROSETTI MARINO SpA

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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
POWER TYPICAL DETAIL CABLE GLAND INSTALLATION FOR E&I CABLES

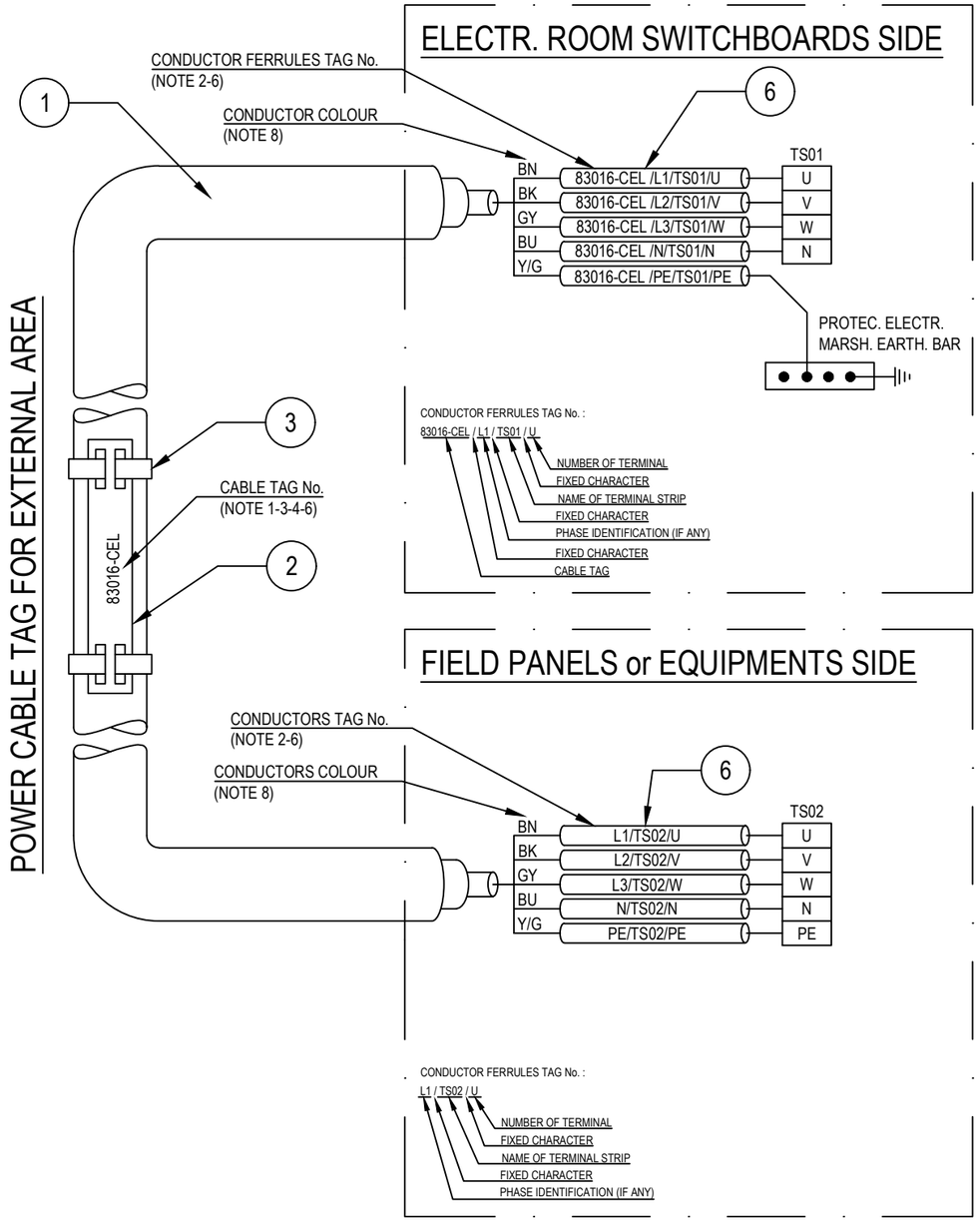
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 006 | REV. 02

F.to UNI A3: 420mmx297mm

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

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.

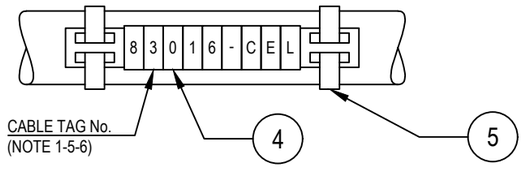
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

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.: 2_A | DATE: 28/08/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

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)

CROSSWIND

ROSETTI MARINO

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

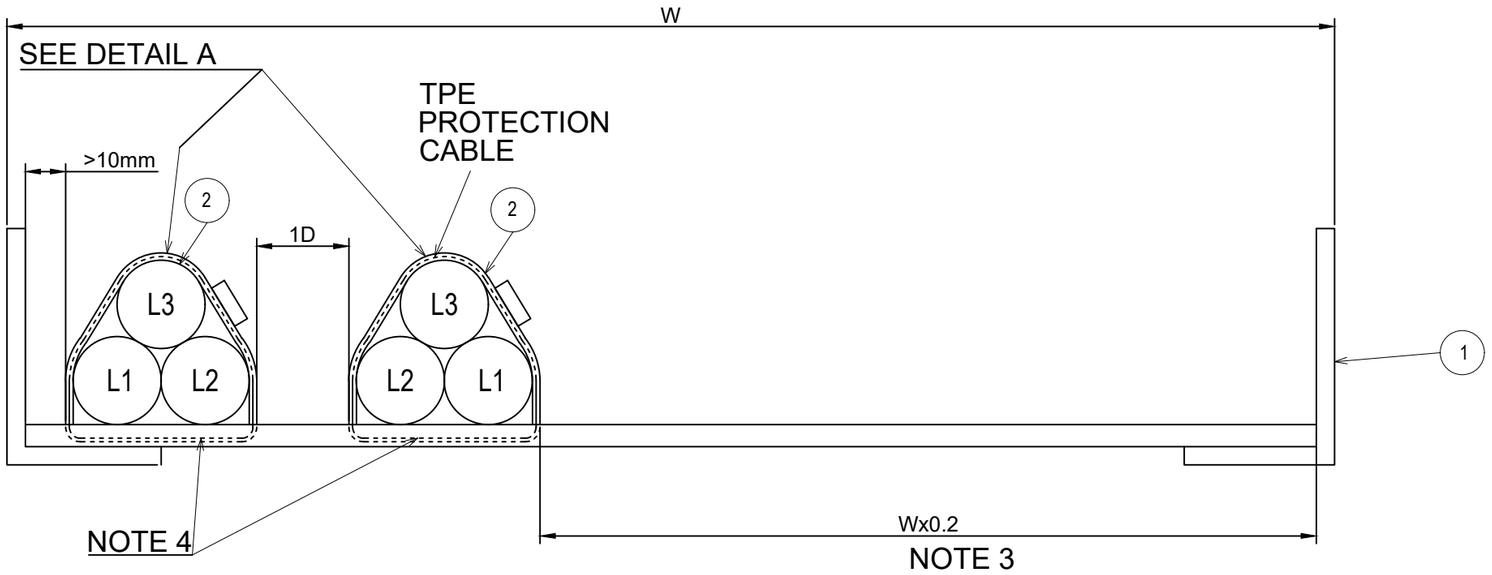
A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

F.to UNI A3: 420mmx297mm

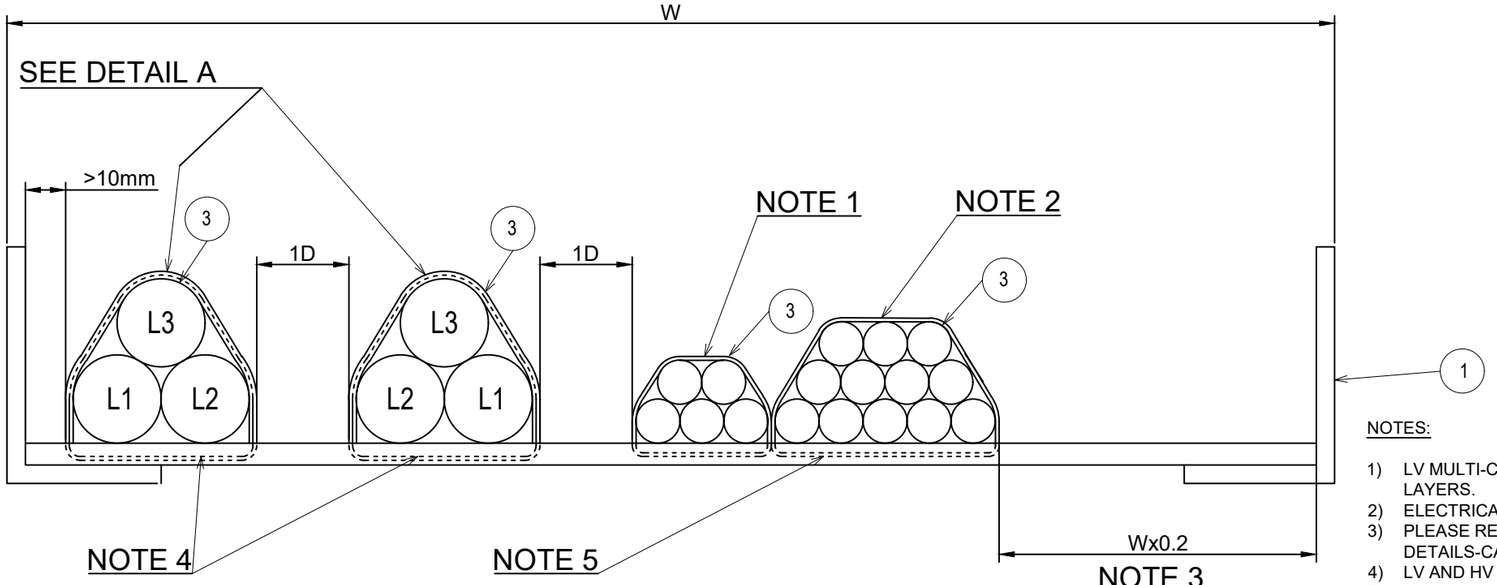
File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

C-05A

HV CABLETRAY

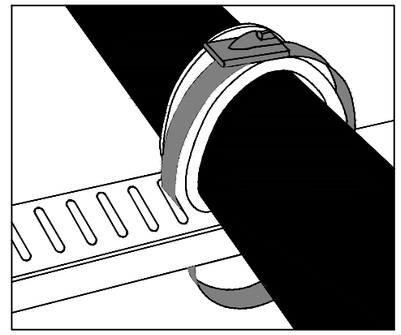


LV CABLETRAY



MATERIALS		
POS.		DESCRIPTION
1		CABLE LADDER AISI 316L
2		CABLE CLEATS STAINLESS STEEL FOR HV CABLES WITH TPE CABLE PROTECTION
3		UV RESISTANT PVC CABLE TIES
4		CABLE CLEATS STAINLESS STEEL FOR LV CABLES WITH TPE CABLE PROTECTION

DETAIL CABLE CLEATS



NOTES:

1) LV MULTI-CORE POWER CABLE (LESS THAN 120SQMM) CAN BE INSTALLED ON TWO LAYERS.
2) ELECTRICAL CONTROL CABLES CAN BE INSTALLED ON THREE LAYERS.
3) PLEASE REFER 123A90-DDL-EL-DD-20093-ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM SHEET-003 FOR CABLE SEGREGATION DETAIL.
4) LV AND HV SINGLE CORE POWER CABLE INSTALLED IN TREFOIL FORMATION.
5) FOR CABLE TIES INSTALLATION SEE DETAIL "C-06" ON SH.011.
6) CABLES BETWEEN TR-200DE1 TRASFORMER AND SG-200N1 POWER CENTER HAVE TO BE PROVIDE WITH CABLE CLEATES WITH STAINLESS STEEL TYPE

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

REV.:	DATE:	SIGNATURE:
2_A	28/08/24	G.Randi

ROSETTI MARINO SpA

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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES ARRANGEMENT IN CABLE LADDER/TRAY FOR ELECTRICAL 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 009 | REV. 02

F.to UNI A3: 420mmx297mm

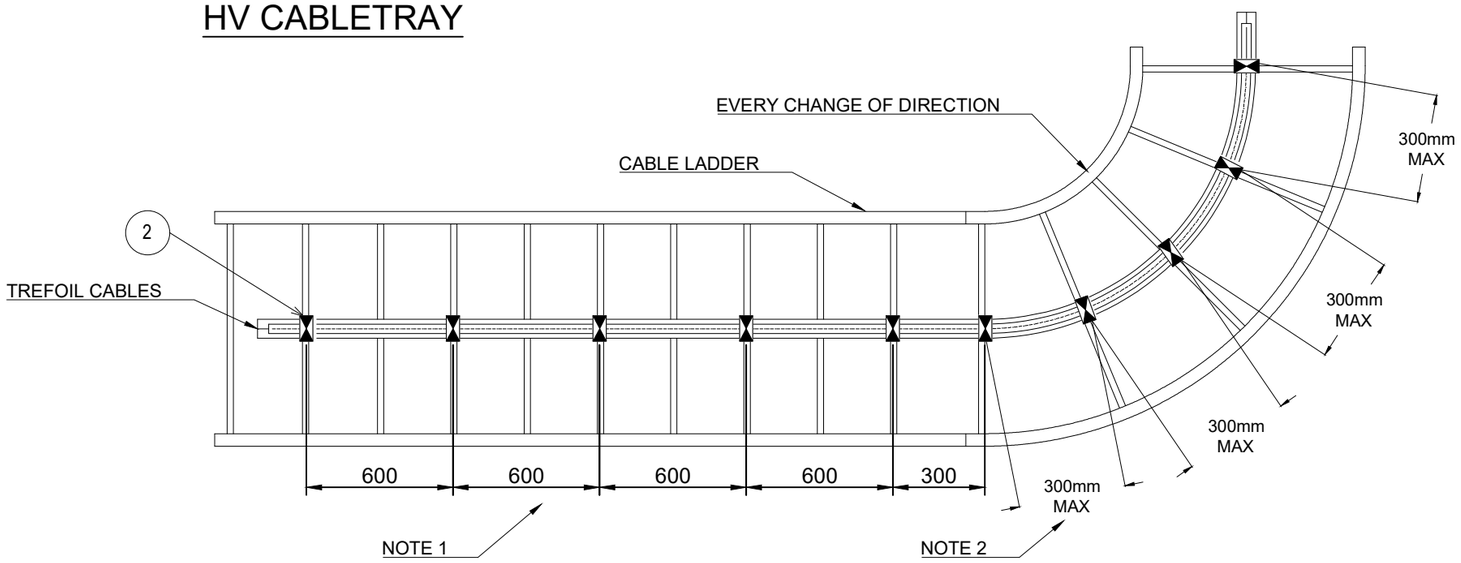
File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

C06

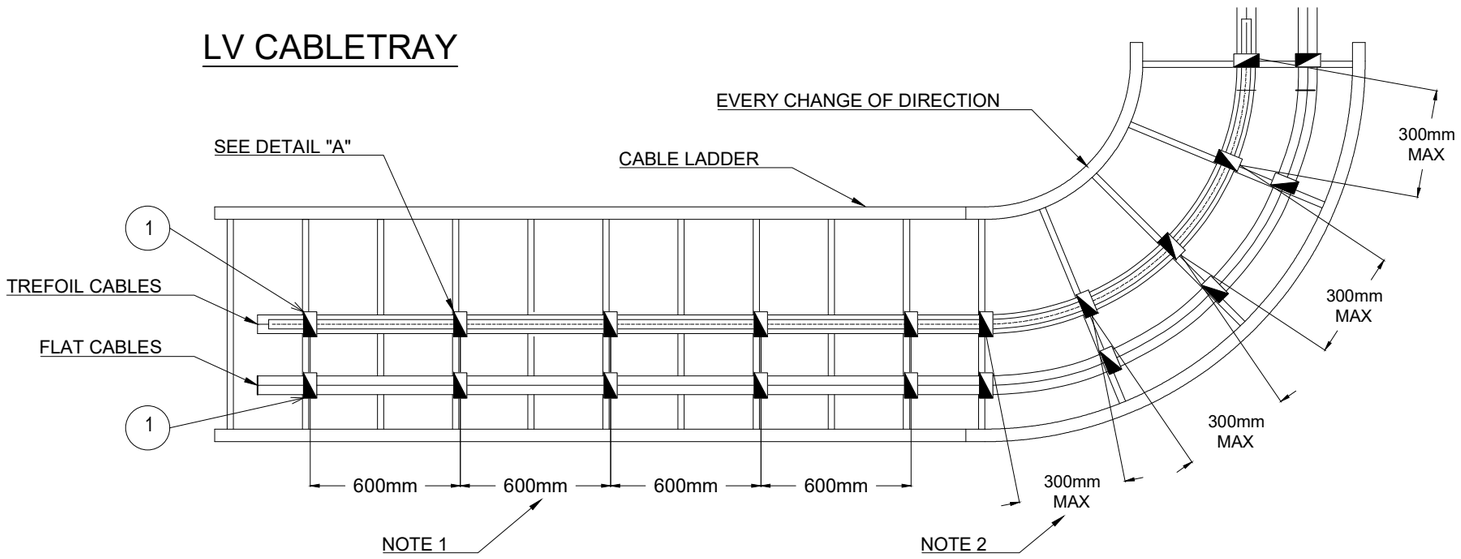
MAXIMUM CABLE TIES/CLEATS SPACING INSTALLATION DETAILS

MATERIALS		
POS.		DESCRIPTION
1		UV RESISTANT PVC CABLE TIES
2		STAINLESS STEEL DOUBLE WRAPPED CABLE CLEATS COMPLETE WITH TPE CUSHION SLEEVING

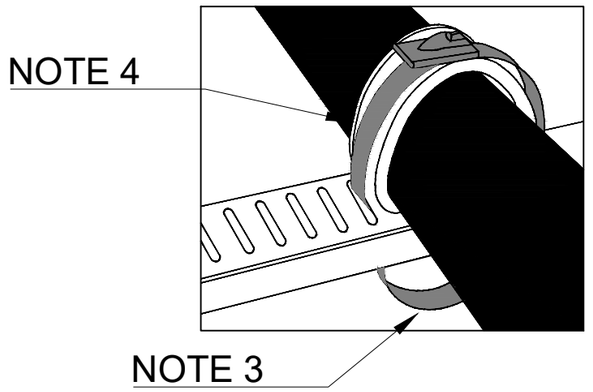
HV CABLETRAY



LV CABLETRAY



DETAIL "A" CABLE CLEATS



NOTES:

1) CABLES TIES SHALL BE HELD EVERY 600mm (CLEATS EVERY 600mm) ON HORIZONTAL RUNS.
2) CABLES SHALL BE HELD EVERY 300mm ON HORIZONTAL/VERTICAL ELBOW AND ON VERTICAL RUNS.
3) CABLE CLEATS WRAPPED TWO TIME AROUND THE CABLE RUNS.
4) TO PROTECT THE CABLE, INSTALL THE CUSHION SLEEVE BETWEEN THE CLAMP AND THE CABLE.

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20092
REV.: 2_A | DATE: 28/08/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
MAXI. CABLE TIES SPACING TYPICAL INSTALLATION DETAILS CABLE FASTENING IN TRAYS/LADDER

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

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 010 | REV. 02

F.to UNI A3: 420mmx297mm

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

ITEM	Tag	83010-CEL-L2-TEMP	: JB-200E2 / SG-200N1			Dwg	
	S/Sys	83-99	: 400 V Temporary Yard Supply			Module	
TASK	code	C10003039		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type: Flame Retardant | Cores/Size mm²: 1Cx95 | Color: grey

From: JB_200E2_TEMP | To: SG-200N1

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).	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"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	83010-CEL-L2-TEMP	: JB-200E2 / SG-200N1			Dwg	
	S/Sys	83-99	: 400 V Temporary Yard Supply			Module	
TASK	code	C10003039		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	NA	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		NA	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>88,9	
11		PH2 / PH1-PH3-A-E	NA	
12		PH3 / PH1-PH2-A-E	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		NA	

TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	KEW3125A/Serial N°W8330207	TYPE / SERIAL N° :	Fluke/Serial:AW1/8(17140769)
Calibration certificate N° and date:	7722/24date10/07/24	Calibration certificate N° and date:	7715/24date:10/07/24

Comments:

	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS Impianti	RM (Rosetti Marino)	
Name	Carmelo Bongiovanni	Giovanni Tangianu	
Date	2024-09-13	2024-09-20	
Signature	PROVERLIS Digitaly signed by Carmelo Bongiovanni 2024-09-13T07:15:44.942Z	Firma Digitale Sicura Giovanni Tangianu 2024-09-20T12:58:02+0200	

ROSETTI MARINO | CROSSWIND

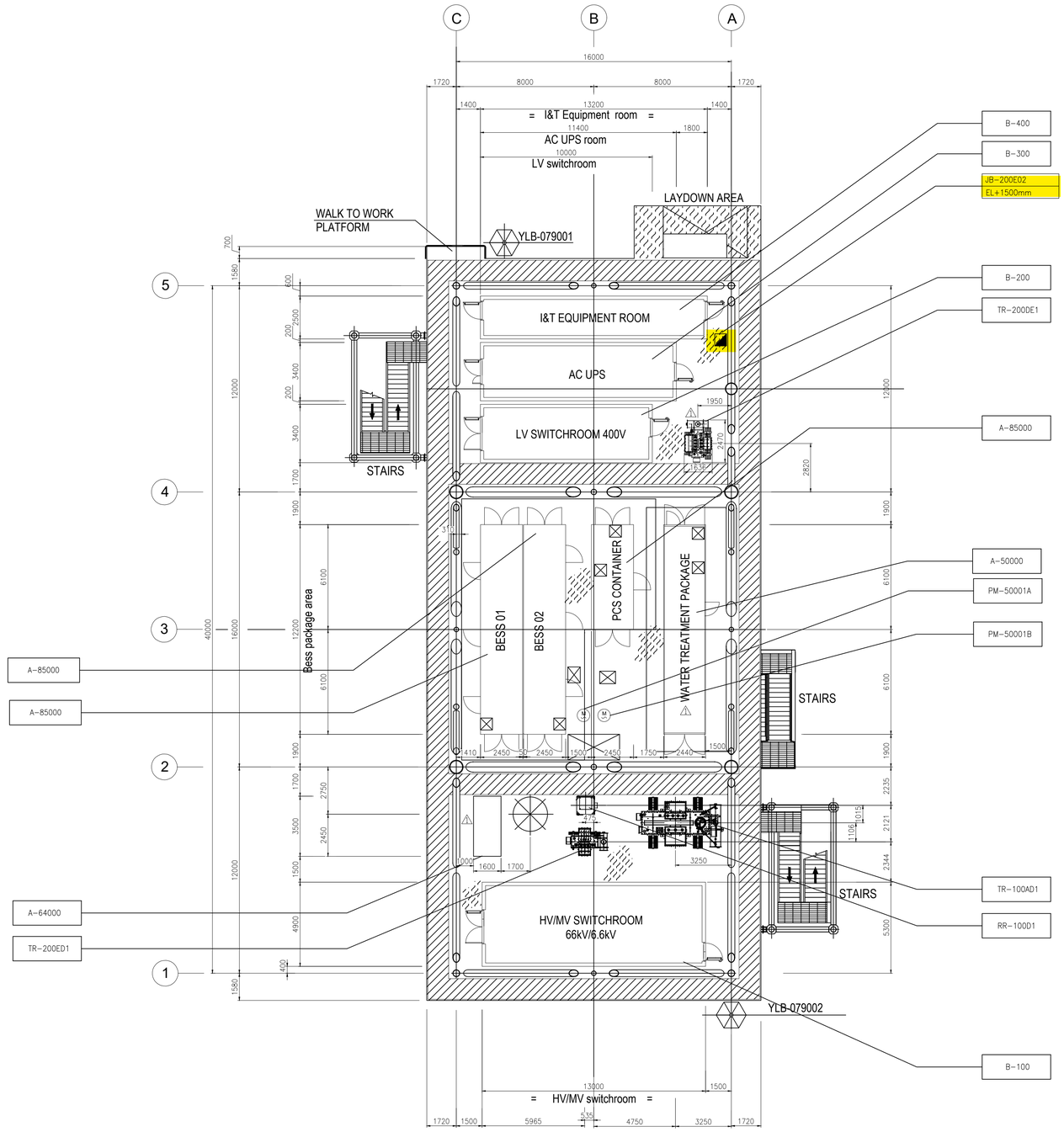
Document Title:	ELECTRICAL POWER & CONTROL CABLE SCHEDULE	Rev.:	00	Rev. Date:	19/03/2024
Project ID:	CW-I-WP4-2023-05	Issued by:	NLK	Sheet:	5 of 9
Document n°:	123A90-DDL-EL-LIS-20148	Reviewed by:	FMA/AMA	System:	
		Approved by:	FPA/DLO	Description:	
Project:	HOLLANDSE KUST NOORD WIND PARK Project	Loc./Plat./Mod.:		Status:	
Area:	BLPH	Doc. Type:		Class:	

Remarks:

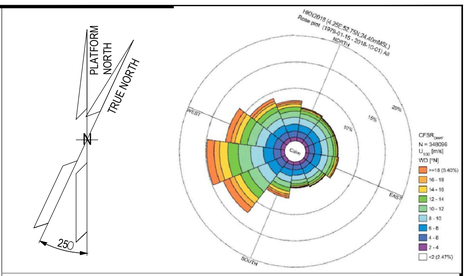
POSITION	REVISION	CABLE TYPE: TAG NUMBER	CABLE TYPE [2]	FORMATION mm²	RATED VOLTAGE (V)	Estimated LENGTH (m)	LENGTH (m) [4]	SPARE (%)	TOTAL LENGTH (m) [3]	DRUM NUMBER (n)	SYSTEM	CABLE ROUTE: FROM: ITEM Tag	DESCRIPTION	Panel/JB/etc.	Cable Entry (Top or Bottom)	Cable Peeling (m)	CABLE GLAND: TYPE	CABLE GLAND: SIZE	MCT: Module	MCT: Tag	CABLE ROUTE: TO: ITEM Tag	DESCRIPTION	Panel/JB/etc.	Cable Entry (Top or Bottom)	Cable Peeling (m)	CABLE GLAND: TYPE	CABLE GLAND: SIZE	MCT: Module	MCT: Tag	PHASE/ N /PE	CONDUIT: SIZE	CONDUIT: LENGTH (m)	ROUTING SECTION MARKER [1]	WIRING & TERMINATION DRAWING	NOTES
1	0	81001-CEH-L1	P1	1C X 300	66000	40	Note-4	10	47	Note-10	Power	JB-100A01	IAC Cable Extension - Interface JB T-Connector	XB2 (Z2)	Bottom	1,5	NA	NA	Hold		HNA6-AFA70	66kV GIS	GZ92	Side	1,5	NA	NA	Hold		L1	NA	NA		NOTE	Note-12	
2	0	81001-CEH-L2	P1	1C X 300	66000	40	Note-4	10	47	Note-10	Power	JB-100A01	IAC Cable Extension - Interface JB T-Connector	XB2 (Z2)	Bottom	1,5	NA	NA	Hold		HNA6-AFA70	66kV GIS	GZ92	Side	1,5	NA	NA	Hold		L2	NA	NA		NOTE	Note-12	
3	0	81001-CEH-L3	P1	1C X 300	66000	40	Note-4	10	47	Note-10	Power	JB-100A01	IAC Cable Extension - Interface JB T-Connector	XB2 (Z2)	Bottom	1,5	NA	NA	Hold		HNA6-AFA70	66kV GIS	GZ92	Side	1,5	NA	NA	Hold		L3	NA	NA		NOTE	Note-12	
4	0	81002-CEH-L1	P1	1C X 300	66000	25	Note-4	10	31	Note-10	Power	HNA6-AFA70	66kV GIS	GZ91	Side	1,5	NA	NA	Hold		TR-200AD1	66/6.6 kV, 7MVA Transformer	HV Cable Box	Side	1,5	NA	NA	Hold		L1	NA	NA		NOTE	Note-12	
5	0	81002-CEH-L2	P1	1C X 300	66000	25	Note-4	10	31	Note-10	Power	HNA6-AFA70	66kV GIS	GZ91	Side	1,5	NA	NA	Hold		TR-200AD1	66/6.6 kV, 7MVA Transformer	HV Cable Box	Side	1,5	NA	NA	Hold		L2	NA	NA		NOTE	Note-12	
6	0	81002-CEH-L3	P1	1C X 300	66000	25	Note-4	10	31	Note-10	Power	HNA6-AFA70	66kV GIS	GZ91	Side	1,5	NA	NA	Hold		TR-200AD1	66/6.6 kV, 7MVA Transformer	HV Cable Box	Side	1,5	NA	NA	Hold		L3	NA	NA		NOTE	Note-12	
7	0	82001-CEM-1-L1	P2	1C X 120	6600	25	Note-4	10	31	Note-10	Power	TR-100AD1	66kV, 7MVA Transformer	Secondary Cable Box	Side	1,5	NA	NA	Hold		SG-100D1	6.6kV HV Switchgear	A2	Top	1,5	NA	NA	Hold		L1	NA	NA		NOTE	Note-12	
8	0	82001-CEM-2-L1	P2	1C X 120	6600	25	Note-4	10	31	Note-10	Power	TR-100AD1	66kV, 7MVA Transformer	Secondary Cable Box	Side	1,5	NA	NA	Hold		SG-100D1	6.6kV HV Switchgear	A2	Top	1,5	NA	NA	Hold		L1	NA	NA		NOTE	Note-12	
9	0	82001-CEM-1-L2	P2	1C X 120	6600	25	Note-4	10	31	Note-10	Power	TR-100AD1	66kV, 7MVA Transformer	Secondary Cable Box	Side	1,5	NA	NA	Hold		SG-100D1	6.6kV HV Switchgear	A2	Top	1,5	NA	NA	Hold		L2	NA	NA		NOTE	Note-12	
10	0	82001-CEM-2-L2	P2	1C X 120	6600	25	Note-4	10	31	Note-10	Power	TR-100AD1	66kV, 7MVA Transformer	Secondary Cable Box	Side	1,5	NA	NA	Hold		SG-100D1	6.6kV HV Switchgear	A2	Top	1,5	NA	NA	Hold		L2	NA	NA		NOTE	Note-12	
11	0	82001-CEM-1-L3	P2	1C X 120	6600	25	Note-4	10	31	Note-10	Power	TR-100AD1	66kV, 7MVA Transformer	Secondary Cable Box	Side	1,5	NA	NA	Hold		SG-100D1	6.6kV HV Switchgear	A2	Top	1,5	NA	NA	Hold		L3	NA	NA		NOTE	Note-12	
12	0	82001-CEM-2-L3	P2	1C X 120	6600	25	Note-4	10	31	Note-10	Power	TR-100AD1	66kV, 7MVA Transformer	Secondary Cable Box	Side	1,5	NA	NA	Hold		SG-100D1	6.6kV HV Switchgear	A2	Top	1,5	NA	NA	Hold		L3	NA	NA		NOTE	Note-12	
13	0	82001-CEM-1-N	P2	1C X 120	6600	10	Note-4	10	14	Note-10	Power	TR-100AD1	66kV, 7MVA Transformer	Secondary Cable Box	Side	1,5	NA	NA	Hold		RR-100D1	NER	Cable Box	Bottom	1,5	NA	NA	Hold		N	NA	NA		NOTE	Note-12	
14	0	82001-CEM-2-N	P2	1C X 120	6600	10	Note-4	10	14	Note-10	Power	RR-100D1	NER	Secondary Cable Box	Side	1,5	NA	NA	Hold		RR-100D1	NER Earth Point	Earth Boss	NA	1,5	NA	NA	Hold		N	NA	NA		NOTE	Note-12	
15	0	82002-CEM-1-L1	P2	1C X 70	6600	44	Note-4	10	52	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A6	Top	1,5	NA	NA	Hold		TR-200DE1	6.6/0.4 KV, 1.6MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L1	NA	NA		NOTE	Note-12	
16	0	82002-CEM-1-L2	P2	1C X 70	6600	44	Note-4	10	52	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A6	Top	1,5	NA	NA	Hold		TR-200DE1	6.6/0.4 KV, 1.6MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L2	NA	NA		NOTE	Note-12	
17	0	82002-CEM-1-L3	P2	1C X 70	6600	44	Note-4	10	52	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A6	Top	1,5	NA	NA	Hold		TR-200DE1	6.6/0.4 KV, 1.6MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L3	NA	NA		NOTE	Note-12	
18	0	82003-CEM-1-L1	P2	1C X 70	6600	78	Note-4	10	89	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A5	Top	1,5	NA	NA	Hold		TA30	6.6/0.4 KV, 1.25MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L1	NA	NA		NOTE	Note-12	
19	0	82003-CEM-1-L2	P2	1C X 70	6600	78	Note-4	10	89	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A5	Top	1,5	NA	NA	Hold		TA30	6.6/0.4 KV, 1.25MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L2	NA	NA		NOTE	Note-12	
20	0	82003-CEM-1-L3	P2	1C X 70	6600	78	Note-4	10	89	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A5	Top	1,5	NA	NA	Hold		TA30	6.6/0.4 KV, 1.25MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L3	NA	NA		NOTE	Note-12	
21	0	82004-CEM-1-L1	P2	1C X 120	6600	45	Note-4	10	53	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A7	Top	1,5	NA	NA	Hold		T4	6.6/0.4/0.4 KV, 3.15MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L1	NA	NA		NOTE	Note-12	
22	0	82004-CEM-1-L2	P2	1C X 120	6600	45	Note-4	10	53	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A7	Top	1,5	NA	NA	Hold		T4	6.6/0.4/0.4 KV, 3.15MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L2	NA	NA		NOTE	Note-12	
23	0	82004-CEM-1-L3	P2	1C X 120	6600	45	Note-4	10	53	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A7	Top	1,5	NA	NA	Hold		T4	6.6/0.4/0.4 KV, 3.15MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L3	NA	NA		NOTE	Note-12	
24	0	82005-CEM-1-L1	P2	1C X 70	6600	55	Note-4	10	64	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A4	Top	1,5	NA	NA	Hold		18T1	6.6/0.62 KV, 1.25MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L1	NA	NA		NOTE	Note-12	
25	0	82005-CEM-1-L2	P2	1C X 70	6600	55	Note-4	10	64	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A4	Top	1,5	NA	NA	Hold		18T1	6.6/0.62 KV, 1.25MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L2	NA	NA		NOTE	Note-12	
26	0	82005-CEM-1-L3	P2	1C X 70	6600	55	Note-4	10	64	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A4	Top	1,5	NA	NA	Hold		18T1	6.6/0.62 KV, 1.25MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L3	NA	NA		NOTE	Note-12	
27	0	82006-CEM-1-L1	P2	1C X 70	6600	25	Note-4	10	31	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A1	Top	1,5	NA	NA	Hold		TR-200ED1	6.6/0.8 KV, 0.5MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L1	NA	NA		NOTE	Note-12	
28	0	82006-CEM-1-L2	P2	1C X 70	6600	25	Note-4	10	31	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A1	Top	1,5	NA	NA	Hold		TR-200ED1	6.6/0.8 KV, 0.5MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L2	NA	NA		NOTE	Note-12	
29	0	82006-CEM-1-L3	P2	1C X 70	6600	25	Note-4	10	31	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A1	Top	1,5	NA	NA	Hold		TR-200ED1	6.6/0.8 KV, 0.5MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L3	NA	NA		NOTE	Note-12	
30	0	83001-CEL-1-L1	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L1	NA	NA		NOTE	Note-12	
31	0	83001-CEL-2-L1	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L1	NA	NA		NOTE	Note-12	
32	0	83001-CEL-3-L1	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L1	NA	NA		NOTE	Note-12	
33	0	83001-CEL-4-L1	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L1	NA	NA		NOTE	Note-12	
34	0	83001-CEL-5-L1	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L1	NA	NA		NOTE	Note-12	
35	0	83001-CEL-1-L2	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L2	NA	NA		NOTE	Note-12	
36	0	83001-CEL-2-L2	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L2	NA	NA		NOTE	Note-12	
37	0	83001-CEL-3-L2	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L2	NA	NA		NOTE	Note-12	
38	0	83001-CEL-4-L2	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L2	NA	NA		NOTE	Note-12	
39	0	83001-CEL-5-L2	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L2	NA	NA		NOTE	Note-12	
40	0	83001-CEL-1-L3	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L3	NA	NA		NOTE	Note-12	
41	0	83001-CEL-2-L3	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L3	NA	NA		NOTE	Note-12	
42	0	83001-CEL-3-L3	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L3	NA	NA		NOTE	Note-12	
43	0	83001-CEL-4-L3	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L3	NA	NA		NOTE	Note-12	
44	0	83001-CEL-5-L3	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L3	NA	NA		NOTE	Note-12	
45	0	83001-CEL-1-N	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		N	NA	NA		NOTE	Note-12	
46	0	83001-CEL-2-N	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		N	NA	NA		NOTE	Note-12	
47	0	83001-CEL-3-N	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		N	NA	NA		NOTE	Note-12	
48	0	83001-CEL-E	P6	1C X 150	400	10	Note-4	10	11	Note-10	PE	TR-200DE1	6.6/0.4 KV, 1.6MVA Transformer-Neutral	LV side Cable Box	Side	0	CW	M32	Hold		TR-200DE1	Earth Point	Earth Boss	NA	0	NA	NA	Hold		PE	NA	NA		NOTE	Note-12	
49	0	86001-CEL-L1	P3	1C X 300	800	50	Note-4	10	58	Note-10	Power	JB-200E01	Solar PV Power Cable JB	JB	Bottom	1,5	CW	M40	Hold		SG-200D2	Breaker	Cable Compartment	Top	1,5	BW	M40	Hold		L1	NA	NA		NOTE	Note-12	Note-13
50	0	86001-CEL-L2	P3	1C X 300	800	50	Note-4	10	58	Note-10	Power	JB-200E01	Solar PV Power Cable JB	JB	Bottom	1,5	CW	M40	Hold		SG-200D2	Breaker	Cable Compartment	Top	1,5	BW	M40	Hold		L2	NA	NA		NOTE	Note-12	Note-13
51	0	86001-CEL-L3	P3	1C X 300	800	50	Note-4	10	58	Note-10	Power	JB-200E01	Solar PV Power Cable JB	JB	Bottom	1,5	CW	M40	Hold		SG-200D2	Breaker	Cable Compartment	Top	1,5	BW	M40	Hold		L3	NA	NA		NOTE	Note-12	Note-13
52	0	86002-CEL-L1	P3	1C X 300	800	50	Note-4	10	58	Note-10	Power	SG-200D2	Solar Breaker	Cable Compartment	Bottom	1,5	CW	M40	Hold		TR-200ED1	6.6/0.8 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		L1	NA	NA		NOTE	Note-12	Note-13
53	0	86002-CEL-L2	P3	1C X 300	800	50	Note-4	10	58	Note-10	Power	SG-200D2	Solar Breaker	Cable Compartment	Bottom	1,5	CW	M40	Hold		TR-200ED1	6.6/0.8 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		L2	NA	NA		NOTE	Note-12	Note-13
54	0	86002-CEL-L3	P3	1C X 300	800	50	Note-4	10	58	Note-10	Power	SG-200D2	Solar Breaker	Cable Compartment	Bottom	1,5	CW	M40	Hold		TR-200ED1	6.6/0.8 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		L3	NA	NA		NOTE	Note-12	Note-13
55	0	83010-CEL-L1	P3	1C X 95	400	25	Note-4	10	31	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M25	Hold		JB-200E1	Temporary Generator / Mobile Battery Pack	JB	Bottom	1,5	CW	M25	Hold		L1	NA	NA		NOTE	Note-12	
56	3	83010-CEL-L2	P3	1C X 95	400	25	Note-4	10	31	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M25	Hold		JB-200E1	Temporary Generator / Mobile Battery Pack	JB	Bottom	1,5	CW	M25	Hold		L2	NA	NA		NOTE	Note-12	
57	0	83010-CEL-L3	P3	1C X 95	400	25	Note-4	10	31	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M25	Hold		JB-200E1	Temporary Generator / Mobile Battery Pack	JB	Bottom	1,5	CW	M25	Hold		L3	NA	NA		NOTE	Note-12	
58	0	83010-CEL-N	P3	1C X 95	400	25	Note-4	10	31	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M25	Hold		JB-200E1	Temporary Generator / Mobile Battery Pack	JB	Bottom	1,5	CW	M25	Hold		N	NA	NA		NOTE	Note-12	
59	0	83010-CEL-PE	P6	1C X 95	400	25	Note-4	10	31	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M25	Hold		JB-200E1	Temporary Generator / Mobile Battery Pack	JB	Bottom	1,5	CW	M25	Hold		PE	NA	NA		NOTE	Note-12	
60	0	83011-CEL	P4	4C X 10	400	40	Note-4	10	47	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M25	Hold		A-85000	BESS PCS Cabinet	Cabinet	Side	1,5	BW	M25	Hold		L1,L2,L3,N	NA	NA		NOTE	Note-12	Note-15
61	0	83012-CEL	P4	5G16	400	40	Note-4	10	47	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M32	Hold		A-80000	Fuel Cell Auxiliary Load	Local Panel	Side	1,5	BW	M32	Hold		L1,L2,L3,N,PE	NA	NA		NOTE	Note-12	
62	0	83013-CEL-1-L1	P3	1C X 300	400	75	Note-4	10	86	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		A-20000	Electrolyser Auxiliary load	Local Panel	Side	1,5	BW	M40	Hold		L1	NA	NA		NOTE	Note-12	
63	0	83013-CEL-2-L1	P3	1C X 300	400	75	Note-4	10	86	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		A-20000	Electrolyser Auxiliary load	Local Panel	Side	1,5	BW	M40	Hold		L1	NA	NA		NOTE	Note-12	
64	0	83013-CEL-1-L2	P3	1C X 300	400	75	Note-4	10	86	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		A-20000	Electrolyser Auxiliary load	Local Panel	Side	1,5	BW	M40	Hold		L2	NA	NA		NOTE	Note-12	
65	0	83013-CEL-2-L2	P3	1C X 300	400	75	Note-4	10	86	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		A-20000	Electrolyser Auxiliary load	Local Panel	Side	1,5	BW	M40	Hold		L2	NA	NA		NOTE	Note-12	
66	0	83013-CEL-1-L3	P3	1C X 300	400	75	Note-4	10	86	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		A-20000	Electrolyser Auxiliary load	Local Panel	Side	1,5	BW	M40	Hold		L3	NA	NA		NOTE	Note-12	
67	0	83013-CEL-2-L3	P3	1C X 300	400	75	Note-4	10	86	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		A-20000	Electrolyser Auxiliary load	Local Panel	Side	1,5	BW	M40	Hold		L3	NA	NA		NOTE	Note-12	
68	0	83013-CEL-2-N	P3	1C X 300	400	75	Note-4	10	86	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		A-20000	Electrolyser Auxiliary load	Local Panel	Side	1,5	BW	M40	Hold		N	NA	NA		NOTE	Note-12	
69	0	83013-CEL-2-E	P6	1C X 150	400	75	Note-4	10	86	Note-10	PE	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M32	Hold		A-20000	Electrolyser Auxiliary load	Local Panel	Side	1,5	BW	M32	Hold		PE	NA	NA		NOTE	Note-12	
70	0	83014-CEL	P4	4C X 10	400	35	Note-4	10	42	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M25	Hold		CP-850-F-01	BESS LV1 Cabinet (+DISTR 1)	Cabinet	Side	1,5	BW	M25	Hold		L1,L2,L3,N	NA	NA		NOTE	Note-12	Note-14
71	0	83015-CEL	P4	4C X 10	400	38	Note-4	10	45	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M25	Hold		CP-850-F-02	BESS LV2 Cabinet (+DISTR 2)	Cabinet	Side	1,5	BW	M25	Hold		L1,L2,L3,N	NA	NA		NOTE	Note-12	Note-14
72	0	85001-CEL-1-E	P6	1C X 95	400	100	Note-4	10	113	Note-10	PE	A-85000		BESS	HOLD	Top	1,5	NA	NA	Hold	A-85000	Earth Point	Earth Boss	Top	1,5	NA	NA	Hold		PE	NA	NA		NOTE	Note-12	Note-14

DRAWING NO. 123A90-DDL-EL-DL-20101

REV. 01



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



NOTES

1. ALL DIMENSIONS IN MM UNLESS NOTED OTHERWISE.
2. ALL ELEVATIONS IN METERS. UNLESS NOTED OTHERWISE.
3. ELEVATIONS REFER TO T.O.S.
4. FOR ELECTRICAL EQUIPMENT LAYOUT OF CONTAINERS B-100, B-200, B-300, B-400 REFER TO THE RESPECTIVE LAYOUTS.

LEGEND

(M)	ELECTRIC MOTOR – LOW VOLTAGE
⊠	INTERFACE PANEL
◪	JUNCTION BOX
JB-200E2 / EL+500mm	TAG ITEM / REFERED ELEVATION TO T.O.S. (TOP OF STEEL)

HOLDS

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20106	ELECTRICAL EQUIPMENT LAYOUT UPSs & BATTERIES SWITCHROOM
⚠ 123A90-DDL-IN-DL-40012	ITER EQUIPMENT LAYOUT
123A90-DDL-EL-DL-20104	ELECTRICAL EQUIPMENT LAYOUT HV & MV SWITCHROOM
123A90-DDL-EL-DL-20105	LV SWITCHGEAR ROOM EQUIPMENT LAYOUT

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/05/24	SAM	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	04/03/24	SAM	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20101**

REV.:	DATE:	SIGNATURE:
1_A	08/08/24	G.Randi

ROSETTI MARINO SpA

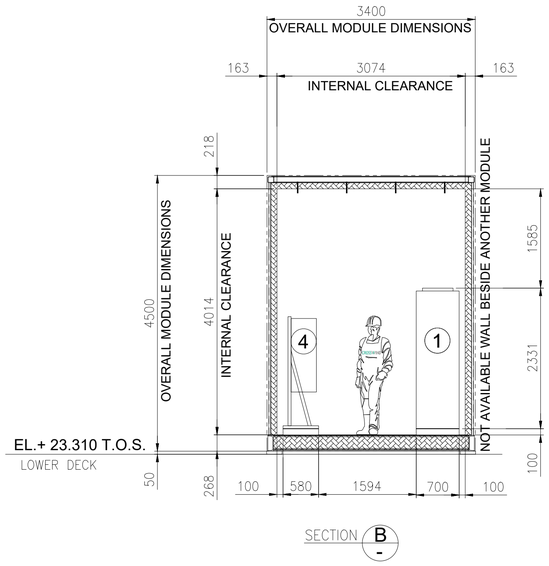
CROSSWIND | ROSETTI MARINO

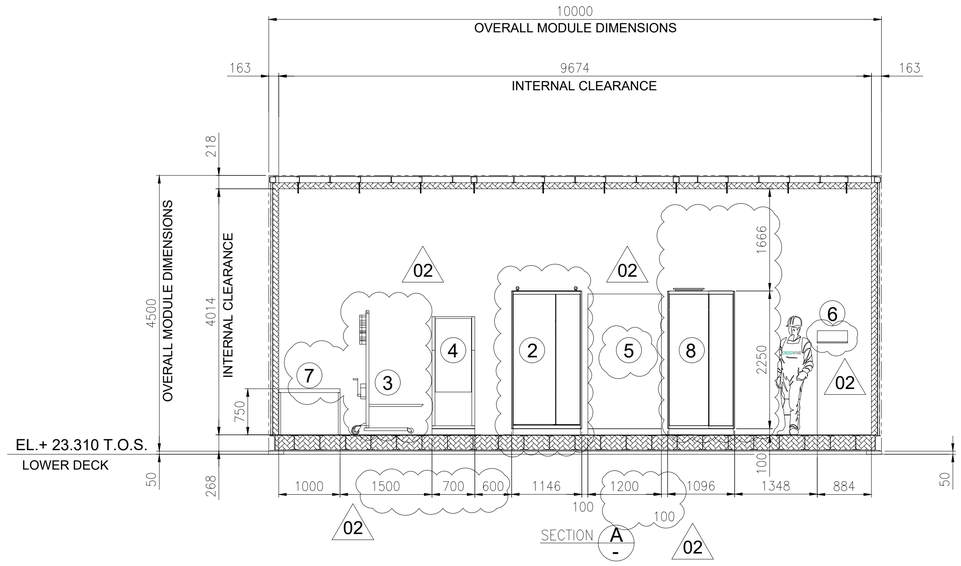
TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL EQUIPMENT LAYOUT
LOWER DECK

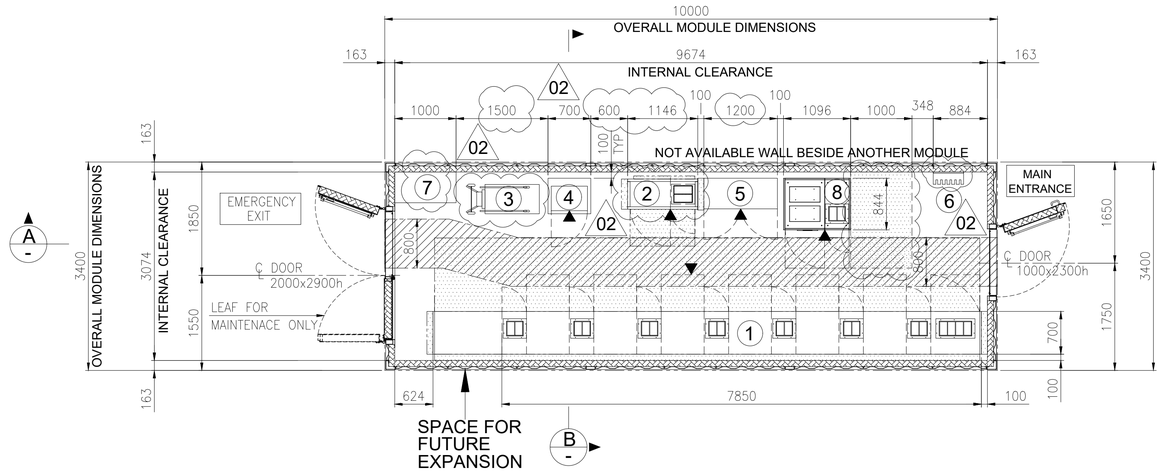
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN SAM	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 04/03/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20101	SHEET 001	REV. 01

File Name : 123A90-DDL-EL-DL-20101-Electrical Equipment Layout – Lower Deck

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





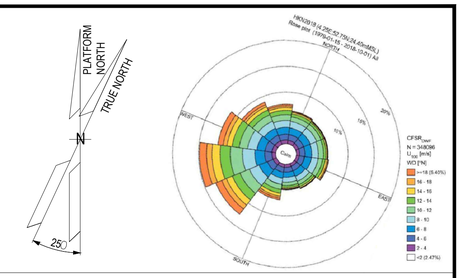


EQUIPMENT LAYOUT
"B-200" LV (400V) SWITCHGEAR ROOM
BOTTOM PLAN

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

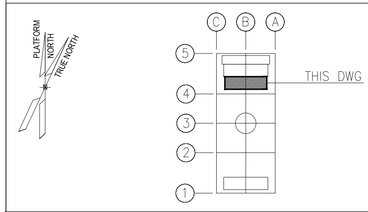
U.N.O. _____ UNLESS NOTED OTHERWISE
T.O.S. _____ TOP OF STEEL
_____ ESCAPE CORRIDOR - WIDTH 800mm.
_____ MAINTENANCE AREA - VENDOR REQUIREMENT
_____ SWITCHGEAR ROOM ENCLOUSURE
_____ FRONT OF EQUIPMENT

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



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	DYFO/MDO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

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

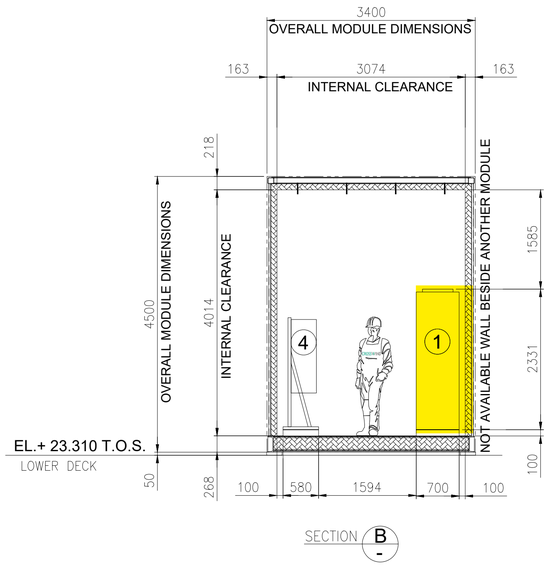
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE 1:50

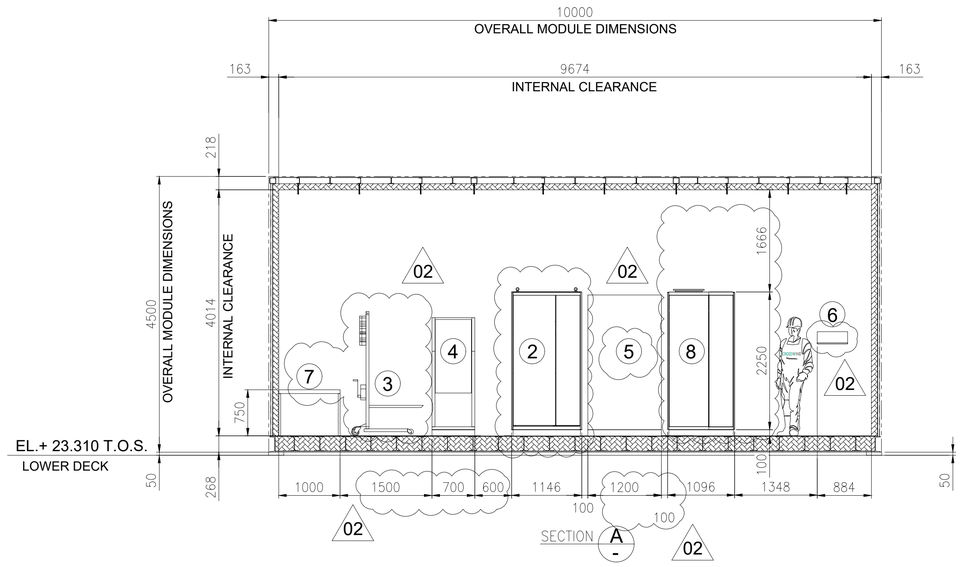
DRAWN FMO | CHECKED LMA/AMA | APPROVED LMA/MDO | DATE 27/05/2024

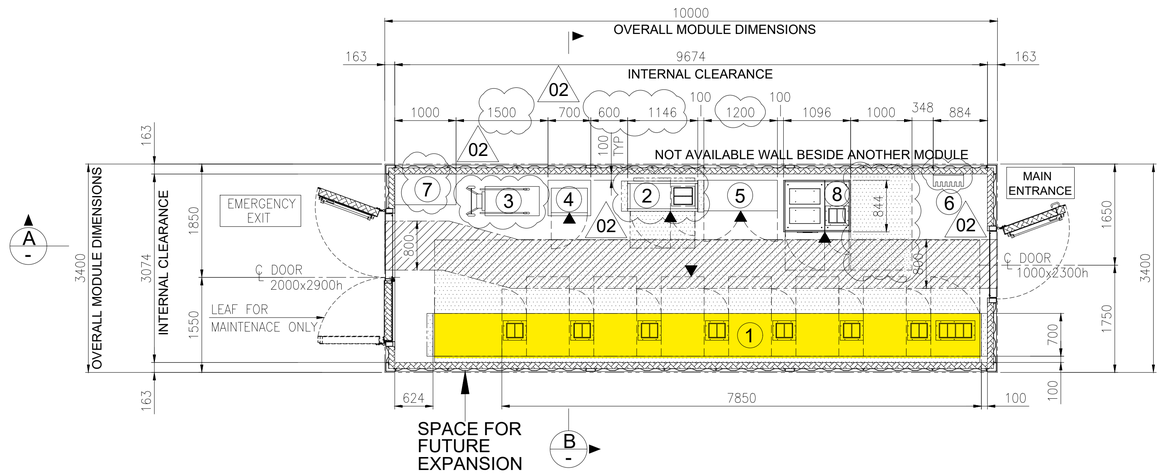
A1 | DRAWING NO. 123A90-DDL-EL-DL-20105 | SHEET 001 | REV. 02

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

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





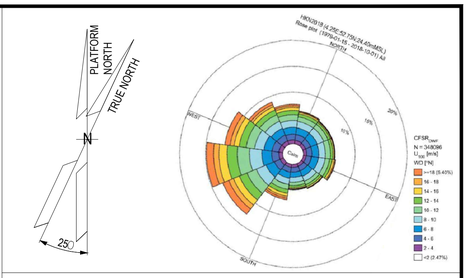


EQUIPMENT LAYOUT
"B-200" LV (400V) SWITCHGEAR ROOM
BOTTOM PLAN

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

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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

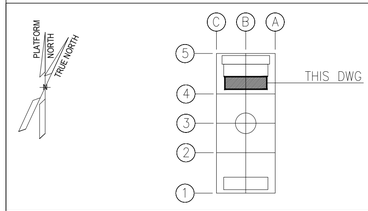
U.N.O. _____ UNLESS NOTED OTHERWISE
T.O.S. _____ TOP OF STEEL
_____ ESCAPE CORRIDOR - WIDTH 800mm.
_____ MAINTENANCE AREA - VENDOR REQUIREMENT
_____ SWITCHGEAR ROOM ENCLOUSURE
_____ FRONT OF EQUIPMENT

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



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	DYFO/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

FROM	TO

DESCRIPTION: LV Switchgear
TAG NUMBER: SG-200N1

COLUMN/CUBIC.: A2/+08

L1	BK	83010-CEL-L1	1C X 95 mm²
L2	BK	83010-CEL-L2	1C X 95 mm²
L3	BK	83010-CEL-L3	1C X 95 mm²
N	BK	83010-CEL-N	1C X 95 mm²
PE	Y/G	83010-CEL-PE	1C X 95 mm²

P.E. BUS BAR

DESCRIPTION: TEMPORARY GENERATOR / MOBILE BATTERY PACK
TAG NUMBER: JB-200E2

BK	L1
BK	L2
BK	L3
BK	N
Y/G	PE

INCOMING FROM LV SWITCHGEAR
SG-200N1

P.E. BUS BAR

COLUMN/CUBIC.: A1/+08

L1	BK	83013-CEL-L1	1C X 300 mm²
L2	BK	83013-CEL-L2	1C X 300 mm²
L3	BK	83013-CEL-L3	1C X 300 mm²
N	BK	83013-CEL-N	1C X 300 mm²
PE	Y/G	83013-CEL-E	1C X 150 mm²

P.E. BUS BAR

DESCRIPTION: ELECTROLYSER AUXILIARY LOAD
TAG NUMBER: A-20000

BK	L1
BK	L2
BK	L3
BK	N
Y/G	PE

P.E. BUS BAR

COLUMN/CUBIC.: A4/+03

L1	BK
L2	BN
L3	GY
N	BU
	Y/G
	PE

P.E. BUS BAR

83012-CEL
5G16 mm²

DESCRIPTION: FUEL CELL AUXILIARY LOAD
TAG NUMBER: A-80000

BK	L1
BN	L2
GY	L3
BU	N
Y/G	
PE	

P.E. BUS BAR

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
LV SWITCHGEAR SG-200N1

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

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 021

REV. 00

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20162 Rev. 00

TITLE

DATA SHEET FOR LV POWER CABLE (LSZH, FLAME RETARDANT)

CONSTRUCTIVE DATA

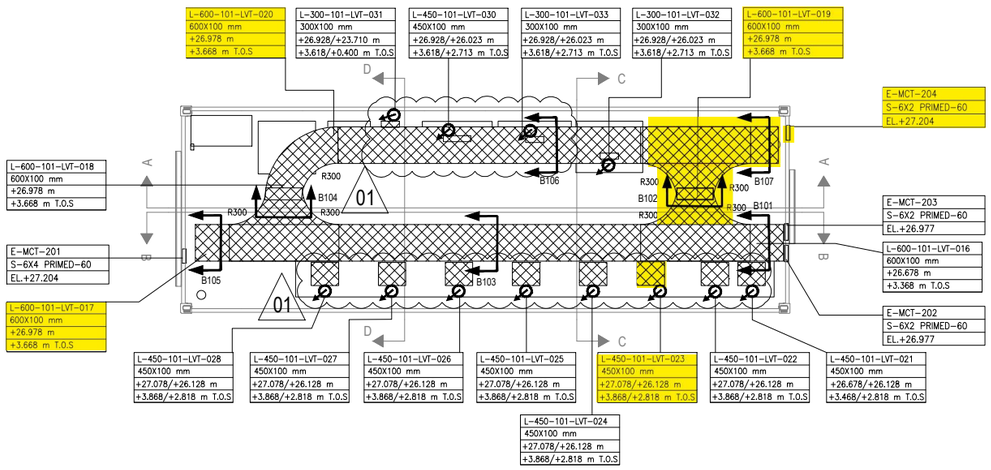
3	MR TAG / PART NUMBER			Note-3	Note-3	Note-3	Note-3
4	n° x NOMINAL AREA OF CONDUCTORS		N.xmm^2	1Cx300	1Cx95	3G2.5	3G4
5	n° AND DIAMETER OF WIRES IN EACH CONDUCTOR		N.xmm	37X3,35	19X2,67	7X0,67	7X0,85
6	CONDUCTOR CLASS (2)			2	2	2	2
7	RATED CURRENT IN AIR AT 30°		A	698	323	31	41
8	RATED CURRENT IN GROUND AT 20°		A	623	333	41	53
9							
10	A.C. PHASES RESISTANCE AT THE MAX OP. TEMP.		Ω/km	0,08	0,247	9,45	5,88
11	PHASE REACTANCE AT 50 Hz		Ω/km	0,08	0,085	0,103	0,096
12	MINIMUM INSULATION RESISTANCE AT 20°		MΩ/km	330	400	1100	1100
13	PHASE CAPACITY		µF/km	0,722	0,451	0,157	0,178
14							
15	MINIMUM ORDER Q.TY		m	300	300	300	300
16	MAX LENGHT OF DRUMS		m	1000	3000	7000	6000
17	DIAMETERS	BARE CONDUCTOR	mm	21	11,3	2	2,6
18		CORE (INSULATED CORE)	mm	25,8	14,5	4	4,6
19		INNER COVERING	mm	NA	NA	10,6	11,9
20		ARMOUR OR CONCENTRIC CONDUCTOR	mm	NA	NA	NA	NA
21							
22							
23		OVERALL	mm	29,4	17,3	13	14,3
24	MASSES	CONDUCTORS	kg/km	2730	864	68	109
25		INSULATION	kg/km	205	58	28	34
26		INNER COVERING	kg/km	NA	NA	83	101
27		ARMOUR OR CONCENTRIC CONDUCTOR	kg/km	NA	NA	NA	NA
28		OUTER SHEATING	kg/km	320	100	74	82
29							
30		TOTAL	kg/km	3255	1022	253	326
31	EXTERNAL COLOUR			GREY	GREY	GREY	GREY
32	CORE IDENTIFICATION (1)			BK	BK	BN,BU,Y/G	BN,BU,Y/G
33							
34							
35							
36							
37							
38							

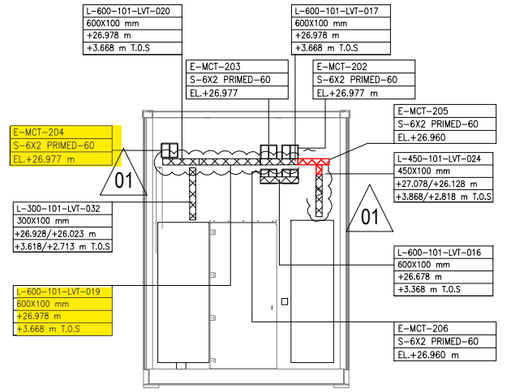
NOTE: (1) BK=BLACK, BN=BROWN, GY=GRAY, BU=BLUE, RD=RED, Y/G=YELLOW/GREEN

NA NOT APPLICABLE

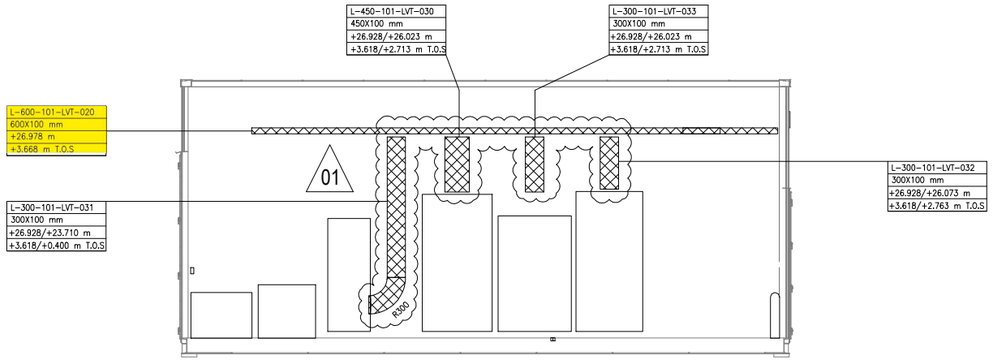
DRAWING NO. 123A90-DDL-EL-DL-20112

REV. 01

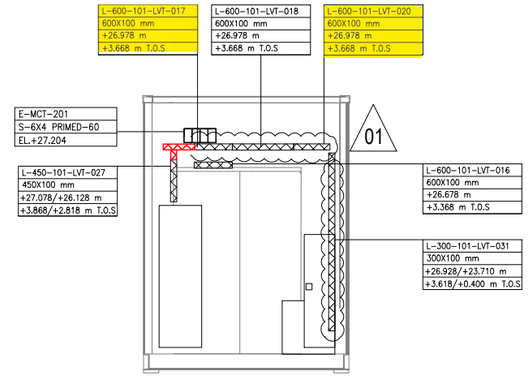




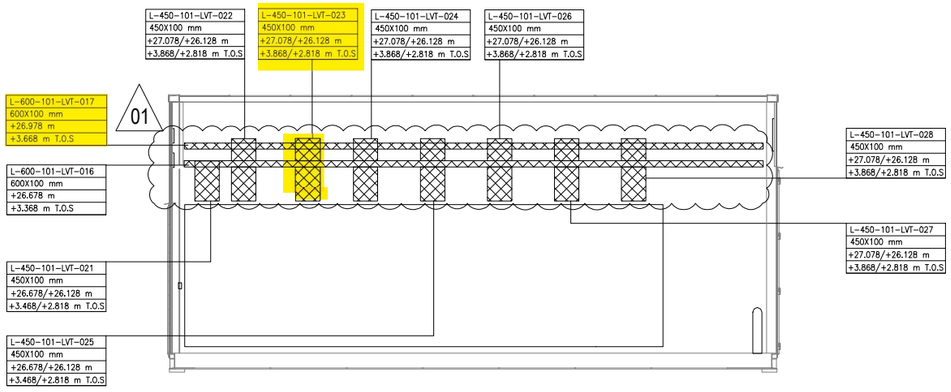
Section C-C



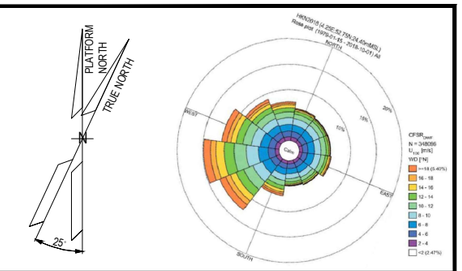
Section A-A



Section D-D



Section B-B



NOTES

1.ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.

2.THIS DRAWING IS VALID ONLY FOR ELECTRICAL CABLE ROUTING LAYOUT.

3.DRAWING SPLIT INTO MULTIPLE SHEETS FOR CLARITY.

4.FOR INSTALLATION DETAIL OF CABLE LADDER REFER TO DOC. 123A90-DDL-EL-DD-20093.

5.FOR LIGHTING AND SOCKET EQUIPMENTS SEE DRAWING 123A90-DDL-EL-DL-20123 AND 1724000049-EL-LIS-00044

6.ELEVATIONS REFER TO T.O.S. (EL+23.310m)

7.FOR PANEL MCTs DETAILS PLEASE REFER TO 123A90-DDL-EL-DL-20115.

LEGEND

ELECTRICAL LV CABLE LADDER

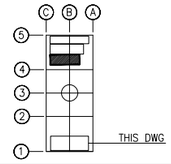
ELECTRICAL CABLE LADDER (VERTICAL DROP)

MCT TAG
TAG
MCT FRAME
ELEVATION

B100
CABLE SECTION

CABLE LADDER TAG
TAG
SIZE
ELEVATION
ELEVATION IN T.O.S

KEY PLAN



REFERENCE DOCUMENTS

123A90-DDL-EL-DD-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE
123A90-DDL-EL-DL-20105	ELECTRICAL EQUIPMENT LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DL-20123	LIGHTING & SOCKET LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DD-20095	MCT COMPOSITION
1724000049-EL-LIS-00044	B-200 ELECTRICAL COMPONENTS LIST AND DS - E&I SHELTERS
123A90-DDL-EL-DL-20115	ELECTRICAL MCT LAYOUT - LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	SAM	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	18/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20112**

REV.:	DATE:	SIGNATURE:
1_B	02/09/24	G.Randi

ROSETTI MARINO SpA

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

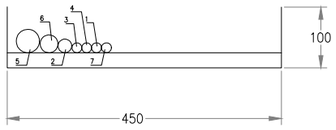
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:50
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 02/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20112	SHEET 1of11	REV. 01

File Name : 123A90-DDL-EL-DL-20112

DRAWING NO. 123A90-DDL-EL-DL-20112

REV. 01

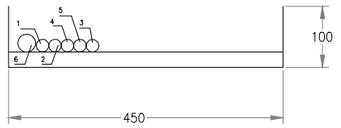
L-450-101-LVT-028



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83034-CEL	DC Battery System – Switchgears Control – Feeder A	SG-200N1	UP-200F1	POWER CABLE	P4	4G16
2	83035-CEL	DC Battery System – Switchgears Control – Feeder B	SG-200N1	UP-200F1	POWER CABLE	P4	4G16
3	83036-CEL	DC UPS NAVAID System – Feeder A	SG-200N1	UP-200F2	POWER CABLE	P5	3G16
4	83037-CEL	DC UPS NAVAID System – Feeder B	SG-200N1	UP-200F2	POWER CABLE	P5	3G16
5	83022-CEL-01	Welding Sockets (Lower Deck)	SG-200N1	JB-200E4	POWER CABLE	P4	5G50
6	83028-CEL	AC UPS PAS – 30min – Line A	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
7	83018-CEL	Sea water intake pump A	SG-200N1	PM-50001 A	POWER CABLE	P4	4G4

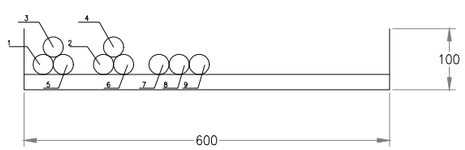
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L-450-101-LVT-023



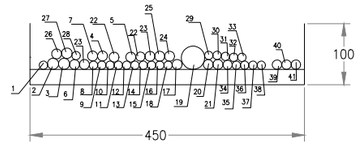
POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83010-CEL-L1	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
2	83010-CEL-L2	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
3	83010-CEL-L3	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
4	83010-CEL-N	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
5	83010-CEL-PE	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P6	1C X 95
6	83031-CEL	AC UPS F&G – 8h – Line A	SG-200N1	UP-200F4	POWER CABLE	P4	4G35

L-600-101-LVT-016 VIA-E-MCT-206



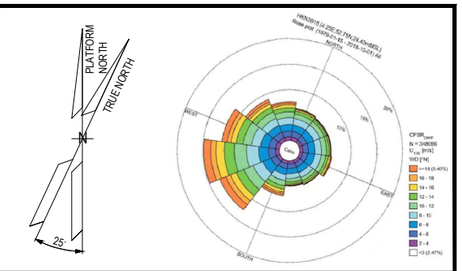
POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83001-CEL-4-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
2	83001-CEL-5-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
3	83001-CEL-4-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
4	83001-CEL-5-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
5	83001-CEL-4-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
6	83001-CEL-5-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
7	83001-CEL-1-N	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
8	83001-CEL-2-N	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
9	83001-CEL-3-N	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300

L-450-101-LVT-030



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	P-EJB-200N1-04-L3-01	Normal Lighting – Stairs	DP-200N1	EJB-200N1-04-L3-01	POWER CABLE	P4	3G4
2	P-ESO-200N1-05-L1-01	Small Power Socket (Upper Deck)	DP-200N1	EJB-200N1-05-L1-01	POWER CABLE	P4	3G10
3	P-ESO-200N1-06-L2-01	Small Power Socket (Lower Deck)	DP-200N1	EJB-200N1-06-L2-01	POWER CABLE	P4	3G10
4	P-ETB-200N1-20-L1-01	TRACE HEATING – PROCESS LINES – FEEDER 7 (SEA WATER PUMPS)	DP-200N1	ETB-200N1-19-L3-01	POWER CABLE	P7	3G6
5	P-ETB-200N1-18-L2-01	TRACE HEATING – PROCESS LINES – FEEDER 5 (VESSEL KO DRUM)	DP-200N1	ETB-200N1-18-L2-01	POWER CABLE	P4	3G6
6	P-EJB-200N1-09-L2-01	Emergency Lighting Lower Deck – Circuit No. 1	DP-200N1	EJB-200N1-09-L2-01	POWER CABLE	P4	4G4_E
7	P-ETB-200N1-19-L3-01	TRACE HEATING – PROCESS LINES – FEEDER 6 (H2 VENT)	DP-200N1	ETB-200N1-20-L1-01	POWER CABLE	P7	3G6
8	83104-CEL	SIS –Controller and I/O Cabinet – Auxiliary	DP-200N1	B400-SIS-001	POWER CABLE	P4	3G2.5
9	83105-CEL	PCS –Controller and I/O Cabinet – Auxiliary	DP-200N1	B400-PCS-001	POWER CABLE	P4	3G2.5
10	83106-CEL	EMCS –Controller and I/O Cabinet – Auxiliary	DP-200N1	B400-EMCS-001	POWER CABLE	P4	3G2.5
11	83107-CEL	FGS Fire & Gas Panel – Auxiliary	DP-200N1	B400-FGS-001	POWER CABLE	P4	3G2.5
12	83108-CEL	System Server / Network Cabinet – Auxiliary	DP-200N1	B400-NET-001	POWER CABLE	P4	3G2.5
13	83109-CEL	Server cabiner ITER – Auxiliary	DP-200N1	B400-SRV-001	POWER CABLE	P4	3G2.5
14	83110-CEL	UCP – Instrument Air Package –A–63000 – Auxiliary	DP-200N1	CP-630E1	POWER CABLE	P4	3G2.5
15	83111-CEL	UCP – N2 Package – Auxiliary	DP-200N1	CP-640E1	POWER CABLE	P4	3G2.5
16	83117-CEL	Auxiliary Trafo SOLAR 0,5MVA	DP-200N1	CP-200E2	POWER CABLE	P4	3G2.5
17	83118-CEL	Auxiliary GIS	DP-200N1	CP-100E1	POWER CABLE	P4	3G6
18	83119-CEL	Auxiliary 6.6kV Switchboard	DP-200N1	SG-100D1	POWER CABLE	P4	3G2.5
19	83043-CEL	DB – Lighting & Small Power – BoP	SG-200N1	DP-200N1	POWER CABLE	P4	5G50
20	P-EJB-200N1-10-L3-01	Emergency Lighting Stairs	DP-200N1	EJB-200N1-10-L3-01	POWER CABLE	P4	4G4_E
21	P-EJB-200N1-17-L1-01	TRACE HEATING – PROCESS LINES – FEEDER 4 (WW LINES) Cold JB	DP-200N1	EJB-200N1-17-L1-01	POWER CABLE	P4	3G6
22	P-EJB-200N1-02-L1-01	Normal Lighting Upper Deck	DP-200N1	EJB-200N1-02-L1-01	POWER CABLE	P4	3G4
23	P-EJB-200N1-08-L1-04	Emergency Lighting Upper Deck	DP-200N1	EJB-200N1-08-L1-04	POWER CABLE	P4	4G4_E
24	P-EJB-200N1-14-L1-01	TRACE HEATING – PROCESS LINES – FEEDER 1 (SWS LINES) Cold JB	DP-200N1	EJB-200N1-14-L1-01	POWER CABLE	P4	3G6
25	P-EJB-200N1-15-L2-01	TRACE HEATING – PROCESS LINES – FEEDER 2 (CI LINES) Cold JB	DP-200N1	EJB-200N1-15-L2-01	POWER CABLE	P4	3G6
26	P-ETB-200N1-16-L3-01	TRACE HEATING – PROCESS LINES – FEEDER 3 (DM LINE)	DP-200N1	ETB-200N1-16-L3-01	POWER CABLE	P4	3G6
27	83112-CEL	Auxiliary Trafo OLTC	DP-200N1	CP-100E2	POWER CABLE	P4	5G4
28	83113-CEL	Auxiliary Trafo AVR	DP-200N1	CP-100E3	POWER CABLE	P4	3G2.5
29	83114-CEL	Auxiliary Trafo 7MVA	DP-200N1	CP-100E4	POWER CABLE	P4	3G2.5
30	83115-CEL	Auxiliary NER	DP-200N1	RR-100D1	POWER CABLE	P4	3G2.5
31	83116-CEL	Auxiliary Trafo 1,6MVA	DP-200N1	CP-200E1	POWER CABLE	P4	3G2.5
32	83120-CEL	Auxiliary LV	DP-200N1	SG-200N1	POWER CABLE	P4	3G2.5
33	83121-CEL	Auxiliary LV SWBD 800/460V	DP-200N1	SG-200D2	POWER CABLE	P4	3G2.5
34	P-EJB-200N1-03-L2-01	Normal Lighting Lower Deck – Circuit No. 1	DP-200N1	EJB-200N1-03-L2-01	POWER CABLE	P4	3G4
35	83122-CEL	AC UPS PAS AUXILIARY	DP-200N1	UP-200F3	POWER CABLE	P4	3G2.5
36	83123-CEL	AC UPS F&G AUXILIARY	DP-200N1	UP-200F4	POWER CABLE	P4	3G2.5
37	83124-CEL	DC BATTERY SYSTEM AUXILIARY	DP-200N1	UP-200F1	POWER CABLE	P4	3G2.5
38	P-EPH-200N1-01	Twilight Relay Sensor	DP-200N1	EPH-200N1-01	POWER CABLE	P5	3G4
39	83125-CEC	LV Switchgear	DP-200N1	SG-200N1	CONTROL CABLE	P7	7C X 1.5
40	83126-CEC	LV Switchgear	DP-200N1	SG-200N1	CONTROL CABLE	P7	7C X 1.5
41	83127-CEC	LV Switchgear	DP-200N1	SG-200N1	CONTROL CABLE	P7	7C X 1.5

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NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S. (EL+23.310m)

CABLE TYPE DETAILS

P3 - SINGLE CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P4 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZHOUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P5 - MULTI CORE, 0.6/1 KV, FIRE RESISTANT, STRANDED COPPER, MICA/GLASS TAPE, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, GALVANIZED STEEL WIRE BRAID ARMOURED CABLE, FLAME RETARDANT
P7 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P8 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, COPPER WIRE BRAID SCREEN, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
C1- SPECIAL SIGNAL CABLE MULTI CORE, STRANDED COPPER, XLPE INSULATION, TIN CU BRAIDED SCREEN PUR JACKET, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
C2- SINGLE CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, STRANDED COPPER, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT

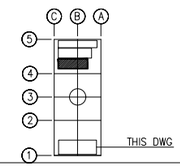
LEGEND

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20112**

REV.:	DATE:	SIGNATURE:
1_B	02/09/24	G.Randi

ROSETTI MARINO SpA

KEY PLAN



REFERENCE DOCUMENTS

123A90-DDL-EL-DD-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE
123A90-DDL-EL-DL-20105	ELECTRICAL EQUIPMENT LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DL-20123	LIGHTING & SOCKET LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DD-20095	MCT COMPOSITION
1724000049-EL-LIS-00044	B-200 ELECTRICAL COMPONENTS LIST AND DS - E&I SHELTERS
123A90-DDL-EL-DL-20115	ELECTRICAL MCT LAYOUT - LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	SAM	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	18/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

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

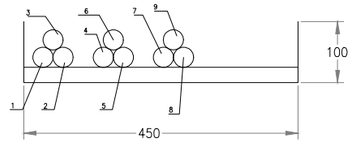
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:50
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 02/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20112	SHEET 6of11	REV. 01

File Name : 123A90-DDL-EL-DL-20112

DRAWING NO. 123A90-DDL-EL-DL-20112 REV. 01

L-450-101-LVT-021 VIA E-MCT-205

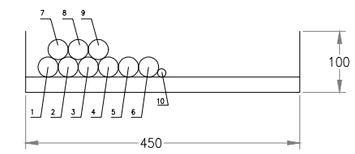
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POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83001-CEL-1-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
2	83001-CEL-2-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
3	83001-CEL-3-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
4	83001-CEL-1-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
5	83001-CEL-2-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
6	83001-CEL-3-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
7	83001-CEL-1-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
8	83001-CEL-2-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
9	83001-CEL-3-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300

L-450-101-LVT-021 VIA E-MCT-206

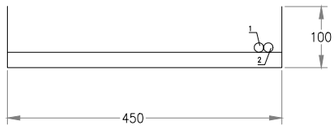
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POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83001-CEL-4-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
2	83001-CEL-5-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
3	83001-CEL-4-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
4	83001-CEL-5-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
5	83001-CEL-4-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
6	83001-CEL-5-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
7	83001-CEL-1-N	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
8	83001-CEL-2-N	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
9	83001-CEL-3-N	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300

L-450-101-LVT-021 VIA E-MCT-203

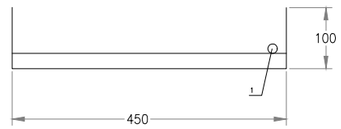
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POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83005-CEC	6.6KV HV Switchgear	SG-200N1	SG-100D1	CONTROL CABLE	P7	7C X 1.5
2	83006-CEC	6.6KV HV Switchgear	SG-200N1	SG-100D1	CONTROL CABLE	P7	7C X 1.5

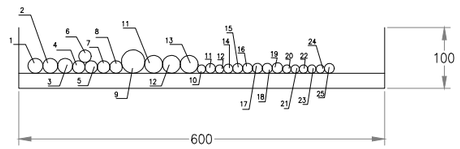
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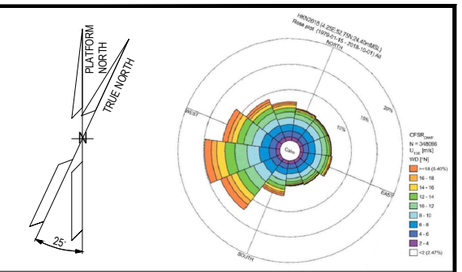
POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	82013-CEC	LV Switchgear	SG-100D1	SG-200N1	CONTROL CABLE	P7	7C X 1.5

B 102 (L-600-101-LVT-019)



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POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83020-CEL	Crane	SG-200N1	JB-200E3	POWER CABLE	P4	5G16
2	83025-CEL	HVAC panel – UPS Room	SG-200N1	B300-HSB-001	POWER CABLE	P4	5G16
3	83026-CEL	HVAC panel – ITER	SG-200N1	B400-HSB-001	POWER CABLE	P4	5G16
4	83010-CEL-L1	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
5	83010-CEL-L2	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
6	83010-CEL-L3	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
7	83010-CEL-N	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
8	83010-CEL-PE	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P6	1C X 95
9	83021-CEL-01	Welding Sockets (Top Deck) JB's	SG-200N1	JB-200E6	POWER CABLE	P4	5G50
10	84318-CEL	LV Switchboard Auxiliary	DP-200F3	SG-200N1	POWER CABLE	P5	3G2.5
11	83029-CEL	AC UPS PAS – 30min – Line B	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
12	83030-CEL	AC UPS PAS – 30min – Bypass	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
13	83031-CEL	AC UPS F&G – 8h – Line A	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
14	P-EJB-200N1-02-L1-01	Normal Lighting Upper Deck	DP-200N1	EJB-200N1-02-L1-01	POWER CABLE	P4	3G4
15	P-EJB-200N1-08-L1-04	Emergency Lighting Upper Deck	DP-200N1	EJB-200N1-08-L1-04	POWER CABLE	P4	4G4_E
16	P-EJB-200N1-14-L1-01	TRACE HEATING – PROCESS LINES – FEEDER 1 (SWS LINES) Cold JB	DP-200N1	EJB-200N1-14-L1-01	POWER CABLE	P4	3G6
17	P-EJB-200N1-15-L2-01	TRACE HEATING – PROCESS LINES – FEEDER 2 (CI LINES) Cold JB	DP-200N1	EJB-200N1-15-L2-01	POWER CABLE	P4	3G6
18	P-ETB-200N1-16-L3-01	TRACE HEATING – PROCESS LINES – FEEDER 3 (DM LINE)	DP-200N1	ETB-200N1-16-L3-01	POWER CABLE	P4	3G6
19	83112-CEL	Auxiliary Trafo OLTC	DP-200N1	CP-100E2	POWER CABLE	P4	5G4
20	83113-CEL	Auxiliary Trafo AVR	DP-200N1	CP-100E3	POWER CABLE	P4	3G2.5
21	83114-CEL	Auxiliary Trafo 7MVA	DP-200N1	CP-100E4	POWER CABLE	P4	3G2.5
22	83115-CEL	Auxiliary NER	DP-200N1	RR-100D1	POWER CABLE	P4	3G2.5
23	83116-CEL	Auxiliary Trafo 1,6MVA	DP-200N1	CP-200E1	POWER CABLE	P4	3G2.5
24	83124-CEL	DC BATTERY SYSTEM AUXILIARY	DP-200N1	UP-200F1	POWER CABLE	P4	3G2.5
25	P-EJB-200N1-10-L3-01	Emergency Lighting stairs	DP-200N1	EJB-200N1-10-L3-01	POWER CABLE	P4	4G4_E



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S. (EL+23.310m)

CABLE TYPE DETAILS

P3 - SINGLE CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P4 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZHOUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P5 - MULTI CORE, 0.6/1 KV, FIRE RESISTANT, STRANDED COPPER, MICA/GLASS TAPE, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, GALVANIZED STEEL WIRE BRAID ARMOURED CABLE, FLAME RETARDANT
P7 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P8 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, COPPER WIRE BRAID SCREEN, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
C1- SPECIAL SIGNAL CABLE MULTI CORE, STRANDED COPPER, XLPE INSULATION, TIN CU BRAIDED SCREEN PUR JACKET, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
C2- SINGLE CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, STRANDED COPPER, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT

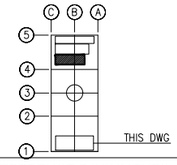
LEGEND

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20112**

REV.:	DATE:	SIGNATURE:
1_B	02/09/24	G.Randi

ROSETTI MARINO SpA

KEY PLAN



REFERENCE DOCUMENTS

123A90-DDL-EL-DD-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE
123A90-DDL-EL-DL-20105	ELECTRICAL EQUIPMENT LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DL-20123	LIGHTING & SOCKET LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DD-20095	MCT COMPOSITION
1724000049-EL-LIS-00044	B-200 ELECTRICAL COMPONENTS LIST AND DS - E&I SHELTERS
123A90-DDL-EL-DL-20115	ELECTRICAL MCT LAYOUT - LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	SAM	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	18/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

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

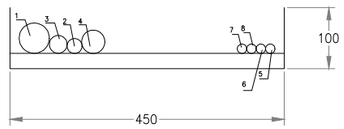
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:50
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 02/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20112	SHEET 7of11	REV. 01

File Name : 123A90-DDL-EL-DL-20112

DRAWING NO. 123A90-DDL-EL-DL-20112

REV. 01

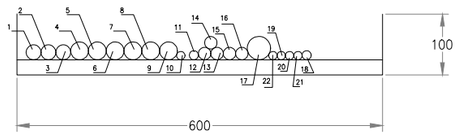
L-450-101-LVT-024



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83016-CEL	Water Package	SG-200N1	JB-500E8	POWER CABLE	P4	5G70
2	83020-CEL	Crane	SG-200N1	JB-200E3	POWER CABLE	P4	5G16
3	83030-CEL	AC UPS PAS - 30min - Bypass	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
4	83043-CEL	DB - Lighting & Small Power - BoP	SG-200N1	DP-200N1	POWER CABLE	P4	5G50
5	83016-CEC	LV Switchgear	SG-200D2	SG-200N1	CONTROL CABLE	P7	7C X 1.5
6	83125-CEC	LV Switchgear	DP-200N1	SG-200N1	CONTROL CABLE	P7	7C X 1.5
7	83126-CEC	LV Switchgear	DP-200N1	SG-200N1	CONTROL CABLE	P7	7C X 1.5
8	83127-CEC	LV Switchgear	DP-200N1	SG-200N1	CONTROL CABLE	P7	7C X 1.5

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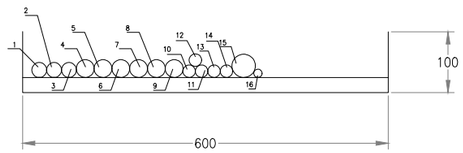
L-600-101-LVT-020 VIA-E-MCT-204



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83020-CEL	Crane	SG-200N1	JB-200E3	POWER CABLE	P4	5G16
2	83025-CEL	HVAC panel - UPS Room	SG-200N1	B300-HSB-001	POWER CABLE	P4	5G16
3	83026-CEL	HVAC panel - ITER	SG-200N1	B400-HSB-001	POWER CABLE	P4	5G16
4	83028-CEL	AC UPS PAS - 30min - Line A	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
5	83029-CEL	AC UPS PAS - 30min - Line B	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
6	83030-CEL	AC UPS PAS - 30min - Bypass	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
7	83031-CEL	AC UPS F&G - 8h - Line A	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
8	83032-CEL	AC UPS F&G - 8h - Line B	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
9	83033-CEL	AC UPS F&G - 8h - Line Bypass	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
10	84315-CEL	UCP - HVAC LV Room	DP-200F3	B200-HSB-001	POWER CABLE	P5	3G2.5
11	P-EJB-200N1-03-L2-01	Normal Lighting Lower Deck - Circuit No. 1	DP-200N1	EJB-200N1-03-L2-01	POWER CABLE	P4	3G4
12	83010-CEL-L1	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
13	83010-CEL-L2	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
14	83010-CEL-L3	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
15	83010-CEL-N	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
16	83010-CEL-PE	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P6	1C X 95
17	83021-CEL-01	Welding Sockets (Top Deck) JB's	SG-200N1	JB-200E6	POWER CABLE	P4	5G50
18	P-EPH-200N1-01	Twilight Relay Sensor	DP-200N1	EPH-200N1-01	POWER CABLE	P5	3G4
19	83123-CEL	AC UPS F&G AUXILIARY	DP-200N1	UP-200F4	POWER CABLE	P4	3G2.5
20	84318-CEL	LV Switchboard Auxiliary	DP-200F3	SG-200N1	POWER CABLE	P5	3G2.5
21	84319-CEL	LV SWBD 800/460V Auxiliary	DP-200F3	SG-200D2	POWER CABLE	P5	3G2.5
22	83122-CEL	AC UPS PAS AUXILIARY	DP-200N1	UP-200F3	POWER CABLE	P4	3G2.5

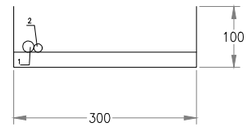
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L-600-101-LVT-017 VIA-E-MCT-204



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83020-CEL	Crane	SG-200N1	JB-200E3	POWER CABLE	P4	5G16
2	83025-CEL	DISTRIBUTION & HVAC panels - UPS Room	SG-200N1	B300-HSB-001	POWER CABLE	P4	5G16
3	83026-CEL	DISTRIBUTION & HVAC panels - ITER	SG-200N1	B400-HSB-001	POWER CABLE	P4	5G16
4	83028-CEL	AC UPS PAS - 30min - Line A	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
5	83029-CEL	AC UPS PAS - 30min - Line B	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
6	83030-CEL	AC UPS PAS - 30min - Bypass	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
7	83031-CEL	AC UPS F&G - 8h - Line A	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
8	83032-CEL	AC UPS F&G - 8h - Line B	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
9	83033-CEL	AC UPS F&G - 8h - Line Bypass	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
10	83010-CEL-L1	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
11	83010-CEL-L2	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
12	83010-CEL-L3	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
13	83010-CEL-N	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
14	83010-CEL-PE	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P6	1C X 95
15	83021-CEL-01	Welding Sockets (Top Deck)	SG-200N1	JB-200E6	POWER CABLE	P4	5G50
16	84318-CEL	LV Switchboard Auxiliary	DP-200F3	SG-200N1	POWER CABLE	P5	3G2.5

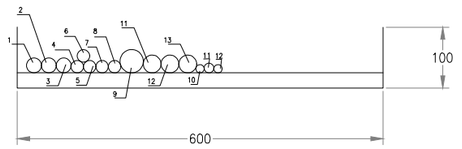
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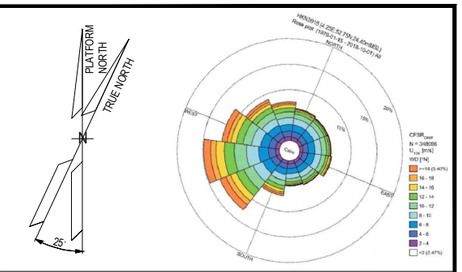
POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	84315-CEL	UCP - HVAC LV Room	DP-200F3	B200-HSB-001	POWER CABLE	P5	3G2.5
2	83024-CEL	DISTRIBUTION & HVAC Panel - LV Room	SG-200N1	B200-HSB-001	POWER CABLE	P4	5G16

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L-600-101-LVT-019 VIA-E-MCT-204



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83020-CEL	Crane	SG-200N1	JB-200E3	POWER CABLE	P4	5G16
2	83025-CEL	HVAC panel - UPS Room	SG-200N1	B300-HSB-001	POWER CABLE	P4	5G16
3	83026-CEL	HVAC panel - ITER	SG-200N1	B400-HSB-001	POWER CABLE	P4	5G16
4	83010-CEL-L1	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
5	83010-CEL-L2	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
6	83010-CEL-L3	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
7	83010-CEL-N	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
8	83010-CEL-PE	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P6	1C X 95
9	83021-CEL-01	Welding Sockets (Top Deck) JB's	SG-200N1	JB-200E6	POWER CABLE	P4	5G50
10	84318-CEL	LV Switchboard Auxiliary	DP-200F3	SG-200N1	POWER CABLE	P5	3G2.5
11	83029-CEL	AC UPS PAS - 30min - Line B	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
12	83030-CEL	AC UPS PAS - 30min - Bypass	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
13	83031-CEL	AC UPS F&G - 8h - Line A	SG-200N1	UP-200F4	POWER CABLE	P4	4G35



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S. (EL+23.310m)

CABLE TYPE DETAILS

P3 - SINGLE CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P4 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZHOUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P5 - MULTI CORE, 0.6/1 KV, FIRE RESISTANT, STRANDED COPPER, MICA/GLASS TAPE, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, GALVANIZED STEEL WIRE BRAID ARMOURED CABLE, FLAME RETARDANT
P7 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P8 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, COPPER WIRE BRAID SCREEN, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
C1- SPECIAL SIGNAL CABLE MULTI CORE, STRANDED COPPER, XLPE INSULATION, TIN CU BRAIDED SCREEN PUR JACKET, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
C2- SINGLE CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, STRANDED COPPER, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT

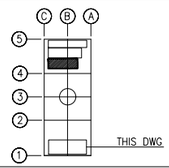
LEGEND

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20112**

REV.:	DATE:	SIGNATURE:
1_B	02/09/24	G.Randi

ROSETTI MARINO SpA

KEY PLAN



REFERENCE DOCUMENTS

123A90-DDL-EL-DD-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE
123A90-DDL-EL-DL-20105	ELECTRICAL EQUIPMENT LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DL-20123	LIGHTING & SOCKET LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DD-20095	MCT COMPOSITION
1724000049-EL-LIS-00044	B-200 ELECTRICAL COMPONENTS LIST AND DS - E&I SHELTERS
123A90-DDL-EL-DL-20115	ELECTRICAL MCT LAYOUT - LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	SAM	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	18/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

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

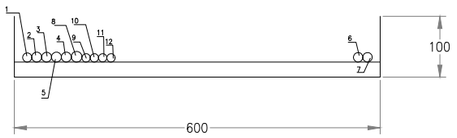
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:50
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 02/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20112	SHEET 8of11	REV. 01

File Name : 123A90-DDL-EL-DL-20112

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REV. 01

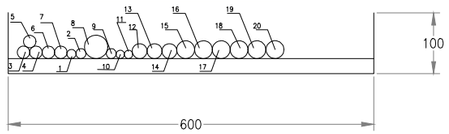
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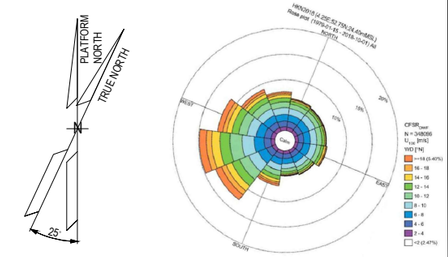
POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	P-EJB-200N1-02-L1-01	Normal Lighting Upper Deck	DP-200N1	EJB-200N1-02-L1-01	POWER CABLE	P4	3G4
2	P-ETB-200N1-16-L3-01	TRACE HEATING - PROCESS LINES - FEEDER 3 (DM LINE)	DP-200N1	ETB-200N1-16-L3-01	POWER CABLE	P4	3G6
3	P-EJB-200N1-08-L1-04	Emergency Lighting Upper Deck	DP-200N1	EJB-200N1-08-L1-04	POWER CABLE	P4	4G4_E
4	P-EJB-200N1-14-L1-01	TRACE HEATING - PROCESS LINES - FEEDER 1 (SWS LINES) Cold JB	DP-200N1	EJB-200N1-14-L1-01	POWER CABLE	P4	3G6
5	P-EJB-200N1-15-L2-01	TRACE HEATING - PROCESS LINES - FEEDER 2 (CI LINES) Cold JB	DP-200N1	EJB-200N1-15-L2-01	POWER CABLE	P4	3G6
6	83005-CEC	6.6KV HV Switchgear	SG-200N1	SG-100D1	CONTROL CABLE	P7	7C X 1.5
7	83006-CEC	6.6KV HV Switchgear	SG-200N1	SG-100D1	CONTROL CABLE	P7	7C X 1.5
8	83112-CEL	Auxiliary Trafo OLTC	DP-200N1	CP-100E2	POWER CABLE	P4	5G4
9	83113-CEL	Auxiliary Trafo AVR	DP-200N1	CP-100E3	POWER CABLE	P4	3G2.5
10	83114-CEL	Auxiliary Trafo 7MVA	DP-200N1	CP-100E4	POWER CABLE	P4	3G2.5
11	83115-CEL	Auxiliary NER	DP-200N1	RR-100D1	POWER CABLE	P4	3G2.5
12	83116-CEL	Auxiliary Trafo 1,6MVA	DP-200N1	CP-200E1	POWER CABLE	P4	3G2.5

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B 107 (L-600-101-LVT-020)



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	P-EJB-200N1-03-L2-01	Normal Lighting Lower Deck - Circuit No. 1	DP-200N1	EJB-200N1-03-L2-01	POWER CABLE	P4	3G4
2	P-ETB-200N1-16-L3-01	TRACE HEATING - PROCESS LINES - FEEDER 3 (DM LINE)	DP-200N1	ETB-200N1-16-L3-01	POWER CABLE	P4	3G6
3	83010-CEL-L1	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
4	83010-CEL-L2	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
5	83010-CEL-L3	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
6	83010-CEL-N	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
7	83010-CEL-PE	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P6	1C X 95
8	83021-CEL-01	Welding Sockets (Top Deck) JB's	SG-200N1	JB-200E6/ JB-200E7	POWER CABLE	P4	5G50
9	P-ETB-200N1-15-L2-01	Trace Heating - Process Lines - Feeder 2	DP-200N1	ETB-200N1-15-L2-01	POWER CABLE	P4	3G6
10	83122-CEL	AC UPS PAS AUXILIARY	DP-200N1	UP-200F3	POWER CABLE	P4	3G2.5
11	83123-CEL	AC UPS F&G AUXILIARY	DP-200N1	UP-200F4	POWER CABLE	P4	3G2.5
12	83020-CEL	Crane	SG-200N1	JB-200E3	POWER CABLE	P4	5G16
13	83025-CEL	DISTRIBUTION & HVAC panel - UPS Room	SG-200N1	B300-HSB-001	POWER CABLE	P4	5G16
14	83026-CEL	DISTRIBUTION & HVAC panel - ITER	SG-200N1	B400-HSB-001	POWER CABLE	P4	5G16
15	83028-CEL	AC UPS PAS - 30min - Line A	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
16	83029-CEL	AC UPS PAS - 30min - Line B	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
17	83030-CEL	AC UPS PAS - 30min - Bypass	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
18	83031-CEL	AC UPS F&G - 8h - Line A	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
19	83032-CEL	AC UPS F&G - 8h - Line B	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
20	83033-CEL	AC UPS F&G - 8h - Line Bypass	SG-200N1	UP-200F4	POWER CABLE	P4	4G35



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S. (EL+23.310m)

CABLE TYPE DETAILS

P3 - SINGLE CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P4 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZHOUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P5 - MULTI CORE, 0.6/1 KV, FIRE RESISTANT, STRANDED COPPER, MICA/GLASS TAPE, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, GALVANIZED STEEL WIRE BRAID ARMOURED CABLE, FLAME RETARDANT
P7 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P8 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, COPPER WIRE BRAID SCREEN, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
C1- SPECIAL SIGNAL CABLE MULTI CORE, STRANDED COPPER, XLPE INSULATION, TIN CU BRAIDED SCREEN PUR JACKET, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
C2- SINGLE CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, STRANDED COPPER, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT

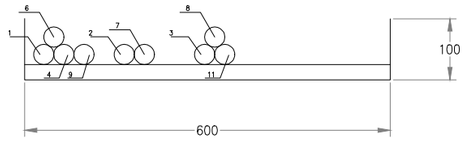
LEGEND

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20112**

REV.:	DATE:	SIGNATURE:
1_B	02/09/24	G.Randi

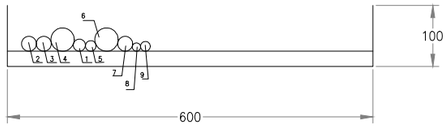
ROSETTI MARINO SpA

L-600-101-LVT-016 VIA-E-MCT-205

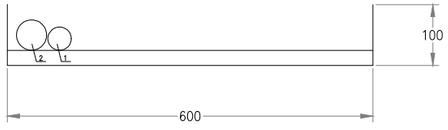


POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83001-CEL-1-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
2	83001-CEL-2-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
3	83001-CEL-3-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
4	83001-CEL-1-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
6	83001-CEL-1-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
7	83001-CEL-2-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
8	83001-CEL-3-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
9	83001-CEL-2-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
11	83001-CEL-3-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300

B103 (L-600-101-LVT-017)



B103 (L-600-101-LVT-016)



B103 (L-600-101-LVT-017)

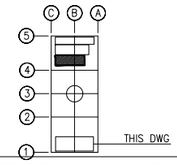
POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83011-CEL	BESS PCS Cabinet	SG-200N1	CP-850F3	POWER CABLE	P4	4C X 10
2	83025-CEL	DISTRIBUTION & HVAC panel - UPS Room	SG-200N1	B300-HSB-001	POWER CABLE	P4	5G16
3	83026-CEL	DISTRIBUTION & HVAC panel - ITER	SG-200N1	B400-HSB-001	POWER CABLE	P4	5G16
4	83043-CEL	DB - Lighting & Small Power - BoP	SG-200N1	DP-200N1	POWER CABLE	P4	5G50
5	82013-CEC	LV Switchgear	SG-100D1	SG-200N1	CONTROL CABLE	P7	7C X 1.5
6	83021-CEL-01	Welding Sockets (Top Deck) JB's	SG-200N1	JB-200E6/ JB-200E7	POWER CABLE	P4	5G50
7	83023-CEL	DISTRIBUTION & HVAC Panel - HV Room	SG-200N1	B100-HSB-001	POWER CABLE	P4	5G16
8	83124-CEL	DC BATTERY SYSTEM AUXILIARY	DP-200N1	UP-200F1	POWER CABLE	P4	3G2.5
9	P-EJB-200N1-10-L3-01	Emergency Lighting stairs	DP-200N1	EJB-200N1-10-L3-01	POWER CABLE	P4	4G4_E

01

B103 (L-600-101-LVT-016)

POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83022-CEL-01	Welding Sockets (Lower Deck)	SG-200N1	JB-200E4	POWER CABLE	P4	5G50
2	83017-CEL-1	Instrument Air Package	SG-200N1	K-63001A	POWER CABLE	P4	5G70

KEY PLAN



REFERENCE DOCUMENTS

123A90-DDL-EL-DD-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE
123A90-DDL-EL-DL-20105	ELECTRICAL EQUIPMENT LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DL-20123	LIGHTING & SOCKET LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DD-20095	MCT COMPOSITION
1724000049-EL-LIS-00044	B-200 ELECTRICAL COMPONENTS LIST AND DS - E&I SHELTERS
123A90-DDL-EL-DL-20115	ELECTRICAL MCT LAYOUT - LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	SAM	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	18/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

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

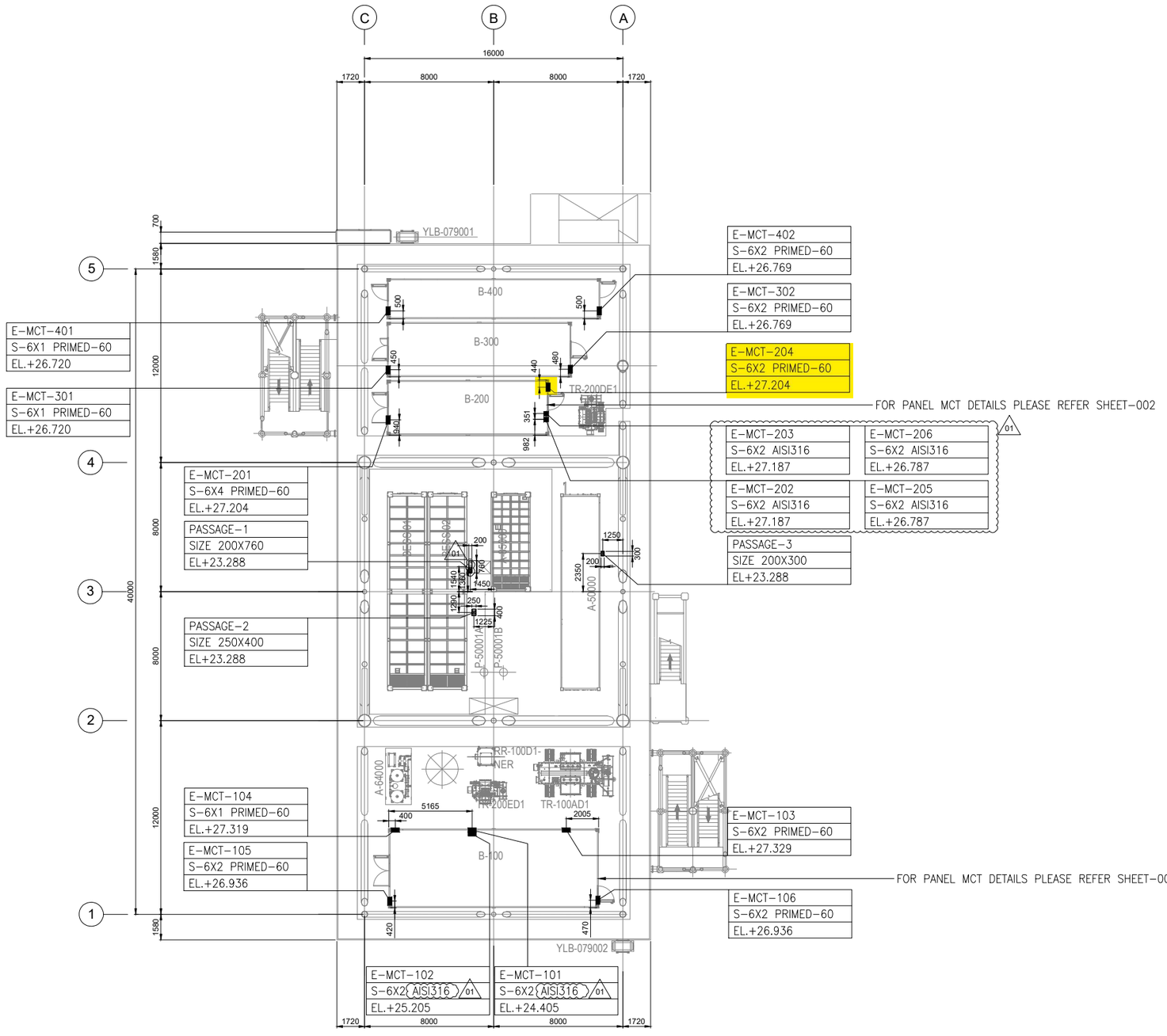
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:50
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 02/08/24

A1	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DL-20112	9of11	01

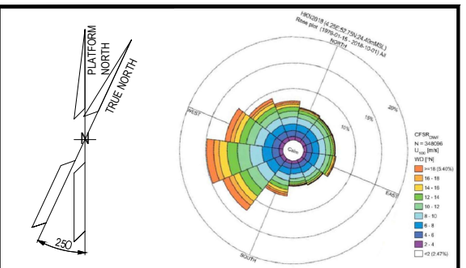
File Name : 123A90-DDL-EL-DL-20112

DRAWING NO. 123A90-DDL-EL-DL-20115

REV. 01



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



NOTES

GENERAL NOTES:

1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. ALL ELEVATIONS RELATE TO LOWEST ASTRONOMICAL TIDE (LAT) = 0.000.

NOTES:

1. THIS DOCUMENT IS VALID FOR TAGGING, SIZE AND LOCATION OF THE MCT.

LEGEND

LEGEND MCT FRAME

S 6X1 (FOR E-MCT-104) 160.6 208 ELEVATION

S 6X1 (FOR E-MCT-301, E-MCT-401) 01 01 238 ELEVATION

S 6X2 271 208 ELEVATION

LEGEND PASSAGE FRAME W H ELEVATION

S 6X3 401.5 208 ELEVATION

S 6X4 532 208 ELEVATION

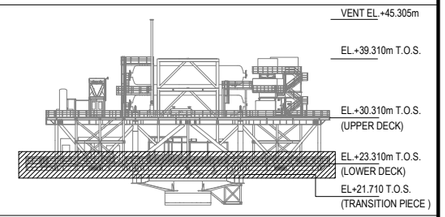
	HEIGHT in mm	WIDTH in mm
PASSAGE-1	100	300
PASSAGE-2	150	200
PASSAGE-3	100	200

MULTI CABLE TRANSIT

PASSAGE

TAG — TAGGING
SIZE-MATERIAL-DEPTH — TYPICAL
EL. — ELEVATION

KEY PLAN



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-20095	MCT COMPOSITION
123A90-DDL-EL-DL-20114	ELECTRICAL MCT LAYOUT-TOP DECK
123A90-DDL-EL-DL-20116	ELECTRICAL MCT LAYOUT- BELOW LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	23/07/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	12/04/24	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

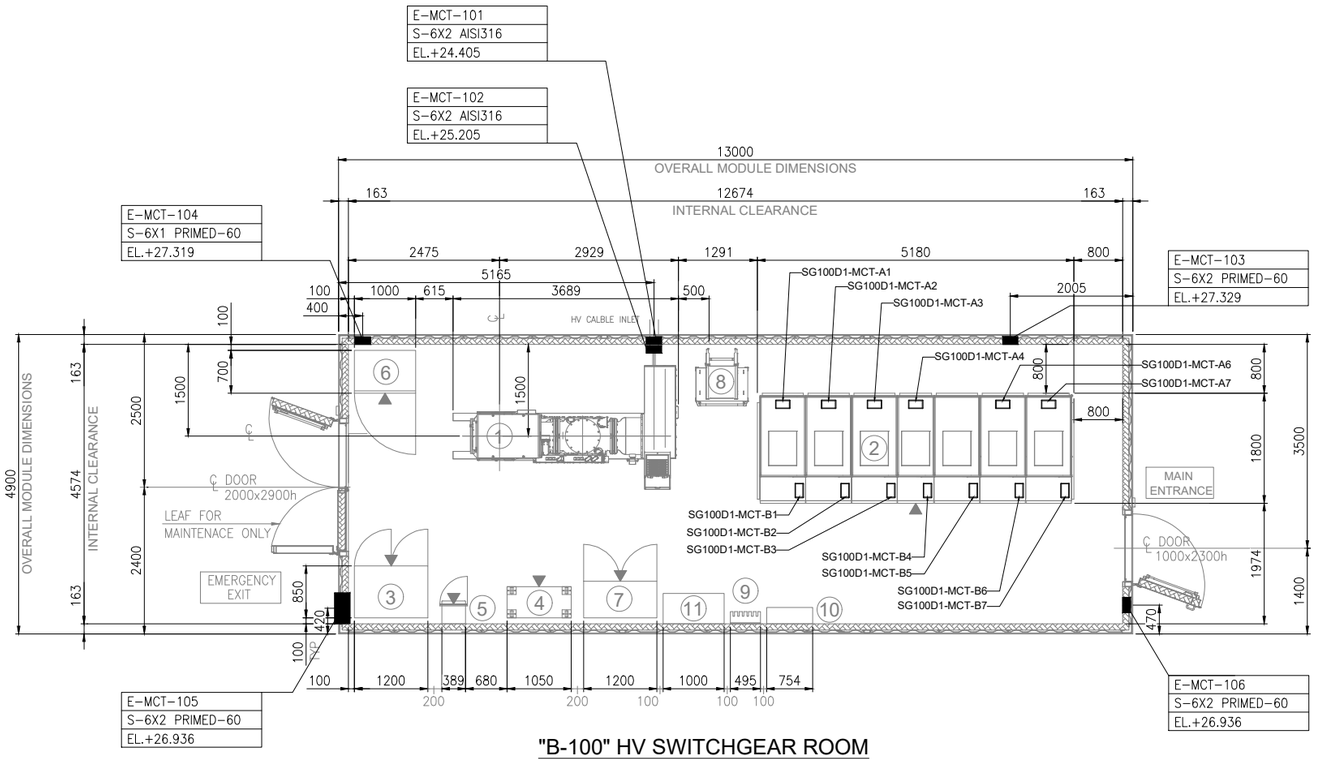
CROSSWIND | ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
ELECTRICAL MCT LAYOUT
LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN SPS	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 18/07/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20115	SHEET 001	REV. 01

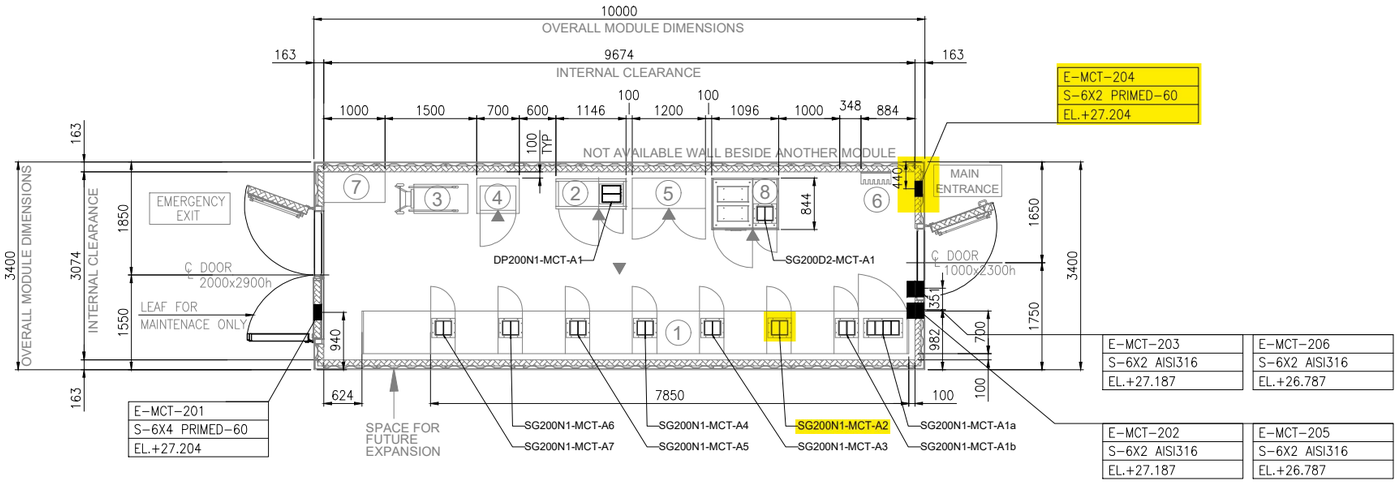
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DRAWING NO. 123A90-DDL-EL-DL-20115 | REV. 01



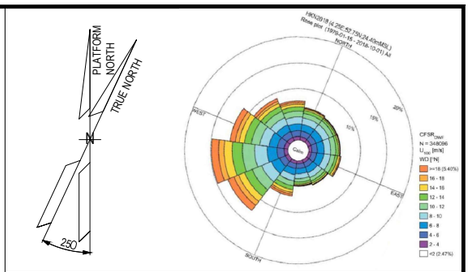
"B-100" HV SWITCHGEAR ROOM

SG-100D1 – 6.6KV SWITCHGEAR MCT (NOTE-2)	
SG100D1-MCT-A1	S 6X1 PRIMED
SG100D1-MCT-A2	S 6X1 PRIMED
SG100D1-MCT-A3	S 6X1 PRIMED
SG100D1-MCT-A4	S 6X1 PRIMED
SG100D1-MCT-A6	S 6X1 PRIMED
SG100D1-MCT-A7	S 6X1 PRIMED
SG100D1-MCT-B1	S 6X1 PRIMED
SG100D1-MCT-B2	S 6X1 PRIMED
SG100D1-MCT-B3	S 6X1 PRIMED
SG100D1-MCT-B4	S 6X1 PRIMED
SG100D1-MCT-B5	S 6X1 PRIMED
SG100D1-MCT-B6	S 6X1 PRIMED
SG100D1-MCT-B7	S 6X1 PRIMED



"B-200" LV SWITCHGEAR ROOM

SG-200N1 – LV SWITCHGEAR MCT (NOTE-2)	
SG200N1-MCT-A1a	S 6X4 PRIMED
SG200N1-MCT-A1b	S 6X2 PRIMED
SG200N1-MCT-A2	S 6X2 PRIMED
SG200N1-MCT-A3	S 6X2 PRIMED
SG200N1-MCT-A4	S 6X2 PRIMED
SG200N1-MCT-A5	S 6X2 PRIMED
SG200N1-MCT-A6	S 6X2 PRIMED
SG200N1-MCT-A7	S 6X2 PRIMED
DP-200N1 – DB BOP MCT (NOTE-2)	
DP200N1-MCT-A1	S 8X2 PRIMED
SG-200D2 – SOLAR ACB MCT (NOTE-2)	
SG200D2-MCT-A1	S 6X2 PRIMED



NOTES

GENERAL NOTES:

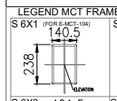
1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. ALL ELEVATIONS RELATE TO LOWEST ASTRONOMICAL TIDE (LAT) = 0.000.

NOTES:

1. THIS DOCUMENT IS VALID FOR TAGGING, SIZE AND LOCATION OF THE MCT.
2. THE MCT FRAMES ARE IN VENDOR SCOPE AND FIXED ON THE VENDOR EQUIPMENT ITEM SG-100D1,SG-200N1, DP-200N1, SG-200D2

LEGEND

LEGEND MCT FRAME



LEGEND PASSAGE FRAME

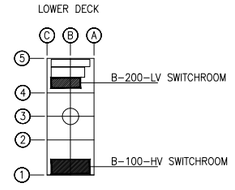


	HEIGHT in mm	WIDTH in mm
PASSAGE-1	100	300
PASSAGE-2	150	200
PASSAGE-3	100	200

MULTI CABLE TRANSIT

TAG	TAGGING
SIZE-MATERIAL-DEPTH	TYPICAL
EL.	ELEVATION

KEY PLAN



REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20104	ELECTRICAL EQUIPMENT LAYOUT - HV SWITCHROOM
123A90-DDL-EL-DL-20105	ELECTRICAL EQUIPMENT LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DD-20095	MCT COMPOSITION

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	23/07/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	12/04/24	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
ELECTRICAL MCT LAYOUT
LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:50
DRAWN SPS	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 18/07/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20115	SHEET 002	REV. 01

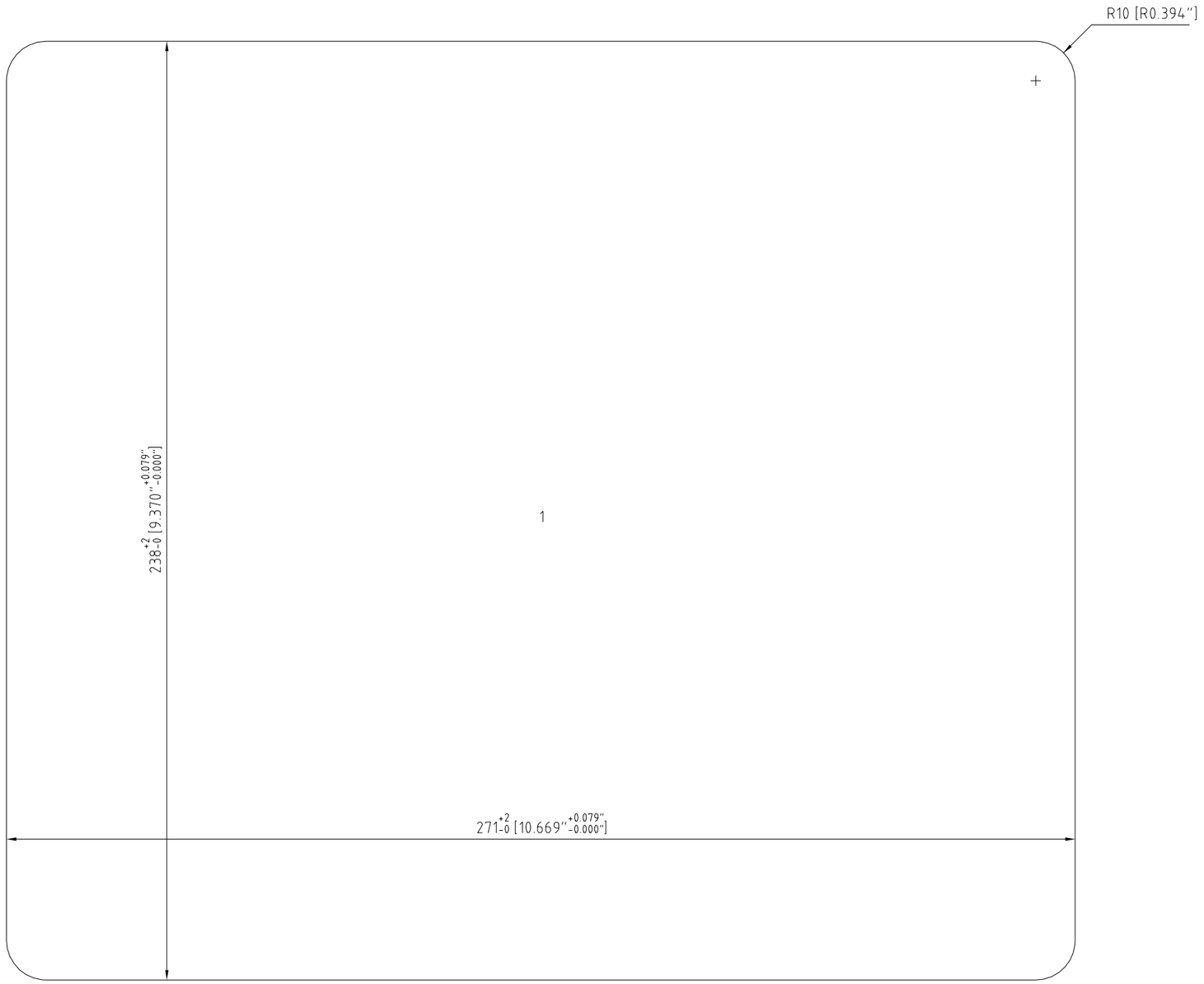
File Name : 123A90-DDL-EL-DL-20115

RTD Version No: 4.37.4.0

Drawing shows component layout according to design. Verification is needed to check if the configuration is valid for the application/certification intended.

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Cutout Detail

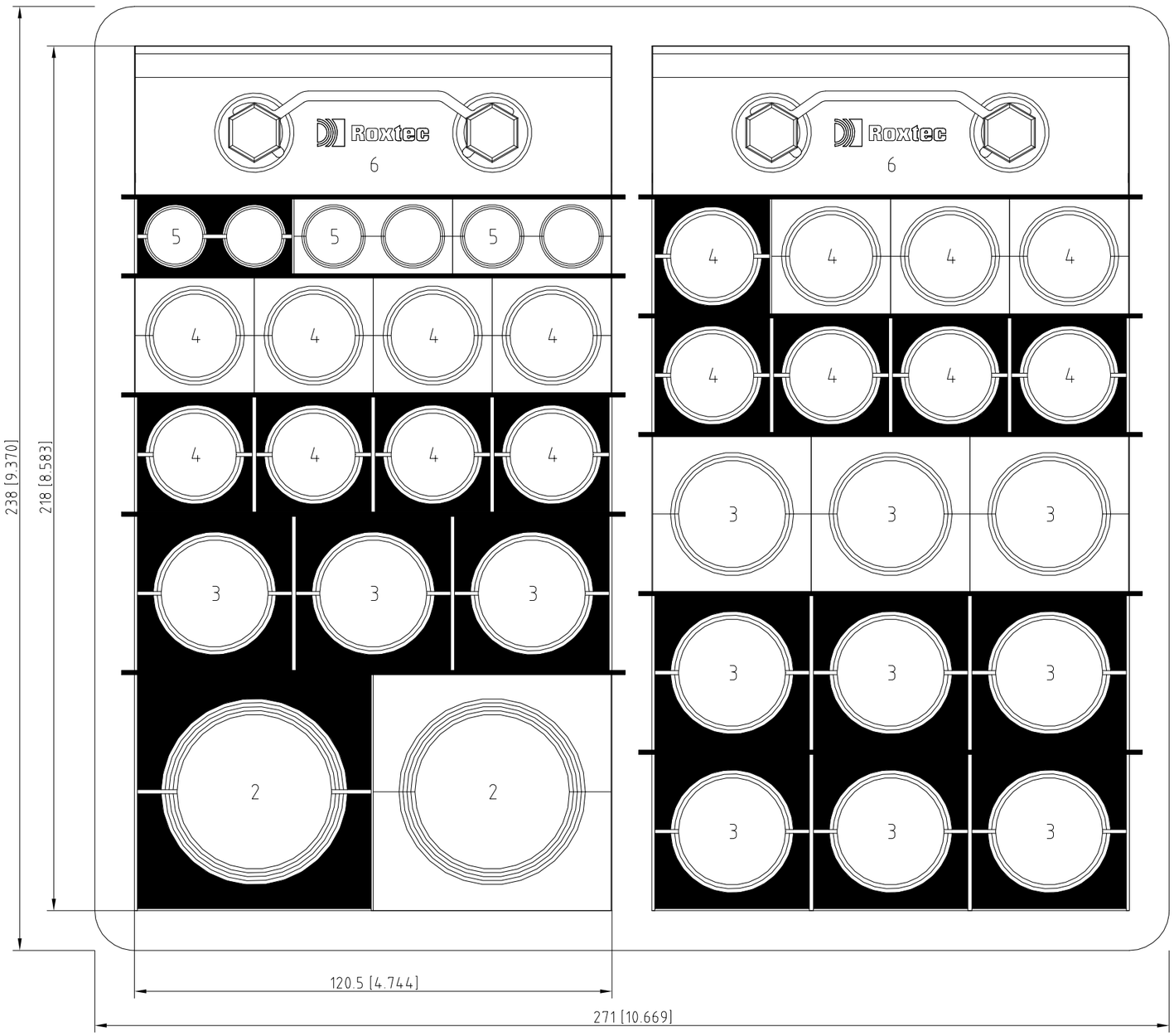
Frame: S 6x2 PRIMED Solution: 1

Item	Qty	Roxtec Packing Material mm ["]	Roxtec Art No	Weight Kg [lb]

Responsible: ARNESH	Created Date: 2024-07-10	Modify Date: 2024-07-17	Project: BLPH - ROS Location/ Sublocation	TotWeight: 12.1 [26.74]
Roxtec	Format: NTS		Transit name: E-MCT-204	Sheet No: 1/3
Client		Drawing number		Rev

RTD Version No: 4.37.4.0

CUTOUT TO FIT SOLUTION WELDING, 271x238 [10.669"x9.370"]



MODULE WITH PIPE | MODULE WITH CABLE | SPARE MODULE | SOLID MODULE

Detail Drawing

Solution: 1

Item	Qty	Roxtec Packing Material mm ["]	Roxtec Art No	Weight Kg [lb]
7	10	Stayplate 120 galv	ASP0001200018	0.1 [0.24]
6	2	Wedge 120 galv	ARW0001201018	0.8 [1.76]
5	3	RM 20W40 3.5-16.5 [0.138"-0.650"]	RM00120401000	0.1 [0.15]
4	16	RM 30 10-25 [0.394"-0.984"]	RM00100301000	0.1 [0.18]
3	12	RM 40 21.5-34.5 [0.846"-1.358"]	RM00100401000	0.1 [0.31]
2	2	RM 60 28-54 [1.102"-2.126"]	RM00100601000	0.3 [0.73]
1	1	S 6x2 PRIMED	S006000000212	5.6 [12.35]

Responsible	Created Date	Modify Date	Project	TotWeight
ARNESH	2024-07-10	2024-07-17	BLPH - ROS Location/ Sublocation	12.1 [26.74]
Roxtec	Format NTS		Transit name E-MCT-204	Sheet No 2/3
	Client	Drawing number		Rev

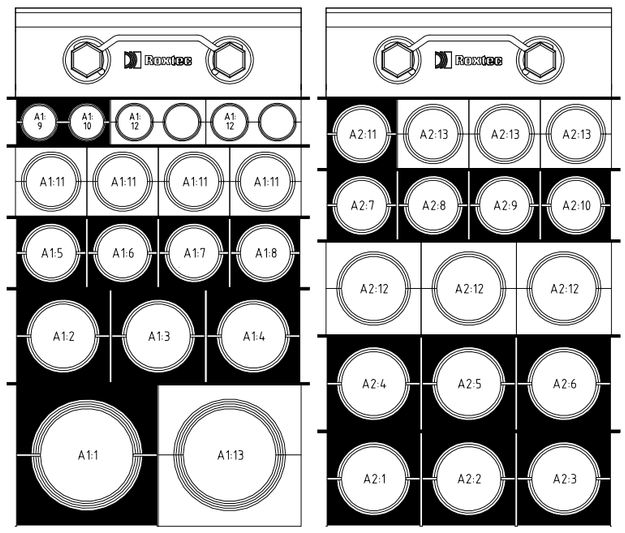
Drawing shows component layout according to design. Verification is needed to check if the configuration is valid for the application/certification intended.

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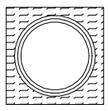
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A1 A2

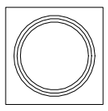
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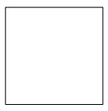


Pos	Cable ID	Name	Cable Type	Cable Category	OD (mm/ ["])	Module Type
A2:13						RM 30 10-25 [0.394"-0.984"]
A2:12						RM 40 21.5-34.5 [0.846"-1.358"]
A2:11	P-EJB-200N1-03-L2-01	Normal Lighting Lower Deck - Circuit No. 1	3G4	Power	14.3 [0.563"]	RM 30 10-25 [0.394"-0.984"]
A2:10	83010-CEL-N	Temporary Generator / Mobile Battery Pack	1C X 95	Power	17.3 [0.681"]	RM 30 10-25 [0.394"-0.984"]
A2:9	83010-CEL-L3	Temporary Generator / Mobile Battery Pack	1C X 95	Power	17.3 [0.681"]	RM 30 10-25 [0.394"-0.984"]
A2:8	83010-CEL-L2	Temporary Generator / Mobile Battery Pack	1C X 95	Power	17.3 [0.681"]	RM 30 10-25 [0.394"-0.984"]
A2:7	83010-CEL-L1	Temporary Generator / Mobile Battery Pack	1C X 95	Power	17.3 [0.681"]	RM 30 10-25 [0.394"-0.984"]
A2:6	83030-CEL	AC UPS PAS - 30min - Bypass	4G35	Power	27.4 [1.079"]	RM 40 21.5-34.5 [0.846"-1.358"]
A2:5	83029-CEL	AC UPS PAS - 30min - Line B	4G35	Power	27.4 [1.079"]	RM 40 21.5-34.5 [0.846"-1.358"]
A2:4	83028-CEL	AC UPS PAS - 30min - Line A	4G35	Power	27.4 [1.079"]	RM 40 21.5-34.5 [0.846"-1.358"]
A2:3	83026-CEL	HVAC panels - ITER	5G16	Power	24 [0.945"]	RM 40 21.5-34.5 [0.846"-1.358"]
A2:2	83025-CEL	HVAC panels - UPS Room	5G16	Power	24 [0.945"]	RM 40 21.5-34.5 [0.846"-1.358"]
A2:1	83020-CEL	Crane	5G16	Power	24 [0.945"]	RM 40 21.5-34.5 [0.846"-1.358"]
A1:13						RM 60 28-54 [1.102"-2.126"]
A1:12						RM 20W40 3.5-16.5 [0.138"-0.650"]
A1:11						RM 30 10-25 [0.394"-0.984"]
A1:10	83123-CEL	AC UPS F&G AUXILIARY	3G2.5	Power	13 [0.512"]	RM 20W40 3.5-16.5 [0.138"-0.650"]
A1:9	83122-CEL	AC UPS PAS AUXILIARY	3G2.5	Power	13 [0.512"]	RM 20W40 3.5-16.5 [0.138"-0.650"]
A1:8	84319-CEL	LV SWBD 800/460V Auxiliary	3G2.5	Power	15.5 [0.610"]	RM 30 10-25 [0.394"-0.984"]
A1:7	84318-CEL	LV Switchboard Auxiliary	3G2.5	Power	15.5 [0.610"]	RM 30 10-25 [0.394"-0.984"]
A1:6	84315-CEL	UCP - HVAC LV Room	3G2.5	Power	15.5 [0.610"]	RM 30 10-25 [0.394"-0.984"]
A1:5	83010-CEL-PE	Temporary Generator / Mobile Battery Pack	1C X 95	Power	14.5 [0.571"]	RM 30 10-25 [0.394"-0.984"]
A1:4	83033-CEL	AC UPS F&G - 8h - Bypass	4G35	Power	27.4 [1.079"]	RM 40 21.5-34.5 [0.846"-1.358"]
A1:3	83032-CEL	AC UPS F&G - 8h - Line B	4G35	Power	24.4 [0.961"]	RM 40 21.5-34.5 [0.846"-1.358"]
A1:2	83031-CEL	AC UPS F&G - 8h - Line A	4G35	Power	27.4 [1.079"]	RM 40 21.5-34.5 [0.846"-1.358"]
A1:1	83021-CEL	Welding Sockets (Top Deck) JB's	5G50	Power	35 [1.378"]	RM 60 28-54 [1.102"-2.126"]


MODULE WITH PIPE


MODULE WITH CABLE


SPARE MODULE

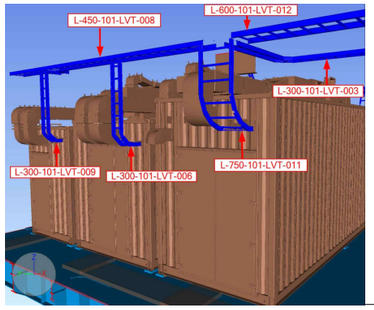

SOLID MODULE

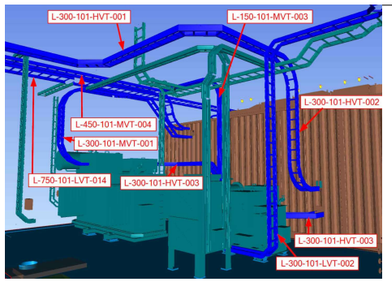
Responsible: ARNESH	Created Date: 2024-07-10	Modify Date: 2024-07-17	Project: BLPH - ROS	Location/ Sublocation	TotWeight: 12.1 [26.74]
Roxtec	Format: NTS		Transit name: E-MCT-204		Sheet No: 3/3
	Client		Drawing number		Rev

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Drawing shows component layout according to design. Verification is needed to check if the configuration is valid for the application/certification intended.
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DRAWING NO. 123A90-DDL-EL-DL-20108

REV. 01





L-750-101-LVT-013
W750 X H100mm
+27.078m
+3.768m T.O.S

L-450-101-LVT-005
W450 X H100mm
+26.660m
+3.350m T.O.S

L-300-101-MVT-006
W300 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-MVT-006
W300 X H100mm
+28.810/+30.190m
+5.500/6.880m T.O.S

L-300-101-LVT-007
W300 X H100mm
+28.810/+26.660m
+5.500/3.350m T.O.S

L-750-101-LVT-001
W750 X H100mm
+26.678m
+3.368m T.O.S

L-300-101-LVT-009
W300 X H100mm
+26.660m
+3.350m T.O.S

L-300-101-LVT-009
W300 X H100mm
+28.760/+26.660m
+5.450/3.350m T.O.S

L-300-101-LVT-006
W300 X H100mm
+26.660m
+3.350m T.O.S

L-300-101-LVT-006
W300 X H100mm
+28.760/+26.660m
+5.450/3.350m T.O.S

L-450-101-LVT-008
W450 X H100mm
+28.810m
+5.500m T.O.S

L-450-101-LVT-008
W450 X H100mm
+28.010/+28.810m
+4.700/5.500m T.O.S

L-600-101-LVT-012
W600 X H100mm
+28.010/+28.810m
+4.700/5.500m T.O.S

L-750-101-LVT-011
W750 X H100mm
+27.078m
+3.768m T.O.S

L-750-101-LVT-011
W750 X H100mm
+27.078/+28.010m
+3.768/4.700m T.O.S

L-750-101-LVT-001
W750 X H100mm
+25.335m
+2.025m T.O.S

L-300-101-LVT-003
W300 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-LVT-004
W300 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-LVT-004
W300 X H100mm
+28.810/+23.360m
+5.500/0.050m T.O.S

L-600-101-LVT-012
W600 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-LVT-002
W300 X H100mm
+23.480m
0.170m T.O.S

L-300-101-LVT-002
W300 X H100mm
+28.810/+23.480m
+5.500/0.170m T.O.S

L-300-101-MVT-007
W300 X H100mm
+27.210/+30.190m
+3.900/6.880m T.O.S

L-300-101-MVT-007
W300 X H100mm
+27.210m
+3.900m T.O.S

L-300-101-HVT-002
W300 X H150mm
+25.004/+28.810m
+1.694/5.500m T.O.S

L-300-101-HVT-002
W300 X H150mm
+25.004m
+1.694m T.O.S

L-150-101-MVT-003
W150 X H100mm
+23.510m
+0.200m T.O.S

L-300-101-HVT-003
W300 X H150mm
+24.205m
+0.895m T.O.S

L-300-101-HVT-003
W300 X H150mm
+25.410m
+2.100m T.O.S

L-150-101-MVT-003
W150 X H100mm
+28.810m
+5.500m T.O.S

L-750-101-LVT-015
W750 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-MVT-002
W300 X H100mm
+28.810m
+5.500m T.O.S

L-450-101-LVT-005
W450 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-MVT-002
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+0.338m T.O.S

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+28.810m
5.500m T.O.S

L-600-101-LVT-010
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+27.078m
+3.768m T.O.S

L-750-101-LVT-013
W750 X H100mm
+28.810m
+5.500m T.O.S

L-750-101-LVT-014
W750 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-MVT-005
W300 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-MVT-005
W300 X H100mm
+28.810/+23.600m
+5.500/0.290m T.O.S

L-300-101-HVT-001
W300 X H150mm
+28.810m
+5.50m T.O.S

L-300-101-HVT-001
W300 X H150mm
+23.385/+28.810m
+0.75/5.50m T.O.S

L-450-101-MVT-004
W450 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-HVT-001
W300 X H150mm
+28.810m
+5.500m T.O.S

L-300-101-MVT-001
W300 X H100mm
+25.800/+28.410m
+2.490/5.100m T.O.S

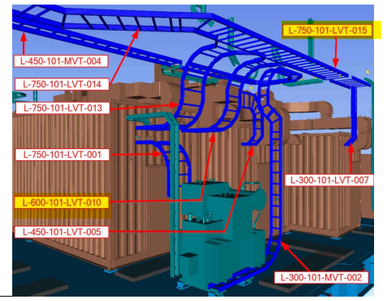
L-300-101-MVT-001
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+28.410m
+5.100m T.O.S

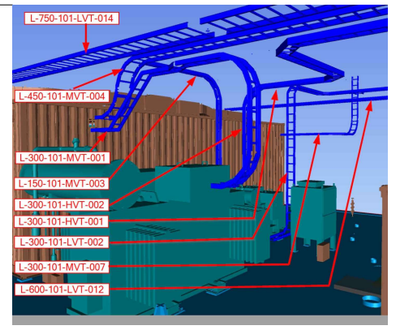
L-450-101-MVT-004
W450 X H100mm
+28.810m
+5.500m T.O.S

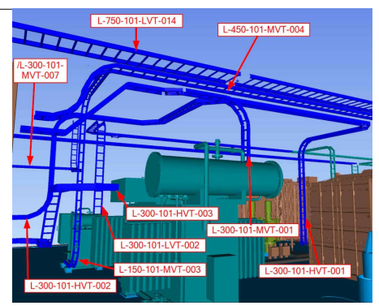
L-450-101-MVT-004
W450 X H100mm
+27.410m
+4.100m T.O.S

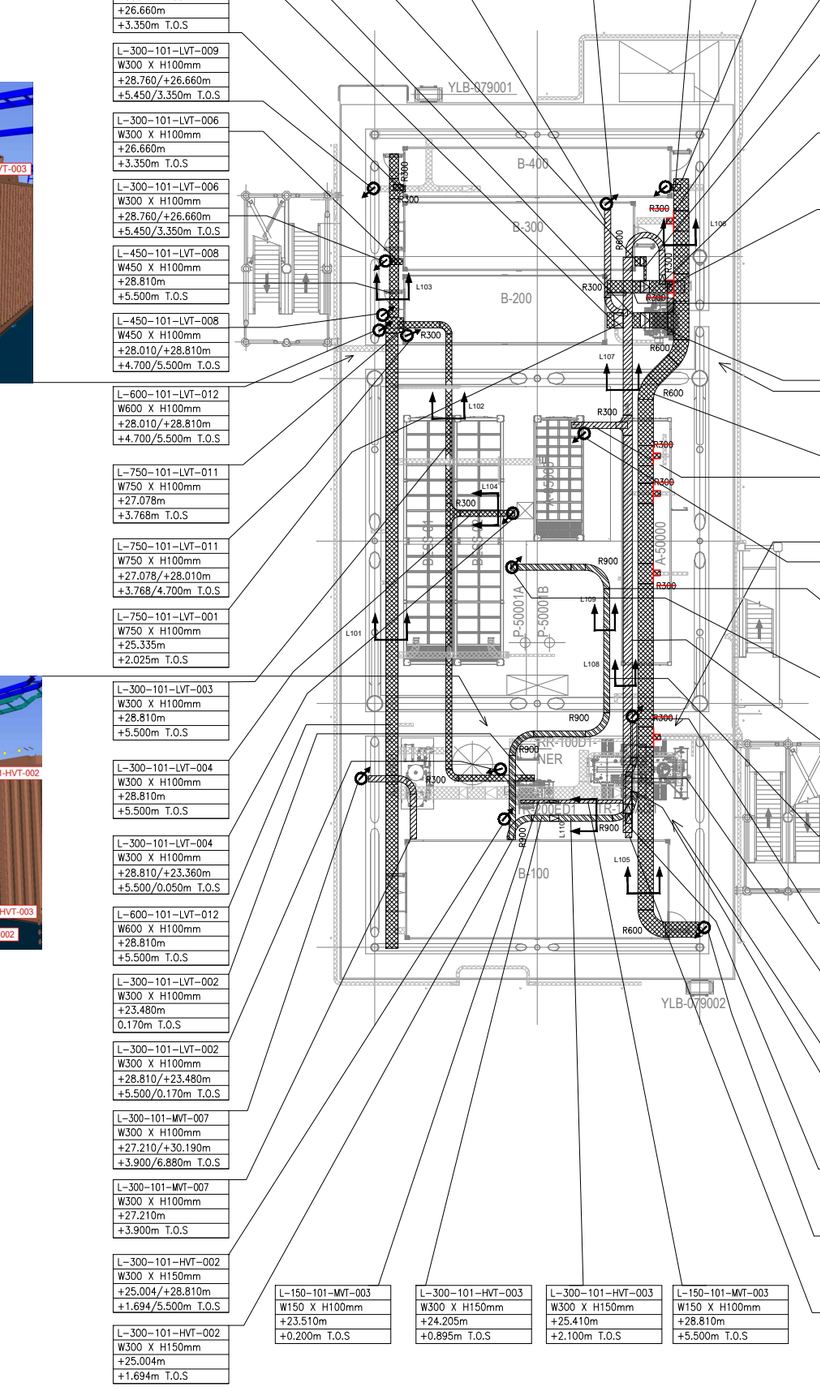
L-750-101-LVT-014
W750 X H100mm
+28.810/27.810m
+5.500/4.500m T.O.S

L-300-101-MVT-001
W300 X H100mm
+27.070m
+3.760m T.O.S





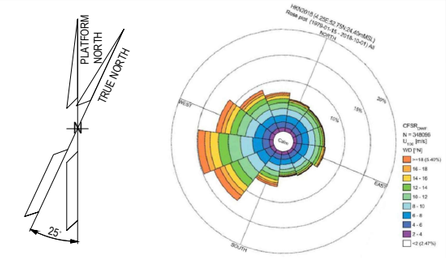




PRIMARY CABLE ROUTING

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. THIS DRAWING IS VALID ONLY FOR ELECTRICAL CABLE ROUTING LAYOUT.
4. A MINIMUM OF 20% CAPACITY IN EACH CABLE LADDER SHALL BE PROVIDED FOR FUTURE EXTENSION.
5. DRAWING SPLIT INTO MULTIPLY SHEETS FOR CLARITY.
6. FOR INSTALLATION DETAIL OF CABLE LADDER REFER TO DOC. 123A90-DDL-EL-DD-20093.
7. UNARMOURED CABLES PASSING OR ARRIVING IN A CLASSIFIED AREA WILL BE MECHANICALLY PROTECTED IN COMPLIANCE WITH THE REQUIREMENTS OF THE IEC 60079-14.
8. 50MM CABLE TRAYS ROUTES MAY BE MODIFIED DURING CONSTRUCTION WITHOUT OFFICIAL APPROVAL.

LEGEND

- ELECTRICAL 66 KV CABLE TRAY
- ELECTRICAL 6.6 KV CABLE TRAY
- ELECTRICAL LV CABLE TRAY
- CABLE TRAY ELEVATION CHANGE
- ELECTRICAL CABLE TRAY VERTICAL RAISE
- ELECTRICAL CABLE TRAY VERTICAL DROP
- L101 — CABLE TRAY SECTION
- TAG
- SIZE
- ELEVATION
- ELEVATION(T.O.S)

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20108**

REV.:	DATE:	SIGNATURE:
1_B	22/08/24	G.Randi

ROSETTI MARINO SpA

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-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-DL-20107	ELECTRICAL CABLES ROUTING LAYOUT - TOP DECK
123A90-DDL-EL-DL-20109	ELECTRICAL CABLES ROUTING LAYOUT - BELOW LOWER DECK
123A90-DDL-EL-DG-20125	LIGHTING & SOCKET CIRCUIT DIAGRAM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	30/07/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	27/06/24	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :

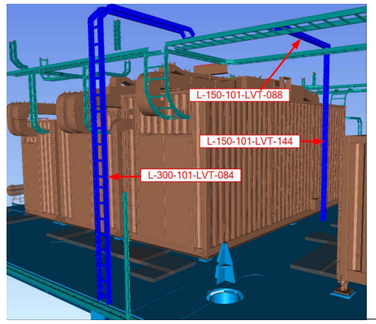
BASE LOAD POWER HUB (BLPH)
ELECTRICAL CABLES ROUTING LAYOUT
LOWER DECK

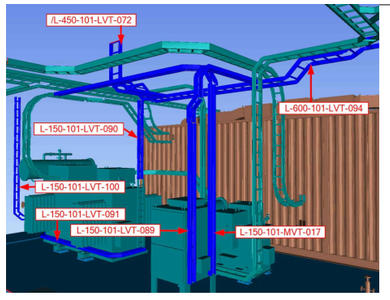
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN SPS	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 30/07/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20108	SHEET 01of18	REV. 01

File Name : 123A90-DDL-EL-DL-20108

DRAWING NO. 123A90-DDL-EL-DL-20108

REV. 01





L-300-101-LVT-112 | W300 X H100mm | +28.810/30.170m | +5.500/6.860m T.O.S

L-300-101-LVT-077 | W300 X H100mm | +28.810m | +5.500m T.O.S

L-300-101-LVT-078 | W300 X H100mm | +28.810m | +5.500m T.O.S

L-300-101-LVT-078 | W300 X H100mm | +29.060/30.170m | +5.750/6.860m T.O.S

L-150-101-LVT-086 | W150 X H100mm | +23.300m | −0.010m T.O.S

L-300-101-LVT-077 | W300 X H100mm | +28.810/30.170m | +5.500/6.860m T.O.S

L-300-101-LVT-078 | W300 X H100mm | +29.060m | +5.750m T.O.S

L-300-101-LVT-073 | W300 X H100mm | +28.810/+30.210m | +5.500/6.900m T.O.S

L-300-101-LVT-073 | W300 X H100mm | +28.810m | +5.500m T.O.S

L-150-101-LVT-086 | W150 X H100mm | +22.700m | −0.610m T.O.S

L-150-101-LVT-086 | W150 X H100mm | +23.300m | −0.010m T.O.S

L-150-101-LVT-083 | W150 X H100mm | +23.300m | −0.010m T.O.S

L-150-101-LVT-106 | W150 X H100mm | +28.988/30.188m | +5.678/6.878m T.O.S

L-300-101-LVT-084 | W300 X H100mm | +29.010m | +5.700m T.O.S

L-300-101-LVT-096 | W300 X H100mm | +28.960/24.400m | +5.650/1.090m T.O.S

L-300-101-LVT-084 | W300 X H100mm | +28.810m | +5.500m T.O.S

L-150-101-LVT-102 | W150 X H100mm | +28.938/30.188m | +5.628/6.878m T.O.S

L-300-101-LVT-084 | W300 X H100mm | +29.010/+23.298m | +5.700/0.012m T.O.S

L-150-101-LVT-103 | W150 X H100mm | +28.908/30.208m | +5.598/6.898m T.O.S

L-150-101-LVT-092 | W150 X H100mm | +27.178m | +3.868m T.O.S

L-150-101-LVT-088 | W150 X H100mm | +29.010m | +5.700m T.O.S

L-150-101-LVT-088 | W150 X H100mm | +28.810m | +5.500m T.O.S

L-150-101-LVT-092 | W150 X H100mm | +27.278m | +3.968m T.O.S

L-150-101-LVT-144 | W150 X H100mm | +28.930/24.180m | +5.620/0.870m T.O.S

L-150-101-LVT-092 | W150 X H100mm | +27.278/23.728m | +3.968/0.418m T.O.S

L-300-101-LVT-095 | W300 X H100mm | +28.888/30.188m | +5.578/6.878m T.O.S

L-300-101-LVT-068 | W300 X H100mm | +28.810m | +5.500m T.O.S

L-300-101-LVT-068 | W300 X H100mm | +29.060m | +5.750m T.O.S

L-150-101-LVT-093 | W150 X H100mm | +28.810/26.400m | +5.500/3.090m T.O.S

L-150-101-LVT-099 | W150 X H100mm | +28.810/24.000m | +5.500/0.690m T.O.S

L-150-101-LVT-139 | W150 X H100mm | +26.280 | +2.970m T.O.S

L-300-101-LVT-068 | W300 X H100mm | +29.060m/+23.500 | +5.750/0.190m T.O.S

L-150-101-LVT-087 | W150 X H100mm | +28.810/23.390m | +5.500/0.080m T.O.S

L-150-101-LVT-138 | W150 X H100mm | +26.280 | +2.970m T.O.S

L-150-101-LVT-105 | W150 X H100mm | +28.810/30.188m | +5.500/6.878m T.O.S

L-300-101-LVT-070 | W300 X H100mm | +23.410m | +0.100m T.O.S

L-150-101-LVT-146 | W150 X H100mm | +26.280/24.520m | +2.970/1.210m T.O.S

L-150-101-LVT-083 | W150 X H100mm | +23.300/22.860m | −0.010/0.450m T.O.S

L-150-101-LVT-081 | W150 X H100mm | +22.680m | −0.630m T.O.S

L-300-101-LVT-069 | 300X100mm | +29.060m | +5.750m T.O.S

L-300-101-LVT-071 | W300 X H100mm | +23.410m | +0.100m T.O.S

L-150-101-LVT-101 | W150 X H100mm | +28.810/30.188m | +5.500/6.878m T.O.S

L-300-101-LVT-069 | 300X100mm | +29.060/23.610m | +5.750/0.300m T.O.S

L-150-101-LVT-101 | W150 X H100mm | +28.810m | +5.500m T.O.S

L-300-101-LVT-080 | W300 X H100mm | +22.680m | −0.630m T.O.S

L-300-101-LVT-109 | W300 X H100mm | +23.410m | +0.100m T.O.S

L-300-101-LVT-079 | W300 X H100mm | +28.810/22.940m | +5.500/−0.370m T.O.S

L-150-101-LVT-097 | W150 X H100mm | +29.080m | +5.770m T.O.S

L-150-101-LVT-143 | W150 X H100mm | +29.080/24.185m | +5.770/0.875m T.O.S

L-150-101-LVT-082 | W150 X H100mm | +22.680m | −0.630m T.O.S

L-150-101-LVT-089 | W150 X H100mm | +28.410/23.860m | +5.100/0.550m T.O.S

L-150-101-LVT-089 | W150 X H100mm | +28.410m | +5.100m T.O.S

L-150-101-LVT-082 | W150 X H100mm | +23.300m | −0.010m T.O.S

L-300-101-LVT-098 | W300 X H100mm | +28.660/24.000m | +5.350/0.690m T.O.S

L-150-101-LVT-104 | W150 X H100mm | +28.938/30.188m | +5.628/6.878m T.O.S

L-300-101-LVT-076 | W300 X H100mm | +28.810m | +5.500m T.O.S

L-150-101-LVT-100 | W150 X H100mm | +28.710/24.260m | +5.400/0.950m T.O.S

L-600-101-LVT-094 | W600 X H100mm | +28.970m | +5.660m T.O.S

L-600-101-LVT-094 | W600 X H100mm | +28.810m | +5.500m T.O.S

L-150-101-LVT-091 | W150 X H100mm | +23.600m | +0.290m T.O.S

L-600-101-LVT-094 | W600 X H100mm | +28.810m | +5.500m T.O.S

L-600-101-LVT-094 | W600 X H100mm | +28.410m | +5.100m T.O.S

L-300-101-LVT-074 | W300 X H100mm | +28.810/26.810m | +5.500/3.500m T.O.S

L-150-101-LVT-085 | W150 X H100mm | +22.598m | −0.712m T.O.S

L-450-101-LVT-072 | W450 X H100mm | +28.410/30.219m | +5.100/6.909m T.O.S

L-450-101-LVT-075 | W300 X H100mm | +27.810/26.810m | +4.500/3.500m T.O.S

L-150-101-MVT-017 | W150 X H100mm | +28.410/23.860m | +5.100/0.550m T.O.S

L-150-101-LVT-108 | W150 X H100mm | +23.300m | −0.010m T.O.S

L-150-101-LVT-108 | W150 X H100mm | +22.598m | −0.712m T.O.S

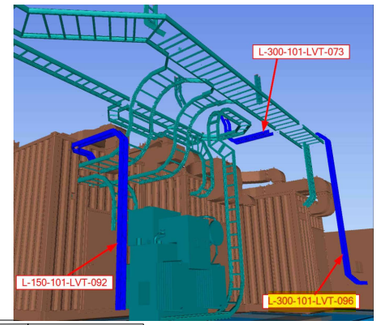
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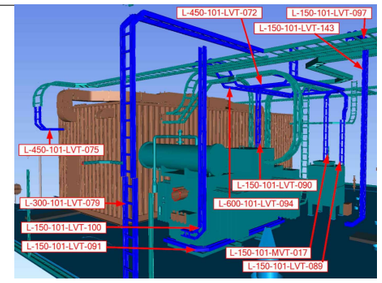
L-150-101-MVT-017 | W150 X H100mm | +28.410m | +5.100m T.O.S

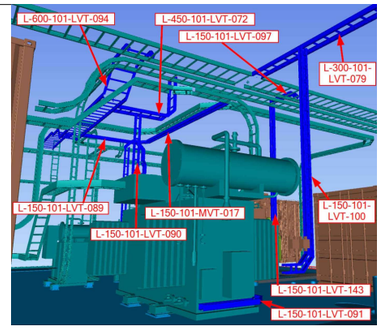
L-150-101-LVT-085 | W150 X H100mm | +23.300m | −0.010m T.O.S

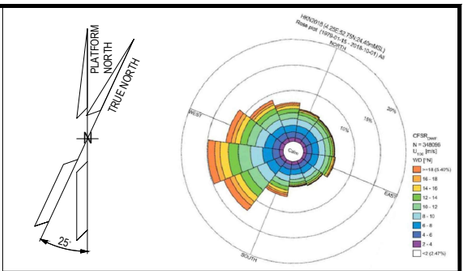
L-150-101-LVT-090 | W150 X H100mm | +28.510/23.860m | +5.200/0.550m T.O.S

L-600-101-LVT-094 | W600 X H100mm | +29.110m | +5.100m T.O.S









NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. THIS DRAWING IS VALID ONLY FOR ELECTRICAL CABLE ROUTING LAYOUT.
4. A MINIMUM OF 20% CAPACITY IN EACH CABLE LADDER SHALL BE PROVIDED FOR FUTURE EXTENSION.
5. DRAWING SPLIT INTO MULTIPLY SHEETS FOR CLARITY.
6. FOR INSTALLATION DETAIL OF CABLE LADDER REFER TO DOC. 123A90-DDL-EL-DD-20093.
7. UNARMOURED CABLES PASSING OR ARRIVING IN A CLASSIFIED AREA WILL BE MECHANICALLY PROTECTED IN COMPLIANCE WITH THE REQUIREMENTS OF THE IEC 60079-14.
8. 50MM CABLE TRAYS ROUTES MAY BE MODIFIED DURING CONSTRUCTION WITHOUT OFFICIAL APPROVAL.

LEGEND

- ELECTRICAL 66 KV CABLE TRAY
- ELECTRICAL 6.6 KV CABLE TRAY
- ELECTRICAL LV CABLE TRAY
- CABLE TRAY ELEVATION CHANGE
- ELECTRICAL CABLE TRAY VERTICAL RAISE
- ELECTRICAL CABLE TRAY VERTICAL DROP
- L101 — CABLE TRAY SECTION
- TAG
- SIZE
- ELEVATION
- ELEVATION(T.O.S)

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20108**

REV.:	DATE:	SIGNATURE:
1_B	22/08/24	G.Randi

ROSETTI MARINO SpA

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-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-DL-20107	ELECTRICAL CABLES ROUTING LAYOUT - TOP DECK
123A90-DDL-EL-DL-20109	ELECTRICAL CABLES ROUTING LAYOUT - BELOW LOWER DECK
123A90-DDL-EL-DG-20125	LIGHTING & SOCKET CIRCUIT DIAGRAM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	30/07/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	27/06/24	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
ELECTRICAL CABLES ROUTING LAYOUT
LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN SPS	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 30/07/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20108	SHEET 02of18	REV. 01

File Name : 123A90-DDL-EL-DL-20108

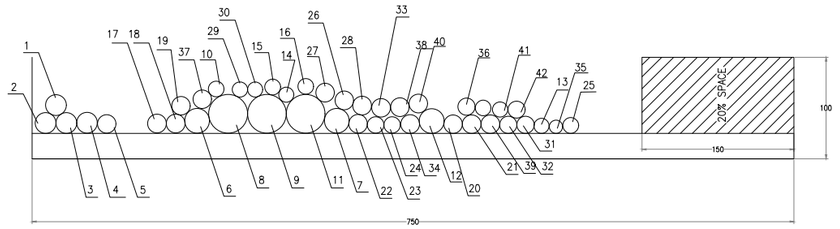
SECONDARY CABLE ROUTING
PLAN ON LOWER DECK
EL+23.310 T.O.S

DRAWING NO. 123A90-DDL-EL-DL-20108

REV. 01

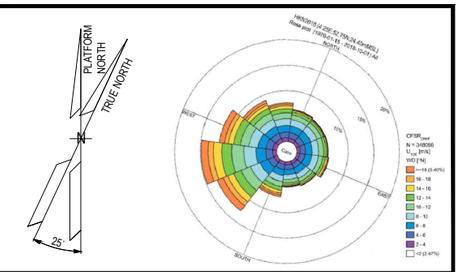
△01

L106 (L-750-101-LVT-015)



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83010-CEL-L1	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
2	83010-CEL-L2	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
3	83010-CEL-L3	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
4	83010-CEL-N	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
5	83010-CEL-PE	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P6	1C x 95
6	83012-CEL	FUEL CELL AUXILIARY LOAD	SG-200N1	A-80000	POWER CABLE	P4	5G16
7	83020-CEL	CRANE	SG-200N1	JB-200E3	POWER CABLE	P4	5G16
△01 8	83021-CEL-03	WELDING SOCKETS (TOP DECK) JB'S	JB-200E6	JB-200E7	POWER CABLE	P4	5G50
9	83022-CEL	WELDING SOCKET (LOWER DECK)	SG-200N1	JB-200E4	POWER CABLE	P4	5G50
10	72213-CEL	INTERMEDIATE OBSTRUCTION RED LIGHTS	EJB-200F2-02	EOL-200-04	POWER CABLE	P5	3G2.5
△01 11	83022-CEL-03	WELDING SOCKETS (LOWER DECK) JB'S	JB-200E4	JB-200E5	POWER CABLE	P4	5G50
12	83026-CEL	HVAC PANEL – ITER	SG-200N1	B400-HSB-001	POWER CABLE	P4	5G16
13	72210-CEL	WAVE OFF STATUS LIGHT	NC-200F2	ESL-200-01	POWER CABLE	P5	2C X 2.5
14	72202-CEL	NAV AIDS MAIN YELLOW LANTERNS	NC-200F2	EML-200-02	POWER CABLE	P5	2C X 2.5
15	72203-CEL	TOP OBSTRUCTION LIGHTS JUNCTION BOX	NC-200F2	EJB-200F2-01	POWER CABLE	P5	3G2.5
16	72211-CEL	INTERMEDIATE OBSTRUCTION LIGHTS JUNCTION BOX	NC-200F2	EJB-200F2-02	POWER CABLE	P5	3G2.5
17	84301-CEL	SIS – CONTROLLER AND I/O CABINET – LINE A	DP-200F3	B400-SIS-001	POWER CABLE	P5	3G2.5
18	84302-CEL	SIS – CONTROLLER AND I/O CABINET – LINE B	DP-200F3	B400-SIS-001	POWER CABLE	P5	3G2.5
19	84303-CEL	PCS – CONTROLLER AND I/O CABINET – LINE A	DP-200F3	B400-PCS-001	POWER CABLE	P5	3G2.5
20	84304-CEL	PCS – CONTROLLER AND I/O CABINET – LINE B	DP-200F3	B400-PCS-001	POWER CABLE	P5	3G2.5
21	84305-CEL	EMCS – CONTROLLER AND I/O CABINET – LINE A	DP-200F3	B400-EMCS-001	POWER CABLE	P5	3G2.5
22	84306-CEL	EMCS – CONTROLLER AND I/O CABINET – LINE B	DP-200F3	B400-EMCS-001	POWER CABLE	P5	3G2.5
23	84307-CEL	SERVER CABINET ITER – LINE A	DP-200F3	B400-SRV-001	POWER CABLE	P5	3G6
24	84308-CEL	SERVER CABINET ITER – LINE B	DP-200F3	B400-SRV-001	POWER CABLE	P5	3G6
△01 25	P-EJB-200N1-08-L1-04	EMERGENCY LIGHTING UPPER DECK	DP-200N1	EJB-200N1-08-L1-04	POWER CABLE	P4	4G4_E

POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
27	84313-CEL	UCP – WATER PACKAGE	DP-200F3	JB-500F8	POWER CABLE	P5	3G2.5
28	84314-CEL	UCP – HVAC HV ROOM	DP-200F3	B100-HSB-001	POWER CABLE	P5	3G2.5
29	P-EJB-200N1-02-L1-01	NORMAL LIGHTING UPPER DECK	DP-200N1	EJB-200N1-02-L1-01	POWER CABLE	P4	3G4
30	P-EJB-200N1-03-L2-01	NORMAL LIGHTING LOWER DECK	DP-200N1	EJB-200N1-03-L2-01	POWER CABLE	P4	3G4
△01 31	P-EJB-200N1-02-L1-02	NORMAL LIGHTING JB	EJB-200N1-02-L1-01	EJB-200N1-02-L1-02	POWER CABLE	P5	3G4
32	P-EJB-200N1-02-L1-19	NORMAL LIGHTING JB	EJB-200N1-02-L1-01	EJB-200N1-02-L1-19	POWER CABLE	P5	3G4
33	P-EJB-200N1-08-L1-16	EMERGENCY LIGHTING JB	EJB-200N1-08-L1-04	EJB-200N1-08-L1-16	POWER CABLE	P5	4G4_E
34	P-EJB-200N1-08-L1-01	EMERGENCY LIGHTING JB	EJB-200N1-08-L1-04	EJB-200N1-08-L1-01	POWER CABLE	P5	4G4_E
35	P-ELF-200N1-03-L2-01	NORMAL LIGHTING FIXTURE	EJB-200N1-03-L2-01	ELF-200N1-03-L2-01	POWER CABLE	P4	3G2.5
36	P-EPH-200N1-01	TWILIGHT RELAY SENSOR	DP-200N1	EPH-200N1-01	POWER CABLE	P5	3G4
37	84401-CEL	FGS FIRE & GAS PANEL – LINE A	DP-200F4	B400-FGS-001	POWER CABLE	P5	3G2.5
38	84402-CEL	FGS FIRE & GAS PANEL – LINE B	DP-200F4	B400-FGS-001	POWER CABLE	P5	3G2.5
39	84403-CEL	SYSTEM SERVER / NETWORK CABINET – LINE A	DP-200F4	B400-NET-001	POWER CABLE	P5	3G2.5
40	84404-CEL	SYSTEM SERVER / NETWORK CABINET – LINE B	DP-200F4	B400-NET-001	POWER CABLE	P5	3G2.5
△01 41	P-EJB-200N1-03-L2-02	NORMAL LIGHTING JB	EJB-200N1-03-L2-01	EJB-200N1-03-L2-02	POWER CABLE	P4	3G4
42	P-ELF-200N1-09-L2-11	EMERGENCY LIGHTING FIXTURE	ELF-200N1-09-L2-02	ELF-200N1-09-L2-11	POWER CABLE	P4	4G2.5_E
43							
44							



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.

CABLE TYPE DETAILS

P2 – SINGLE CORE, 3.6/6 (7.2) KV, CU/EPR/CU/LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.
P3 – SINGLE CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH, PVC, UNARMOURED CABLE, FLAME RETARDANT
P4 – MULTI CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.
P5 – MULTI CORE, 0.6/1 KV, FIRE RESISTANT, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, GALVANIZED STEEL WIRE ARMOURED CABLE, FLAME RETARDANT.
P7 – MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.
P8 – MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, CU SCREEN, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.

LEGEND

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20108**

REV.:	DATE:	SIGNATURE:
1_B	22/08/24	G.Randi

ROSETTI MARINO SpA

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-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-DL-20107	ELECTRICAL CABLES ROUTING LAYOUT - TOP DECK
123A90-DDL-EL-DL-20109	ELECTRICAL CABLES ROUTING LAYOUT - BELOW LOWER DECK
123A90-DDL-EL-DG-20125	LIGHTING & SOCKET CIRCUIT DIAGRAM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	30/07/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	27/06/24	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
ELECTRICAL CABLES ROUTING LAYOUT
LOWER DECK

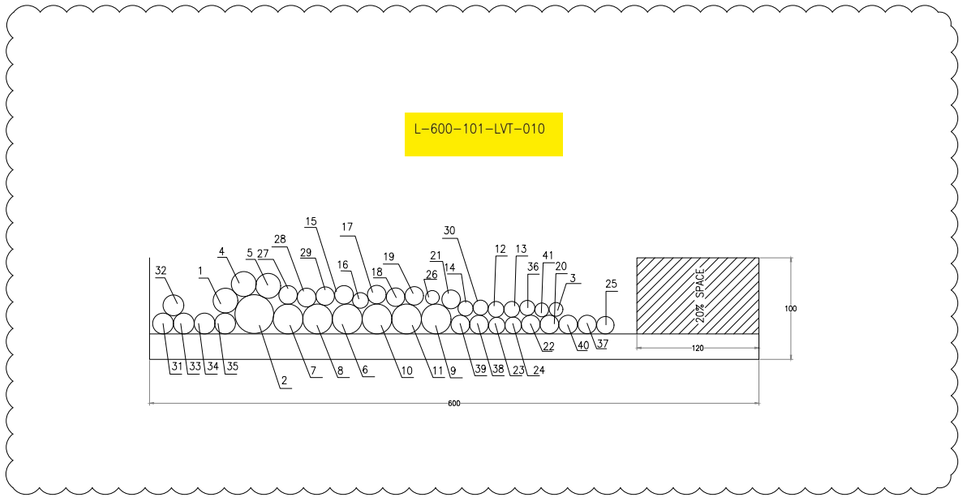
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:50
DRAWN SPS	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 30/07/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20108	SHEET 05of18	REV. 01

File Name : 123A90-DDL-EL-DL-20108

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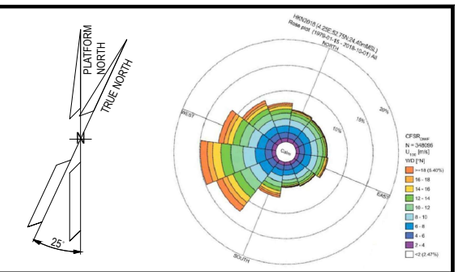
REV. 01

01



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83020-CEL	CRANE	SG-200N1	JB-200E3	POWER CABLE	P4	5G16
2	83021-CEL	WELDING SOCKET (TOP DECK)	SG-200N1	JB-200E6	POWER CABLE	P4	5G50
01 3	83123-CEL	AC UPS F&G AUXILIARY	DP-200N1	UP-200F4	POWER CABLE	P4	3G2.5
4	83025-CEL	HVAC PANEL - UPS ROOM	SG-200N1	B300-HSB-001	POWER CABLE	P4	5G16
5	83026-CEL	HVAC PANEL - ITER	SG-200N1	B400-HSB-001	POWER CABLE	P4	5G16
6	83028-CEL	AC UPS PAS - 30MIN - LINE A	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
7	83029-CEL	AC UPS PAS - 30MIN - LINE B	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
8	83030-CEL	AC UPS PAS - 30MIN - BYPASS	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
9	83031-CEL	AC UPS F&G - 8H - LINE A	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
10	83032-CEL	AC UPS F&G - 8H - LINE B	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
11	83033-CEL	AC UPS F&G - 8H - BYPASS	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
01 12	84318-CEL	LV SWITCHBOARD AUXILIARY	DP-200F3	SG-200N1	POWER CABLE	P5	3G2.5
13	84319-CEL	LV SWBD 800/460V AUXILIARY	DP-200F3	SG-200D2	POWER CABLE	P5	3G2.5
14	72202-CEL	NAV AIDS MAIN YELLOW LANTERNS	NC-200F2	EML-200-02	POWER CABLE	P5	2C X 2.5
15	72203-CEL	TOP OBSTRUCTION LIGHTS JUNCTION BOX	NC-200F2	EJB-200F2-01	POWER CABLE	P5	3G2.5
16	72211-CEL	INTERMEDIATE OBSTRUCTION LIGHTS JUNCTION BOX	NC-200F2	EJB-200F2-02	POWER CABLE	P5	3G2.5
17	84301-CEL	SIS - CONTROLLER AND I/O CABINET - LINE A	DP-200F3	B400-SIS-001	POWER CABLE	P5	3G2.5
18	84302-CEL	SIS - CONTROLLER AND I/O CABINET - LINE B	DP-200F3	B400-SIS-001	POWER CABLE	P5	3G2.5
19	84303-CEL	PCS - CONTROLLER AND I/O CABINET - LINE A	DP-200F3	B400-PCS-001	POWER CABLE	P5	3G2.5
20	84304-CEL	PCS - CONTROLLER AND I/O CABINET - LINE B	DP-200F3	B400-PCS-001	POWER CABLE	P5	3G2.5
21	84305-CEL	EMCS - CONTROLLER AND I/O CABINET - LINE A	DP-200F3	B400-EMCS-001	POWER CABLE	P5	3G2.5
22	84306-CEL	EMCS - CONTROLLER AND I/O CABINET - LINE B	DP-200F3	B400-EMCS-001	POWER CABLE	P5	3G2.5
23	84307-CEL	SERVER CABINET ITER - LINE A	DP-200F3	B400-SRV-001	POWER CABLE	P5	3G6
24	84308-CEL	SERVER CABINET ITER - LINE B	DP-200F3	B400-SRV-001	POWER CABLE	P5	3G6
01 25	P-EPH-200N1-01	TWILIGHT RELAY SENSOR	DP-200N1	EPH-200N1-01	POWER CABLE	P5	3G4

POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
01 26	P-ELF-200N1-03-L2-01	NORMAL LIGHTING FIXTURE	EJB-200N1-03-L2-01	ELF-200N1-03-L2-01	POWER CABLE	P4	3G2.5
27	84313-CEL	UCP - WATER PACKAGE	DP-200F3	CP-500F01	POWER CABLE	P5	3G2.5
28	84314-CEL	UCP - HVAC HV ROOM	DP-200F3	B100-HSB-001	POWER CABLE	P5	3G2.5
29	84315-CEL	UCP - HVAC LV ROOM	DP-200F3	B200-HSB-001	POWER CABLE	P5	3G2.5
01 30	P-EJB-200N1-03-L2-01	NORMAL LIGHTING LOWER DECK	DP-200N1	EJB-200N1-03-L2-01	POWER CABLE	P4	3G4
31	83010-CEL-L1	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
32	83010-CEL-L2	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
33	83010-CEL-L3	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
34	83010-CEL-N	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
35	83010-CEL-PE	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P6	1C x 95
36	72210-CEL	WAVE OFF STATUS LIGHT	NC-200F2	ESL-200-01	POWER CABLE	P5	2C X 2.5
37	84401-CEL	FGS FIRE & GAS PANEL - LINE A	DP-200F4	B400-FGS-001	POWER CABLE	P5	3G2.5
38	84402-CEL	FGS FIRE & GAS PANEL - LINE B	DP-200F4	B400-FGS-001	POWER CABLE	P5	3G2.5
39	84403-CEL	SYSTEM SERVER / NETWORK CABINET - LINE A	DP-200F4	B400-NET-001	POWER CABLE	P5	3G2.5
40	84404-CEL	SYSTEM SERVER / NETWORK CABINET - LINE B	DP-200F4	B400-NET-001	POWER CABLE	P5	3G2.5
41	83122-CEL	AC UPS PAS AUXILIARY	DP-200N1	UP-200F3	POWER CABLE	P4	3G2.5



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.

CABLE TYPE DETAILS

P2 – SINGLE CORE, 3.6/6 (7.2) KV, CU/EPR/CU/LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.
P3 – SINGLE CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH, PVC, UNARMOURED CABLE, FLAME RETARDANT
P4 – MULTI CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.
P5 – MULTI CORE, 0.6/1 KV, FIRE RESISTANT, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, GALVANIZED STEEL WIRE ARMOURED CABLE, FLAME RETARDANT.
P7 – MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.
P8 – MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, CU SCREEN, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.

LEGEND

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20108**

REV.:	DATE:	SIGNATURE:
1_B	22/08/24	G.Randi

ROSETTI MARINO SpA

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-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-DL-20107	ELECTRICAL CABLES ROUTING LAYOUT - TOP DECK
123A90-DDL-EL-DL-20109	ELECTRICAL CABLES ROUTING LAYOUT - BELOW LOWER DECK
123A90-DDL-EL-DG-20125	LIGHTING & SOCKET CIRCUIT DIAGRAM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	30/07/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	27/06/24	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
ELECTRICAL CABLES ROUTING LAYOUT
LOWER DECK

CONTRACT NO./TITLE	CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE 1:50
DRAWN SPS	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 30/07/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20108	SHEET 06of18	REV. 01

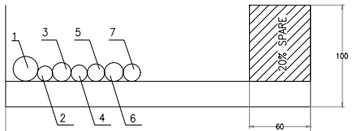
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DRAWING NO. 123A90-DDL-EL-DL-20108

REV. 01

01

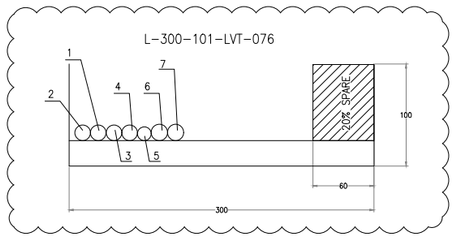
L-300-101-LVT-073



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83012-CEL	FUEL CELL AUXILIARY LOAD	SG-200N1	A-80000	POWER CABLE	P4	5G16
2	P-EJB-200N1-02-L1-01	NORMAL LIGHTING UPPER DECK	DP-200N1	EJB-200N1-02-L1-01	POWER CABLE	P4	3G4
3	P-EJB-200N1-08-L1-01	EMERGENCY LIGHTING JB	EJB-200N1-08-L1-04	EJB-200N1-08-L1-01	POWER CABLE	P5	4G4_E
4	P-EJB-200N1-08-L1-04	EMERGENCY LIGHTING JB	DP-200N1	EJB-200N1-08-L1-04	POWER CABLE	P4	4G4_E
5	P-EJB-200N1-02-L1-02	NORMAL LIGHTING JB	EJB-200N1-02-L1-01	EJB-200N1-02-L1-02	POWER CABLE	P5	3G4
6	P-EJB-200N1-08-L1-16	EMERGENCY LIGHTING JB	EJB-200N1-08-L1-04	EJB-200N1-08-L1-16	POWER CABLE	P5	4G4_E
7	P-EJB-200N1-02-L1-19	NORMAL LIGHTING JB	EJB-200N1-02-L1-01	EJB-200N1-02-L1-19	POWER CABLE	P5	3G4

01

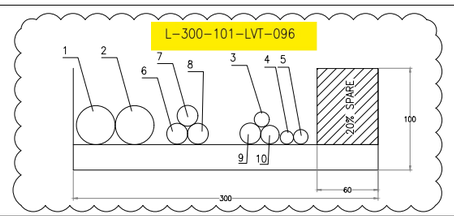
L-300-101-LVT-076



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83011-CEC	6.6KV HV SWITCHGEAR	CP-200ED1A	SG-100D1	CONTROL CABLE	P7	7C X 1.5
2	83012-CEC	6.6KV HV SWITCHGEAR	CP-200ED1A	SG-100D1	CONTROL CABLE	P7	7C X 1.5
3	83013-CEC	6.6KV HV SWITCHGEAR	CP-200ED1A	SG-100D1	CONTROL CABLE	P7	7C X 1.5
4	83014-CEC	6.6KV HV SWITCHGEAR	CP-200ED1A	SG-100D1	CONTROL CABLE	P7	7C X 1.5
5	P-ELF-200N1-03-L2-03	NORMAL LIGHTING FIXTURE	EJB-200N1-03-L2-03	ELF-200N1-03-L2-03	POWER CABLE	P4	3G2.5
6	P-EJB-200N1-09-L2-02	EMERGENCY LIGHTING JB	EJB-200N1-09-L2-04	EJB-200N1-09-L2-02	POWER CABLE	P4	4G4_E
7	P-ELS-200N1-09-L2-01	LOCAL SWITCH	EJB-200N1-09-L2-04	ELS-200N1-09-L2-01	POWER CABLE	P4	4G4_E

01

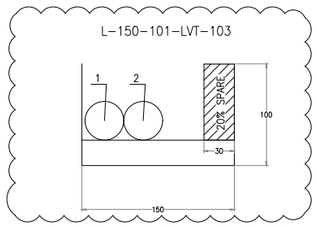
L-300-101-LVT-096



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83022-CEL	WELDING SOCKETS (LOWER DECK) JB'S	SG-200N1	JB-200E4 /JB-200E5	POWER CABLE	P4	5G50
2	83022-CEL-03	WELDING SOCKETS (LOWER DECK) JB'S	JB-200E4	JB-200E5	POWER CABLE	P4	5G50
3	P-EJB-200N1-03-L2-01	NORMAL LIGHTING LOWER DECK	DP-200N1	EJB-200N1-03-L2-01	POWER CABLE	P4	3G4
4	P-ELF-200N1-03-L2-01	NORMAL LIGHTING FIXTURE	EJB-200N1-03-L2-01	ELF-200N1-03-L2-01	POWER CABLE	P4	3G2.5
5	P-EJB-200N1-03-L2-02	NORMAL LIGHTING FIXTURE	EJB-200N1-03-L2-01	EJB-200N1-03-L2-02	POWER CABLE	P4	3G4
6	83010-CEL-L1	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
7	83010-CEL-L2	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
8	83010-CEL-L3	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
9	83010-CEL-N	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
10	83010-CEL-PE	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P6	1C x 95

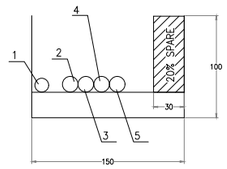
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L-150-101-LVT-103



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83021-CEL	WELDING SOCKET (TOP DECK)	SG-200N1	JB-200E6 /JB-200E7	POWER CABLE	P4	5G50
2	83021-CEL-03	WELDING SOCKET (TOP DECK)	JB-200E6	JB-200E7	POWER CABLE	P4	5G50

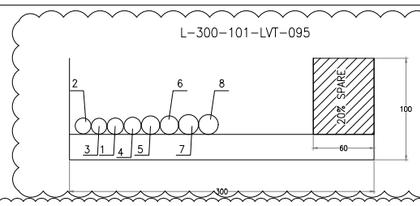
L-150-101-LVT-092



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83116-CEL	AUXILIARY TRAFO 1.6MVA	DP-200N1	CP-200E1	POWER CABLE	P4	3G2.5
2	83001-CEC	6.6KV HV SWITCHGEAR	CP-200DE1A	SG-100D1	CONTROL CABLE	P7	7C X 1.5
3	83002-CEC	6.6KV HV SWITCHGEAR	CP-200DE1A	SG-100D1	CONTROL CABLE	P7	7C X 1.5
4	83003-CEC	6.6KV HV SWITCHGEAR	CP-200DE1A	SG-100D1	CONTROL CABLE	P7	7C X 1.5
5	83004-CEC	6.6KV HV SWITCHGEAR	CP-200DE1A	SG-100D1	CONTROL CABLE	P7	7C X 1.5

01

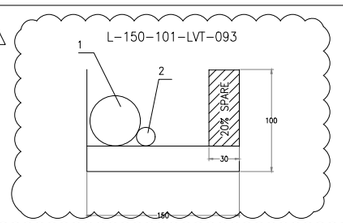
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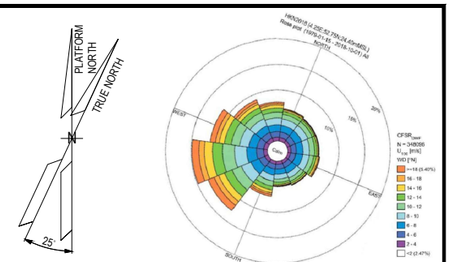
SECTION POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	P-EJB-200N1-08-L1-01	EMERGENCY LIGHTING UPPER DECK – CIRCUIT NO. 1	DP-200N1	EJB-200N1-08-L1-01	POWER CABLE	P4	4G4_E
2	72203-CEL	TOP OBSTRUCTION LIGHTS JUNCTION BOX	UP-200F2	EJB-200F2-01	POWER CABLE	P5	3G2.5
3	72211-CEL	INTERMEDIATE OBSTRUCTION LIGHTS JUNCTION BOX	NC-200F2	EJB-200F2-02	POWER CABLE	P5	3G2.5
4	72213-CEL	INTERMEDIATE OBSTRUCTION RED LIGHTS	EJB-200F2-02	EOL-200-04	POWER CABLE	P5	3G2.5
5	P-EJB-200N1-08-L1-03	EMERGENCY LIGHTING JB	EJB-200N1-08-L1-02	EJB-200N1-08-L1-03	POWER CABLE	P5	4G4_E
6	P-EJB-200N1-08-L1-01	EMERGENCY LIGHTING JB	EJB-200N1-08-L1-04	EJB-200N1-08-L1-01	POWER CABLE	P5	4G4_E
7	P-EJB-200N1-02-L1-02	NORMAL LIGHTING JB	EJB-200N1-02-L1-01	EJB-200N1-02-L1-02	POWER CABLE	P5	3G4
8	P-EJB-200N1-02-L1-03	NORMAL LIGHTING JB	EJB-200N1-02-L1-02	EJB-200N1-02-L1-03	POWER CABLE	P5	3G4

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L-150-101-LVT-093



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83016-CEL	WATER PACKAGE	SG-200N1	JB-500E8	POWER CABLE	P4	5G70
2	84313-CEL	UCP – WATER PACKAGE	DP-200F3	JB-500E8	POWER CABLE	P5	3G2.5



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.

CABLE TYPE DETAILS

P2 – SINGLE CORE, 3.6/6 (7.2) KV, CU/EPR/CU/LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.
P3 – SINGLE CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH, PVC, UNARMOURED CABLE, FLAME RETARDANT
P4 – MULTI CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.
P5 – MULTI CORE, 0.6/1 KV, FIRE RESISTANT, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, GALVANIZED STEEL WIRE ARMOURED CABLE, FLAME RETARDANT.
P7 – MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.
P8 – MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, CU SCREEN, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.

LEGEND

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20108**

REV.:	DATE:	SIGNATURE:
1_B	22/08/24	G.Randi

ROSETTI MARINO SpA

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-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-DL-20107	ELECTRICAL CABLES ROUTING LAYOUT - TOP DECK
123A90-DDL-EL-DL-20109	ELECTRICAL CABLES ROUTING LAYOUT - BELOW LOWER DECK
123A90-DDL-EL-DG-20125	LIGHTING & SOCKET CIRCUIT DIAGRAM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	30/07/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	27/06/24	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
ELECTRICAL CABLES ROUTING LAYOUT
LOWER DECK

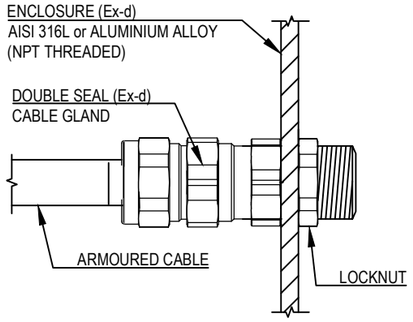
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DRAWN SPS	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 30/07/24

A1	DRAWING NO. 123A90-DDL-EL-DL-20108	SHEET 12of18	REV. 01

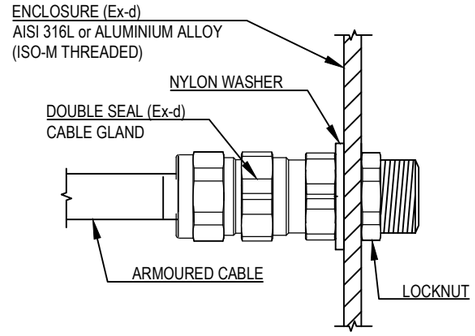
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C01

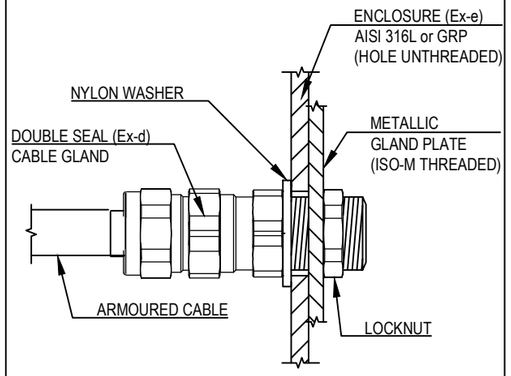
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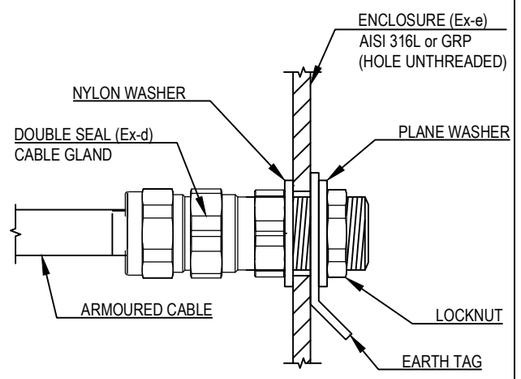
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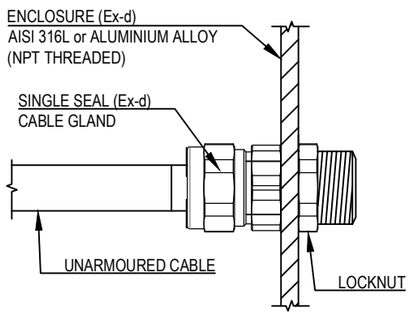
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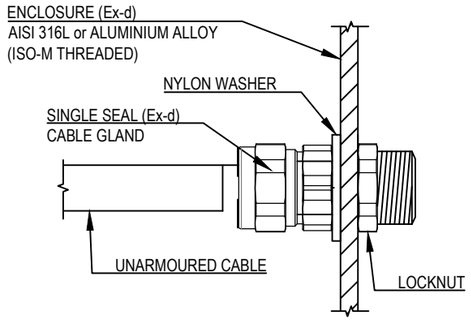
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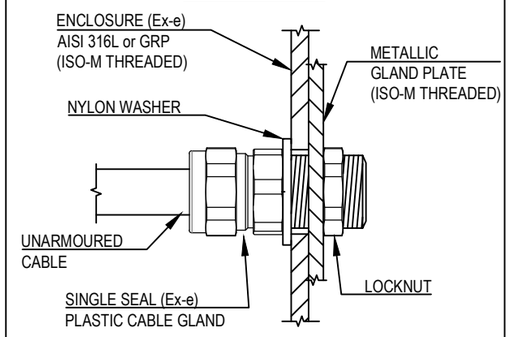
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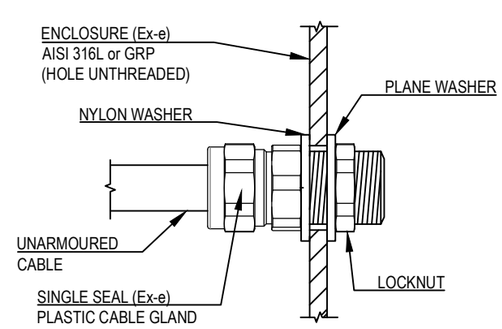
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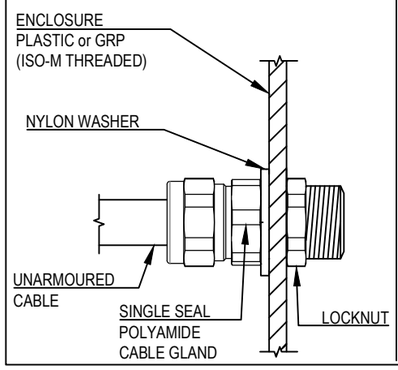
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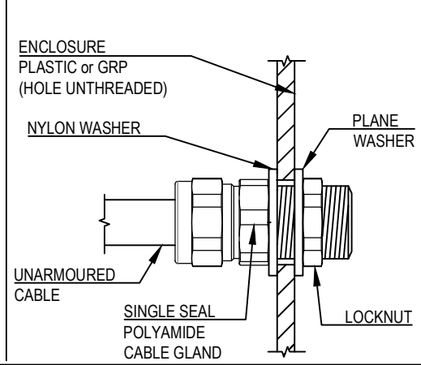
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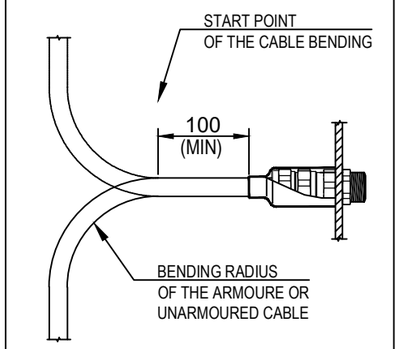


DETAIL "9"



DETAIL "10"





NOTES:

1) IF A REDUCTION OR ADAPTAR ARE NEEDED, ONLY ONE SHALL BE ALLOWED.
2) FOR GRP JUNCTION BOXES AND EQUIPMENTS CONNECTED BY ARMOURED CABLE, CABLE GLAND SHALL BE NICKEL PLATED BRASS TYPE AND GRP JUNCTION BOX AND EQUIPMENTS EQUIPPED WITH NICKEL PLATED CABLE GLAND PLATE. IF THE CABLE IS NON-ARMOURED, CABLE GLAND MAY BE POLYAMIDE TYPE.
3) SINGLE CORE CABLE SHALL HAVE AN EQUIPMENT ENTRY VIA NON MAGNETIC GLAND PLATE AND CONNECTING BY HDG STEEL CABLE GLAND.
4) OUTDOOR CABLE ENTRIES SHALL PREFERABLY BE FROM BOTTOM ENTRY, SIDE ENTRY SHALL BE SUBMITTED TO THE COMPANY APPROVAL. CABLE ENTRY FROM TOP IS FORBIDDEN.

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

REV.:	DATE:	SIGNATURE:
2_A	28/08/24	G.Randi

ROSETTI MARINO SpA

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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
POWER TYPICAL DETAIL CABLE GLAND INSTALLATION FOR E&I CABLES

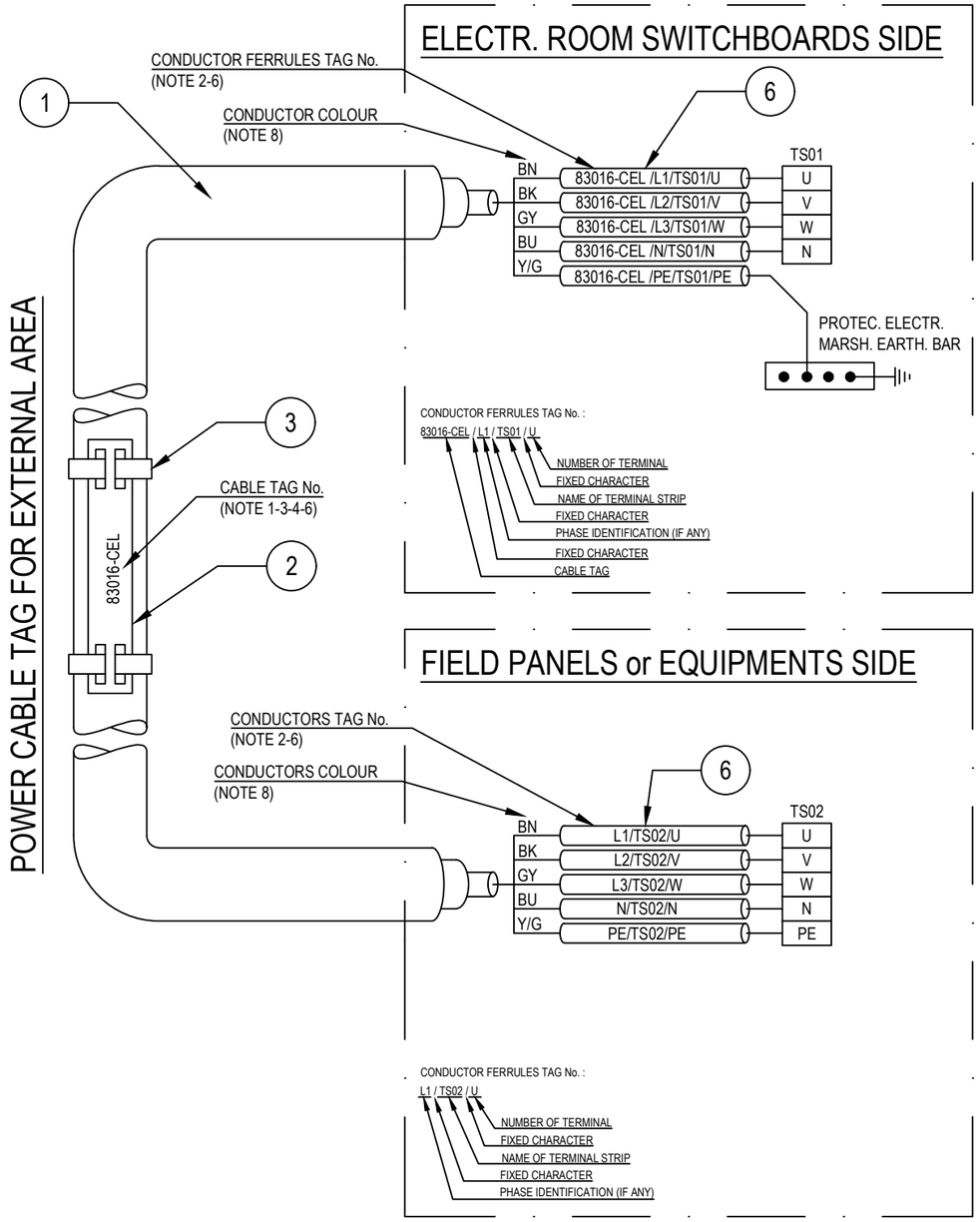
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 006 | REV. 02

F.to UNI A3: 420mmx297mm

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

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.

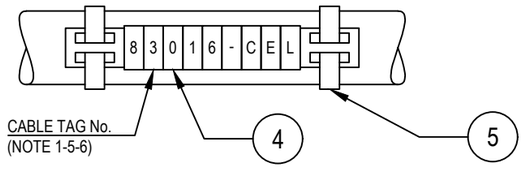
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

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.: 2_A | DATE: 28/08/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

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)

CROSSWIND

ROSETTI MARINO

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

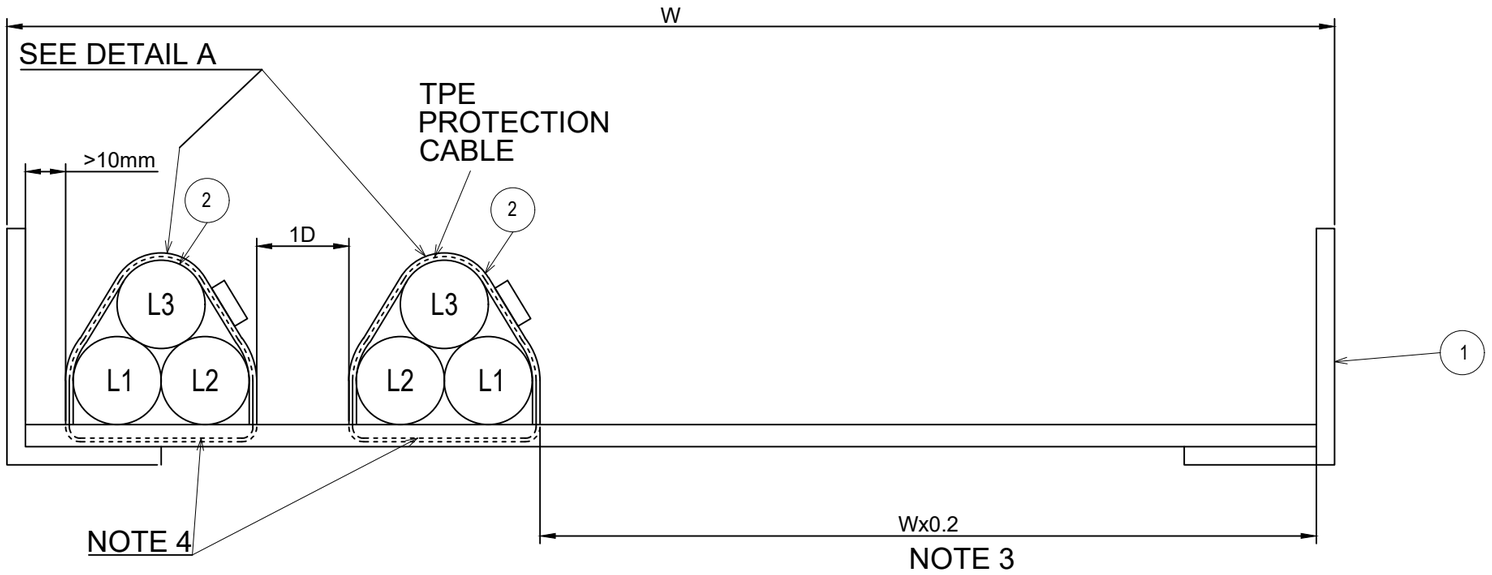
A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

F.to UNI A3: 420mmx297mm

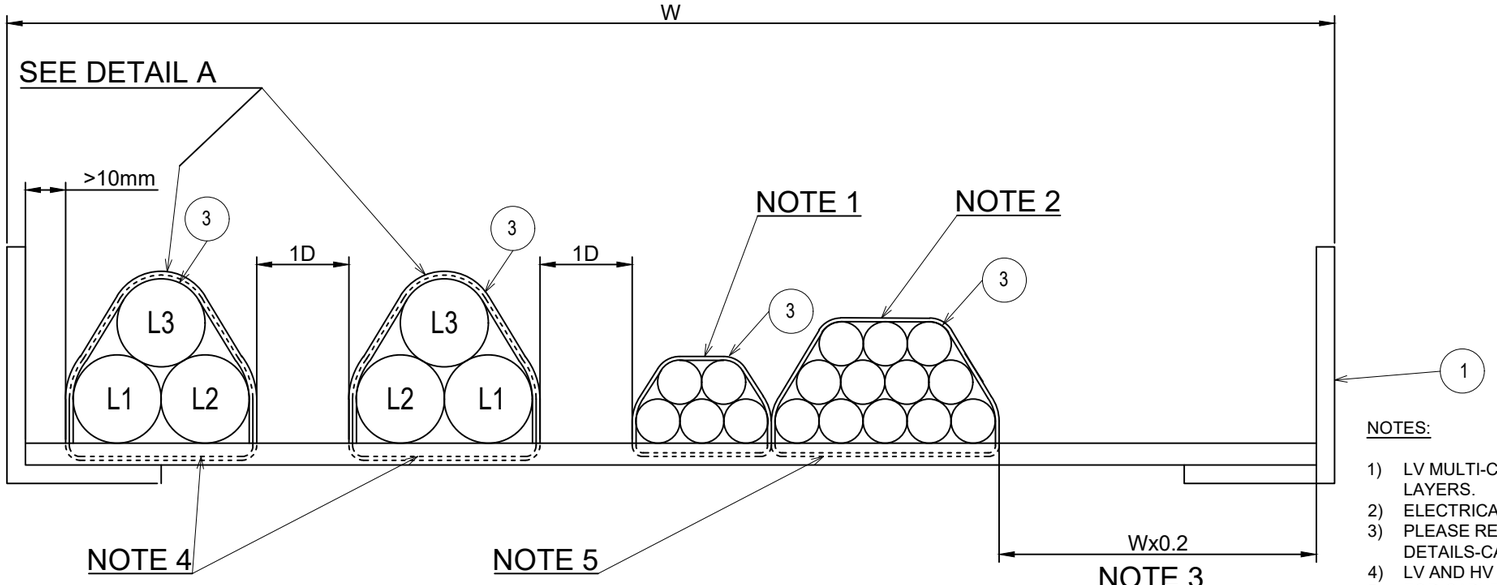
File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

C-05A

HV CABLETRAY

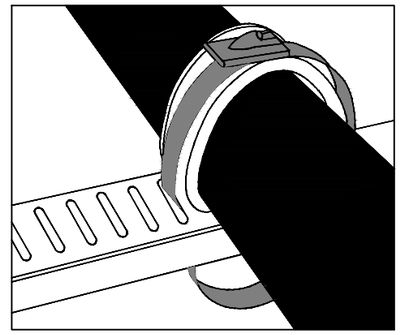


LV CABLETRAY



MATERIALS		
POS.		DESCRIPTION
1		CABLE LADDER AISI 316L
2		CABLE CLEATS STAINLESS STEEL FOR HV CABLES WITH TPE CABLE PROTECTION
3		UV RESISTANT PVC CABLE TIES
4		CABLE CLEATS STAINLESS STEEL FOR LV CABLES WITH TPE CABLE PROTECTION

DETAIL CABLE CLEATS



NOTES:

1) LV MULTI-CORE POWER CABLE (LESS THAN 120SQMM) CAN BE INSTALLED ON TWO LAYERS.
2) ELECTRICAL CONTROL CABLES CAN BE INSTALLED ON THREE LAYERS.
3) PLEASE REFER 123A90-DDL-EL-DD-20093-ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM SHEET-003 FOR CABLE SEGREGATION DETAIL.
4) LV AND HV SINGLE CORE POWER CABLE INSTALLED IN TREFOIL FORMATION.
5) FOR CABLE TIES INSTALLATION SEE DETAIL "C-06" ON SH.011.
6) CABLES BETWEEN TR-200DE1 TRASFORMER AND SG-200N1 POWER CENTER HAVE TO BE PROVIDE WITH CABLE CLEATES WITH STAINLESS STEEL TYPE

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

REV.:	DATE:	SIGNATURE:
2_A	28/08/24	G.Randi

ROSETTI MARINO SpA

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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES ARRANGEMENT IN CABLE LADDER/TRAY FOR ELECTRICAL 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 009 | REV. 02

F.to UNI A3: 420mmx297mm

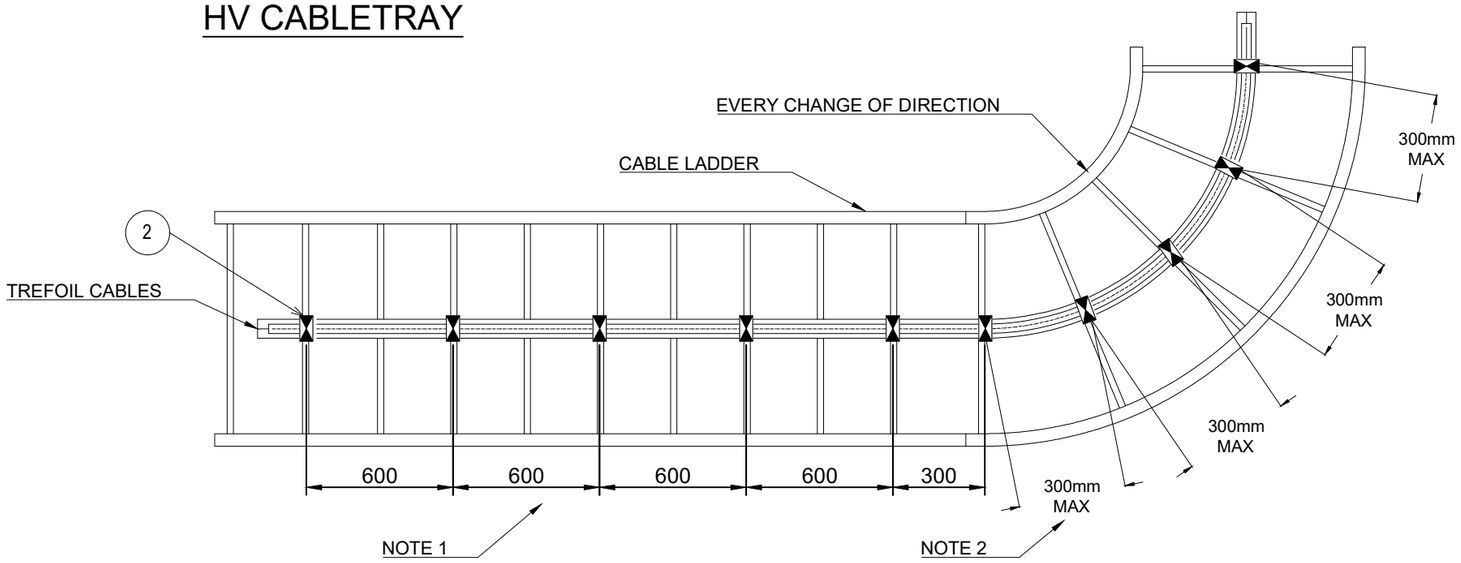
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C06

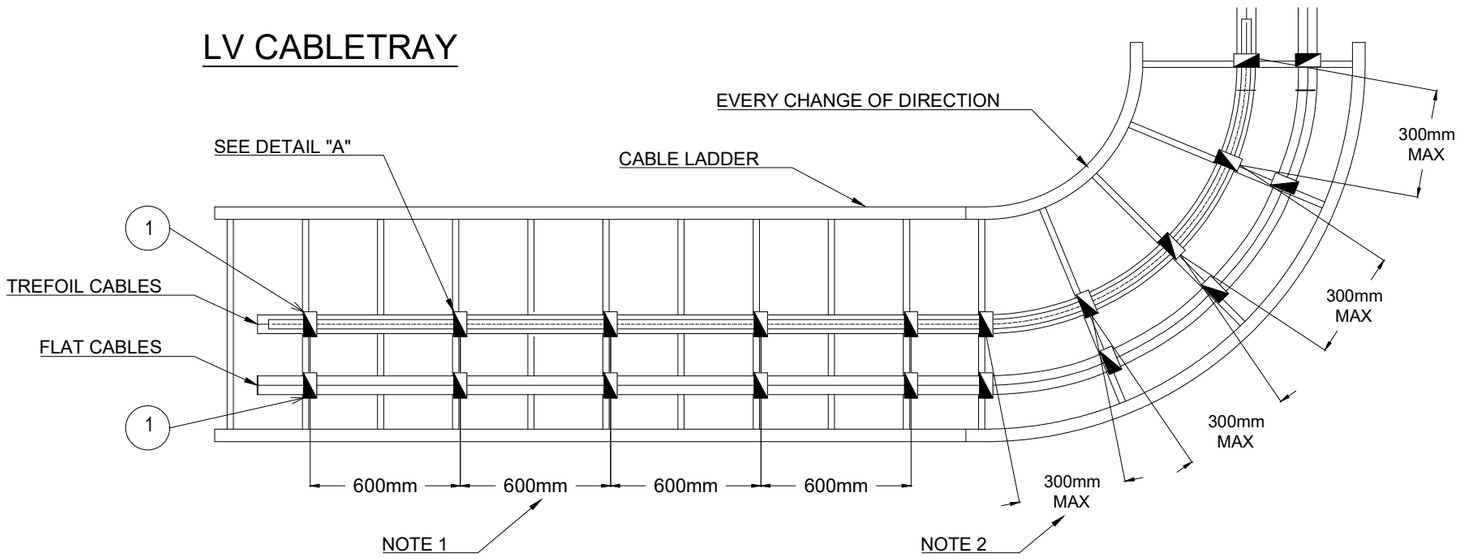
MAXIMUM CABLE TIES/CLEATS SPACING INSTALLATION DETAILS

MATERIALS		
POS.		DESCRIPTION
1		UV RESISTANT PVC CABLE TIES
2		STAINLESS STEEL DOUBLE WRAPPED CABLE CLEATS COMPLETE WITH TPE CUSHION SLEEVING

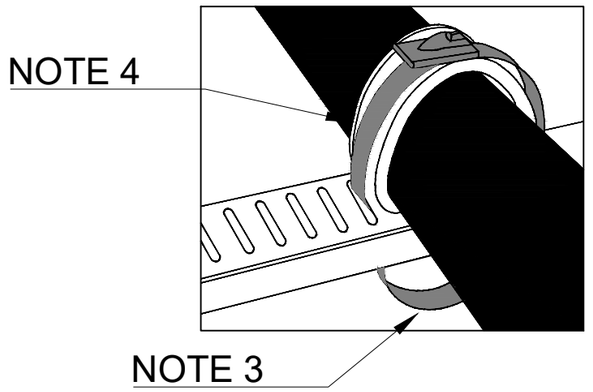
HV CABLETRAY



LV CABLETRAY



DETAIL "A" CABLE CLEATS



NOTES:

1) CABLES TIES SHALL BE HELD EVERY 600mm (CLEATS EVERY 600mm) ON HORIZONTAL RUNS.
2) CABLES SHALL BE HELD EVERY 300mm ON HORIZONTAL/VERTICAL ELBOW AND ON VERTICAL RUNS.
3) CABLE CLEATS WRAPPED TWO TIME AROUND THE CABLE RUNS.
4) TO PROTECT THE CABLE, INSTALL THE CUSHION SLEEVE BETWEEN THE CLAMP AND THE CABLE.

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20092
REV.: 2_A | DATE: 28/08/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
MAXI. CABLE TIES SPACING TYPICAL INSTALLATION DETAILS CABLE FASTENING IN TRAYS/LADDER

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

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 010 | REV. 02

F.to UNI A3: 420mmx297mm

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

ITEM	Tag	83010-CEL-L3-TEMP	: JB-200E2 / SG-200N1			Dwg	
	S/Sys	83-99	: 400 V Temporary Yard Supply			Module	
TASK	code	C10003040		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type FLAME RETARDANT Cores/Size mm² 1Cx95 Color GREY

From JB_200E2_TEMP To SG-200N1

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).	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"	

ITEM	Tag	83010-CEL-L3-TEMP	: JB-200E2 / SG-200N1			Dwg	
	S/Sys	83-99	: 400 V Temporary Yard Supply			Module	
TASK	code	C10003040		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	NA	
7		PH 3	NA	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		NA	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>59,2	
11		PH2 / PH1-PH3-A-E	NA	
12		PH3 / PH1-PH2-A-E	NA	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	KEW3125A/Serial N°W8330207	TYPE / SERIAL N° :	Fluke/SerialN°AW1/08(17140769)
Calibration certificate N° and date:	7722/24date:10/07/24	Calibration certificate N° and date:	7715/24Date:10/07/24

Comments:

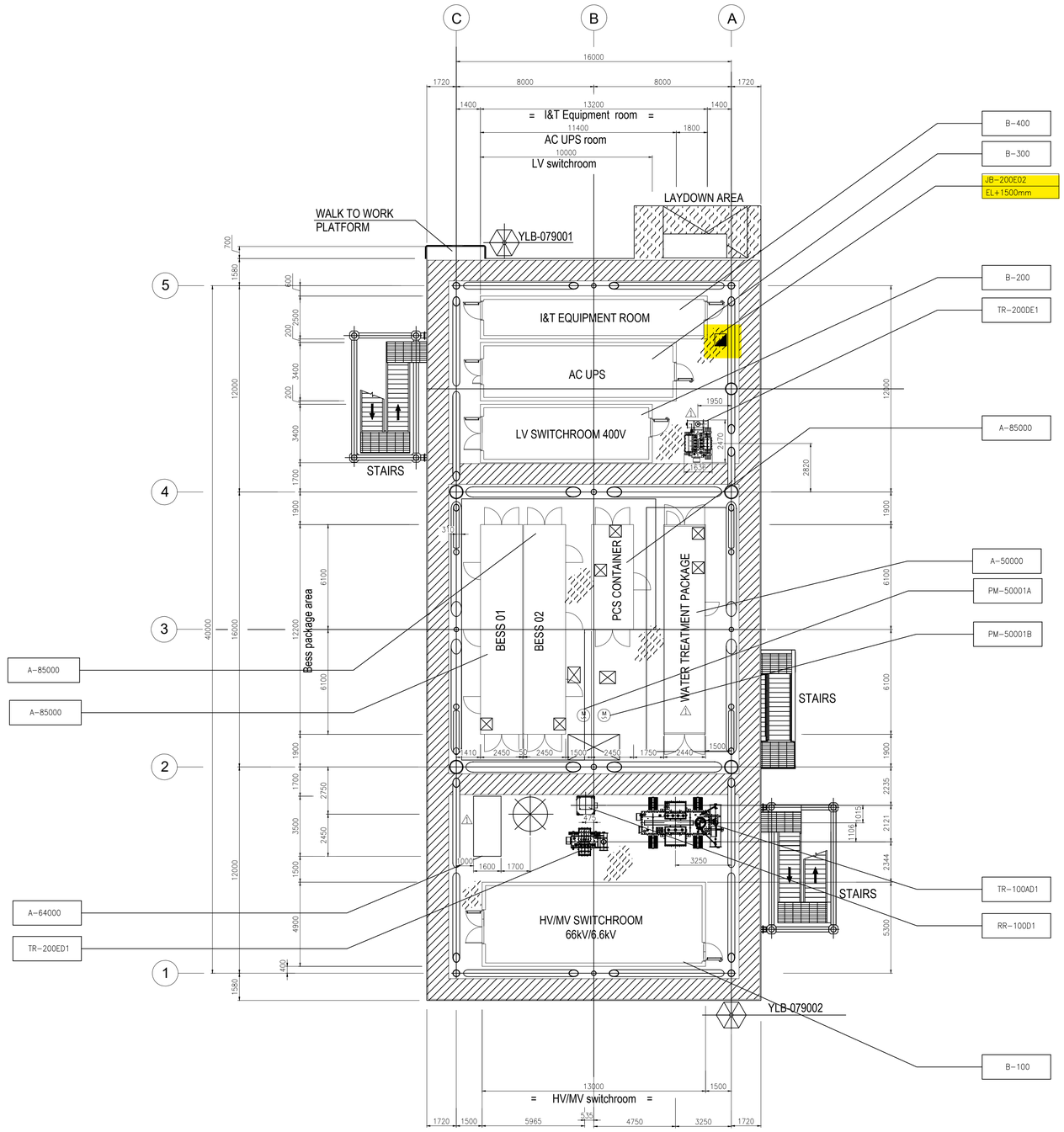
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS Impianti	RM (Rosetti Marino)	
Name	Carmelo Bongiovanni	Giovanni Tangianu	
Date	2024-09-13	2024-09-20	
Signature	PROVERLIS Digitaly signed by Carmelo Bongiovanni 2024-09-13T07:16:22.085Z	Firma Digitale Sicura Giovanni Tangianu 2024-09-20T11:40:31+0200	

ROSETTI MARINO	CROSSWIND	Document Title:	ELECTRICAL POWER & CONTROL CABLE SCHEDULE	Rev.:	00	Rev. Date:	19/03/2024	Remarks:
		Project ID:	CW-I-WP4-2023-05	Issued by:	NLK	Sheet:	5 of 9	
		Document n°:	123A90-DDL-EL-LIS-20148	Reviewed by:	FMA/AMA	System:		
				Approved by:	FPA/DLO	Description:		
Project:	HOLLANDSE KUST NOORD WIND PARK Project			Loc./Plat./Mod.:		Status:		
Area:	BLPH			Doc. Type:		Class:		

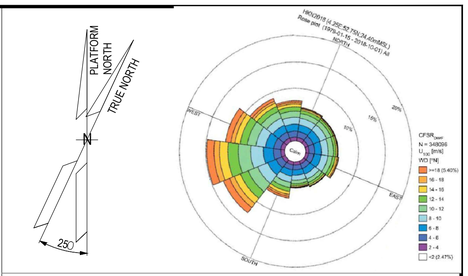
POSITION	REVISION	CABLE TYPE: TAG NUMBER	CABLE TYPE (3)	FORMATION mm²	RATED VOLTAGE (V)	Estimated LENGTH (m)	LENGTH (m)(4)	SPARE (%)	TOTAL LENGTH (m)(5)	DRUM NUMBER (10)	SYSTEM	CABLE ROUTE – FROM: ITEM Tag	DESCRIPTION	Panel/JB/etc.	Cable Entry (Top or Botton)	Cable Peeling (m)	CABLE GLAND TYPE	CABLE GLAND SIZE	MCT Module	MCT Tag.	TO: ITEM Tag	DESCRIPTION	Panel/JB/etc.	Cable Entry (Top or Botton)	Cable Peeling (m)	CABLE GLAND TYPE	CABLE GLAND SIZE	MCT Module	MCT Tag	PHASE/ N /PE	CONDUIT SIZE	CONDUIT LENGTH (m)	ROUTING SECTION MARKER (2)	WIRING & TERMINATION DRAWING	NOTES
1	0	81001-CEH-L1	P1	1C X 300	66000	40	Note-4	10	47	Note-10	Power	JB-100A01	IAC Cable Extension - Interface JB T-Connector	XB2 (Z2)	Bottom	1,5	NA	NA	Hold		HNA6-AFA70	66kV GIS	QZ92	Side	1,5	NA	NA	Hold		L1	NA	NA	N O T E - 2	Note-12	
2	0	81001-CEH-L2	P1	1C X 300	66000	40	Note-4	10	47	Note-10	Power	JB-100A01	IAC Cable Extension - Interface JB T-Connector	XB2 (Z2)	Bottom	1,5	NA	NA	Hold		HNA6-AFA70	66kV GIS	QZ92	Side	1,5	NA	NA	Hold		L2	NA	NA	N O T E - 2	Note-12	
3	0	81001-CEH-L3	P1	1C X 300	66000	40	Note-4	10	47	Note-10	Power	JB-100A01	IAC Cable Extension - Interface JB T-Connector	XB2 (Z2)	Bottom	1,5	NA	NA	Hold		HNA6-AFA70	66kV GIS	QZ92	Side	1,5	NA	NA	Hold		L3	NA	NA	N O T E - 2	Note-12	
4	0	81002-CEH-L1	P1	1C X 300	66000	25	Note-4	10	31	Note-10	Power	HNA6-AFA70	66kV GIS	QZ91	Side	1,5	NA	NA	Hold		TR-200AD1	66/6.6 kV, 7MVA Transformer	HV Cable Box	Side	1,5	NA	NA	Hold		L1	NA	NA	N O T E - 2	Note-12	
5	0	81002-CEH-L2	P1	1C X 300	66000	25	Note-4	10	31	Note-10	Power	HNA6-AFA70	66kV GIS	QZ91	Side	1,5	NA	NA	Hold		TR-200AD1	66/6.6 kV, 7MVA Transformer	HV Cable Box	Side	1,5	NA	NA	Hold		L2	NA	NA	N O T E - 2	Note-12	
6	0	81002-CEH-L3	P1	1C X 300	66000	25	Note-4	10	31	Note-10	Power	HNA6-AFA70	66kV GIS	QZ91	Side	1,5	NA	NA	Hold		TR-200AD1	66/6.6 kV, 7MVA Transformer	HV Cable Box	Side	1,5	NA	NA	Hold		L3	NA	NA	N O T E - 2	Note-12	
7	0	82001-CEM-1-L1	P2	1C X 120	6600	25	Note-4	10	31	Note-10	Power	TR-100AD1	66kV, 7MVA Transformer	Secondary Cable Box	Side	1,5	NA	NA	Hold		SG-100D1	6.6KV HV Switchgear	A2	Top	1,5	NA	NA	Hold		L1	NA	NA	N O T E - 2	Note-12	
8	0	82001-CEM-2-L1	P2	1C X 120	6600	25	Note-4	10	31	Note-10	Power	TR-100AD1	66kV, 7MVA Transformer	Secondary Cable Box	Side	1,5	NA	NA	Hold		SG-100D1	6.6KV HV Switchgear	A2	Top	1,5	NA	NA	Hold		L1	NA	NA	N O T E - 2	Note-12	
9	0	82001-CEM-1-L2	P2	1C X 120	6600	25	Note-4	10	31	Note-10	Power	TR-100AD1	66kV, 7MVA Transformer	Secondary Cable Box	Side	1,5	NA	NA	Hold		SG-100D1	6.6KV HV Switchgear	A2	Top	1,5	NA	NA	Hold		L2	NA	NA	N O T E - 2	Note-12	
10	0	82001-CEM-2-L2	P2	1C X 120	6600	25	Note-4	10	31	Note-10	Power	TR-100AD1	66kV, 7MVA Transformer	Secondary Cable Box	Side	1,5	NA	NA	Hold		SG-100D1	6.6KV HV Switchgear	A2	Top	1,5	NA	NA	Hold		L2	NA	NA	N O T E - 2	Note-12	
11	0	82001-CEM-1-L3	P2	1C X 120	6600	25	Note-4	10	31	Note-10	Power	TR-100AD1	66kV, 7MVA Transformer	Secondary Cable Box	Side	1,5	NA	NA	Hold		SG-100D1	6.6KV HV Switchgear	A2	Top	1,5	NA	NA	Hold		L3	NA	NA	N O T E - 2	Note-12	
12	0	82001-CEM-2-L3	P2	1C X 120	6600	25	Note-4	10	31	Note-10	Power	TR-100AD1	66kV, 7MVA Transformer	Secondary Cable Box	Side	1,5	NA	NA	Hold		SG-100D1	6.6KV HV Switchgear	A2	Top	1,5	NA	NA	Hold		L3	NA	NA	N O T E - 2	Note-12	
13	0	82001-CEM-1-N	P2	1C X 120	6600	10	Note-4	10	14	Note-10	Power	TR-100AD1	66kV, 7MVA Transformer	Secondary Cable Box	Side	1,5	NA	NA	Hold		RR-100D1	NER	Cable Box	Bottom	1,5	NA	NA	Hold		N	NA	NA	N O T E - 2	Note-12	
14	0	82001-CEM-2-N	P2	1C X 120	6600	10	Note-4	10	14	Note-10	Power	RR-100D1	NER	Secondary Cable Box	Side	1,5	NA	NA	Hold		RR-100D1	NER Earth Point	Earth Boss	NA	1,5	NA	NA	Hold		N	NA	NA	N O T E - 2	Note-12	
15	0	82002-CEM-1-L1	P2	1C X 70	6600	44	Note-4	10	52	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A6	Top	1,5	NA	NA	Hold		TR-200DE1	6.6/0.4 KV, 1.6MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L1	NA	NA	N O T E - 2	Note-12	
16	0	82002-CEM-1-L2	P2	1C X 70	6600	44	Note-4	10	52	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A6	Top	1,5	NA	NA	Hold		TR-200DE1	6.6/0.4 KV, 1.6MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L2	NA	NA	N O T E - 2	Note-12	
17	0	82002-CEM-1-L3	P2	1C X 70	6600	44	Note-4	10	52	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A6	Top	1,5	NA	NA	Hold		TR-200DE1	6.6/0.4 KV, 1.6MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L3	NA	NA	N O T E - 2	Note-12	
18	0	82003-CEM-1-L1	P2	1C X 70	6600	78	Note-4	10	89	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A5	Top	1,5	NA	NA	Hold		TA30	6.6/0.4 KV, 1.25MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L1	NA	NA	N O T E - 2	Note-12	
19	0	82003-CEM-1-L2	P2	1C X 70	6600	78	Note-4	10	89	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A5	Top	1,5	NA	NA	Hold		TA30	6.6/0.4 KV, 1.25MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L2	NA	NA	N O T E - 2	Note-12	
20	0	82003-CEM-1-L3	P2	1C X 70	6600	78	Note-4	10	89	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A5	Top	1,5	NA	NA	Hold		TA30	6.6/0.4 KV, 1.25MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L3	NA	NA	N O T E - 2	Note-12	
21	0	82004-CEM-1-L1	P2	1C X 120	6600	45	Note-4	10	53	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A7	Top	1,5	NA	NA	Hold		T4	6.6/0.4/0.4 KV, 3.15MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L1	NA	NA	N O T E - 2	Note-12	
22	0	82004-CEM-1-L2	P2	1C X 120	6600	45	Note-4	10	53	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A7	Top	1,5	NA	NA	Hold		T4	6.6/0.4/0.4 KV, 3.15MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L2	NA	NA	N O T E - 2	Note-12	
23	0	82004-CEM-1-L3	P2	1C X 120	6600	45	Note-4	10	53	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A7	Top	1,5	NA	NA	Hold		T4	6.6/0.4/0.4 KV, 3.15MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L3	NA	NA	N O T E - 2	Note-12	
24	0	82005-CEM-1-L1	P2	1C X 70	6600	55	Note-4	10	64	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A4	Top	1,5	NA	NA	Hold		18T1	6.6/0.62 KV, 1.25MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L1	NA	NA	N O T E - 2	Note-12	
25	0	82005-CEM-1-L2	P2	1C X 70	6600	55	Note-4	10	64	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A4	Top	1,5	NA	NA	Hold		18T1	6.6/0.62 KV, 1.25MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L2	NA	NA	N O T E - 2	Note-12	
26	0	82005-CEM-1-L3	P2	1C X 70	6600	55	Note-4	10	64	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A4	Top	1,5	NA	NA	Hold		18T1	6.6/0.62 KV, 1.25MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L3	NA	NA	N O T E - 2	Note-12	
27	0	82006-CEM-1-L1	P2	1C X 70	6600	25	Note-4	10	31	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A1	Top	1,5	NA	NA	Hold		TR-200ED1	6.6/0.8 KV, 0.5MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L1	NA	NA	N O T E - 2	Note-12	
28	0	82006-CEM-1-L2	P2	1C X 70	6600	25	Note-4	10	31	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A1	Top	1,5	NA	NA	Hold		TR-200ED1	6.6/0.8 KV, 0.5MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L2	NA	NA	N O T E - 2	Note-12	
29	0	82006-CEM-1-L3	P2	1C X 70	6600	25	Note-4	10	31	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A1	Top	1,5	NA	NA	Hold		TR-200ED1	6.6/0.8 KV, 0.5MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L3	NA	NA	N O T E - 2	Note-12	
30	0	83001-CEL-1-L1	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L1	NA	NA	N O T E - 2	Note-12	
31	0	83001-CEL-2-L1	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L1	NA	NA	N O T E - 2	Note-12	
32	0	83001-CEL-3-L1	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L1	NA	NA	N O T E - 2	Note-12	
33	0	83001-CEL-4-L1	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L1	NA	NA	N O T E - 2	Note-12	
34	0	83001-CEL-5-L1	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L1	NA	NA	N O T E - 2	Note-12	
35	0	83001-CEL-1-L2	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L2	NA	NA	N O T E - 2	Note-12	
36	0	83001-CEL-2-L2	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L2	NA	NA	N O T E - 2	Note-12	
37	0	83001-CEL-3-L2	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L2	NA	NA	N O T E - 2	Note-12	
38	0	83001-CEL-4-L2	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L2	NA	NA	N O T E - 2	Note-12	
39	0	83001-CEL-5-L2	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L2	NA	NA	N O T E - 2	Note-12	
40	0	83001-CEL-1-L3	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L3	NA	NA	N O T E - 2	Note-12	
41	0	83001-CEL-2-L3	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L3	NA	NA	N O T E - 2	Note-12	
42	0	83001-CEL-3-L3	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L3	NA	NA	N O T E - 2	Note-12	
43	0	83001-CEL-4-L3	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L3	NA	NA	N O T E - 2	Note-12	
44	0	83001-CEL-5-L3	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L3	NA	NA	N O T E - 2	Note-12	
45	0	83001-CEL-1-N	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		N	NA	NA	N O T E - 2	Note-12	
46	0	83001-CEL-2-N	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		N	NA	NA	N O T E - 2	Note-12	
47	0	83001-CEL-3-N	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		N	NA	NA	N O T E - 2	Note-12	
48	0	83001-CEL-E	P6	1C X 150	400	10	Note-4	10	11	Note-10	PE	TR-200DE1	6.6/0.4 KV, 1.6MVA Transformer-Neutral	LV side Cable Box	Side	0	CW	M32	Hold		TR-200DE1	Earth Point	Earth Boss	NA	0	NA	NA	Hold		PE	NA	NA	N O T E - 2	Note-12	
49	0	86001-CEL-L1	P3	1C X 300	800	50	Note-4	10	58	Note-10	Power	JB-200E01	Solar PV Power Cable JB	JB	Bottom	1,5	CW	M40	Hold		SG-200D2	Breaker	Cable Compartment	Top	1,5	BW	M40	Hold		L1	NA	NA	N O T E - 2	Note-12	Note-13
50	0	86001-CEL-L2	P3	1C X 300	800	50	Note-4	10	58	Note-10	Power	JB-200E01	Solar PV Power Cable JB	JB	Bottom	1,5	CW	M40	Hold		SG-200D2	Breaker	Cable Compartment	Top	1,5	BW	M40	Hold		L2	NA	NA	N O T E - 2	Note-12	Note-13
51	0	86001-CEL-L3	P3	1C X 300	800	50	Note-4	10	58	Note-10	Power	JB-200E01	Solar PV Power Cable JB	JB	Bottom	1,5	CW	M40	Hold		SG-200D2	Breaker	Cable Compartment	Top	1,5	BW	M40	Hold		L3	NA	NA	N O T E - 2	Note-12	Note-13
52	0	86002-CEL-L1	P3	1C X 300	800	50	Note-4	10	58	Note-10	Power	SG-200D2	Solar Breaker	Cable Compartment	Bottom	1,5	CW	M40	Hold		TR-200ED1	6.6/0.8 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		L1	NA	NA	N O T E - 2	Note-12	Note-13
53	0	86002-CEL-L2	P3	1C X 300	800	50	Note-4	10	58	Note-10	Power	SG-200D2	Solar Breaker	Cable Compartment	Bottom	1,5	CW	M40	Hold		TR-200ED1	6.6/0.8 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		L2	NA	NA	N O T E - 2	Note-12	Note-13
54	0	86002-CEL-L3	P3	1C X 300	800	50	Note-4	10	58	Note-10	Power	SG-200D2	Solar Breaker	Cable Compartment	Bottom	1,5	CW	M40	Hold		TR-200ED1	6.6/0.8 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		L3	NA	NA	N O T E - 2	Note-12	Note-13
55	0	83010-CEL-L1	P3	1C X 95	400	25	Note-4	10	31	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M25	Hold		JB-200E1	Temporary Generator / Mobile Battery Pack	JB	Bottom	1,5	CW	M25	Hold		L1	NA	NA	N O T E - 2	Note-12	
56	0	83010-CEL-L2	P3	1C X 95	400	25	Note-4	10	31	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M25	Hold		JB-200E1	Temporary Generator / Mobile Battery Pack	JB	Bottom	1,5	CW	M25	Hold		L2	NA	NA	N O T E - 2	Note-12	
57	0	83010-CEL-L3	P3	1C X 95	400	25	Note-4	10	31	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M25	Hold		JB-200E1	Temporary Generator / Mobile Battery Pack	JB	Bottom	1,5	CW	M25	Hold		L3	NA	NA	N O T E - 2	Note-12	
58	0	83010-CEL-N	P3	1C X 95	400	25	Note-4	10	31	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M25	Hold		JB-200E1	Temporary Generator / Mobile Battery Pack	JB	Bottom	1,5	CW	M25	Hold		N	NA	NA	N O T E - 2	Note-12	
59	0	83010-CEL-PE	P6	1C X 95	400	25	Note-4	10	31	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M25	Hold		JB-200E1	Temporary Generator / Mobile Battery Pack	JB	Bottom	1,5	CW	M25	Hold		PE	NA	NA	N O T E - 2	Note-12	
60	0	83011-CEL	P4	4C X 10	400	40	Note-4	10	47	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M25	Hold		A-85000	BESS PCS Cabinet	Cabinet	Side	1,5	BW	M25	Hold		L1,L2,L3,N	NA	NA	N O T E - 2	Note-12	Note-15
61	0	83012-CEL	P4	5G16	400	40	Note-4	10	47	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M32	Hold		A-80000	Fuel Cell Auxiliary Load	Local Panel	Side	1,5	BW	M32	Hold		L1,L2,L3,N,PE	NA	NA	N O T E - 2	Note-12	
62	0	83013-CEL-1-L1	P3	1C X 300	400	75	Note-4	10	86	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		A-20000	Electrolyser Auxiliary load	Local Panel	Side	1,5	BW	M40	Hold		L1	NA	NA	N O T E - 2	Note-12	
63	0	83013-CEL-2-L1	P3	1C X 300	400	75	Note-4	10	86	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		A-20000	Electrolyser Auxiliary load	Local Panel	Side	1,5	BW	M40	Hold		L1	NA	NA	N O T E - 2	Note-12	
64	0	83013-CEL-1-L2	P3	1C X 300	400	75	Note-4	10	86	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		A-20000	Electrolyser Auxiliary load	Local Panel	Side	1,5	BW	M40	Hold		L2	NA	NA	N O T E - 2	Note-12	
65	0	83013-CEL-2-L2	P3	1C X 300	400	75	Note-4	10	86	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		A-20000	Electrolyser Auxiliary load	Local Panel	Side	1,5	BW	M40	Hold		L2	NA	NA	N O T E - 2	Note-12	
66	0	83013-CEL-1-L3	P3	1C X 300	400	75	Note-4	10	86	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		A-20000	Electrolyser Auxiliary load	Local Panel	Side	1,5	BW	M40	Hold		L3	NA	NA	N O T E - 2	Note-12	
67	0	83013-CEL-2-L3	P3	1C X 300	400	75	Note-4	10	86	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		A-20000	Electrolyser Auxiliary load	Local Panel	Side	1,5	BW	M40	Hold		L3	NA	NA	N O T E - 2	Note-12	
68	0	83013-CEL-2-N	P3	1C X 300	400	75	Note-4	10	86	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		A-20000	Electrolyser Auxiliary load	Local Panel	Side	1,5	BW	M40	Hold		N	NA	NA	N O T E - 2	Note-12	
69	0	83013-CEL-2-E	P6	1C X 150	400	75	Note-4	10	86	Note-10	PE	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M32	Hold		A-20000	Electrolyser Auxiliary load	Local Panel	Side	1,5	BW	M32	Hold		PE	NA	NA	N O T E - 2	Note-12	
70	0	83014-CEL	P4	4C X 10	400	35	Note-4	10	42	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M25	Hold		CP-850-F-01	BESS LV1 Cabinet (+DISTR 1)	Cabinet	Side	1,5	BW	M25	Hold		L1,L2,L3,N	NA	NA	N O T E - 2	Note-12	Note-14
71	0	83015-CEL	P4	4C X 10	400	38	Note-4	10	45	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M25	Hold		CP-850-F-02	BESS LV2 Cabinet (+DISTR 2)	Cabinet	Side	1,5	BW	M25	Hold		L1,L2,L3,N	NA	NA	N O T E - 2	Note-12	Note-14
72	0	85001-CEL-1-E	P6	1C X 95	400	100	Note-4	10	113	Note-10	PE	A-85000	BESS	HOLD	Top	1,5	NA	NA	Hold		A-85000	Earth Point	Earth Boss	Top	1,5	NA	NA	Hold		PE	NA	NA	N O T E - 2	Note-12	Note-14

DRAWING NO. 123A90-DDL-EL-DL-20101

REV. 01



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



NOTES

1. ALL DIMENSIONS IN MM UNLESS NOTED OTHERWISE.
2. ALL ELEVATIONS IN METERS. UNLESS NOTED OTHERWISE.
3. ELEVATIONS REFER TO T.O.S.
4. FOR ELECTRICAL EQUIPMENT LAYOUT OF CONTAINERS B-100, B-200, B-300, B-400 REFER TO THE RESPECTIVE LAYOUTS.

LEGEND

(M)	ELECTRIC MOTOR – LOW VOLTAGE
⊠	INTERFACE PANEL
◪	JUNCTION BOX
JB-200E2 / EL+500mm	TAG ITEM / REFERED ELEVATION TO T.O.S. (TOP OF STEEL)

HOLDS

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20106	ELECTRICAL EQUIPMENT LAYOUT UPSs & BATTERIES SWITCHROOM
123A90-DDL-IN-DL-40012	ITER EQUIPMENT LAYOUT
123A90-DDL-EL-DL-20104	ELECTRICAL EQUIPMENT LAYOUT HV & MV SWITCHROOM
123A90-DDL-EL-DL-20105	LV SWITCHGEAR ROOM EQUIPMENT LAYOUT

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/05/24	SAM	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	04/03/24	SAM	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20101**

REV.:	DATE:	SIGNATURE:
1_A	08/08/24	G.Randi

ROSETTI MARINO SpA

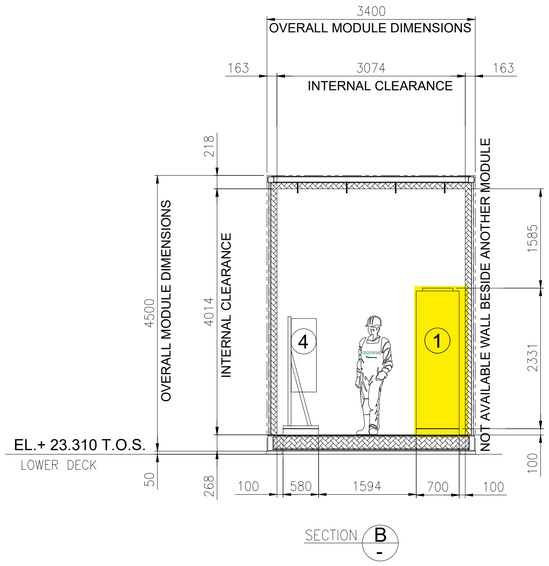
CROSSWIND | ROSETTI MARINO

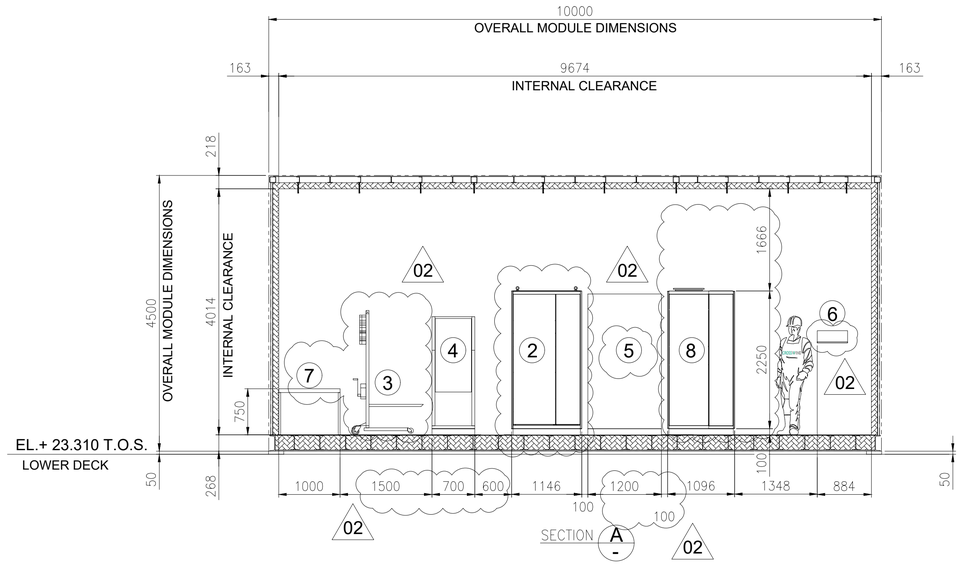
TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL EQUIPMENT LAYOUT
LOWER DECK

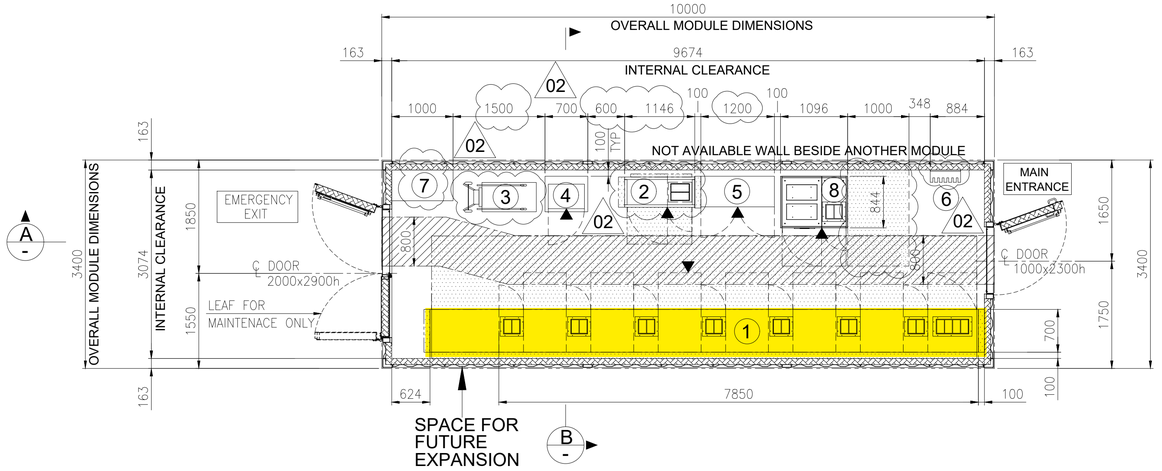
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN SAM	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 04/03/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20101	SHEET 001	REV. 01

File Name : 123A90-DDL-EL-DL-20101-Electrical Equipment Layout – Lower Deck

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





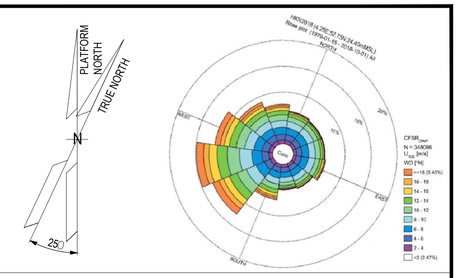


EQUIPMENT LAYOUT
"B-200" LV (400V) SWITCHGEAR ROOM
BOTTOM PLAN

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

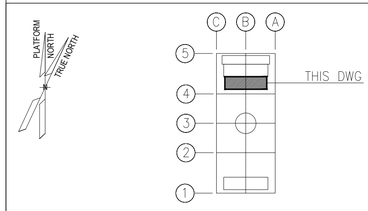
U.N.O. _____ UNLESS NOTED OTHERWISE
T.O.S. _____ TOP OF STEEL
_____ ESCAPE CORRIDOR - WIDTH 800mm.
_____ MAINTENANCE AREA - VENDOR REQUIREMENT
_____ SWITCHGEAR ROOM ENCLOUSURE
_____ FRONT OF EQUIPMENT

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



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	DYFO/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

FROM	TO

DESCRIPTION: LV Switchgear
TAG NUMBER: SG-200N1

COLUMN/CUBIC.: A2/+08

L1	BK	83010-CEL-L1	1C X 95 mm²
L2	BK	83010-CEL-L2	1C X 95 mm²
L3	BK	83010-CEL-L3	1C X 95 mm²
N	BK	83010-CEL-N	1C X 95 mm²
PE	Y/G	83010-CEL-PE	1C X 95 mm²

P.E. BUS BAR

DESCRIPTION: TEMPORARY GENERATOR / MOBILE BATTERY PACK
TAG NUMBER: JB-200E2

BK	L1
BK	L2
BK	L3
BK	N
Y/G	PE

INCOMING FROM LV SWITCHGEAR
SG-200N1

P.E. BUS BAR

COLUMN/CUBIC.: A1/+08

L1	BK	83013-CEL-L1	1C X 300 mm²
L2	BK	83013-CEL-L2	1C X 300 mm²
L3	BK	83013-CEL-L3	1C X 300 mm²
N	BK	83013-CEL-N	1C X 300 mm²
PE	Y/G	83013-CEL-E	1C X 150 mm²

P.E. BUS BAR

DESCRIPTION: ELECTROLYSER AUXILIARY LOAD
TAG NUMBER: A-20000

BK	L1
BK	L2
BK	L3
BK	N
Y/G	PE

P.E. BUS BAR

COLUMN/CUBIC.: A4/+03

L1	BK
L2	BN
L3	GY
N	BU
PE	Y/G

83012-CEL
5G16 mm²

P.E. BUS BAR

DESCRIPTION: FUEL CELL AUXILIARY LOAD
TAG NUMBER: A-80000

BK	L1
BN	L2
GY	L3
BU	N
Y/G	PE

P.E. BUS BAR

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
LV SWITCHGEAR SG-200N1

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

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 021

REV. 00

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20162 Rev. 00

TITLE

DATA SHEET FOR LV POWER CABLE (LSZH, FLAME RETARDANT)

CONSTRUCTIVE DATA

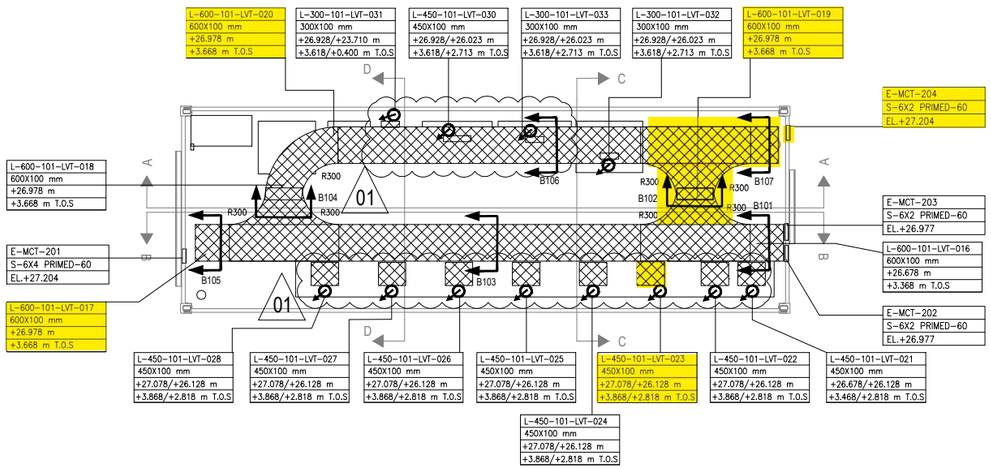
3	MR TAG / PART NUMBER			Note-3	Note-3	Note-3	Note-3
4	n° x NOMINAL AREA OF CONDUCTORS		N.xmm^2	1Cx300	1Cx95	3G2.5	3G4
5	n° AND DIAMETER OF WIRES IN EACH CONDUCTOR		N.xmm	37X3,35	19X2,67	7X0,67	7X0,85
6	CONDUCTOR CLASS (2)			2	2	2	2
7	RATED CURRENT IN AIR AT 30°		A	698	323	31	41
8	RATED CURRENT IN GROUND AT 20°		A	623	333	41	53
9							
10	A.C. PHASES RESISTANCE AT THE MAX OP. TEMP.		Ω/km	0,08	0,247	9,45	5,88
11	PHASE REACTANCE AT 50 Hz		Ω/km	0,08	0,085	0,103	0,096
12	MINIMUM INSULATION RESISTANCE AT 20°		MΩ/km	330	400	1100	1100
13	PHASE CAPACITY		µF/km	0,722	0,451	0,157	0,178
14							
15	MINIMUM ORDER Q.TY		m	300	300	300	300
16	MAX LENGHT OF DRUMS		m	1000	3000	7000	6000
17	DIAMETERS	BARE CONDUCTOR	mm	21	11,3	2	2,6
18		CORE (INSULATED CORE)	mm	25,8	14,5	4	4,6
19		INNER COVERING	mm	NA	NA	10,6	11,9
20		ARMOUR OR CONCENTRIC CONDUCTOR	mm	NA	NA	NA	NA
21							
22							
23		OVERALL	mm	29,4	17,3	13	14,3
24	MASSES	CONDUCTORS	kg/km	2730	864	68	109
25		INSULATION	kg/km	205	58	28	34
26		INNER COVERING	kg/km	NA	NA	83	101
27		ARMOUR OR CONCENTRIC CONDUCTOR	kg/km	NA	NA	NA	NA
28		OUTER SHEATING	kg/km	320	100	74	82
29							
30		TOTAL	kg/km	3255	1022	253	326
31	EXTERNAL COLOUR			GREY	GREY	GREY	GREY
32	CORE IDENTIFICATION (1)			BK	BK	BN,BU,Y/G	BN,BU,Y/G
33							
34							
35							
36							
37							
38							

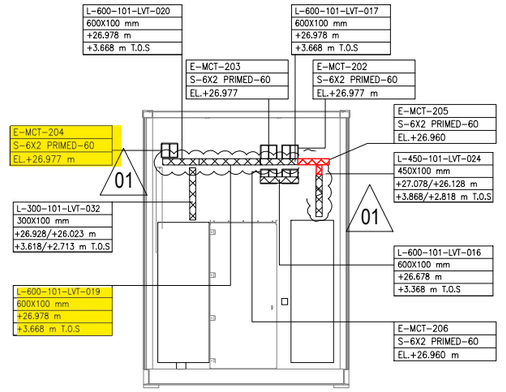
NOTE: (1) BK=BLACK, BN=BROWN, GY=GRAY, BU=BLUE, RD=RED, Y/G=YELLOW/GREEN

NA NOT APPLICABLE

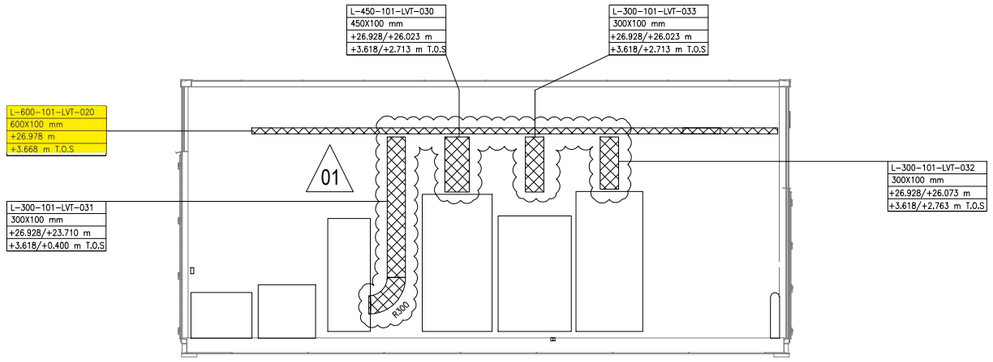
DRAWING NO. 123A90-DDL-EL-DL-20112

REV. 01

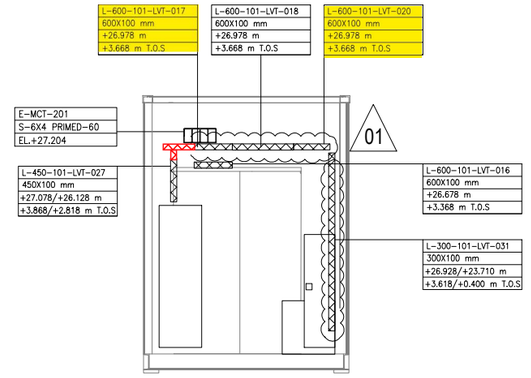




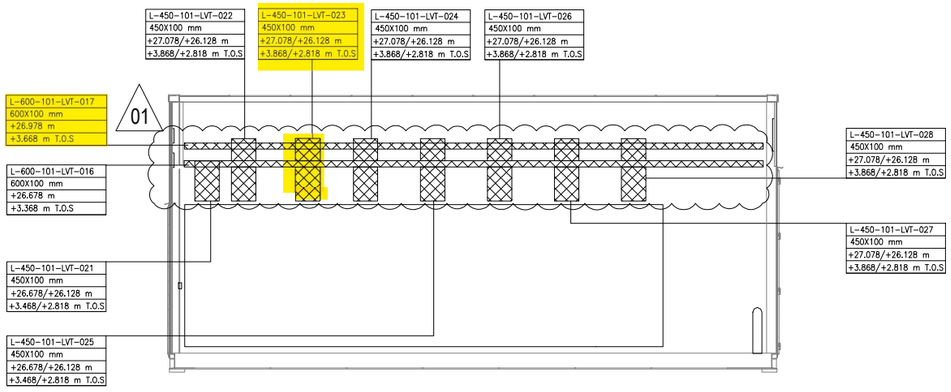
Section C-C



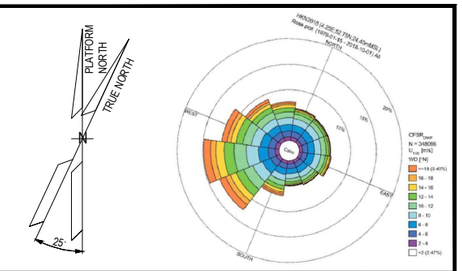
Section A-A



Section D-D



Section B-B



NOTES

1.ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.

2.THIS DRAWING IS VALID ONLY FOR ELECTRICAL CABLE ROUTING LAYOUT.

3.DRAWING SPLIT INTO MULTIPLE SHEETS FOR CLARITY.

4.FOR INSTALLATION DETAIL OF CABLE LADDER REFER TO DOC. 123A90-DDL-EL-DD-20093.

5.FOR LIGHTING AND SOCKET EQUIPMENTS SEE DRAWING 123A90-DDL-EL-DL-20123 AND 1724000049-EL-LIS-00044

6.ELEVATIONS REFER TO T.O.S. (EL+23.310m)

7.FOR PANEL MCTs DETAILS PLEASE REFER TO 123A90-DDL-EL-DL-20115.

LEGEND

ELECTRICAL LV CABLE LADDER

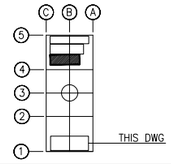
ELECTRICAL CABLE LADDER (VERTICAL DROP)

MCT TAG
TAG
MCT FRAME
ELEVATION

B100
CABLE SECTION

CABLE LADDER TAG
TAG
SIZE
ELEVATION
ELEVATION IN T.O.S

KEY PLAN



REFERENCE DOCUMENTS

123A90-DDL-EL-DD-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE
123A90-DDL-EL-DL-20105	ELECTRICAL EQUIPMENT LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DL-20123	LIGHTING & SOCKET LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DD-20095	MCT COMPOSITION
1724000049-EL-LIS-00044	B-200 ELECTRICAL COMPONENTS LIST AND DS - E&I SHELTERS
123A90-DDL-EL-DL-20115	ELECTRICAL MCT LAYOUT - LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	SAM	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	18/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20112**

REV.:	DATE:	SIGNATURE:
1_B	02/09/24	G.Randi

ROSETTI MARINO SpA

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

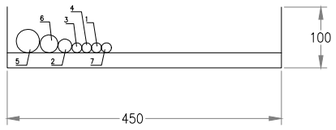
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:50
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 02/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20112	SHEET 1of11	REV. 01

File Name : 123A90-DDL-EL-DL-20112

DRAWING NO. 123A90-DDL-EL-DL-20112

REV. 01

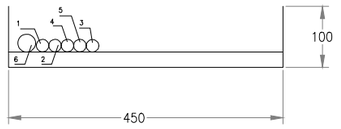
L-450-101-LVT-028



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83034-CEL	DC Battery System – Switchgears Control – Feeder A	SG-200N1	UP-200F1	POWER CABLE	P4	4G16
2	83035-CEL	DC Battery System – Switchgears Control – Feeder B	SG-200N1	UP-200F1	POWER CABLE	P4	4G16
3	83036-CEL	DC UPS NAVAID System – Feeder A	SG-200N1	UP-200F2	POWER CABLE	P5	3G16
4	83037-CEL	DC UPS NAVAID System – Feeder B	SG-200N1	UP-200F2	POWER CABLE	P5	3G16
5	83022-CEL-01	Welding Sockets (Lower Deck)	SG-200N1	JB-200E4	POWER CABLE	P4	5G50
6	83028-CEL	AC UPS PAS – 30min – Line A	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
7	83018-CEL	Sea water intake pump A	SG-200N1	PM-50001 A	POWER CABLE	P4	4G4

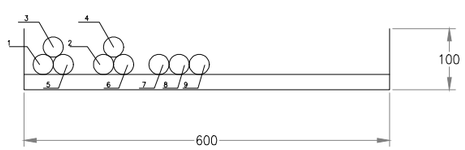
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L-450-101-LVT-023



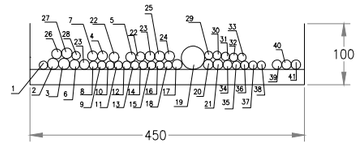
POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83010-CEL-L1	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
2	83010-CEL-L2	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
3	83010-CEL-L3	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
4	83010-CEL-N	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
5	83010-CEL-PE	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P6	1C X 95
6	83031-CEL	AC UPS F&G – 8h – Line A	SG-200N1	UP-200F4	POWER CABLE	P4	4G35

L-600-101-LVT-016 VIA-E-MCT-206



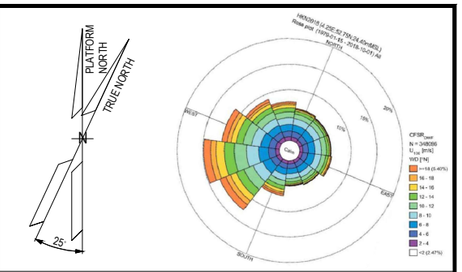
POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83001-CEL-4-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
2	83001-CEL-5-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
3	83001-CEL-4-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
4	83001-CEL-5-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
5	83001-CEL-4-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
6	83001-CEL-5-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
7	83001-CEL-1-N	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
8	83001-CEL-2-N	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
9	83001-CEL-3-N	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300

L-450-101-LVT-030



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	P-EJB-200N1-04-L3-01	Normal Lighting – Stairs	DP-200N1	EJB-200N1-04-L3-01	POWER CABLE	P4	3G4
2	P-ESO-200N1-05-L1-01	Small Power Socket (Upper Deck)	DP-200N1	EJB-200N1-05-L1-01	POWER CABLE	P4	3G10
3	P-ESO-200N1-06-L2-01	Small Power Socket (Lower Deck)	DP-200N1	EJB-200N1-06-L2-01	POWER CABLE	P4	3G10
4	P-ETB-200N1-20-L1-01	TRACE HEATING – PROCESS LINES – FEEDER 7 (SEA WATER PUMPS)	DP-200N1	ETB-200N1-19-L3-01	POWER CABLE	P7	3G6
5	P-ETB-200N1-18-L2-01	TRACE HEATING – PROCESS LINES – FEEDER 5 (VESSEL KO DRUM)	DP-200N1	ETB-200N1-18-L2-01	POWER CABLE	P4	3G6
6	P-EJB-200N1-09-L2-01	Emergency Lighting Lower Deck – Circuit No. 1	DP-200N1	EJB-200N1-09-L2-01	POWER CABLE	P4	4G4_E
7	P-ETB-200N1-19-L3-01	TRACE HEATING – PROCESS LINES – FEEDER 6 (H2 VENT)	DP-200N1	ETB-200N1-20-L1-01	POWER CABLE	P7	3G6
8	83104-CEL	SIS –Controller and I/O Cabinet – Auxiliary	DP-200N1	B400-SIS-001	POWER CABLE	P4	3G2.5
9	83105-CEL	PCS –Controller and I/O Cabinet – Auxiliary	DP-200N1	B400-PCS-001	POWER CABLE	P4	3G2.5
10	83106-CEL	EMCS –Controller and I/O Cabinet – Auxiliary	DP-200N1	B400-EMCS-001	POWER CABLE	P4	3G2.5
11	83107-CEL	FGS Fire & Gas Panel – Auxiliary	DP-200N1	B400-FGS-001	POWER CABLE	P4	3G2.5
12	83108-CEL	System Server / Network Cabinet – Auxiliary	DP-200N1	B400-NET-001	POWER CABLE	P4	3G2.5
13	83109-CEL	Server cabiner ITER – Auxiliary	DP-200N1	B400-SRV-001	POWER CABLE	P4	3G2.5
14	83110-CEL	UCP – Instrument Air Package –A–63000 – Auxiliary	DP-200N1	CP-630E1	POWER CABLE	P4	3G2.5
15	83111-CEL	UCP – N2 Package – Auxiliary	DP-200N1	CP-640E1	POWER CABLE	P4	3G2.5
16	83117-CEL	Auxiliary Trafo SOLAR 0,5MVA	DP-200N1	CP-200E2	POWER CABLE	P4	3G2.5
17	83118-CEL	Auxiliary GIS	DP-200N1	CP-100E1	POWER CABLE	P4	3G6
18	83119-CEL	Auxiliary 6.6kV Switchboard	DP-200N1	SG-100D1	POWER CABLE	P4	3G2.5
19	83043-CEL	DB – Lighting & Small Power – BoP	SG-200N1	DP-200N1	POWER CABLE	P4	5G50
20	P-EJB-200N1-10-L3-01	Emergency Lighting Stairs	DP-200N1	EJB-200N1-10-L3-01	POWER CABLE	P4	4G4_E
21	P-EJB-200N1-17-L1-01	TRACE HEATING – PROCESS LINES – FEEDER 4 (WW LINES) Cold JB	DP-200N1	EJB-200N1-17-L1-01	POWER CABLE	P4	3G6
22	P-EJB-200N1-02-L1-01	Normal Lighting Upper Deck	DP-200N1	EJB-200N1-02-L1-01	POWER CABLE	P4	3G4
23	P-EJB-200N1-08-L1-04	Emergency Lighting Upper Deck	DP-200N1	EJB-200N1-08-L1-04	POWER CABLE	P4	4G4_E
24	P-EJB-200N1-14-L1-01	TRACE HEATING – PROCESS LINES – FEEDER 1 (SWS LINES) Cold JB	DP-200N1	EJB-200N1-14-L1-01	POWER CABLE	P4	3G6
25	P-EJB-200N1-15-L2-01	TRACE HEATING – PROCESS LINES – FEEDER 2 (CI LINES) Cold JB	DP-200N1	EJB-200N1-15-L2-01	POWER CABLE	P4	3G6
26	P-ETB-200N1-16-L3-01	TRACE HEATING – PROCESS LINES – FEEDER 3 (DM LINE)	DP-200N1	ETB-200N1-16-L3-01	POWER CABLE	P4	3G6
27	83112-CEL	Auxiliary Trafo OLTC	DP-200N1	CP-100E2	POWER CABLE	P4	5G4
28	83113-CEL	Auxiliary Trafo AVR	DP-200N1	CP-100E3	POWER CABLE	P4	3G2.5
29	83114-CEL	Auxiliary Trafo 7MVA	DP-200N1	CP-100E4	POWER CABLE	P4	3G2.5
30	83115-CEL	Auxiliary NER	DP-200N1	RR-100D1	POWER CABLE	P4	3G2.5
31	83116-CEL	Auxiliary Trafo 1,6MVA	DP-200N1	CP-200E1	POWER CABLE	P4	3G2.5
32	83120-CEL	Auxiliary LV	DP-200N1	SG-200N1	POWER CABLE	P4	3G2.5
33	83121-CEL	Auxiliary LV SWBD 800/460V	DP-200N1	SG-200D2	POWER CABLE	P4	3G2.5
34	P-EJB-200N1-03-L2-01	Normal Lighting Lower Deck – Circuit No. 1	DP-200N1	EJB-200N1-03-L2-01	POWER CABLE	P4	3G4
35	83122-CEL	AC UPS PAS AUXILIARY	DP-200N1	UP-200F3	POWER CABLE	P4	3G2.5
36	83123-CEL	AC UPS F&G AUXILIARY	DP-200N1	UP-200F4	POWER CABLE	P4	3G2.5
37	83124-CEL	DC BATTERY SYSTEM AUXILIARY	DP-200N1	UP-200F1	POWER CABLE	P4	3G2.5
38	P-EPH-200N1-01	Twilight Relay Sensor	DP-200N1	EPH-200N1-01	POWER CABLE	P5	3G4
39	83125-CEC	LV Switchgear	DP-200N1	SG-200N1	CONTROL CABLE	P7	7C X 1.5
40	83126-CEC	LV Switchgear	DP-200N1	SG-200N1	CONTROL CABLE	P7	7C X 1.5
41	83127-CEC	LV Switchgear	DP-200N1	SG-200N1	CONTROL CABLE	P7	7C X 1.5

01



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S. (EL+23.310m)

CABLE TYPE DETAILS

P3 - SINGLE CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P4 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZHOUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P5 - MULTI CORE, 0.6/1 KV, FIRE RESISTANT, STRANDED COPPER, MICA/GLASS TAPE, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, GALVANIZED STEEL WIRE BRAID ARMOURED CABLE, FLAME RETARDANT
P7 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P8 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, COPPER WIRE BRAID SCREEN, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
C1- SPECIAL SIGNAL CABLE MULTI CORE, STRANDED COPPER, XLPE INSULATION, TIN CU BRAIDED SCREEN PUR JACKET, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
C2- SINGLE CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, STRANDED COPPER, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT

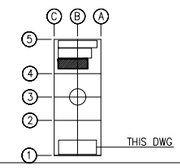
LEGEND

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20112**

REV.:	DATE:	SIGNATURE:
1_B	02/09/24	G.Randi

ROSETTI MARINO SpA

KEY PLAN



REFERENCE DOCUMENTS

123A90-DDL-EL-DD-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE
123A90-DDL-EL-DL-20105	ELECTRICAL EQUIPMENT LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DL-20123	LIGHTING & SOCKET LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DD-20095	MCT COMPOSITION
1724000049-EL-LIS-00044	B-200 ELECTRICAL COMPONENTS LIST AND DS - E&I SHELTERS
123A90-DDL-EL-DL-20115	ELECTRICAL MCT LAYOUT - LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	SAM	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	18/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

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

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:50
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 02/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20112	SHEET 6of11	REV. 01

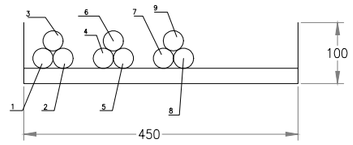
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DRAWING NO. 123A90-DDL-EL-DL-20112

REV. 01

L-450-101-LVT-021 VIA E-MCT-205

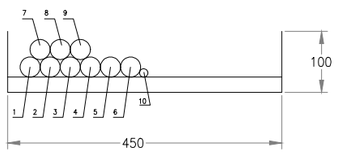
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POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83001-CEL-1-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
2	83001-CEL-2-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
3	83001-CEL-3-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
4	83001-CEL-1-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
5	83001-CEL-2-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
6	83001-CEL-3-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
7	83001-CEL-1-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
8	83001-CEL-2-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
9	83001-CEL-3-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300

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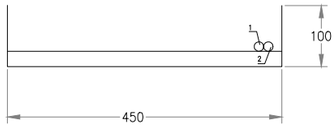
L-450-101-LVT-021 VIA E-MCT-206



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83001-CEL-4-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
2	83001-CEL-5-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
3	83001-CEL-4-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
4	83001-CEL-5-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
5	83001-CEL-4-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
6	83001-CEL-5-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
7	83001-CEL-1-N	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
8	83001-CEL-2-N	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
9	83001-CEL-3-N	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300

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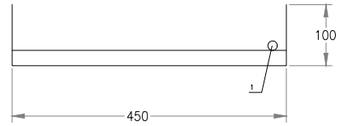
L-450-101-LVT-021 VIA E-MCT-203



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83005-CEC	6.6KV HV Switchgear	SG-200N1	SG-100D1	CONTROL CABLE	P7	7C X 1.5
2	83006-CEC	6.6KV HV Switchgear	SG-200N1	SG-100D1	CONTROL CABLE	P7	7C X 1.5

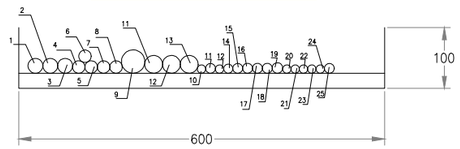
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L-450-101-LVT-021 VIA E-MCT-201



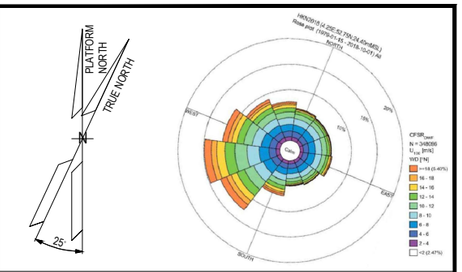
POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	82013-CEC	LV Switchgear	SG-100D1	SG-200N1	CONTROL CABLE	P7	7C X 1.5

B 102 (L-600-101-LVT-019)



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POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83020-CEL	Crane	SG-200N1	JB-200E3	POWER CABLE	P4	5G16
2	83025-CEL	HVAC panel – UPS Room	SG-200N1	B300-HSB-001	POWER CABLE	P4	5G16
3	83026-CEL	HVAC panel – ITER	SG-200N1	B400-HSB-001	POWER CABLE	P4	5G16
4	83010-CEL-L1	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
5	83010-CEL-L2	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
6	83010-CEL-L3	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
7	83010-CEL-N	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
8	83010-CEL-PE	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P6	1C X 95
9	83021-CEL-01	Welding Sockets (Top Deck) JB's	SG-200N1	JB-200E6	POWER CABLE	P4	5G50
10	84318-CEL	LV Switchboard Auxiliary	DP-200F3	SG-200N1	POWER CABLE	P5	3G2.5
11	83029-CEL	AC UPS PAS – 30min – Line B	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
12	83030-CEL	AC UPS PAS – 30min – Bypass	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
13	83031-CEL	AC UPS F&G – 8h – Line A	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
14	P-EJB-200N1-02-L1-01	Normal Lighting Upper Deck	DP-200N1	EJB-200N1-02-L1-01	POWER CABLE	P4	3G4
15	P-EJB-200N1-08-L1-04	Emergency Lighting Upper Deck	DP-200N1	EJB-200N1-08-L1-04	POWER CABLE	P4	4G4_E
16	P-EJB-200N1-14-L1-01	TRACE HEATING – PROCESS LINES – FEEDER 1 (SWS LINES) Cold JB	DP-200N1	EJB-200N1-14-L1-01	POWER CABLE	P4	3G6
17	P-EJB-200N1-15-L2-01	TRACE HEATING – PROCESS LINES – FEEDER 2 (CI LINES) Cold JB	DP-200N1	EJB-200N1-15-L2-01	POWER CABLE	P4	3G6
18	P-ETB-200N1-16-L3-01	TRACE HEATING – PROCESS LINES – FEEDER 3 (DM LINE)	DP-200N1	ETB-200N1-16-L3-01	POWER CABLE	P4	3G6
19	83112-CEL	Auxiliary Trafo OLTC	DP-200N1	CP-100E2	POWER CABLE	P4	5G4
20	83113-CEL	Auxiliary Trafo AVR	DP-200N1	CP-100E3	POWER CABLE	P4	3G2.5
21	83114-CEL	Auxiliary Trafo 7MVA	DP-200N1	CP-100E4	POWER CABLE	P4	3G2.5
22	83115-CEL	Auxiliary NER	DP-200N1	RR-100D1	POWER CABLE	P4	3G2.5
23	83116-CEL	Auxiliary Trafo 1,6MVA	DP-200N1	CP-200E1	POWER CABLE	P4	3G2.5
24	83124-CEL	DC BATTERY SYSTEM AUXILIARY	DP-200N1	UP-200F1	POWER CABLE	P4	3G2.5
25	P-EJB-200N1-10-L3-01	Emergency Lighting stairs	DP-200N1	EJB-200N1-10-L3-01	POWER CABLE	P4	4G4_E



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S. (EL+23.310m)

CABLE TYPE DETAILS

P3 - SINGLE CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P4 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZHOUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P5 - MULTI CORE, 0.6/1 KV, FIRE RESISTANT, STRANDED COPPER, MICA/GLASS TAPE, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, GALVANIZED STEEL WIRE BRAID ARMOURED CABLE, FLAME RETARDANT
P7 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P8 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, COPPER WIRE BRAID SCREEN, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
C1- SPECIAL SIGNAL CABLE MULTI CORE, STRANDED COPPER, XLPE INSULATION, TIN CU BRAIDED SCREEN PUR JACKET, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
C2- SINGLE CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, STRANDED COPPER, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT

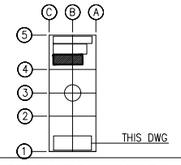
LEGEND

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20112**

REV.:	DATE:	SIGNATURE:
1_B	02/09/24	G.Randi

ROSETTI MARINO SpA

KEY PLAN



REFERENCE DOCUMENTS

123A90-DDL-EL-DD-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE
123A90-DDL-EL-DL-20105	ELECTRICAL EQUIPMENT LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DL-20123	LIGHTING & SOCKET LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DD-20095	MCT COMPOSITION
1724000049-EL-LIS-00044	B-200 ELECTRICAL COMPONENTS LIST AND DS - E&I SHELTERS
123A90-DDL-EL-DL-20115	ELECTRICAL MCT LAYOUT - LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	SAM	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	18/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

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

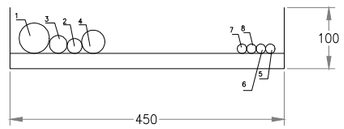
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:50
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 02/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20112	SHEET 7of11	REV. 01

File Name : 123A90-DDL-EL-DL-20112

DRAWING NO. 123A90-DDL-EL-DL-20112

REV. 01

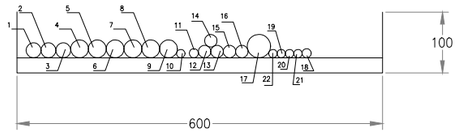
L-450-101-LVT-024



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83016-CEL	Water Package	SG-200N1	JB-500E8	POWER CABLE	P4	5G70
2	83020-CEL	Crane	SG-200N1	JB-200E3	POWER CABLE	P4	5G16
3	83030-CEL	AC UPS PAS - 30min - Bypass	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
4	83043-CEL	DB - Lighting & Small Power - BoP	SG-200N1	DP-200N1	POWER CABLE	P4	5G50
5	83016-CEC	LV Switchgear	SG-200D2	SG-200N1	CONTROL CABLE	P7	7C X 1.5
6	83125-CEC	LV Switchgear	DP-200N1	SG-200N1	CONTROL CABLE	P7	7C X 1.5
7	83126-CEC	LV Switchgear	DP-200N1	SG-200N1	CONTROL CABLE	P7	7C X 1.5
8	83127-CEC	LV Switchgear	DP-200N1	SG-200N1	CONTROL CABLE	P7	7C X 1.5

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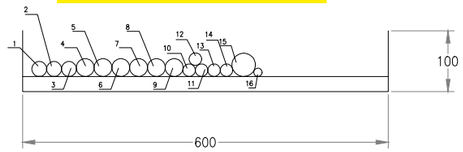
L-600-101-LVT-020 VIA-E-MCT-204



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83020-CEL	Crane	SG-200N1	JB-200E3	POWER CABLE	P4	5G16
2	83025-CEL	HVAC panel - UPS Room	SG-200N1	B300-HSB-001	POWER CABLE	P4	5G16
3	83026-CEL	HVAC panel - ITER	SG-200N1	B400-HSB-001	POWER CABLE	P4	5G16
4	83028-CEL	AC UPS PAS - 30min - Line A	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
5	83029-CEL	AC UPS PAS - 30min - Line B	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
6	83030-CEL	AC UPS PAS - 30min - Bypass	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
7	83031-CEL	AC UPS F&G - 8h - Line A	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
8	83032-CEL	AC UPS F&G - 8h - Line B	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
9	83033-CEL	AC UPS F&G - 8h - Line Bypass	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
10	84315-CEL	UCP - HVAC LV Room	DP-200F3	B200-HSB-001	POWER CABLE	P5	3G2.5
11	P-EJB-200N1-03-L2-01	Normal Lighting Lower Deck - Circuit No. 1	DP-200N1	EJB-200N1-03-L2-01	POWER CABLE	P4	3G4
12	83010-CEL-L1	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
13	83010-CEL-L2	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
14	83010-CEL-L3	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
15	83010-CEL-N	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
16	83010-CEL-PE	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P6	1C X 95
17	83021-CEL-01	Welding Sockets (Top Deck) JB's	SG-200N1	JB-200E6	POWER CABLE	P4	5G50
18	P-EPH-200N1-01	Twilight Relay Sensor	DP-200N1	EPH-200N1-01	POWER CABLE	P5	3G4
19	83123-CEL	AC UPS F&G AUXILIARY	DP-200N1	UP-200F4	POWER CABLE	P4	3G2.5
20	84318-CEL	LV Switchboard Auxiliary	DP-200F3	SG-200N1	POWER CABLE	P5	3G2.5
21	84319-CEL	LV SWBD 800/460V Auxiliary	DP-200F3	SG-200D2	POWER CABLE	P5	3G2.5
22	83122-CEL	AC UPS PAS AUXILIARY	DP-200N1	UP-200F3	POWER CABLE	P4	3G2.5

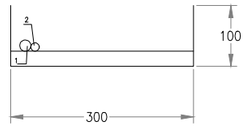
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L-600-101-LVT-017 VIA-E-MCT-204



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83020-CEL	Crane	SG-200N1	JB-200E3	POWER CABLE	P4	5G16
2	83025-CEL	DISTRIBUTION & HVAC panels - UPS Room	SG-200N1	B300-HSB-001	POWER CABLE	P4	5G16
3	83026-CEL	DISTRIBUTION & HVAC panels - ITER	SG-200N1	B400-HSB-001	POWER CABLE	P4	5G16
4	83028-CEL	AC UPS PAS - 30min - Line A	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
5	83029-CEL	AC UPS PAS - 30min - Line B	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
6	83030-CEL	AC UPS PAS - 30min - Bypass	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
7	83031-CEL	AC UPS F&G - 8h - Line A	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
8	83032-CEL	AC UPS F&G - 8h - Line B	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
9	83033-CEL	AC UPS F&G - 8h - Line Bypass	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
10	83010-CEL-L1	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
11	83010-CEL-L2	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
12	83010-CEL-L3	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
13	83010-CEL-N	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
14	83010-CEL-PE	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P6	1C X 95
15	83021-CEL-01	Welding Sockets (Top Deck)	SG-200N1	JB-200E6	POWER CABLE	P4	5G50
16	84318-CEL	LV Switchboard Auxiliary	DP-200F3	SG-200N1	POWER CABLE	P5	3G2.5

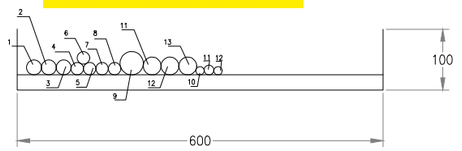
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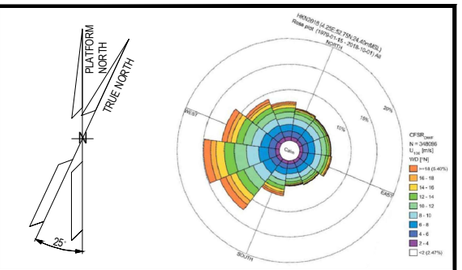
POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	84315-CEL	UCP - HVAC LV Room	DP-200F3	B200-HSB-001	POWER CABLE	P5	3G2.5
2	83024-CEL	DISTRIBUTION & HVAC Panel - LV Room	SG-200N1	B200-HSB-001	POWER CABLE	P4	5G16

01

L-600-101-LVT-019 VIA-E-MCT-204



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83020-CEL	Crane	SG-200N1	JB-200E3	POWER CABLE	P4	5G16
2	83025-CEL	HVAC panel - UPS Room	SG-200N1	B300-HSB-001	POWER CABLE	P4	5G16
3	83026-CEL	HVAC panel - ITER	SG-200N1	B400-HSB-001	POWER CABLE	P4	5G16
4	83010-CEL-L1	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
5	83010-CEL-L2	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
6	83010-CEL-L3	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
7	83010-CEL-N	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
8	83010-CEL-PE	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P6	1C X 95
9	83021-CEL-01	Welding Sockets (Top Deck) JB's	SG-200N1	JB-200E6	POWER CABLE	P4	5G50
10	84318-CEL	LV Switchboard Auxiliary	DP-200F3	SG-200N1	POWER CABLE	P5	3G2.5
11	83029-CEL	AC UPS PAS - 30min - Line B	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
12	83030-CEL	AC UPS PAS - 30min - Bypass	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
13	83031-CEL	AC UPS F&G - 8h - Line A	SG-200N1	UP-200F4	POWER CABLE	P4	4G35



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S. (EL+23.310m)

CABLE TYPE DETAILS

P3 - SINGLE CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P4 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZHOUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P5 - MULTI CORE, 0.6/1 KV, FIRE RESISTANT, STRANDED COPPER, MICA/GLASS TAPE, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, GALVANIZED STEEL WIRE BRAID ARMOURED CABLE, FLAME RETARDANT
P7 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P8 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, COPPER WIRE BRAID SCREEN, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
C1- SPECIAL SIGNAL CABLE MULTI CORE, STRANDED COPPER, XLPE INSULATION, TIN CU BRAIDED SCREEN PUR JACKET, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
C2- SINGLE CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, STRANDED COPPER, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT

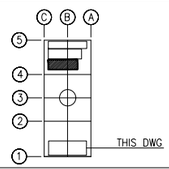
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VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20112**

REV.:	DATE:	SIGNATURE:
1_B	02/09/24	G.Randi

ROSETTI MARINO SpA

KEY PLAN



REFERENCE DOCUMENTS

123A90-DDL-EL-DD-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE
123A90-DDL-EL-DL-20105	ELECTRICAL EQUIPMENT LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DL-20123	LIGHTING & SOCKET LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DD-20095	MCT COMPOSITION
1724000049-EL-LIS-00044	B-200 ELECTRICAL COMPONENTS LIST AND DS - E&I SHELTERS
123A90-DDL-EL-DL-20115	ELECTRICAL MCT LAYOUT - LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	SAM	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	18/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

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

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:50
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 02/08/24

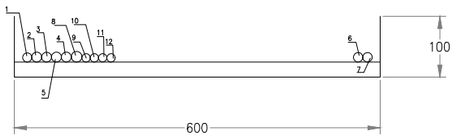
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File Name : 123A90-DDL-EL-DL-20112

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REV. 01

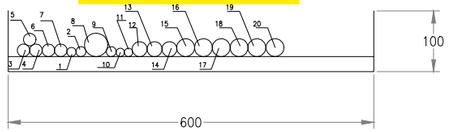
L-600-101-LVT-017 VIA-E-MCT-203



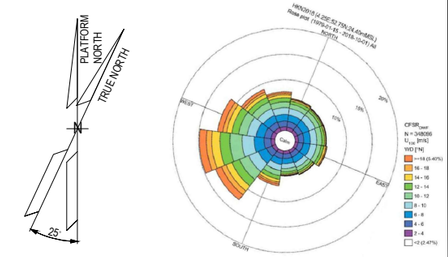
POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	P-EJB-200N1-02-L1-01	Normal Lighting Upper Deck	DP-200N1	EJB-200N1-02-L1-01	POWER CABLE	P4	3G4
2	P-ETB-200N1-16-L3-01	TRACE HEATING - PROCESS LINES - FEEDER 3 (DM LINE)	DP-200N1	ETB-200N1-16-L3-01	POWER CABLE	P4	3G6
3	P-EJB-200N1-08-L1-04	Emergency Lighting Upper Deck	DP-200N1	EJB-200N1-08-L1-04	POWER CABLE	P4	4G4_E
4	P-EJB-200N1-14-L1-01	TRACE HEATING - PROCESS LINES - FEEDER 1 (SWS LINES) Cold JB	DP-200N1	EJB-200N1-14-L1-01	POWER CABLE	P4	3G6
5	P-EJB-200N1-15-L2-01	TRACE HEATING - PROCESS LINES - FEEDER 2 (CI LINES) Cold JB	DP-200N1	EJB-200N1-15-L2-01	POWER CABLE	P4	3G6
6	83005-CEC	6.6KV HV Switchgear	SG-200N1	SG-100D1	CONTROL CABLE	P7	7C X 1.5
7	83006-CEC	6.6KV HV Switchgear	SG-200N1	SG-100D1	CONTROL CABLE	P7	7C X 1.5
8	83112-CEL	Auxiliary Trafo OLTC	DP-200N1	CP-100E2	POWER CABLE	P4	5G4
9	83113-CEL	Auxiliary Trafo AVR	DP-200N1	CP-100E3	POWER CABLE	P4	3G2.5
10	83114-CEL	Auxiliary Trafo 7MVA	DP-200N1	CP-100E4	POWER CABLE	P4	3G2.5
11	83115-CEL	Auxiliary NER	DP-200N1	RR-100D1	POWER CABLE	P4	3G2.5
12	83116-CEL	Auxiliary Trafo 1,6MVA	DP-200N1	CP-200E1	POWER CABLE	P4	3G2.5

01

B 107 (L-600-101-LVT-020)



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	P-EJB-200N1-03-L2-01	Normal Lighting Lower Deck - Circuit No. 1	DP-200N1	EJB-200N1-03-L2-01	POWER CABLE	P4	3G4
2	P-ETB-200N1-16-L3-01	TRACE HEATING - PROCESS LINES - FEEDER 3 (DM LINE)	DP-200N1	ETB-200N1-16-L3-01	POWER CABLE	P4	3G6
3	83010-CEL-L1	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
4	83010-CEL-L2	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
5	83010-CEL-L3	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
6	83010-CEL-N	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
7	83010-CEL-PE	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P6	1C X 95
8	83021-CEL-01	Welding Sockets (Top Deck) JB's	SG-200N1	JB-200E6/ JB-200E7	POWER CABLE	P4	5G50
9	P-ETB-200N1-15-L2-01	Trace Heating - Process Lines - Feeder 2	DP-200N1	ETB-200N1-15-L2-01	POWER CABLE	P4	3G6
10	83122-CEL	AC UPS PAS AUXILIARY	DP-200N1	UP-200F3	POWER CABLE	P4	3G2.5
11	83123-CEL	AC UPS F&G AUXILIARY	DP-200N1	UP-200F4	POWER CABLE	P4	3G2.5
12	83020-CEL	Crane	SG-200N1	JB-200E3	POWER CABLE	P4	5G16
13	83025-CEL	DISTRIBUTION & HVAC panel - UPS Room	SG-200N1	B300-HSB-001	POWER CABLE	P4	5G16
14	83026-CEL	DISTRIBUTION & HVAC panel - ITER	SG-200N1	B400-HSB-001	POWER CABLE	P4	5G16
15	83028-CEL	AC UPS PAS - 30min - Line A	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
16	83029-CEL	AC UPS PAS - 30min - Line B	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
17	83030-CEL	AC UPS PAS - 30min - Bypass	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
18	83031-CEL	AC UPS F&G - 8h - Line A	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
19	83032-CEL	AC UPS F&G - 8h - Line B	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
20	83033-CEL	AC UPS F&G - 8h - Line Bypass	SG-200N1	UP-200F4	POWER CABLE	P4	4G35



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S. (EL+23.310m)

CABLE TYPE DETAILS

P3 - SINGLE CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P4 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZHOUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P5 - MULTI CORE, 0.6/1 KV, FIRE RESISTANT, STRANDED COPPER, MICA/GLASS TAPE, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, GALVANIZED STEEL WIRE BRAID ARMOURED CABLE, FLAME RETARDANT
P7 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P8 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, COPPER WIRE BRAID SCREEN, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
C1- SPECIAL SIGNAL CABLE MULTI CORE, STRANDED COPPER, XLPE INSULATION, TIN CU BRAIDED SCREEN PUR JACKET, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
C2- SINGLE CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, STRANDED COPPER, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT

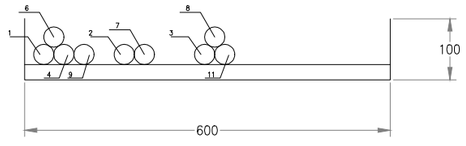
LEGEND

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20112**

REV.:	DATE:	SIGNATURE:
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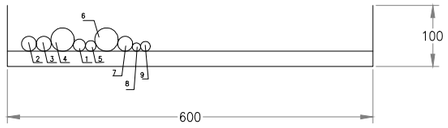
ROSETTI MARINO SpA

L-600-101-LVT-016 VIA-E-MCT-205

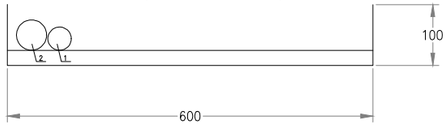


POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83001-CEL-1-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
2	83001-CEL-2-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
3	83001-CEL-3-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
4	83001-CEL-1-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
6	83001-CEL-1-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
7	83001-CEL-2-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
8	83001-CEL-3-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
9	83001-CEL-2-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
11	83001-CEL-3-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300

B103 (L-600-101-LVT-017)



B103 (L-600-101-LVT-016)



B103 (L-600-101-LVT-017)

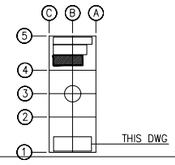
POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83011-CEL	BESS PCS Cabinet	SG-200N1	CP-850F3	POWER CABLE	P4	4C X 10
2	83025-CEL	DISTRIBUTION & HVAC panel - UPS Room	SG-200N1	B300-HSB-001	POWER CABLE	P4	5G16
3	83026-CEL	DISTRIBUTION & HVAC panel - ITER	SG-200N1	B400-HSB-001	POWER CABLE	P4	5G16
4	83043-CEL	DB - Lighting & Small Power - BoP	SG-200N1	DP-200N1	POWER CABLE	P4	5G50
5	82013-CEC	LV Switchgear	SG-100D1	SG-200N1	CONTROL CABLE	P7	7C X 1.5
6	83021-CEL-01	Welding Sockets (Top Deck) JB's	SG-200N1	JB-200E6/ JB-200E7	POWER CABLE	P4	5G50
7	83023-CEL	DISTRIBUTION & HVAC Panel - HV Room	SG-200N1	B100-HSB-001	POWER CABLE	P4	5G16
8	83124-CEL	DC BATTERY SYSTEM AUXILIARY	DP-200N1	UP-200F1	POWER CABLE	P4	3G2.5
9	P-EJB-200N1-10-L3-01	Emergency Lighting stairs	DP-200N1	EJB-200N1-10-L3-01	POWER CABLE	P4	4G4_E

B103 (L-600-101-LVT-016)

01

POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83022-CEL-01	Welding Sockets (Lower Deck)	SG-200N1	JB-200E4	POWER CABLE	P4	5G50
2	83017-CEL-1	Instrument Air Package	SG-200N1	K-63001A	POWER CABLE	P4	5G70

KEY PLAN



REFERENCE DOCUMENTS

123A90-DDL-EL-DD-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE
123A90-DDL-EL-DL-20105	ELECTRICAL EQUIPMENT LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DL-20123	LIGHTING & SOCKET LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DD-20095	MCT COMPOSITION
1724000049-EL-LIS-00044	B-200 ELECTRICAL COMPONENTS LIST AND DS - E&I SHELTERS
123A90-DDL-EL-DL-20115	ELECTRICAL MCT LAYOUT - LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	SAM	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	18/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

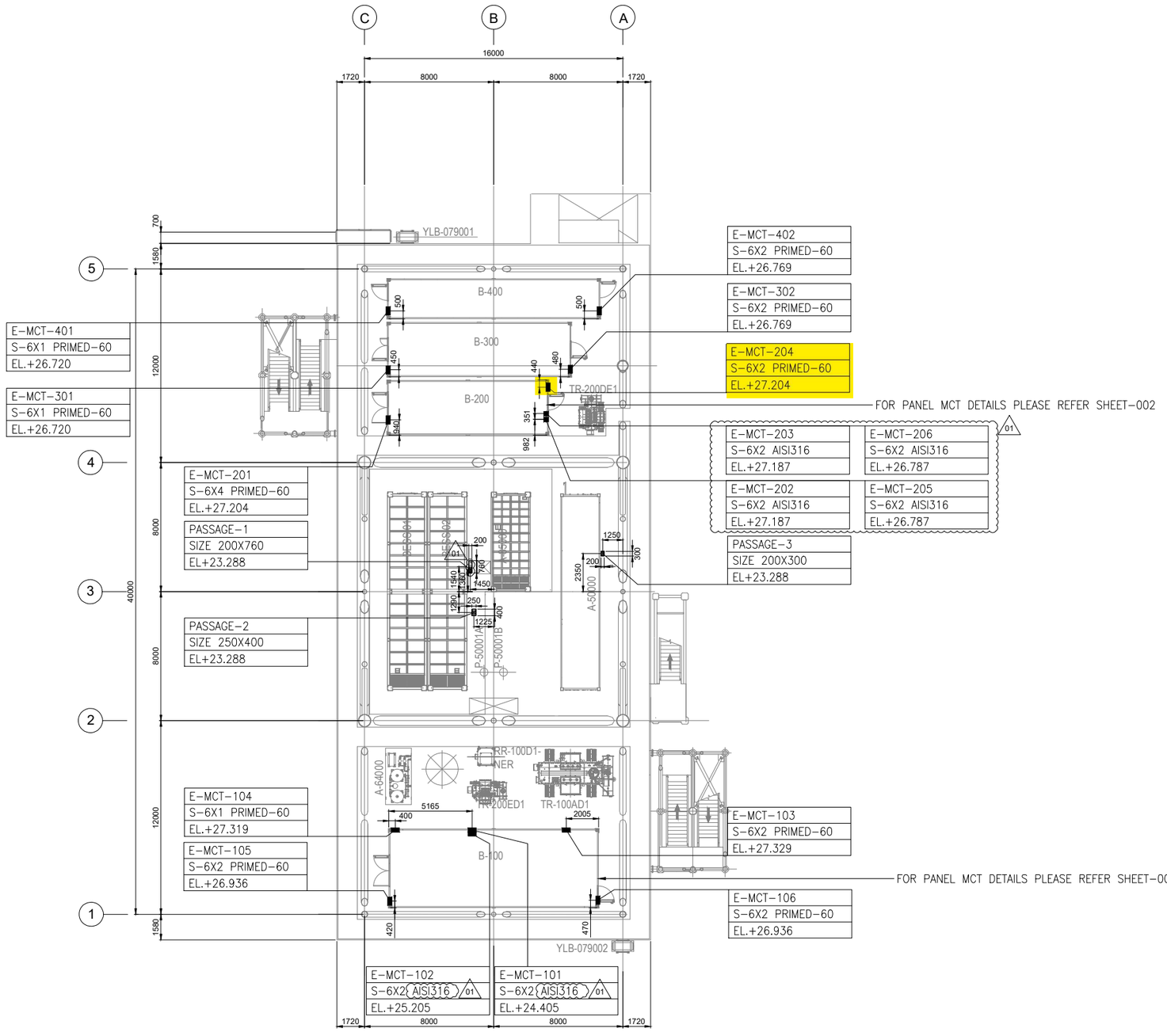
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BASE LOAD POWER HUB (BLPH)
ELECTRICAL CABLE ROUTING LAYOUT
LV SWITCHROOM

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:50
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 02/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20112	SHEET 9of11	REV. 01

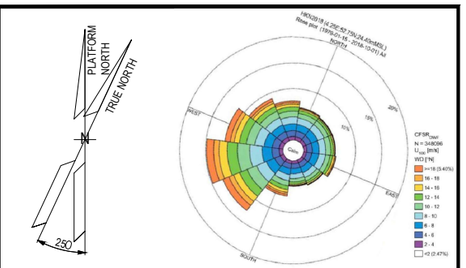
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DRAWING NO. 123A90-DDL-EL-DL-20115

REV. 01



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



NOTES

GENERAL NOTES:

1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. ALL ELEVATIONS RELATE TO LOWEST ASTRONOMICAL TIDE (LAT) = 0.000.

NOTES:

1. THIS DOCUMENT IS VALID FOR TAGGING, SIZE AND LOCATION OF THE MCT.

LEGEND

LEGEND MCT FRAME

S 6X1 (FOR E-MCT-104) 160.6 208 ELEVATION

S 6X1 (FOR E-MCT-301, E-MCT-401) 01 01 238 ELEVATION

S 6X2 271 208 ELEVATION

LEGEND PASSAGE FRAME W H ELEVATION

S 6X3 401.5 208 ELEVATION

S 6X4 532 208 ELEVATION

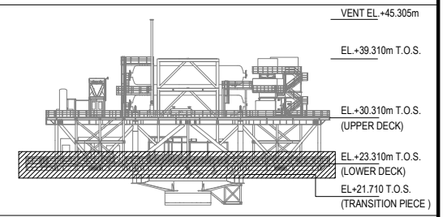
	HEIGHT in mm	WIDTH in mm
PASSAGE-1	100	300
PASSAGE-2	150	200
PASSAGE-3	100	200

MULTI CABLE TRANSIT

PASSAGE

TAG — TAGGING
SIZE-MATERIAL-DEPTH — TYPICAL
EL. — ELEVATION

KEY PLAN



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-20095	MCT COMPOSITION
123A90-DDL-EL-DL-20114	ELECTRICAL MCT LAYOUT-TOP DECK
123A90-DDL-EL-DL-20116	ELECTRICAL MCT LAYOUT- BELOW LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	23/07/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	12/04/24	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

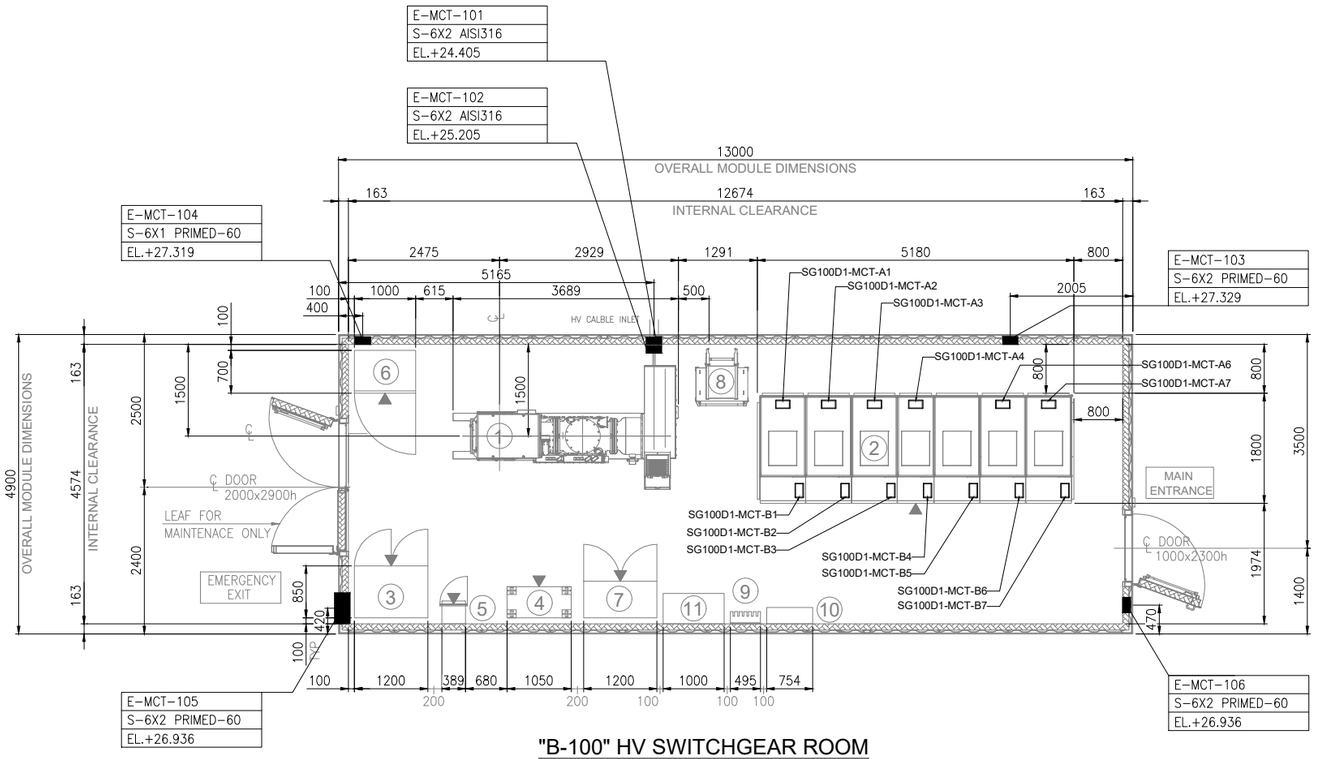
CROSSWIND | ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
ELECTRICAL MCT LAYOUT
LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN SPS	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 18/07/24
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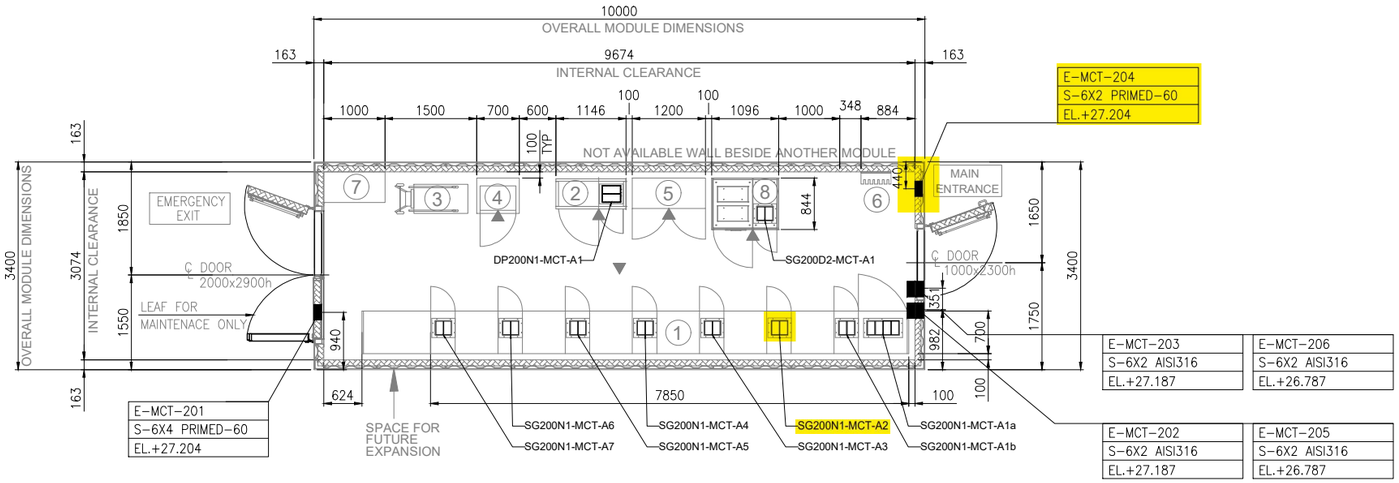
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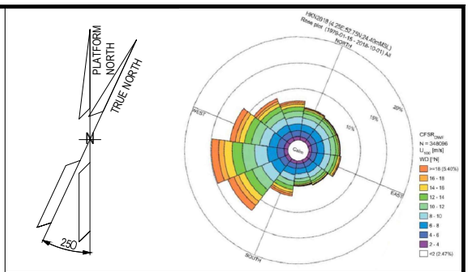
"B-100" HV SWITCHGEAR ROOM

SG-100D1 – 6.6KV SWITCHGEAR MCT (NOTE-2)	
SG100D1-MCT-A1	S 6X1 PRIMED
SG100D1-MCT-A2	S 6X1 PRIMED
SG100D1-MCT-A3	S 6X1 PRIMED
SG100D1-MCT-A4	S 6X1 PRIMED
SG100D1-MCT-A6	S 6X1 PRIMED
SG100D1-MCT-A7	S 6X1 PRIMED
SG100D1-MCT-B1	S 6X1 PRIMED
SG100D1-MCT-B2	S 6X1 PRIMED
SG100D1-MCT-B3	S 6X1 PRIMED
SG100D1-MCT-B4	S 6X1 PRIMED
SG100D1-MCT-B5	S 6X1 PRIMED
SG100D1-MCT-B6	S 6X1 PRIMED
SG100D1-MCT-B7	S 6X1 PRIMED



"B-200" LV SWITCHGEAR ROOM

SG-200N1 – LV SWITCHGEAR MCT (NOTE-2)	
SG200N1-MCT-A1a	S 6X4 PRIMED
SG200N1-MCT-A1b	S 6X2 PRIMED
SG200N1-MCT-A2	S 6X2 PRIMED
SG200N1-MCT-A3	S 6X2 PRIMED
SG200N1-MCT-A4	S 6X2 PRIMED
SG200N1-MCT-A5	S 6X2 PRIMED
SG200N1-MCT-A6	S 6X2 PRIMED
SG200N1-MCT-A7	S 6X2 PRIMED
DP-200N1 – DB BOP MCT (NOTE-2)	
DP200N1-MCT-A1	S 8X2 PRIMED
SG-200D2 – SOLAR ACB MCT (NOTE-2)	
SG200D2-MCT-A1	S 6X2 PRIMED



NOTES

GENERAL NOTES:

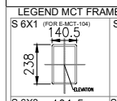
1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. ALL ELEVATIONS RELATE TO LOWEST ASTRONOMICAL TIDE (LAT) = 0.000.

NOTES:

1. THIS DOCUMENT IS VALID FOR TAGGING, SIZE AND LOCATION OF THE MCT.
2. THE MCT FRAMES ARE IN VENDOR SCOPE AND FIXED ON THE VENDOR EQUIPMENT ITEM SG-100D1,SG-200N1, DP-200N1, SG-200D2

LEGEND

LEGEND MCT FRAME



LEGEND PASSAGE FRAME

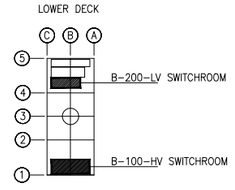


	HEIGHT in mm	WIDTH in mm
PASSAGE-1	100	300
PASSAGE-2	150	200
PASSAGE-3	100	200

MULTI CABLE TRANSIT

TAG	TAGGING
SIZE-MATERIAL-DEPTH	TYPICAL
EL.	ELEVATION

KEY PLAN



REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20104	ELECTRICAL EQUIPMENT LAYOUT - HV SWITCHROOM
123A90-DDL-EL-DL-20105	ELECTRICAL EQUIPMENT LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DD-20095	MCT COMPOSITION

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	23/07/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	12/04/24	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

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TITLE :
BASE LOAD POWER HUB (BLPH)
ELECTRICAL MCT LAYOUT
LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:50
DRAWN SPS	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 18/07/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20115	SHEET 002	REV. 01

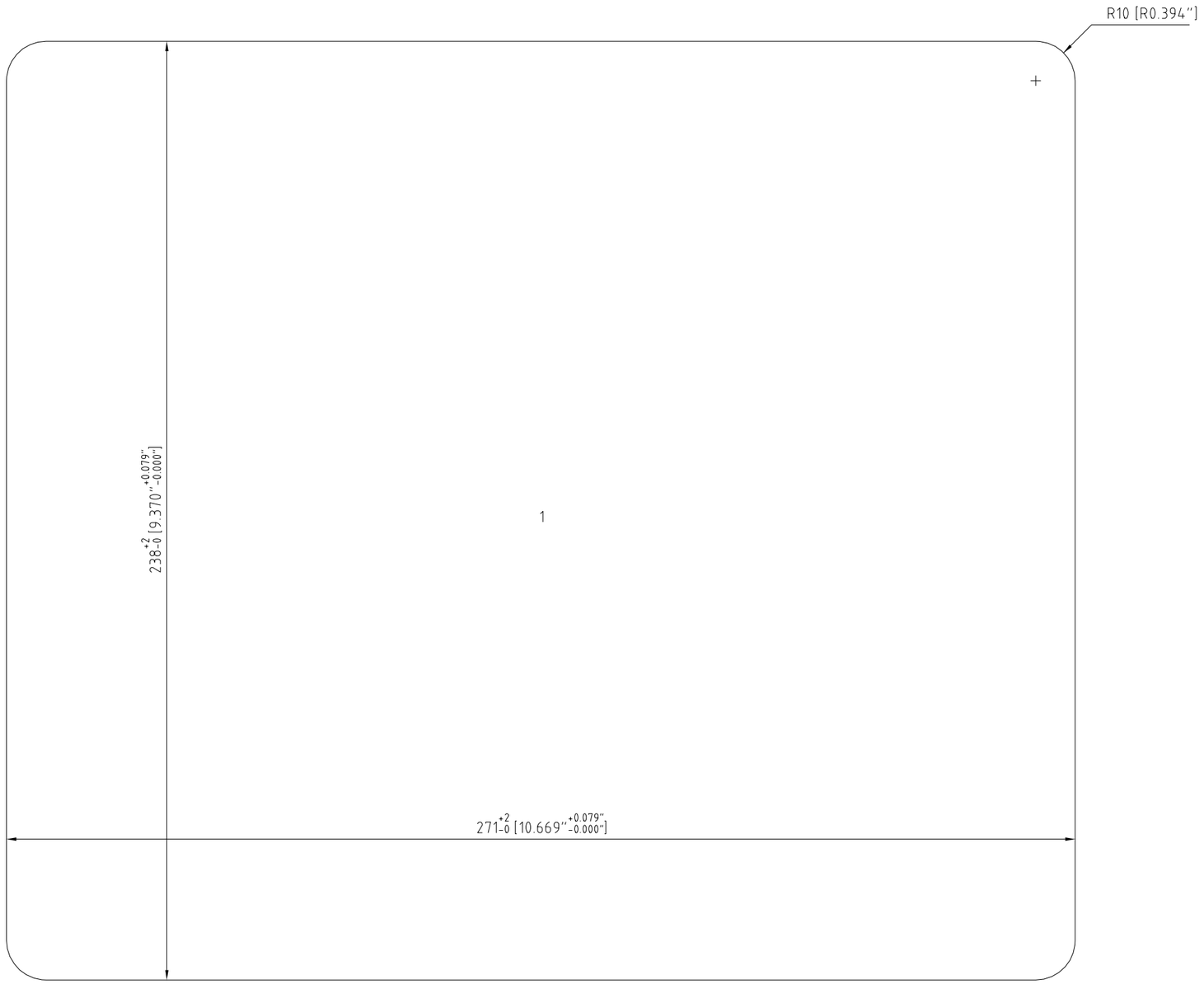
File Name : 123A90-DDL-EL-DL-20115

RTD Version No: 4.37.4.0

Drawing shows component layout according to design. Verification is needed to check if the configuration is valid for the application/certification intended.

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Cutout Detail

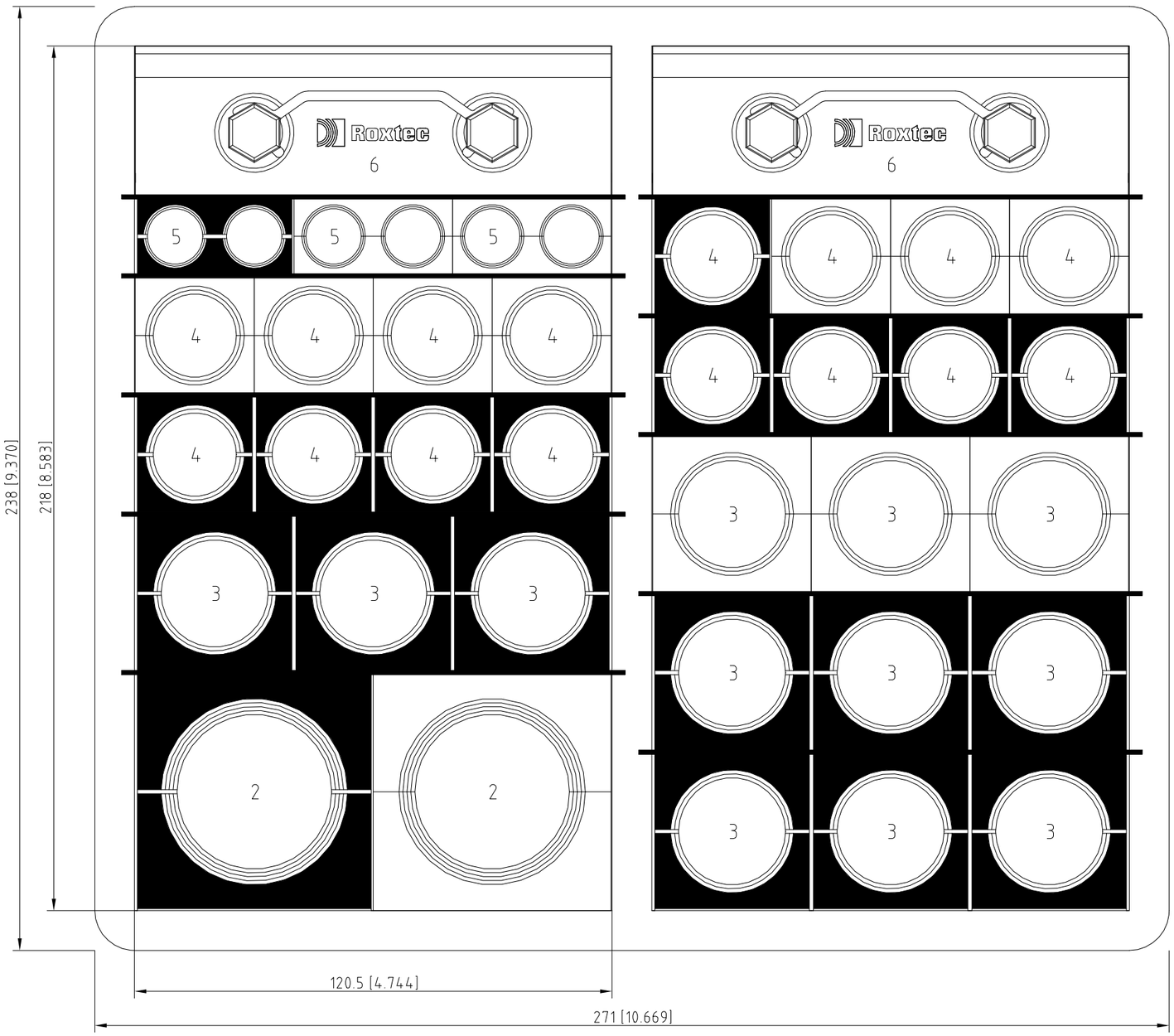
Frame: S 6x2 PRIMED Solution: 1

Item	Qty	Roxtec Packing Material mm ["]	Roxtec Art No	Weight Kg [lb]

Responsible: ARNESH	Created Date: 2024-07-10	Modify Date: 2024-07-17	Project: BLPH - ROS Location/ Sublocation	TotWeight: 12.1 [26.74]
Roxtec	Format: NTS		Transit name: E-MCT-204	Sheet No: 1/3
Client		Drawing number		Rev

RTD Version No: 4.37.4.0

CUTOUT TO FIT SOLUTION WELDING, 271x238 [10.669"x9.370"]



MODULE WITH PIPE | MODULE WITH CABLE | SPARE MODULE | SOLID MODULE

Detail Drawing

Solution: 1

Item	Qty	Roxtec Packing Material mm ["]	Roxtec Art No	Weight Kg [lb]
7	10	Stayplate 120 galv	ASP0001200018	0.1 [0.24]
6	2	Wedge 120 galv	ARW0001201018	0.8 [1.76]
5	3	RM 20W40 3.5-16.5 [0.138"-0.650"]	RM00120401000	0.1 [0.15]
4	16	RM 30 10-25 [0.394"-0.984"]	RM00100301000	0.1 [0.18]
3	12	RM 40 21.5-34.5 [0.846"-1.358"]	RM00100401000	0.1 [0.31]
2	2	RM 60 28-54 [1.102"-2.126"]	RM00100601000	0.3 [0.73]
1	1	S 6x2 PRIMED	S006000000212	5.6 [12.35]

Responsible	Created Date	Modify Date	Project	TotWeight
ARNESH	2024-07-10	2024-07-17	BLPH - ROS Location/ Sublocation	12.1 [26.74]
Roxtec	Format NTS		Transit name E-MCT-204	Sheet No 2/3
	Client	Drawing number		Rev

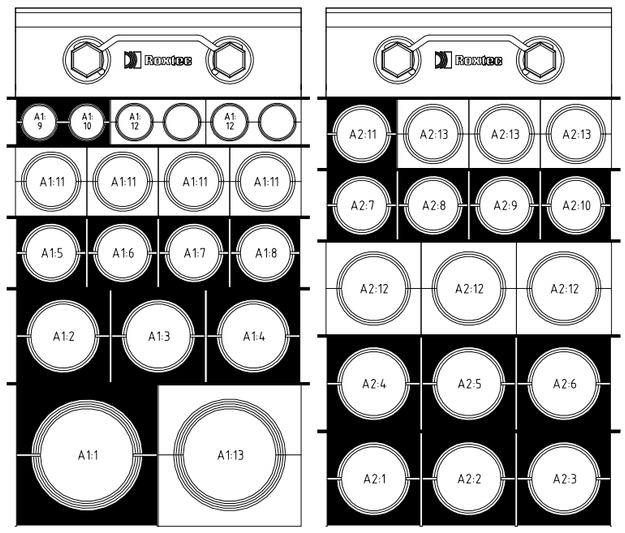
Drawing shows component layout according to design. Verification is needed to check if the configuration is valid for the application/certification intended.

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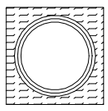
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A1 A2

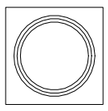
A1 A2

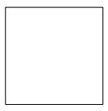


Pos	Cable ID	Name	Cable Type	Cable Category	OD (mm/ ["])	Module Type
A2:13						RM 30 10-25 [0.394"-0.984"]
A2:12						RM 40 21.5-34.5 [0.846"-1.358"]
A2:11	P-EJB-200N1-03-L2-01	Normal Lighting Lower Deck - Circuit No. 1	3G4	Power	14.3 [0.563"]	RM 30 10-25 [0.394"-0.984"]
A2:10	83010-CEL-N	Temporary Generator / Mobile Battery Pack	1C X 95	Power	17.3 [0.681"]	RM 30 10-25 [0.394"-0.984"]
A2:9	83010-CEL-L3	Temporary Generator / Mobile Battery Pack	1C X 95	Power	17.3 [0.681"]	RM 30 10-25 [0.394"-0.984"]
A2:8	83010-CEL-L2	Temporary Generator / Mobile Battery Pack	1C X 95	Power	17.3 [0.681"]	RM 30 10-25 [0.394"-0.984"]
A2:7	83010-CEL-L1	Temporary Generator / Mobile Battery Pack	1C X 95	Power	17.3 [0.681"]	RM 30 10-25 [0.394"-0.984"]
A2:6	83030-CEL	AC UPS PAS - 30min - Bypass	4G35	Power	27.4 [1.079"]	RM 40 21.5-34.5 [0.846"-1.358"]
A2:5	83029-CEL	AC UPS PAS - 30min - Line B	4G35	Power	27.4 [1.079"]	RM 40 21.5-34.5 [0.846"-1.358"]
A2:4	83028-CEL	AC UPS PAS - 30min - Line A	4G35	Power	27.4 [1.079"]	RM 40 21.5-34.5 [0.846"-1.358"]
A2:3	83026-CEL	HVAC panels - ITER	5G16	Power	24 [0.945"]	RM 40 21.5-34.5 [0.846"-1.358"]
A2:2	83025-CEL	HVAC panels - UPS Room	5G16	Power	24 [0.945"]	RM 40 21.5-34.5 [0.846"-1.358"]
A2:1	83020-CEL	Crane	5G16	Power	24 [0.945"]	RM 40 21.5-34.5 [0.846"-1.358"]
A1:13						RM 60 28-54 [1.102"-2.126"]
A1:12						RM 20W40 3.5-16.5 [0.138"-0.650"]
A1:11						RM 30 10-25 [0.394"-0.984"]
A1:10	83123-CEL	AC UPS F&G AUXILIARY	3G2.5	Power	13 [0.512"]	RM 20W40 3.5-16.5 [0.138"-0.650"]
A1:9	83122-CEL	AC UPS PAS AUXILIARY	3G2.5	Power	13 [0.512"]	RM 20W40 3.5-16.5 [0.138"-0.650"]
A1:8	84319-CEL	LV SWBD 800/460V Auxiliary	3G2.5	Power	15.5 [0.610"]	RM 30 10-25 [0.394"-0.984"]
A1:7	84318-CEL	LV Switchboard Auxiliary	3G2.5	Power	15.5 [0.610"]	RM 30 10-25 [0.394"-0.984"]
A1:6	84315-CEL	UCP - HVAC LV Room	3G2.5	Power	15.5 [0.610"]	RM 30 10-25 [0.394"-0.984"]
A1:5	83010-CEL-PE	Temporary Generator / Mobile Battery Pack	1C X 95	Power	14.5 [0.571"]	RM 30 10-25 [0.394"-0.984"]
A1:4	83033-CEL	AC UPS F&G - 8h - Bypass	4G35	Power	27.4 [1.079"]	RM 40 21.5-34.5 [0.846"-1.358"]
A1:3	83032-CEL	AC UPS F&G - 8h - Line B	4G35	Power	24.4 [0.961"]	RM 40 21.5-34.5 [0.846"-1.358"]
A1:2	83031-CEL	AC UPS F&G - 8h - Line A	4G35	Power	27.4 [1.079"]	RM 40 21.5-34.5 [0.846"-1.358"]
A1:1	83021-CEL	Welding Sockets (Top Deck) JB's	5G50	Power	35 [1.378"]	RM 60 28-54 [1.102"-2.126"]


MODULE WITH PIPE


MODULE WITH CABLE


SPARE MODULE

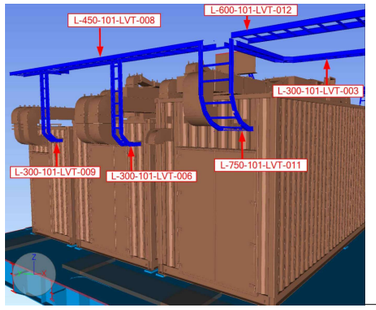

SOLID MODULE

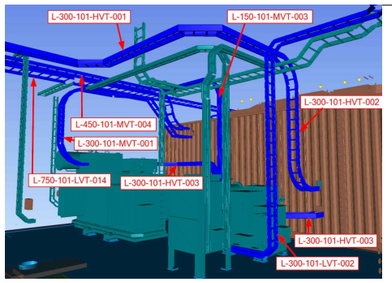
Responsible: ARNESH	Created Date: 2024-07-10	Modify Date: 2024-07-17	Project: BLPH - ROS	Location/ Sublocation	TotWeight: 12.1 [26.74]
Roxtec	Format: NTS		Transit name: E-MCT-204		Sheet No: 3/3
	Client		Drawing number		Rev

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Drawing shows component layout according to design. Verification is needed to check if the configuration is valid for the application/certification intended.
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DRAWING NO. 123A90-DDL-EL-DL-20108

REV. 01





L-750-101-LVT-013
W750 X H100mm
+27.078m
+3.768m T.O.S

L-450-101-LVT-005
W450 X H100mm
+26.660m
+3.350m T.O.S

L-300-101-MVT-006
W300 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-MVT-006
W300 X H100mm
+28.810/+30.190m
+5.500/6.880m T.O.S

L-300-101-LVT-007
W300 X H100mm
+28.810/+26.660m
+5.500/3.350m T.O.S

L-750-101-LVT-001
W750 X H100mm
+26.678m
+3.368m T.O.S

L-300-101-LVT-009
W300 X H100mm
+26.660m
+3.350m T.O.S

L-300-101-LVT-009
W300 X H100mm
+28.760/+26.660m
+5.450/3.350m T.O.S

L-300-101-LVT-006
W300 X H100mm
+26.660m
+3.350m T.O.S

L-300-101-LVT-006
W300 X H100mm
+28.760/+26.660m
+5.450/3.350m T.O.S

L-450-101-LVT-008
W450 X H100mm
+28.810m
+5.500m T.O.S

L-450-101-LVT-008
W450 X H100mm
+28.010/+28.810m
+4.700/5.500m T.O.S

L-600-101-LVT-012
W600 X H100mm
+28.010/+28.810m
+4.700/5.500m T.O.S

L-750-101-LVT-011
W750 X H100mm
+27.078m
+3.768m T.O.S

L-750-101-LVT-011
W750 X H100mm
+27.078/+28.010m
+3.768/4.700m T.O.S

L-750-101-LVT-001
W750 X H100mm
+25.335m
+2.025m T.O.S

L-300-101-LVT-003
W300 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-LVT-004
W300 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-LVT-004
W300 X H100mm
+28.810/+23.360m
+5.500/0.050m T.O.S

L-600-101-LVT-012
W600 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-LVT-002
W300 X H100mm
+23.480m
0.170m T.O.S

L-300-101-LVT-002
W300 X H100mm
+28.810/+23.480m
+5.500/0.170m T.O.S

L-300-101-MVT-007
W300 X H100mm
+27.210/+30.190m
+3.900/6.880m T.O.S

L-300-101-MVT-007
W300 X H100mm
+27.210m
+3.900m T.O.S

L-300-101-HVT-002
W300 X H150mm
+25.004/+28.810m
+1.694/5.500m T.O.S

L-300-101-HVT-002
W300 X H150mm
+25.004m
+1.694m T.O.S

L-150-101-MVT-003
W150 X H100mm
+23.510m
+0.200m T.O.S

L-300-101-HVT-003
W300 X H150mm
+24.205m
+0.895m T.O.S

L-300-101-HVT-003
W300 X H150mm
+25.410m
+2.100m T.O.S

L-150-101-MVT-003
W150 X H100mm
+28.810m
+5.500m T.O.S

L-750-101-LVT-015
W750 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-MVT-002
W300 X H100mm
+28.810m
+5.500m T.O.S

L-450-101-LVT-005
W450 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-MVT-002
W300 X H100mm
+23.648m
+0.338m T.O.S

L-600-101-LVT-010
W600 X H100mm
+28.810m
5.500m T.O.S

L-600-101-LVT-010
W600 X H100mm
+27.078m
+3.768m T.O.S

L-750-101-LVT-013
W750 X H100mm
+28.810m
+5.500m T.O.S

L-750-101-LVT-014
W750 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-MVT-005
W300 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-MVT-005
W300 X H100mm
+28.810/+23.600m
+5.500/0.290m T.O.S

L-300-101-HVT-001
W300 X H150mm
+28.810m
+5.50m T.O.S

L-300-101-HVT-001
W300 X H150mm
+23.385/+28.810m
+0.75/5.50m T.O.S

L-450-101-MVT-004
W450 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-HVT-001
W300 X H150mm
+28.810m
+5.500m T.O.S

L-300-101-MVT-001
W300 X H100mm
+25.800/+28.410m
+2.490/5.100m T.O.S

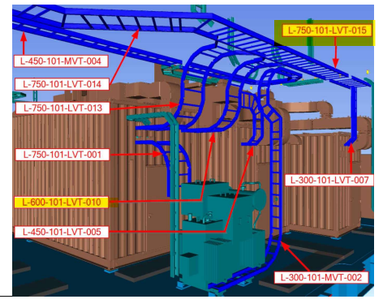
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+5.100m T.O.S

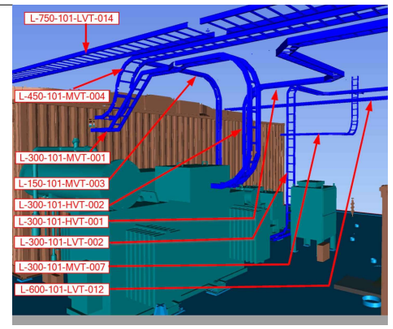
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+28.810m
+5.500m T.O.S

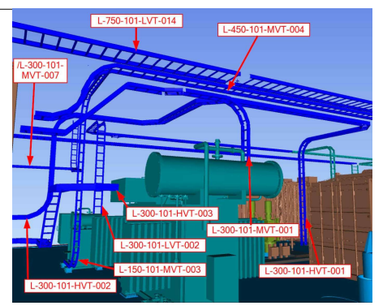
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W450 X H100mm
+27.410m
+4.100m T.O.S

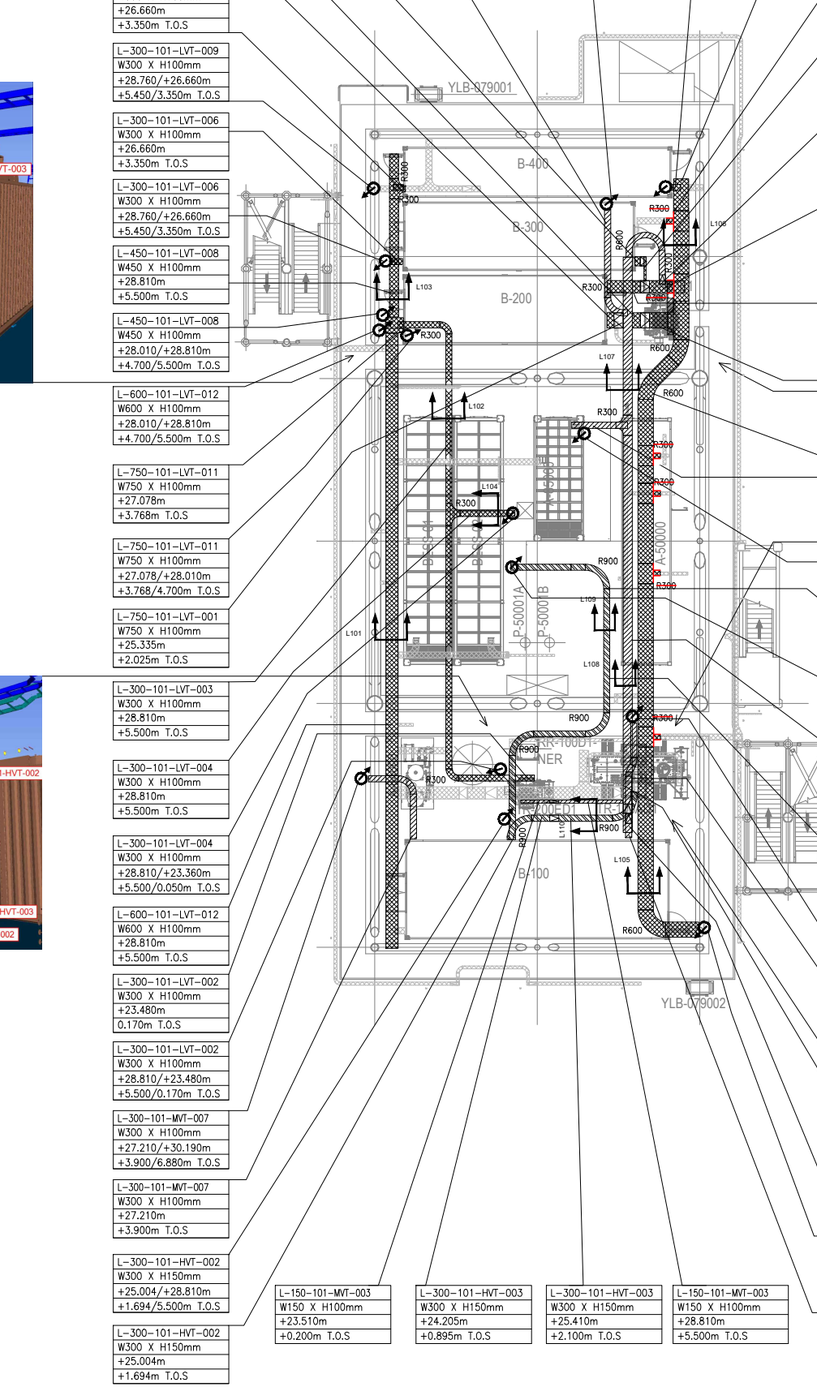
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W750 X H100mm
+28.810/27.810m
+5.500/4.500m T.O.S

L-300-101-MVT-001
W300 X H100mm
+27.070m
+3.760m T.O.S

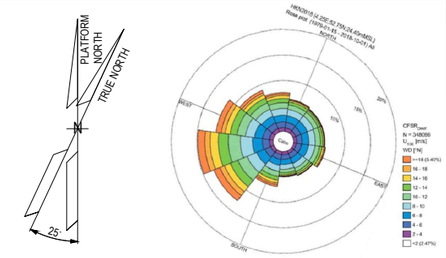








PRIMARY CABLE ROUTING
PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. THIS DRAWING IS VALID ONLY FOR ELECTRICAL CABLE ROUTING LAYOUT.
4. A MINIMUM OF 20% CAPACITY IN EACH CABLE LADDER SHALL BE PROVIDED FOR FUTURE EXTENSION.
5. DRAWING SPLIT INTO MULTIPLY SHEETS FOR CLARITY.
6. FOR INSTALLATION DETAIL OF CABLE LADDER REFER TO DOC. 123A90-DDL-EL-DD-20093.
7. UNARMOURED CABLES PASSING OR ARRIVING IN A CLASSIFIED AREA WILL BE MECHANICALLY PROTECTED IN COMPLIANCE WITH THE REQUIREMENTS OF THE IEC 60079-14.
8. 50MM CABLE TRAYS ROUTES MAY BE MODIFIED DURING CONSTRUCTION WITHOUT OFFICIAL APPROVAL.

LEGEND

- ELECTRICAL 66 KV CABLE TRAY
- ELECTRICAL 6.6 KV CABLE TRAY
- ELECTRICAL LV CABLE TRAY
- CABLE TRAY ELEVATION CHANGE
- ELECTRICAL CABLE TRAY VERTICAL RAISE
- ELECTRICAL CABLE TRAY VERTICAL DROP
- L101 — CABLE TRAY SECTION
- TAG
- SIZE
- ELEVATION
- ELEVATION(T.O.S)

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20108**

REV.:	DATE:	SIGNATURE:
1_B	22/08/24	G.Randi

ROSETTI MARINO SpA

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-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-DL-20107	ELECTRICAL CABLES ROUTING LAYOUT - TOP DECK
123A90-DDL-EL-DL-20109	ELECTRICAL CABLES ROUTING LAYOUT - BELOW LOWER DECK
123A90-DDL-EL-DG-20125	LIGHTING & SOCKET CIRCUIT DIAGRAM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	30/07/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	27/06/24	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

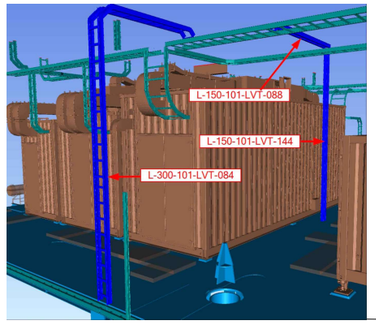
TITLE :
BASE LOAD POWER HUB (BLPH)
ELECTRICAL CABLES ROUTING LAYOUT
LOWER DECK

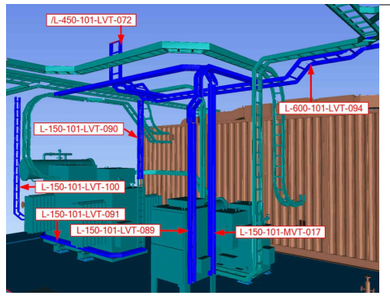
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN SPS	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 30/07/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20108	SHEET 01of18	REV. 01

File Name : 123A90-DDL-EL-DL-20108

DRAWING NO. 123A90-DDL-EL-DL-20108

REV. 01





L-300-101-LVT-112 | W300 X H100mm | +28.810/30.170m | +5.500/6.860m T.O.S

L-300-101-LVT-077 | W300 X H100mm | +28.810m | +5.500m T.O.S

L-300-101-LVT-078 | W300 X H100mm | +28.810m | +5.500m T.O.S

L-300-101-LVT-078 | W300 X H100mm | +29.060/30.170m | +5.750/6.860m T.O.S

L-150-101-LVT-086 | W150 X H100mm | +23.300m | −0.010m T.O.S

L-150-101-LVT-086 | W150 X H100mm | +22.700m | −0.610m T.O.S

L-300-101-LVT-077 | W300 X H100mm | +28.810/30.170m | +5.500/6.860m T.O.S

L-300-101-LVT-078 | W300 X H100mm | +29.060m | +5.750m T.O.S

L-300-101-LVT-073 | W300 X H100mm | +28.810m | +5.500m T.O.S

L-300-101-LVT-073 | W300 X H100mm | +28.810/+30.210m | +5.500/6.900m T.O.S

L-150-101-LVT-083 | W150 X H100mm | +23.300m | −0.010m T.O.S

L-150-101-LVT-086 | W150 X H100mm | +23.300m | −0.010m T.O.S

L-150-101-LVT-106 | W150 X H100mm | +28.988/30.188m | +5.678/6.878m T.O.S

L-300-101-LVT-084 | W300 X H100mm | +29.010m | +5.700m T.O.S

L-300-101-LVT-096 | W300 X H100mm | +28.960/24.400m | +5.650/1.090m T.O.S

L-300-101-LVT-084 | W300 X H100mm | +28.810m | +5.500m T.O.S

L-300-101-LVT-084 | W300 X H100mm | +29.010/+23.298m | +5.700/0.012m T.O.S

L-150-101-LVT-102 | W150 X H100mm | +28.938/30.188m | +5.628/6.878m T.O.S

L-150-101-LVT-088 | W150 X H100mm | +29.010m | +5.700m T.O.S

L-150-101-LVT-103 | W150 X H100mm | +28.908/30.208m | +5.598/6.898m T.O.S

L-150-101-LVT-092 | W150 X H100mm | +27.178m | +3.868m T.O.S

L-150-101-LVT-088 | W150 X H100mm | +28.810m | +5.500m T.O.S

L-150-101-LVT-144 | W150 X H100mm | +28.930/24.180m | +5.620/0.870m T.O.S

L-150-101-LVT-092 | W150 X H100mm | +27.278m | +3.968m T.O.S

L-300-101-LVT-068 | W300 X H100mm | +28.810m | +5.500m T.O.S

L-300-101-LVT-068 | W300 X H100mm | +29.060m | +5.750m T.O.S

L-150-101-LVT-092 | W150 X H100mm | +27.278/23.728m | +3.968/0.418m T.O.S

L-300-101-LVT-095 | W300 X H100mm | +28.888/30.188m | +5.578/6.878m T.O.S

L-150-101-LVT-093 | W150 X H100mm | +28.810/26.400m | +5.500/3.090m T.O.S

L-150-101-LVT-099 | W150 X H100mm | +28.810/24.000m | +5.500/0.690m T.O.S

L-150-101-LVT-139 | W150 X H100mm | +26.280 | +2.970m T.O.S

L-300-101-LVT-068 | W300 X H100mm | +29.060m/+23.500 | +5.750/0.190m T.O.S

L-150-101-LVT-087 | W150 X H100mm | +28.810/23.390m | +5.500/0.080m T.O.S

L-150-101-LVT-138 | W150 X H100mm | +26.280 | +2.970m T.O.S

L-150-101-LVT-105 | W150 X H100mm | +28.810/30.188m | +5.500/6.878m T.O.S

L-300-101-LVT-070 | W300 X H100mm | +23.410m | +0.100m T.O.S

L-150-101-LVT-146 | W150 X H100mm | +26.280/24.520m | +2.970/1.210m T.O.S

L-150-101-LVT-083 | W150 X H100mm | +23.300/22.860m | −0.010/0.450m T.O.S

L-150-101-LVT-081 | W150 X H100mm | +22.680m | −0.630m T.O.S

L-300-101-LVT-069 | 300X100mm | +29.060m | +5.750m T.O.S

L-300-101-LVT-071 | W300 X H100mm | +23.410m | +0.100m T.O.S

L-150-101-LVT-101 | W150 X H100mm | +28.810/30.188m | +5.500/6.878m T.O.S

L-300-101-LVT-069 | 300X100mm | +29.060/23.610m | +5.750/0.300m T.O.S

L-150-101-LVT-101 | W150 X H100mm | +28.810m | +5.500m T.O.S

L-300-101-LVT-080 | W300 X H100mm | +22.680m | −0.630m T.O.S

L-300-101-LVT-109 | W300 X H100mm | +23.410m | +0.100m T.O.S

L-300-101-LVT-079 | W300 X H100mm | +28.810/22.940m | +5.500/−0.370m T.O.S

L-150-101-LVT-097 | W150 X H100mm | +29.080m | +5.770m T.O.S

L-150-101-LVT-143 | W150 X H100mm | +29.080/24.185m | +5.770/0.875m T.O.S

L-150-101-LVT-082 | W150 X H100mm | +22.680m | −0.630m T.O.S

L-150-101-LVT-089 | W150 X H100mm | +28.410/23.860m | +5.100/0.550m T.O.S

L-150-101-LVT-089 | W150 X H100mm | +28.410m | +5.100m T.O.S

L-150-101-LVT-082 | W150 X H100mm | +23.300m | −0.010m T.O.S

L-300-101-LVT-098 | W300 X H100mm | +28.660/24.000m | +5.350/0.690m T.O.S

L-150-101-LVT-104 | W150 X H100mm | +28.938/30.188m | +5.628/6.878m T.O.S

L-300-101-LVT-076 | W300 X H100mm | +28.810m | +5.500m T.O.S

L-150-101-LVT-100 | W150 X H100mm | +28.710/24.260m | +5.400/0.950m T.O.S

L-600-101-LVT-094 | W600 X H100mm | +28.970m | +5.660m T.O.S

L-600-101-LVT-094 | W600 X H100mm | +28.810m | +5.500m T.O.S

L-150-101-LVT-091 | W150 X H100mm | +23.600m | +0.290m T.O.S

L-600-101-LVT-094 | W600 X H100mm | +28.410m | +5.100m T.O.S

L-600-101-LVT-094 | W600 X H100mm | +28.810m | +5.500m T.O.S

L-300-101-LVT-074 | W300 X H100mm | +28.810/26.810m | +5.500/3.500m T.O.S

L-150-101-LVT-085 | W150 X H100mm | +22.598m | −0.712m T.O.S

L-450-101-LVT-072 | W450 X H100mm | +28.410/30.219m | +5.100/6.909m T.O.S

L-450-101-LVT-075 | W300 X H100mm | +27.810/26.810m | +4.500/3.500m T.O.S

L-150-101-MVT-017 | W150 X H100mm | +28.410/23.860m | +5.100/0.550m T.O.S

L-150-101-LVT-108 | W150 X H100mm | +23.300m | −0.010m T.O.S

L-150-101-LVT-108 | W150 X H100mm | +22.598m | −0.712m T.O.S

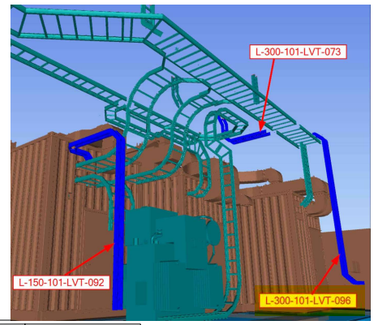
L-150-101-LVT-107 | W150 X H100mm | +22.598m | −0.712m T.O.S

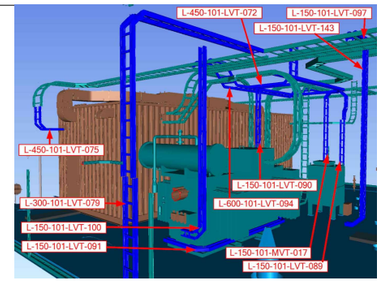
L-150-101-MVT-017 | W150 X H100mm | +28.410m | +5.100m T.O.S

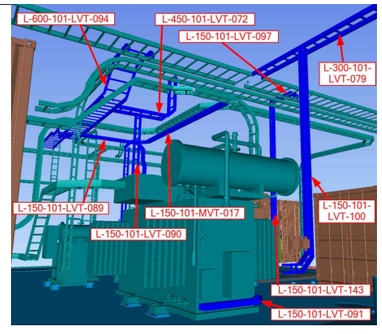
L-150-101-LVT-085 | W150 X H100mm | +23.300m | −0.010m T.O.S

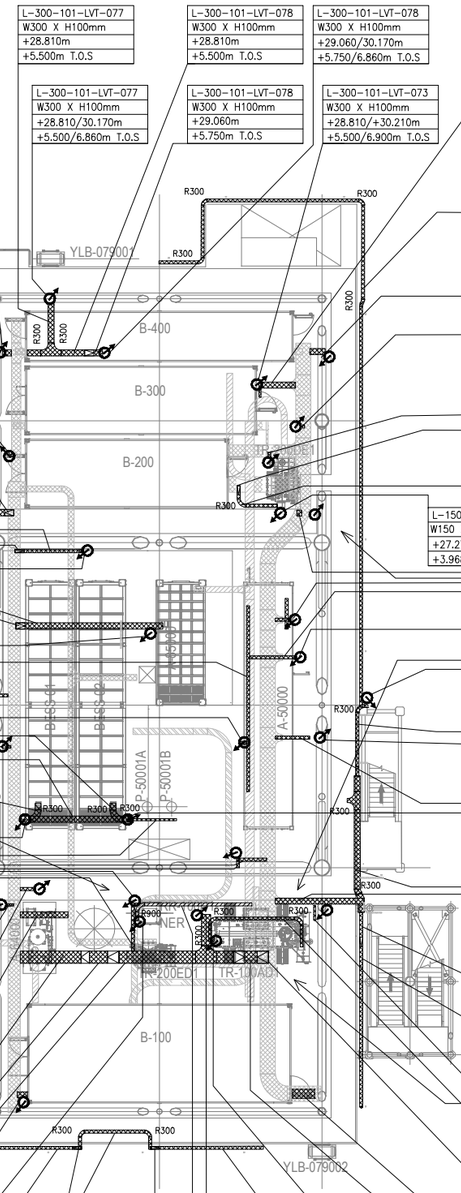
L-150-101-LVT-090 | W150 X H100mm | +28.510/23.860m | +5.200/0.550m T.O.S

L-600-101-LVT-094 | W600 X H100mm | +29.110m | +5.100m T.O.S

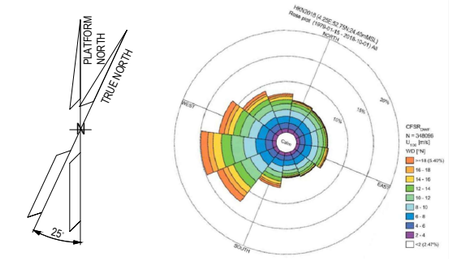








SECONDARY CABLE ROUTING
PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. THIS DRAWING IS VALID ONLY FOR ELECTRICAL CABLE ROUTING LAYOUT.
4. A MINIMUM OF 20% CAPACITY IN EACH CABLE LADDER SHALL BE PROVIDED FOR FUTURE EXTENSION.
5. DRAWING SPLIT INTO MULTIPLY SHEETS FOR CLARITY.
6. FOR INSTALLATION DETAIL OF CABLE LADDER REFER TO DOC. 123A90-DDL-EL-DD-20093.
7. UNARMOURED CABLES PASSING OR ARRIVING IN A CLASSIFIED AREA WILL BE MECHANICALLY PROTECTED IN COMPLIANCE WITH THE REQUIREMENTS OF THE IEC 60079-14.
8. 50MM CABLE TRAYS ROUTES MAY BE MODIFIED DURING CONSTRUCTION WITHOUT OFFICIAL APPROVAL.

LEGEND

- ELECTRICAL 66 KV CABLE TRAY
- ELECTRICAL 6.6 KV CABLE TRAY
- ELECTRICAL LV CABLE TRAY
- CABLE TRAY ELEVATION CHANGE
- ELECTRICAL CABLE TRAY VERTICAL RAISE
- ELECTRICAL CABLE TRAY VERTICAL DROP
- L101 — CABLE TRAY SECTION
- TAG
- SIZE
- ELEVATION
- ELEVATION(T.O.S)

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20108**

REV.:	DATE:	SIGNATURE:
1_B	22/08/24	G.Randi

ROSETTI MARINO SpA

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-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-DL-20107	ELECTRICAL CABLES ROUTING LAYOUT - TOP DECK
123A90-DDL-EL-DL-20109	ELECTRICAL CABLES ROUTING LAYOUT - BELOW LOWER DECK
123A90-DDL-EL-DG-20125	LIGHTING & SOCKET CIRCUIT DIAGRAM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	30/07/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	27/06/24	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
ELECTRICAL CABLES ROUTING LAYOUT
LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN SPS	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 30/07/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20108	SHEET 02of18	REV. 01

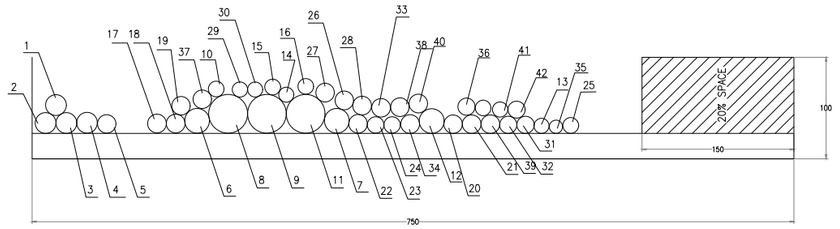
File Name : 123A90-DDL-EL-DL-20108

DRAWING NO. 123A90-DDL-EL-DL-20108

REV. 01

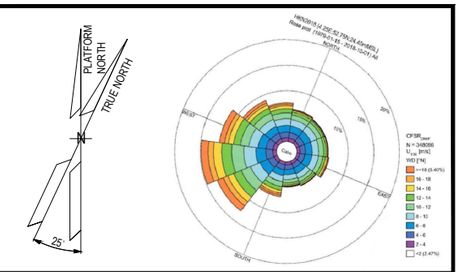
△01

L106 (L-750-101-LVT-015)



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83010-CEL-L1	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
2	83010-CEL-L2	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
3	83010-CEL-L3	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
4	83010-CEL-N	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
5	83010-CEL-PE	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P6	1C x 95
6	83012-CEL	FUEL CELL AUXILIARY LOAD	SG-200N1	A-80000	POWER CABLE	P4	5G16
7	83020-CEL	CRANE	SG-200N1	JB-200E3	POWER CABLE	P4	5G16
△01 8	83021-CEL-03	WELDING SOCKETS (TOP DECK) JB'S	JB-200E6	JB-200E7	POWER CABLE	P4	5G50
9	83022-CEL	WELDING SOCKET (LOWER DECK)	SG-200N1	JB-200E4	POWER CABLE	P4	5G50
10	72213-CEL	INTERMEDIATE OBSTRUCTION RED LIGHTS	EJB-200F2-02	EOL-200-04	POWER CABLE	P5	3G2.5
△01 11	83022-CEL-03	WELDING SOCKETS (LOWER DECK) JB'S	JB-200E4	JB-200E5	POWER CABLE	P4	5G50
12	83026-CEL	HVAC PANEL – ITER	SG-200N1	B400-HSB-001	POWER CABLE	P4	5G16
13	72210-CEL	WAVE OFF STATUS LIGHT	NC-200F2	ESL-200-01	POWER CABLE	P5	2C X 2.5
14	72202-CEL	NAV AIDS MAIN YELLOW LANTERNS	NC-200F2	EML-200-02	POWER CABLE	P5	2C X 2.5
15	72203-CEL	TOP OBSTRUCTION LIGHTS JUNCTION BOX	NC-200F2	EJB-200F2-01	POWER CABLE	P5	3G2.5
16	72211-CEL	INTERMEDIATE OBSTRUCTION LIGHTS JUNCTION BOX	NC-200F2	EJB-200F2-02	POWER CABLE	P5	3G2.5
17	84301-CEL	SIS – CONTROLLER AND I/O CABINET – LINE A	DP-200F3	B400-SIS-001	POWER CABLE	P5	3G2.5
18	84302-CEL	SIS – CONTROLLER AND I/O CABINET – LINE B	DP-200F3	B400-SIS-001	POWER CABLE	P5	3G2.5
19	84303-CEL	PCS – CONTROLLER AND I/O CABINET – LINE A	DP-200F3	B400-PCS-001	POWER CABLE	P5	3G2.5
20	84304-CEL	PCS – CONTROLLER AND I/O CABINET – LINE B	DP-200F3	B400-PCS-001	POWER CABLE	P5	3G2.5
21	84305-CEL	EMCS – CONTROLLER AND I/O CABINET – LINE A	DP-200F3	B400-EMCS-001	POWER CABLE	P5	3G2.5
22	84306-CEL	EMCS – CONTROLLER AND I/O CABINET – LINE B	DP-200F3	B400-EMCS-001	POWER CABLE	P5	3G2.5
23	84307-CEL	SERVER CABINET ITER – LINE A	DP-200F3	B400-SRV-001	POWER CABLE	P5	3G6
24	84308-CEL	SERVER CABINET ITER – LINE B	DP-200F3	B400-SRV-001	POWER CABLE	P5	3G6
△01 25	P-EJB-200N1-08-L1-04	EMERGENCY LIGHTING UPPER DECK	DP-200N1	EJB-200N1-08-L1-04	POWER CABLE	P4	4G4_E

POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
27	84313-CEL	UCP – WATER PACKAGE	DP-200F3	JB-500F8	POWER CABLE	P5	3G2.5
28	84314-CEL	UCP – HVAC HV ROOM	DP-200F3	B100-HSB-001	POWER CABLE	P5	3G2.5
29	P-EJB-200N1-02-L1-01	NORMAL LIGHTING UPPER DECK	DP-200N1	EJB-200N1-02-L1-01	POWER CABLE	P4	3G4
30	P-EJB-200N1-03-L2-01	NORMAL LIGHTING LOWER DECK	DP-200N1	EJB-200N1-03-L2-01	POWER CABLE	P4	3G4
△01 31	P-EJB-200N1-02-L1-02	NORMAL LIGHTING JB	EJB-200N1-02-L1-01	EJB-200N1-02-L1-02	POWER CABLE	P5	3G4
32	P-EJB-200N1-02-L1-19	NORMAL LIGHTING JB	EJB-200N1-02-L1-01	EJB-200N1-02-L1-19	POWER CABLE	P5	3G4
33	P-EJB-200N1-08-L1-16	EMERGENCY LIGHTING JB	EJB-200N1-08-L1-04	EJB-200N1-08-L1-16	POWER CABLE	P5	4G4_E
34	P-EJB-200N1-08-L1-01	EMERGENCY LIGHTING JB	EJB-200N1-08-L1-04	EJB-200N1-08-L1-01	POWER CABLE	P5	4G4_E
35	P-ELF-200N1-03-L2-01	NORMAL LIGHTING FIXTURE	EJB-200N1-03-L2-01	ELF-200N1-03-L2-01	POWER CABLE	P4	3G2.5
36	P-EPH-200N1-01	TWILIGHT RELAY SENSOR	DP-200N1	EPH-200N1-01	POWER CABLE	P5	3G4
37	84401-CEL	FGS FIRE & GAS PANEL – LINE A	DP-200F4	B400-FGS-001	POWER CABLE	P5	3G2.5
38	84402-CEL	FGS FIRE & GAS PANEL – LINE B	DP-200F4	B400-FGS-001	POWER CABLE	P5	3G2.5
39	84403-CEL	SYSTEM SERVER / NETWORK CABINET – LINE A	DP-200F4	B400-NET-001	POWER CABLE	P5	3G2.5
40	84404-CEL	SYSTEM SERVER / NETWORK CABINET – LINE B	DP-200F4	B400-NET-001	POWER CABLE	P5	3G2.5
△01 41	P-EJB-200N1-03-L2-02	NORMAL LIGHTING JB	EJB-200N1-03-L2-01	EJB-200N1-03-L2-02	POWER CABLE	P4	3G4
42	P-ELF-200N1-09-L2-11	EMERGENCY LIGHTING FIXTURE	ELF-200N1-09-L2-02	ELF-200N1-09-L2-11	POWER CABLE	P4	4G2.5_E
43							
44							



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.

CABLE TYPE DETAILS

P2 – SINGLE CORE, 3.6/6 (7.2) KV, CU/EPR/CU/LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.
P3 – SINGLE CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH, PVC, UNARMOURED CABLE, FLAME RETARDANT
P4 – MULTI CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.
P5 – MULTI CORE, 0.6/1 KV, FIRE RESISTANT, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, GALVANIZED STEEL WIRE ARMOURED CABLE, FLAME RETARDANT.
P7 – MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.
P8 – MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, CU SCREEN, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.

LEGEND

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20108**

REV.:	DATE:	SIGNATURE:
1_B	22/08/24	G.Randi

ROSETTI MARINO SpA

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-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-DL-20107	ELECTRICAL CABLES ROUTING LAYOUT - TOP DECK
123A90-DDL-EL-DL-20109	ELECTRICAL CABLES ROUTING LAYOUT - BELOW LOWER DECK
123A90-DDL-EL-DG-20125	LIGHTING & SOCKET CIRCUIT DIAGRAM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	30/07/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	27/06/24	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
ELECTRICAL CABLES ROUTING LAYOUT
LOWER DECK

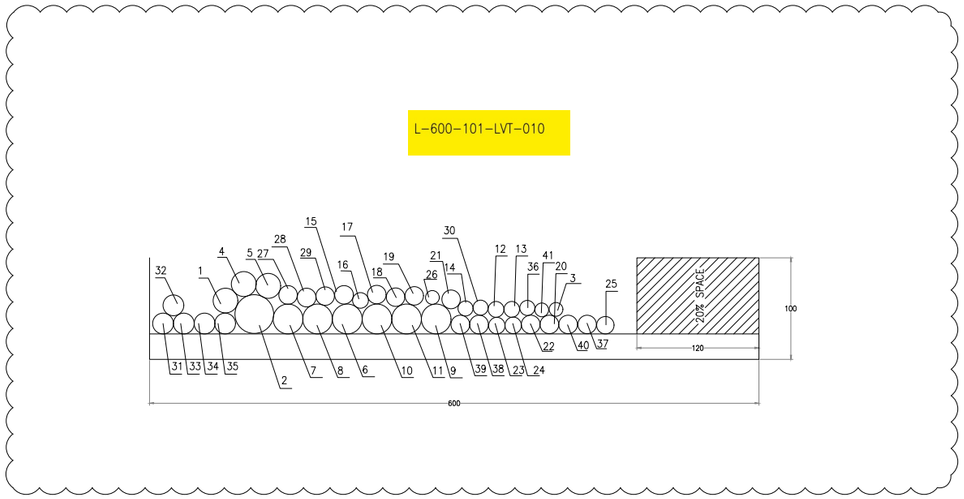
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:50
DRAWN SPS	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 30/07/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20108	SHEET 05of18	REV. 01

File Name : 123A90-DDL-EL-DL-20108

DRAWING NO. 123A90-DDL-EL-DL-20108

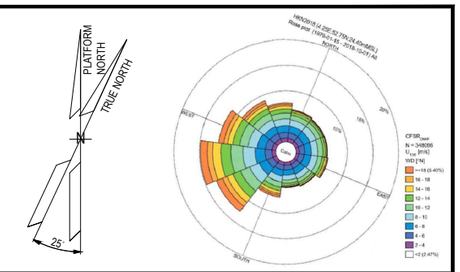
REV. 01

△01



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83020-CEL	CRANE	SG-200N1	JB-200E3	POWER CABLE	P4	5G16
2	83021-CEL	WELDING SOCKET (TOP DECK)	SG-200N1	JB-200E6	POWER CABLE	P4	5G50
△01 3	83123-CEL	AC UPS F&G AUXILIARY	DP-200N1	UP-200F4	POWER CABLE	P4	3G2.5
4	83025-CEL	HVAC PANEL - UPS ROOM	SG-200N1	B300-HSB-001	POWER CABLE	P4	5G16
5	83026-CEL	HVAC PANEL - ITER	SG-200N1	B400-HSB-001	POWER CABLE	P4	5G16
6	83028-CEL	AC UPS PAS - 30MIN - LINE A	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
7	83029-CEL	AC UPS PAS - 30MIN - LINE B	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
8	83030-CEL	AC UPS PAS - 30MIN - BYPASS	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
9	83031-CEL	AC UPS F&G - 8H - LINE A	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
10	83032-CEL	AC UPS F&G - 8H - LINE B	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
11	83033-CEL	AC UPS F&G - 8H - BYPASS	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
△01 12	84318-CEL	LV SWITCHBOARD AUXILIARY	DP-200F3	SG-200N1	POWER CABLE	P5	3G2.5
13	84319-CEL	LV SWBD 800/460V AUXILIARY	DP-200F3	SG-200D2	POWER CABLE	P5	3G2.5
14	72202-CEL	NAV AIDS MAIN YELLOW LANTERNS	NC-200F2	EML-200-02	POWER CABLE	P5	2C X 2.5
15	72203-CEL	TOP OBSTRUCTION LIGHTS JUNCTION BOX	NC-200F2	EJB-200F2-01	POWER CABLE	P5	3G2.5
16	72211-CEL	INTERMEDIATE OBSTRUCTION LIGHTS JUNCTION BOX	NC-200F2	EJB-200F2-02	POWER CABLE	P5	3G2.5
17	84301-CEL	SIS - CONTROLLER AND I/O CABINET - LINE A	DP-200F3	B400-SIS-001	POWER CABLE	P5	3G2.5
18	84302-CEL	SIS - CONTROLLER AND I/O CABINET - LINE B	DP-200F3	B400-SIS-001	POWER CABLE	P5	3G2.5
19	84303-CEL	PCS - CONTROLLER AND I/O CABINET - LINE A	DP-200F3	B400-PCS-001	POWER CABLE	P5	3G2.5
20	84304-CEL	PCS - CONTROLLER AND I/O CABINET - LINE B	DP-200F3	B400-PCS-001	POWER CABLE	P5	3G2.5
21	84305-CEL	EMCS - CONTROLLER AND I/O CABINET - LINE A	DP-200F3	B400-EMCS-001	POWER CABLE	P5	3G2.5
22	84306-CEL	EMCS - CONTROLLER AND I/O CABINET - LINE B	DP-200F3	B400-EMCS-001	POWER CABLE	P5	3G2.5
23	84307-CEL	SERVER CABINET ITER - LINE A	DP-200F3	B400-SRV-001	POWER CABLE	P5	3G6
24	84308-CEL	SERVER CABINET ITER - LINE B	DP-200F3	B400-SRV-001	POWER CABLE	P5	3G6
△01 25	P-EPH-200N1-01	TWILIGHT RELAY SENSOR	DP-200N1	EPH-200N1-01	POWER CABLE	P5	3G4

POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
△01 26	P-ELF-200N1-03-L2-01	NORMAL LIGHTING FIXTURE	EJB-200N1-03-L2-01	ELF-200N1-03-L2-01	POWER CABLE	P4	3G2.5
27	84313-CEL	UCP - WATER PACKAGE	DP-200F3	CP-500F01	POWER CABLE	P5	3G2.5
28	84314-CEL	UCP - HVAC HV ROOM	DP-200F3	B100-HSB-001	POWER CABLE	P5	3G2.5
29	84315-CEL	UCP - HVAC LV ROOM	DP-200F3	B200-HSB-001	POWER CABLE	P5	3G2.5
△01 30	P-EJB-200N1-03-L2-01	NORMAL LIGHTING LOWER DECK	DP-200N1	EJB-200N1-03-L2-01	POWER CABLE	P4	3G4
31	83010-CEL-L1	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
32	83010-CEL-L2	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
33	83010-CEL-L3	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
34	83010-CEL-N	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
35	83010-CEL-PE	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P6	1C x 95
36	72210-CEL	WAVE OFF STATUS LIGHT	NC-200F2	ESL-200-01	POWER CABLE	P5	2C X 2.5
37	84401-CEL	FGS FIRE & GAS PANEL - LINE A	DP-200F4	B400-FGS-001	POWER CABLE	P5	3G2.5
38	84402-CEL	FGS FIRE & GAS PANEL - LINE B	DP-200F4	B400-FGS-001	POWER CABLE	P5	3G2.5
39	84403-CEL	SYSTEM SERVER / NETWORK CABINET - LINE A	DP-200F4	B400-NET-001	POWER CABLE	P5	3G2.5
40	84404-CEL	SYSTEM SERVER / NETWORK CABINET - LINE B	DP-200F4	B400-NET-001	POWER CABLE	P5	3G2.5
41	83122-CEL	AC UPS PAS AUXILIARY	DP-200N1	UP-200F3	POWER CABLE	P4	3G2.5



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.

CABLE TYPE DETAILS

P2 – SINGLE CORE, 3.6/6 (7.2) KV, CU/EPR/CU/LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.
P3 – SINGLE CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH, PVC, UNARMOURED CABLE, FLAME RETARDANT
P4 – MULTI CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.
P5 – MULTI CORE, 0.6/1 KV, FIRE RESISTANT, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, GALVANIZED STEEL WIRE ARMOURED CABLE, FLAME RETARDANT.
P7 – MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.
P8 – MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, CU SCREEN, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.

LEGEND

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20108**

REV.:	DATE:	SIGNATURE:
1_B	22/08/24	G.Randi

ROSETTI MARINO SpA

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-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-DL-20107	ELECTRICAL CABLES ROUTING LAYOUT - TOP DECK
123A90-DDL-EL-DL-20109	ELECTRICAL CABLES ROUTING LAYOUT - BELOW LOWER DECK
123A90-DDL-EL-DG-20125	LIGHTING & SOCKET CIRCUIT DIAGRAM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	30/07/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	27/06/24	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
ELECTRICAL CABLES ROUTING LAYOUT
LOWER DECK

CONTRACT NO./TITLE	CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE 1:50
DRAWN SPS	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 30/07/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20108	SHEET 06of18	REV. 01

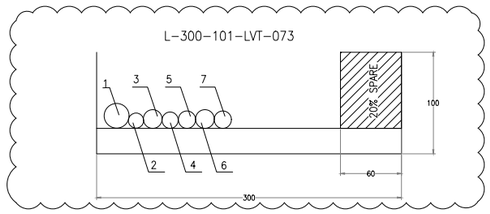
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REV. 01

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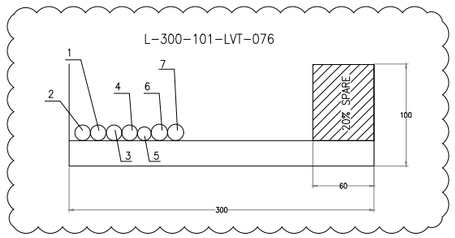
L-300-101-LVT-073



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83012-CEL	FUEL CELL AUXILIARY LOAD	SG-200N1	A-80000	POWER CABLE	P4	5G16
2	P-EJB-200N1-02-L1-01	NORMAL LIGHTING UPPER DECK	DP-200N1	EJB-200N1-02-L1-01	POWER CABLE	P4	3G4
3	P-EJB-200N1-08-L1-01	EMERGENCY LIGHTING JB	EJB-200N1-08-L1-04	EJB-200N1-08-L1-01	POWER CABLE	P5	4G4_E
4	P-EJB-200N1-08-L1-04	EMERGENCY LIGHTING JB	DP-200N1	EJB-200N1-08-L1-04	POWER CABLE	P4	4G4_E
5	P-EJB-200N1-02-L1-02	NORMAL LIGHTING JB	EJB-200N1-02-L1-01	EJB-200N1-02-L1-02	POWER CABLE	P5	3G4
6	P-EJB-200N1-08-L1-16	EMERGENCY LIGHTING JB	EJB-200N1-08-L1-04	EJB-200N1-08-L1-16	POWER CABLE	P5	4G4_E
7	P-EJB-200N1-02-L1-19	NORMAL LIGHTING JB	EJB-200N1-02-L1-01	EJB-200N1-02-L1-19	POWER CABLE	P5	3G4

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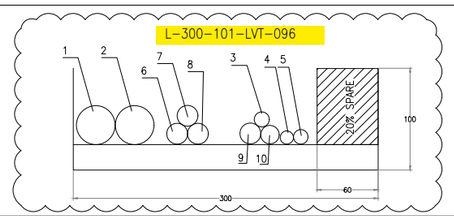
L-300-101-LVT-076



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83011-CEC	6.6KV HV SWITCHGEAR	CP-200ED1A	SG-100D1	CONTROL CABLE	P7	7C X 1.5
2	83012-CEC	6.6KV HV SWITCHGEAR	CP-200ED1A	SG-100D1	CONTROL CABLE	P7	7C X 1.5
3	83013-CEC	6.6KV HV SWITCHGEAR	CP-200ED1A	SG-100D1	CONTROL CABLE	P7	7C X 1.5
4	83014-CEC	6.6KV HV SWITCHGEAR	CP-200ED1A	SG-100D1	CONTROL CABLE	P7	7C X 1.5
5	P-ELF-200N1-03-L2-03	NORMAL LIGHTING FIXTURE	EJB-200N1-03-L2-03	ELF-200N1-03-L2-03	POWER CABLE	P4	3G2.5
6	P-EJB-200N1-09-L2-02	EMERGENCY LIGHTING JB	EJB-200N1-09-L2-04	EJB-200N1-09-L2-02	POWER CABLE	P4	4G4_E
7	P-ELS-200N1-09-L2-01	LOCAL SWITCH	EJB-200N1-09-L2-04	ELS-200N1-09-L2-01	POWER CABLE	P4	4G4_E

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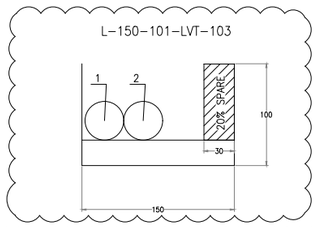
L-300-101-LVT-096



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83022-CEL	WELDING SOCKETS (LOWER DECK) JB'S	SG-200N1	JB-200E4 /JB-200E5	POWER CABLE	P4	5G50
2	83022-CEL-03	WELDING SOCKETS (LOWER DECK) JB'S	JB-200E4	JB-200E5	POWER CABLE	P4	5G50
3	P-EJB-200N1-03-L2-01	NORMAL LIGHTING LOWER DECK	DP-200N1	EJB-200N1-03-L2-01	POWER CABLE	P4	3G4
4	P-ELF-200N1-03-L2-01	NORMAL LIGHTING FIXTURE	EJB-200N1-03-L2-01	ELF-200N1-03-L2-01	POWER CABLE	P4	3G2.5
5	P-EJB-200N1-03-L2-02	NORMAL LIGHTING FIXTURE	EJB-200N1-03-L2-01	EJB-200N1-03-L2-02	POWER CABLE	P4	3G4
6	83010-CEL-L1	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
7	83010-CEL-L2	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
8	83010-CEL-L3	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
9	83010-CEL-N	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
10	83010-CEL-PE	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P6	1C x 95

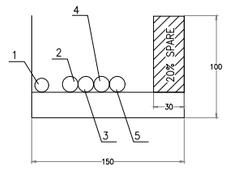
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L-150-101-LVT-103



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83021-CEL	WELDING SOCKET (TOP DECK)	SG-200N1	JB-200E6 /JB-200E7	POWER CABLE	P4	5G50
2	83021-CEL-03	WELDING SOCKET (TOP DECK)	JB-200E6	JB-200E7	POWER CABLE	P4	5G50

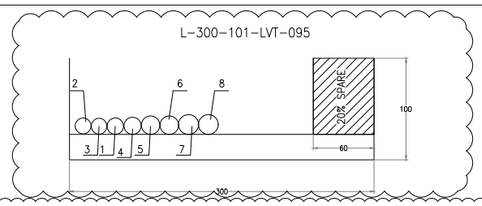
L-150-101-LVT-092



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83116-CEL	AUXILIARY TRAFO 1.6MVA	DP-200N1	CP-200E1	POWER CABLE	P4	3G2.5
2	83001-CEC	6.6KV HV SWITCHGEAR	CP-200DE1A	SG-100D1	CONTROL CABLE	P7	7C X 1.5
3	83002-CEC	6.6KV HV SWITCHGEAR	CP-200DE1A	SG-100D1	CONTROL CABLE	P7	7C X 1.5
4	83003-CEC	6.6KV HV SWITCHGEAR	CP-200DE1A	SG-100D1	CONTROL CABLE	P7	7C X 1.5
5	83004-CEC	6.6KV HV SWITCHGEAR	CP-200DE1A	SG-100D1	CONTROL CABLE	P7	7C X 1.5

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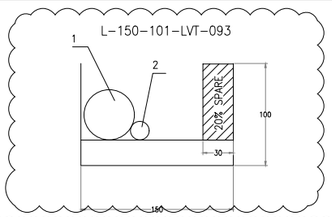
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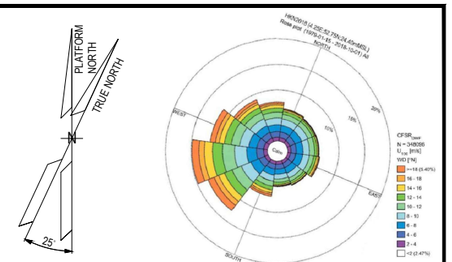
SECTION POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	P-EJB-200N1-08-L1-01	EMERGENCY LIGHTING UPPER DECK – CIRCUIT NO. 1	DP-200N1	EJB-200N1-08-L1-01	POWER CABLE	P4	4G4_E
2	72203-CEL	TOP OBSTRUCTION LIGHTS JUNCTION BOX	UP-200F2	EJB-200F2-01	POWER CABLE	P5	3G2.5
3	72211-CEL	INTERMEDIATE OBSTRUCTION LIGHTS JUNCTION BOX	NC-200F2	EJB-200F2-02	POWER CABLE	P5	3G2.5
4	72213-CEL	INTERMEDIATE OBSTRUCTION RED LIGHTS	EJB-200F2-02	EOL-200-04	POWER CABLE	P5	3G2.5
5	P-EJB-200N1-08-L1-03	EMERGENCY LIGHTING JB	EJB-200N1-08-L1-02	EJB-200N1-08-L1-03	POWER CABLE	P5	4G4_E
6	P-EJB-200N1-08-L1-01	EMERGENCY LIGHTING JB	EJB-200N1-08-L1-04	EJB-200N1-08-L1-01	POWER CABLE	P5	4G4_E
7	P-EJB-200N1-02-L1-02	NORMAL LIGHTING JB	EJB-200N1-02-L1-01	EJB-200N1-02-L1-02	POWER CABLE	P5	3G4
8	P-EJB-200N1-02-L1-03	NORMAL LIGHTING JB	EJB-200N1-02-L1-02	EJB-200N1-02-L1-03	POWER CABLE	P5	3G4

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L-150-101-LVT-093



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83016-CEL	WATER PACKAGE	SG-200N1	JB-500E8	POWER CABLE	P4	5G70
2	84313-CEL	UCP – WATER PACKAGE	DP-200F3	JB-500E8	POWER CABLE	P5	3G2.5



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.

CABLE TYPE DETAILS

P2 – SINGLE CORE, 3.6/6 (7.2) KV, CU/EPR/CU/LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.
P3 – SINGLE CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH, PVC, UNARMOURED CABLE, FLAME RETARDANT
P4 – MULTI CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.
P5 – MULTI CORE, 0.6/1 KV, FIRE RESISTANT, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, GALVANIZED STEEL WIRE ARMOURED CABLE, FLAME RETARDANT.
P7 – MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.
P8 – MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, CU SCREEN, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.

LEGEND

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20108**

REV.:	DATE:	SIGNATURE:
1_B	22/08/24	G.Randi

ROSETTI MARINO SpA

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-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-DL-20107	ELECTRICAL CABLES ROUTING LAYOUT - TOP DECK
123A90-DDL-EL-DL-20109	ELECTRICAL CABLES ROUTING LAYOUT - BELOW LOWER DECK
123A90-DDL-EL-DG-20125	LIGHTING & SOCKET CIRCUIT DIAGRAM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	30/07/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	27/06/24	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
ELECTRICAL CABLES ROUTING LAYOUT
LOWER DECK

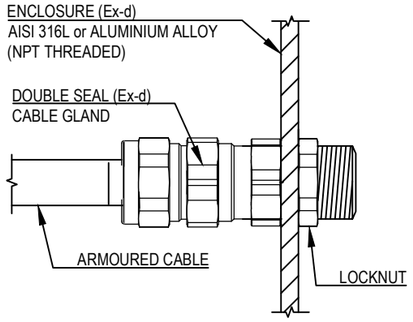
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:50
DRAWN SPS	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 30/07/24

A1	DRAWING NO. 123A90-DDL-EL-DL-20108	SHEET 12of18	REV. 01

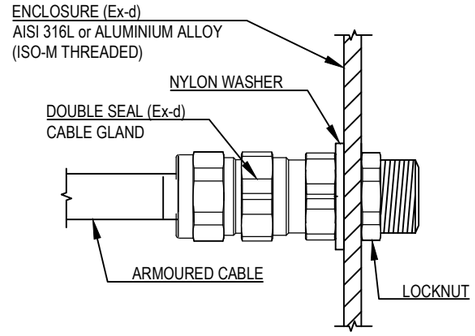
File Name : 123A90-DDL-EL-DL-20108

C01

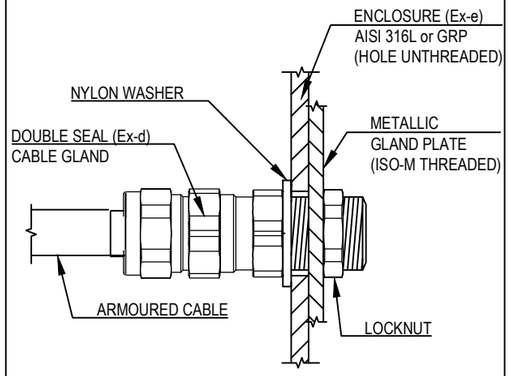
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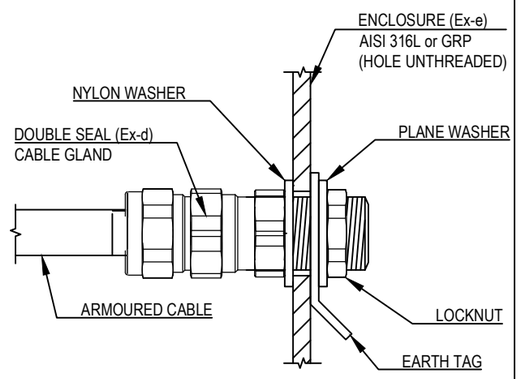
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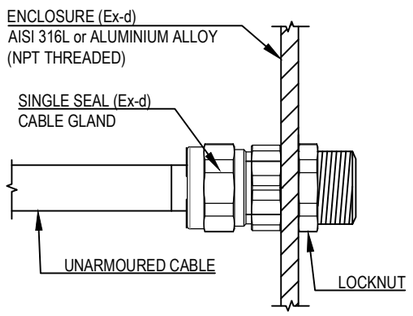
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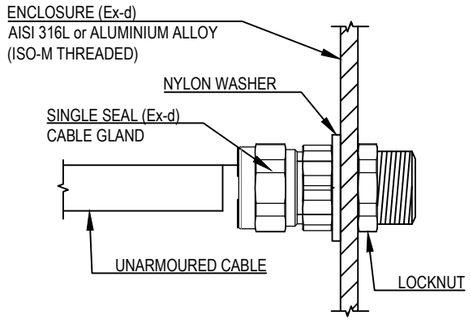
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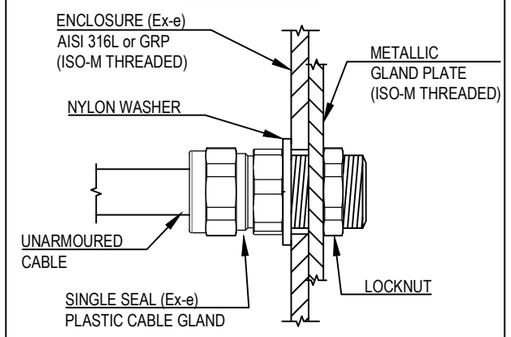
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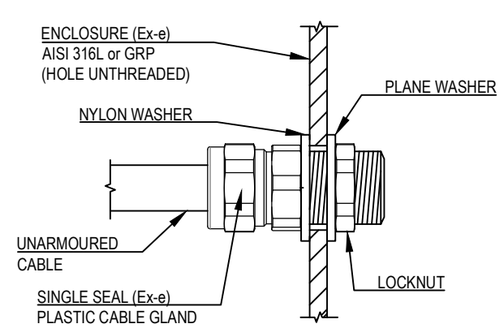
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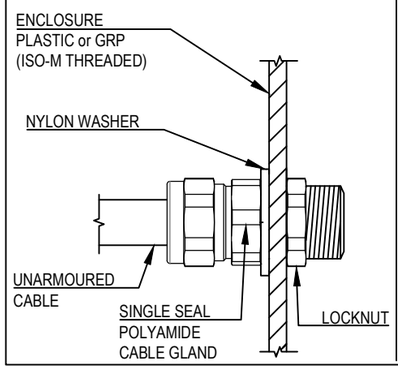
DETAIL "7"



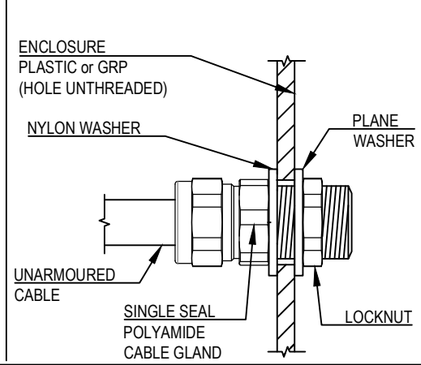
DETAIL "8"

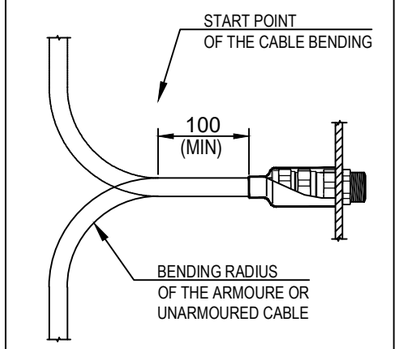


DETAIL "9"



DETAIL "10"





NOTES:

1) IF A REDUCTION OR ADAPTAR ARE NEEDED, ONLY ONE SHALL BE ALLOWED.
2) FOR GRP JUNCTION BOXES AND EQUIPMENTS CONNECTED BY ARMOURED CABLE, CABLE GLAND SHALL BE NICKEL PLATED BRASS TYPE AND GRP JUNCTION BOX AND EQUIPMENTS EQUIPPED WITH NICKEL PLATED CABLE GLAND PLATE. IF THE CABLE IS NON-ARMOURED, CABLE GLAND MAY BE POLYAMIDE TYPE.
3) SINGLE CORE CABLE SHALL HAVE AN EQUIPMENT ENTRY VIA NON MAGNETIC GLAND PLATE AND CONNECTING BY HDG STEEL CABLE GLAND.
4) OUTDOOR CABLE ENTRIES SHALL PREFERABLY BE FROM BOTTOM ENTRY, SIDE ENTRY SHALL BE SUBMITTED TO THE COMPANY APPROVAL. CABLE ENTRY FROM TOP IS FORBIDDEN.

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

REV.:	DATE:	SIGNATURE:
2_A	28/08/24	G.Randi

ROSETTI MARINO SpA

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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
POWER TYPICAL DETAIL CABLE GLAND INSTALLATION FOR E&I CABLES

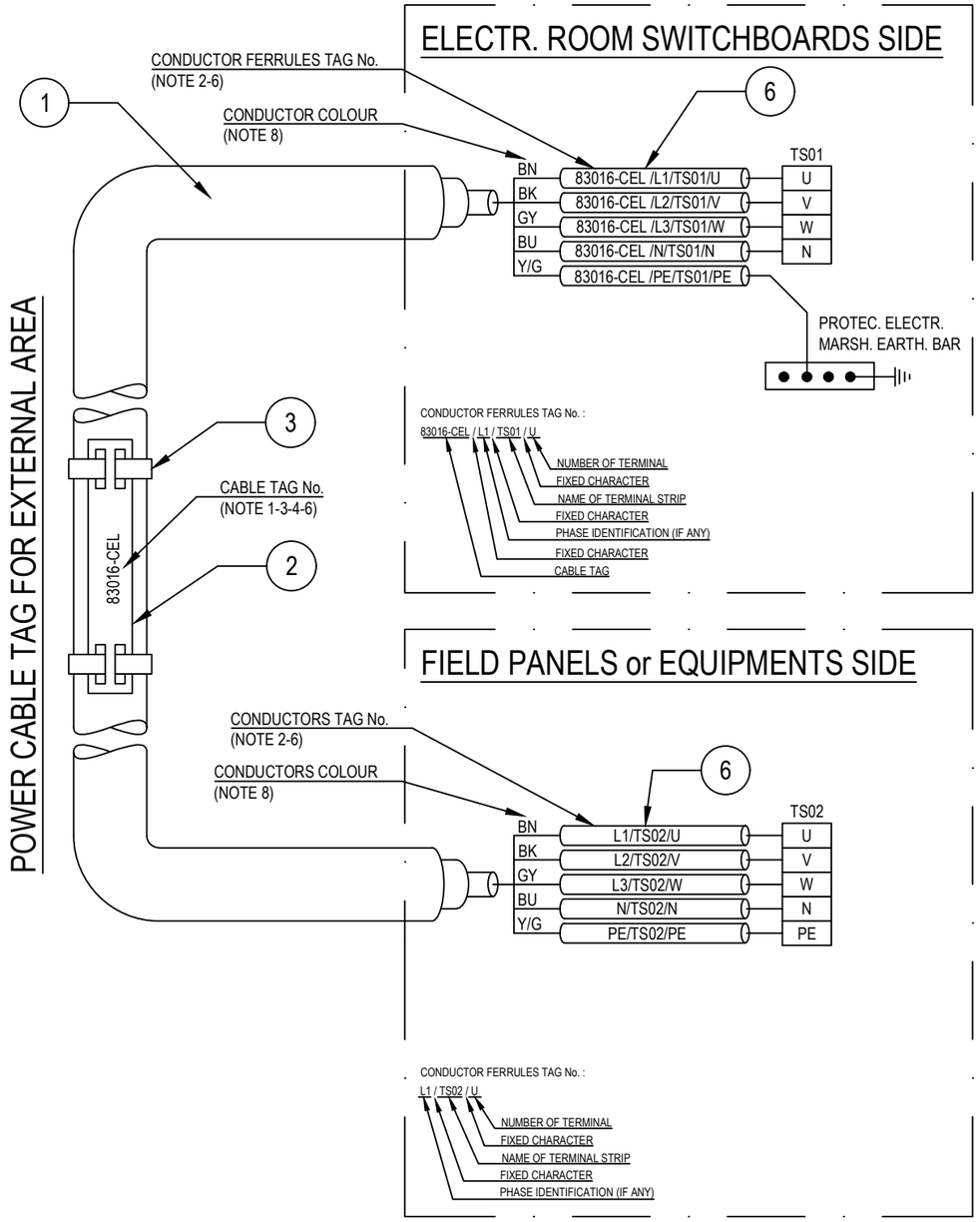
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 006 | REV. 02

F.to UNI A3: 420mmx297mm

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

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.

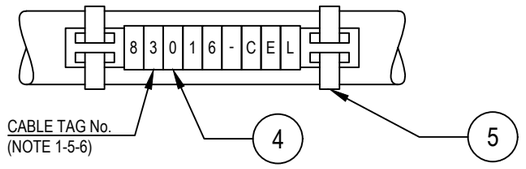
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

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.: 2_A | DATE: 28/08/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

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)

CROSSWIND

ROSETTI MARINO

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

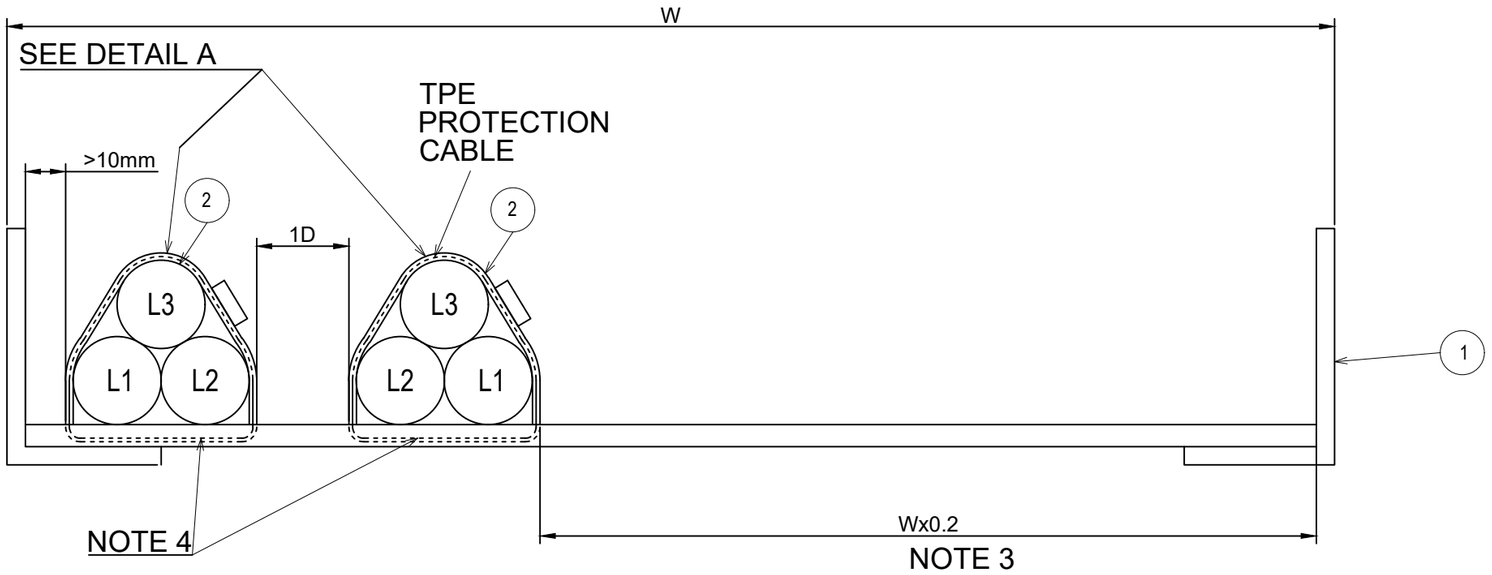
A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

F.to UNI A3: 420mmx297mm

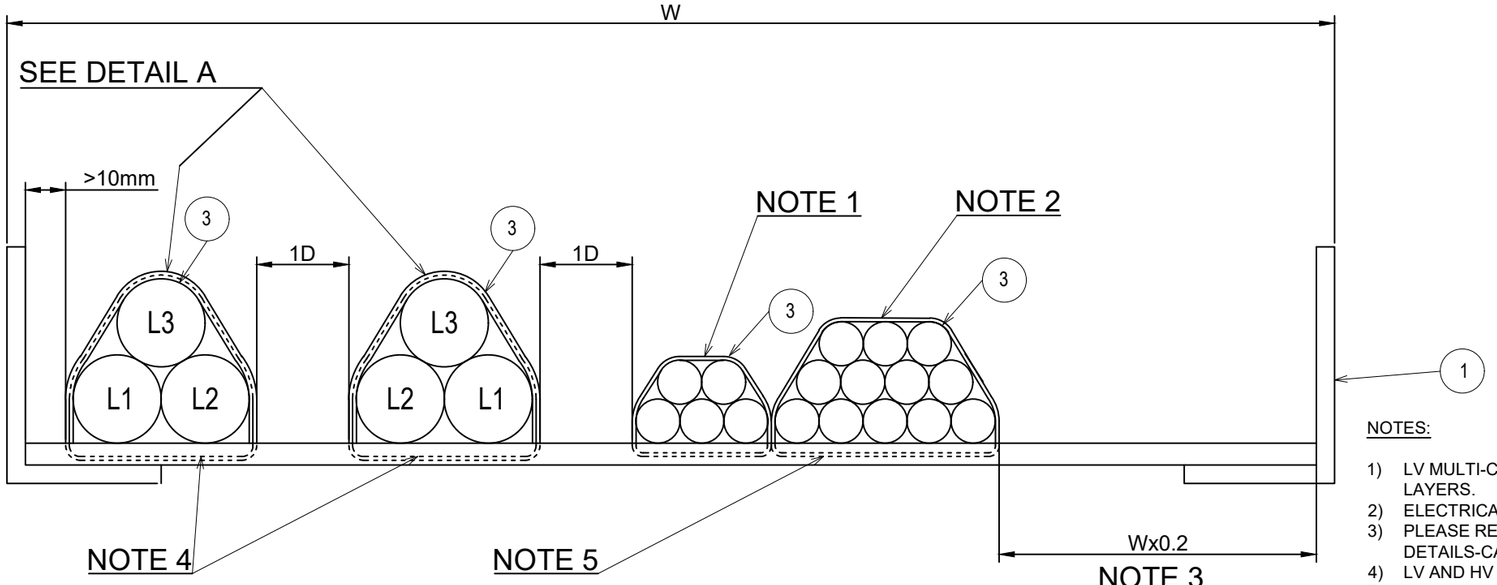
File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

C-05A

HV CABLETRAY

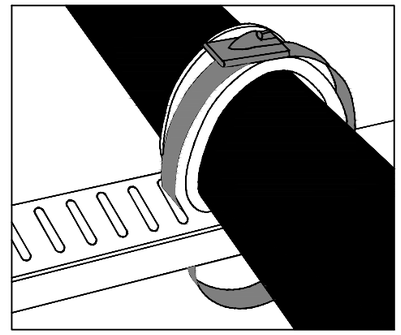


LV CABLETRAY



MATERIALS		
POS.		DESCRIPTION
1		CABLE LADDER AISI 316L
2		CABLE CLEATS STAINLESS STEEL FOR HV CABLES WITH TPE CABLE PROTECTION
3		UV RESISTANT PVC CABLE TIES
4		CABLE CLEATS STAINLESS STEEL FOR LV CABLES WITH TPE CABLE PROTECTION

DETAIL CABLE CLEATS



NOTES:

1) LV MULTI-CORE POWER CABLE (LESS THAN 120SQMM) CAN BE INSTALLED ON TWO LAYERS.
2) ELECTRICAL CONTROL CABLES CAN BE INSTALLED ON THREE LAYERS.
3) PLEASE REFER 123A90-DDL-EL-DD-20093-ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM SHEET-003 FOR CABLE SEGREGATION DETAIL.
4) LV AND HV SINGLE CORE POWER CABLE INSTALLED IN TREFOIL FORMATION.
5) FOR CABLE TIES INSTALLATION SEE DETAIL "C-06" ON SH.011.
6) CABLES BETWEEN TR-200DE1 TRASFORMER AND SG-200N1 POWER CENTER HAVE TO BE PROVIDE WITH CABLE CLEATES WITH STAINLESS STEEL TYPE

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

REV.:	DATE:	SIGNATURE:
2_A	28/08/24	G.Randi

ROSETTI MARINO SpA

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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES ARRANGEMENT IN CABLE LADDER/TRAY FOR ELECTRICAL 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 009 | REV. 02

F.to UNI A3: 420mmx297mm

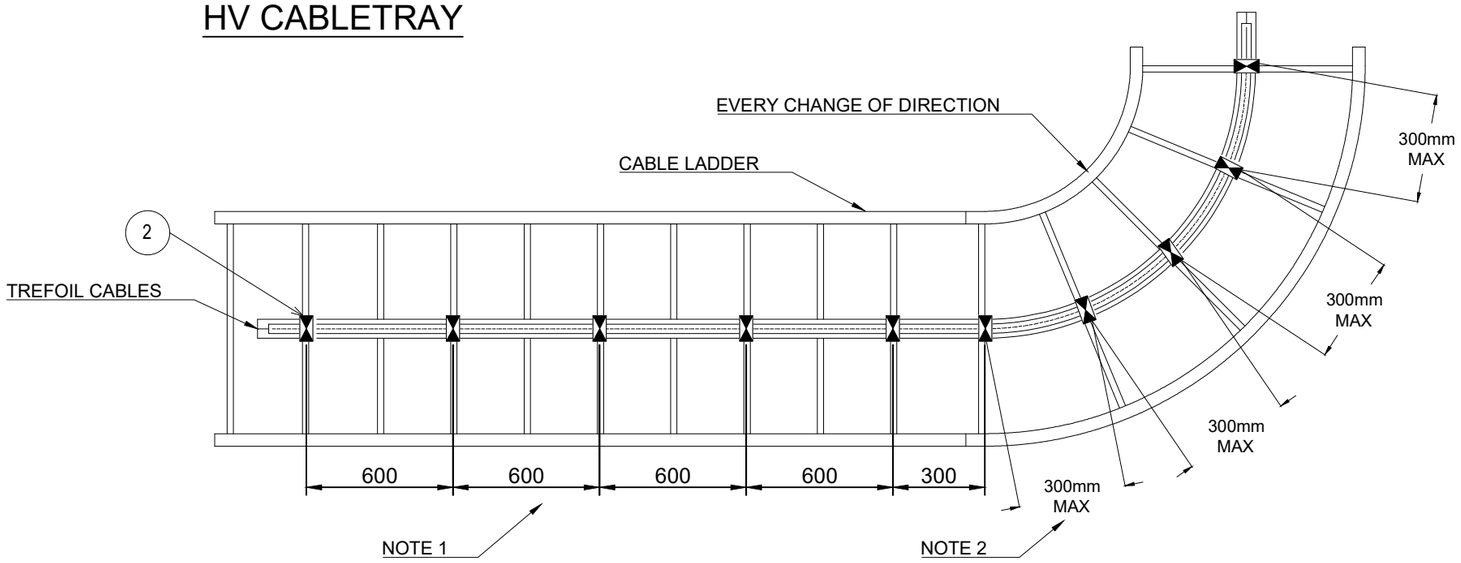
File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

C06

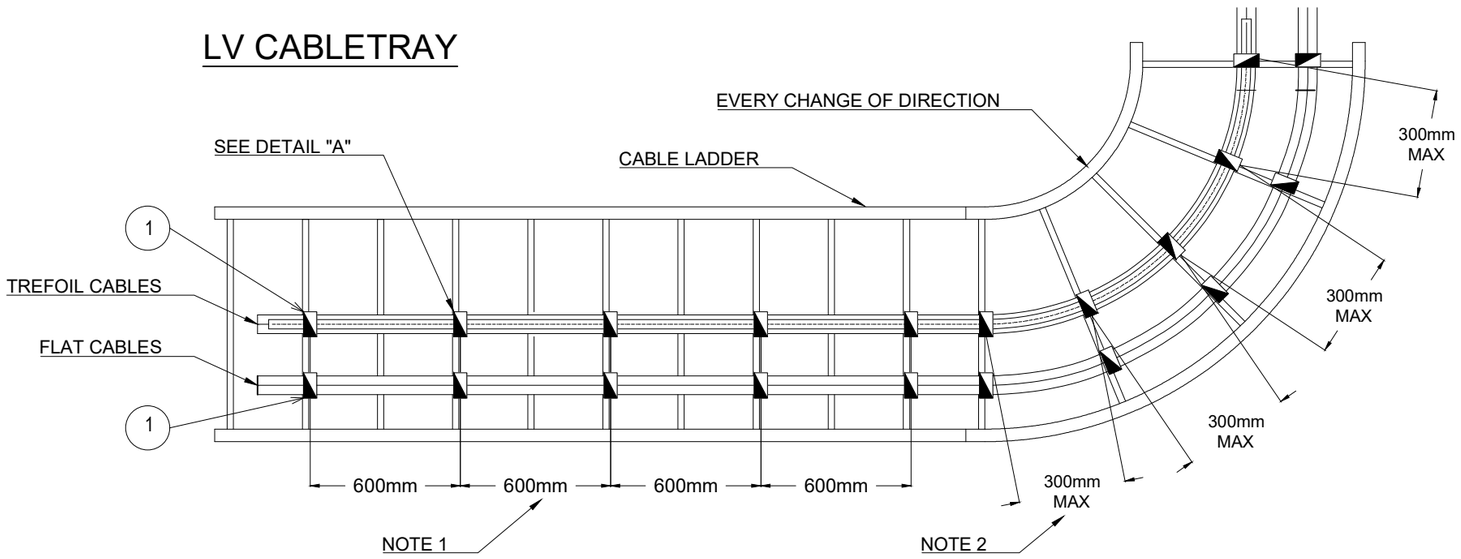
MAXIMUM CABLE TIES/CLEATS SPACING INSTALLATION DETAILS

MATERIALS		
POS.		DESCRIPTION
1		UV RESISTANT PVC CABLE TIES
2		STAINLESS STEEL DOUBLE WRAPPED CABLE CLEATS COMPLETE WITH TPE CUSHION SLEEVING

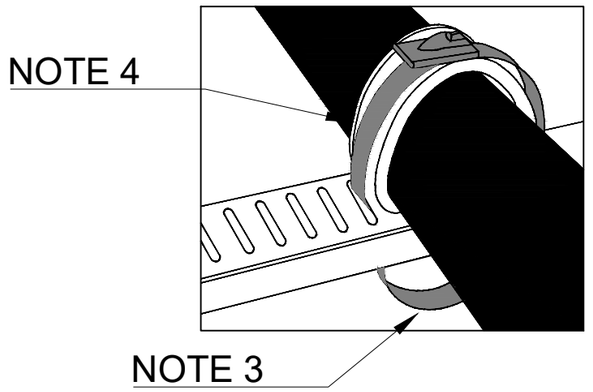
HV CABLETRAY



LV CABLETRAY



DETAIL "A" CABLE CLEATS



NOTES:

1) CABLES TIES SHALL BE HELD EVERY 600mm (CLEATS EVERY 600mm) ON HORIZONTAL RUNS.
2) CABLES SHALL BE HELD EVERY 300mm ON HORIZONTAL/VERTICAL ELBOW AND ON VERTICAL RUNS.
3) CABLE CLEATS WRAPPED TWO TIME AROUND THE CABLE RUNS.
4) TO PROTECT THE CABLE, INSTALL THE CUSHION SLEEVE BETWEEN THE CLAMP AND THE CABLE.

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20092
REV.: 2_A | DATE: 28/08/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
MAXI. CABLE TIES SPACING TYPICAL INSTALLATION DETAILS CABLE FASTENING IN TRAYS/LADDER

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

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 010 | REV. 02

F.to UNI A3: 420mmx297mm

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

ITEM	Tag	83010-CEL-N-TEMP	: JB-200E2 / SG-200N1			Dwg	
	S/Sys	83-99	: 400 V Temporary Yard Supply			Module	
TASK	code	C10003041		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type FLAME RETARDANT Cores/Size mm² 1Cx95 Color GREY

From JB_200E2_TEMP To SG-200N1

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).	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"	

ITEM	Tag	83010-CEL-N-TEMP	: JB-200E2 / SG-200N1			Dwg	
	S/Sys	83-99	: 400 V Temporary Yard Supply			Module	
TASK	code	C10003041		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	N/A	
7		PH 3	N/A	
8	ARMOUR CONTINUITY Ω		N/A	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		N/A	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>542	
11		PH2 / PH1-PH3-A-E	N/A	
12		PH3 / PH1-PH2-A-E	N/A	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	KEW3125A/Serial:W8330207	TYPE / SERIAL N° :	Fluke/serial:AW1/08(17140769
Calibration certificate N° and date:	7722/24 date:10/07/24	Calibration certificate N° and date:	7715/24 _Date:10/07/24

Comments:

	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS Impianti	RM (Rosetti Marino)	
Name	Carmelo Bongiovanni	Giovanni Tangianu	
Date	2024-09-13	2024-09-20	
Signature	PROVERLIS Digitaly signed by Carmelo Bongiovanni 2024-09-13T07:16:49.980Z	Firma Digitale Sicura Giovanni Tangianu 2024-09-20T11:42:43+0200	

ROSETTI MARINO | CROSSWIND

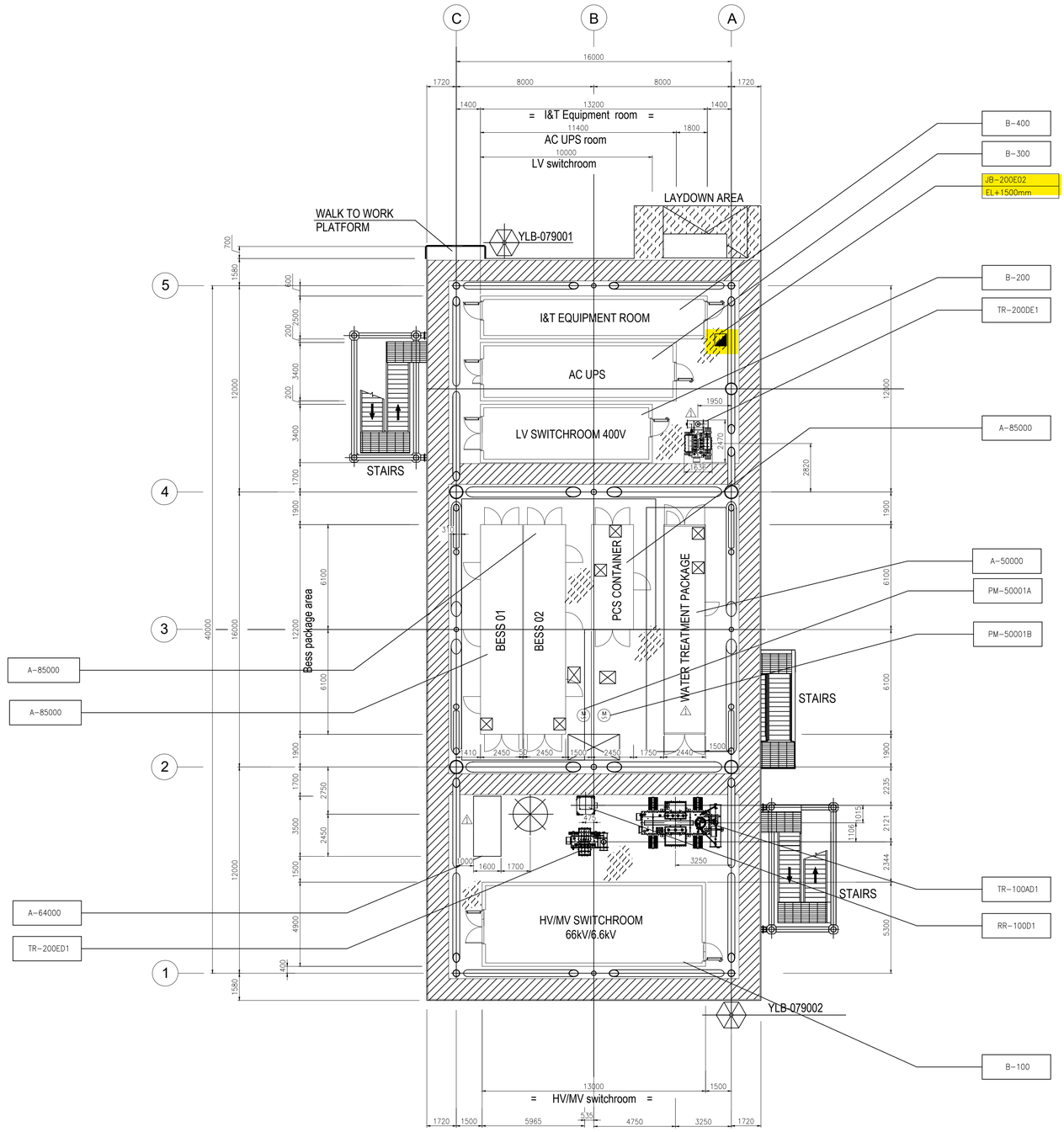
Document Title:	ELECTRICAL POWER & CONTROL CABLE SCHEDULE	Rev.:	00	Rev. Date:	19/03/2024
Project ID:	CW-I-WP4-2023-05	Issued by:	NLK	Sheet:	5 of 9
Document n°:	123A90-DDL-EL-LIS-20148	Reviewed by:	FMA/AMA	System:	
		Approved by:	FPA/DLO	Description:	
Project:	HOLLANDSE KUST NOORD WIND PARK Project	Loc./Plat./Mod.:		Status:	
Area:	BLPH	Doc. Type:		Class:	

Remarks:

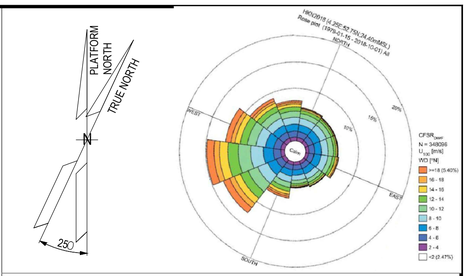
POSITION	REVISION	CABLE TYPE: TAG NUMBER	CABLE TYPE [2]	FORMATION mm²	RATED VOLTAGE (V)	Estimated LENGTH (m)	LENGTH (m) [4]	SPARE (%)	TOTAL LENGTH (m) [3]	DRUM NUMBER (n)	SYSTEM	CABLE ROUTE: FROM: ITEM Tag	DESCRIPTION	Panel/JB/etc.	Cable Entry (Top or Bottom)	Cable Peeling (m)	CABLE GLAND: TYPE	CABLE GLAND: SIZE	MCT: Module	MCT: Tag	CABLE ROUTE: TO: ITEM Tag	DESCRIPTION	Panel/JB/etc.	Cable Entry (Top or Bottom)	Cable Peeling (m)	CABLE GLAND: TYPE	CABLE GLAND: SIZE	MCT: Module	MCT: Tag	PHASE/ N /PE	CONDUIT: SIZE	CONDUIT: LENGTH (m)	ROUTING SECTION MARKER [1]	WIRING & TERMINATION DRAWING	NOTES
1	0	81001-CEH-L1	P1	1C X 300	66000	40	Note-4	10	47	Note-10	Power	JB-100A01	IAC Cable Extension - Interface JB T-Connector	XB2 (Z2)	Bottom	1,5	NA	NA	Hold		HNA6-AFA70	66kV GIS	GZ92	Side	1,5	NA	NA	Hold		L1	NA	NA		NOTE	Note-12	
2	0	81001-CEH-L2	P1	1C X 300	66000	40	Note-4	10	47	Note-10	Power	JB-100A01	IAC Cable Extension - Interface JB T-Connector	XB2 (Z2)	Bottom	1,5	NA	NA	Hold		HNA6-AFA70	66kV GIS	GZ92	Side	1,5	NA	NA	Hold		L2	NA	NA		NOTE	Note-12	
3	0	81001-CEH-L3	P1	1C X 300	66000	40	Note-4	10	47	Note-10	Power	JB-100A01	IAC Cable Extension - Interface JB T-Connector	XB2 (Z2)	Bottom	1,5	NA	NA	Hold		HNA6-AFA70	66kV GIS	GZ92	Side	1,5	NA	NA	Hold		L3	NA	NA		NOTE	Note-12	
4	0	81002-CEH-L1	P1	1C X 300	66000	25	Note-4	10	31	Note-10	Power	HNA6-AFA70	66kV GIS	GZ91	Side	1,5	NA	NA	Hold		TR-200AD1	66/6.6 kV, 7MVA Transformer	HV Cable Box	Side	1,5	NA	NA	Hold		L1	NA	NA		NOTE	Note-12	
5	0	81002-CEH-L2	P1	1C X 300	66000	25	Note-4	10	31	Note-10	Power	HNA6-AFA70	66kV GIS	GZ91	Side	1,5	NA	NA	Hold		TR-200AD1	66/6.6 kV, 7MVA Transformer	HV Cable Box	Side	1,5	NA	NA	Hold		L2	NA	NA		NOTE	Note-12	
6	0	81002-CEH-L3	P1	1C X 300	66000	25	Note-4	10	31	Note-10	Power	HNA6-AFA70	66kV GIS	GZ91	Side	1,5	NA	NA	Hold		TR-200AD1	66/6.6 kV, 7MVA Transformer	HV Cable Box	Side	1,5	NA	NA	Hold		L3	NA	NA		NOTE	Note-12	
7	0	82001-CEM-1-L1	P2	1C X 120	6600	25	Note-4	10	31	Note-10	Power	TR-100AD1	66kV, 7MVA Transformer	Secondary Cable Box	Side	1,5	NA	NA	Hold		SG-100D1	6.6KV HV Switchgear	A2	Top	1,5	NA	NA	Hold		L1	NA	NA		NOTE	Note-12	
8	0	82001-CEM-2-L1	P2	1C X 120	6600	25	Note-4	10	31	Note-10	Power	TR-100AD1	66kV, 7MVA Transformer	Secondary Cable Box	Side	1,5	NA	NA	Hold		SG-100D1	6.6KV HV Switchgear	A2	Top	1,5	NA	NA	Hold		L1	NA	NA		NOTE	Note-12	
9	0	82001-CEM-1-L2	P2	1C X 120	6600	25	Note-4	10	31	Note-10	Power	TR-100AD1	66kV, 7MVA Transformer	Secondary Cable Box	Side	1,5	NA	NA	Hold		SG-100D1	6.6KV HV Switchgear	A2	Top	1,5	NA	NA	Hold		L2	NA	NA		NOTE	Note-12	
10	0	82001-CEM-2-L2	P2	1C X 120	6600	25	Note-4	10	31	Note-10	Power	TR-100AD1	66kV, 7MVA Transformer	Secondary Cable Box	Side	1,5	NA	NA	Hold		SG-100D1	6.6KV HV Switchgear	A2	Top	1,5	NA	NA	Hold		L2	NA	NA		NOTE	Note-12	
11	0	82001-CEM-1-L3	P2	1C X 120	6600	25	Note-4	10	31	Note-10	Power	TR-100AD1	66kV, 7MVA Transformer	Secondary Cable Box	Side	1,5	NA	NA	Hold		SG-100D1	6.6KV HV Switchgear	A2	Top	1,5	NA	NA	Hold		L3	NA	NA		NOTE	Note-12	
12	0	82001-CEM-2-L3	P2	1C X 120	6600	25	Note-4	10	31	Note-10	Power	TR-100AD1	66kV, 7MVA Transformer	Secondary Cable Box	Side	1,5	NA	NA	Hold		SG-100D1	6.6KV HV Switchgear	A2	Top	1,5	NA	NA	Hold		L3	NA	NA		NOTE	Note-12	
13	0	82001-CEM-1-N	P2	1C X 120	6600	10	Note-4	10	14	Note-10	Power	TR-100AD1	66kV, 7MVA Transformer	Secondary Cable Box	Side	1,5	NA	NA	Hold		RR-100D1	NER	Cable Box	Bottom	1,5	NA	NA	Hold		N	NA	NA		NOTE	Note-12	
14	0	82001-CEM-2-N	P2	1C X 120	6600	10	Note-4	10	14	Note-10	Power	RR-100D1	NER	Secondary Cable Box	Side	1,5	NA	NA	Hold		RR-100D1	NER Earth Point	Earth Boss	NA	1,5	NA	NA	Hold		N	NA	NA		NOTE	Note-12	
15	0	82002-CEM-1-L1	P2	1C X 70	6600	44	Note-4	10	52	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A6	Top	1,5	NA	NA	Hold		TR-200DE1	6.6/0.4 KV, 1.6MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L1	NA	NA		NOTE	Note-12	
16	0	82002-CEM-1-L2	P2	1C X 70	6600	44	Note-4	10	52	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A6	Top	1,5	NA	NA	Hold		TR-200DE1	6.6/0.4 KV, 1.6MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L2	NA	NA		NOTE	Note-12	
17	0	82002-CEM-1-L3	P2	1C X 70	6600	44	Note-4	10	52	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A6	Top	1,5	NA	NA	Hold		TR-200DE1	6.6/0.4 KV, 1.6MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L3	NA	NA		NOTE	Note-12	
18	0	82003-CEM-1-L1	P2	1C X 70	6600	78	Note-4	10	89	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A5	Top	1,5	NA	NA	Hold		TA30	6.6/0.4 KV, 1.25MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L1	NA	NA		NOTE	Note-12	
19	0	82003-CEM-1-L2	P2	1C X 70	6600	78	Note-4	10	89	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A5	Top	1,5	NA	NA	Hold		TA30	6.6/0.4 KV, 1.25MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L2	NA	NA		NOTE	Note-12	
20	0	82003-CEM-1-L3	P2	1C X 70	6600	78	Note-4	10	89	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A5	Top	1,5	NA	NA	Hold		TA30	6.6/0.4 KV, 1.25MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L3	NA	NA		NOTE	Note-12	
21	0	82004-CEM-1-L1	P2	1C X 120	6600	45	Note-4	10	53	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A7	Top	1,5	NA	NA	Hold		T4	6.6/0.4/0.4 KV, 3.15MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L1	NA	NA		NOTE	Note-12	
22	0	82004-CEM-1-L2	P2	1C X 120	6600	45	Note-4	10	53	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A7	Top	1,5	NA	NA	Hold		T4	6.6/0.4/0.4 KV, 3.15MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L2	NA	NA		NOTE	Note-12	
23	0	82004-CEM-1-L3	P2	1C X 120	6600	45	Note-4	10	53	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A7	Top	1,5	NA	NA	Hold		T4	6.6/0.4/0.4 KV, 3.15MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L3	NA	NA		NOTE	Note-12	
24	0	82005-CEM-1-L1	P2	1C X 70	6600	55	Note-4	10	64	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A4	Top	1,5	NA	NA	Hold		18T1	6.6/0.62 KV, 1.25MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L1	NA	NA		NOTE	Note-12	
25	0	82005-CEM-1-L2	P2	1C X 70	6600	55	Note-4	10	64	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A4	Top	1,5	NA	NA	Hold		18T1	6.6/0.62 KV, 1.25MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L2	NA	NA		NOTE	Note-12	
26	0	82005-CEM-1-L3	P2	1C X 70	6600	55	Note-4	10	64	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A4	Top	1,5	NA	NA	Hold		18T1	6.6/0.62 KV, 1.25MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L3	NA	NA		NOTE	Note-12	
27	0	82006-CEM-1-L1	P2	1C X 70	6600	25	Note-4	10	31	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A1	Top	1,5	NA	NA	Hold		TR-200ED1	6.6/0.8 KV, 0.5MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L1	NA	NA		NOTE	Note-12	
28	0	82006-CEM-1-L2	P2	1C X 70	6600	25	Note-4	10	31	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A1	Top	1,5	NA	NA	Hold		TR-200ED1	6.6/0.8 KV, 0.5MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L2	NA	NA		NOTE	Note-12	
29	0	82006-CEM-1-L3	P2	1C X 70	6600	25	Note-4	10	31	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A1	Top	1,5	NA	NA	Hold		TR-200ED1	6.6/0.8 KV, 0.5MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L3	NA	NA		NOTE	Note-12	
30	0	83001-CEL-1-L1	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L1	NA	NA		NOTE	Note-12	
31	0	83001-CEL-2-L1	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L1	NA	NA		NOTE	Note-12	
32	0	83001-CEL-3-L1	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L1	NA	NA		NOTE	Note-12	
33	0	83001-CEL-4-L1	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L1	NA	NA		NOTE	Note-12	
34	0	83001-CEL-5-L1	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L1	NA	NA		NOTE	Note-12	
35	0	83001-CEL-1-L2	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L2	NA	NA		NOTE	Note-12	
36	0	83001-CEL-2-L2	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L2	NA	NA		NOTE	Note-12	
37	0	83001-CEL-3-L2	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L2	NA	NA		NOTE	Note-12	
38	0	83001-CEL-4-L2	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L2	NA	NA		NOTE	Note-12	
39	0	83001-CEL-5-L2	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L2	NA	NA		NOTE	Note-12	
40	0	83001-CEL-1-L3	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L3	NA	NA		NOTE	Note-12	
41	0	83001-CEL-2-L3	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L3	NA	NA		NOTE	Note-12	
42	0	83001-CEL-3-L3	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L3	NA	NA		NOTE	Note-12	
43	0	83001-CEL-4-L3	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L3	NA	NA		NOTE	Note-12	
44	0	83001-CEL-5-L3	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L3	NA	NA		NOTE	Note-12	
45	0	83001-CEL-1-N	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		N	NA	NA		NOTE	Note-12	
46	0	83001-CEL-2-N	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		N	NA	NA		NOTE	Note-12	
47	0	83001-CEL-3-N	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		N	NA	NA		NOTE	Note-12	
48	0	83001-CEL-E	P6	1C X 150	400	10	Note-4	10	11	Note-10	PE	TR-200DE1	6.6/0.4 KV, 1.6MVA Transformer-Neutral	LV side Cable Box	Side	0	CW	M32	Hold		TR-200DE1	Earth Point	Earth Boss	NA	0	NA	NA	Hold		PE	NA	NA		NOTE	Note-12	
49	0	86001-CEL-L1	P3	1C X 300	800	50	Note-4	10	58	Note-10	Power	JB-200E01	Solar PV Power Cable JB	JB	Bottom	1,5	CW	M40	Hold		SG-200D2	Breaker	Cable Compartment	Top	1,5	BW	M40	Hold		L1	NA	NA		NOTE	Note-12	Note-13
50	0	86001-CEL-L2	P3	1C X 300	800	50	Note-4	10	58	Note-10	Power	JB-200E01	Solar PV Power Cable JB	JB	Bottom	1,5	CW	M40	Hold		SG-200D2	Breaker	Cable Compartment	Top	1,5	BW	M40	Hold		L2	NA	NA		NOTE	Note-12	Note-13
51	0	86001-CEL-L3	P3	1C X 300	800	50	Note-4	10	58	Note-10	Power	JB-200E01	Solar PV Power Cable JB	JB	Bottom	1,5	CW	M40	Hold		SG-200D2	Breaker	Cable Compartment	Top	1,5	BW	M40	Hold		L3	NA	NA		NOTE	Note-12	Note-13
52	0	86002-CEL-L1	P3	1C X 300	800	50	Note-4	10	58	Note-10	Power	SG-200D2	Solar Breaker	Cable Compartment	Bottom	1,5	CW	M40	Hold		TR-200ED1	6.6/0.8 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		L1	NA	NA		NOTE	Note-12	Note-13
53	0	86002-CEL-L2	P3	1C X 300	800	50	Note-4	10	58	Note-10	Power	SG-200D2	Solar Breaker	Cable Compartment	Bottom	1,5	CW	M40	Hold		TR-200ED1	6.6/0.8 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		L2	NA	NA		NOTE	Note-12	Note-13
54	0	86002-CEL-L3	P3	1C X 300	800	50	Note-4	10	58	Note-10	Power	SG-200D2	Solar Breaker	Cable Compartment	Bottom	1,5	CW	M40	Hold		TR-200ED1	6.6/0.8 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		L3	NA	NA		NOTE	Note-12	Note-13
55	0	83010-CEL-L1	P3	1C X 95	400	25	Note-4	10	31	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M25	Hold		JB-200E1	Temporary Generator / Mobile Battery Pack	JB	Bottom	1,5	CW	M25	Hold		L1	NA	NA		NOTE	Note-12	
56	0	83010-CEL-L2	P3	1C X 95	400	25	Note-4	10	31	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M25	Hold		JB-200E1	Temporary Generator / Mobile Battery Pack	JB	Bottom	1,5	CW	M25	Hold		L2	NA	NA		NOTE	Note-12	
57	0	83010-CEL-L3	P3	1C X 95	400	25	Note-4	10	31	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M25	Hold		JB-200E1	Temporary Generator / Mobile Battery Pack	JB	Bottom	1,5	CW	M25	Hold		L3	NA	NA		NOTE	Note-12	
58	0	83010-CEL-N	P3	1C X 95	400	25	Note-4	10	31	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M25	Hold		JB-200E1	Temporary Generator / Mobile Battery Pack	JB	Bottom	1,5	CW	M25	Hold		N	NA	NA		NOTE	Note-12	
59	0	83010-CEL-PE	P6	1C X 95	400	25	Note-4	10	31	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M25	Hold		JB-200E1	Temporary Generator / Mobile Battery Pack	JB	Bottom	1,5	CW	M25	Hold		PE	NA	NA		NOTE	Note-12	
60	0	83011-CEL	P4	4C X 10	400	40	Note-4	10	47	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M25	Hold		A-85000	BESS PCS Cabinet	Cabinet	Side	1,5	BW	M25	Hold		L1,L2,L3,N	NA	NA		NOTE	Note-12	Note-15
61	0	83012-CEL	P4	5G16	400	40	Note-4	10	47	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M32	Hold		A-80000	Fuel Cell Auxiliary Load	Local Panel	Side	1,5	BW	M32	Hold		L1,L2,L3,N,PE	NA	NA		NOTE	Note-12	
62	0	83013-CEL-1-L1	P3	1C X 300	400	75	Note-4	10	86	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		A-20000	Electrolyser Auxiliary load	Local Panel	Side	1,5	BW	M40	Hold		L1	NA	NA		NOTE	Note-12	
63	0	83013-CEL-2-L1	P3	1C X 300	400	75	Note-4	10	86	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		A-20000	Electrolyser Auxiliary load	Local Panel	Side	1,5	BW	M40	Hold		L1	NA	NA		NOTE	Note-12	
64	0	83013-CEL-1-L2	P3	1C X 300	400	75	Note-4	10	86	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		A-20000	Electrolyser Auxiliary load	Local Panel	Side	1,5	BW	M40	Hold		L2	NA	NA		NOTE	Note-12	
65	0	83013-CEL-2-L2	P3	1C X 300	400	75	Note-4	10	86	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		A-20000	Electrolyser Auxiliary load	Local Panel	Side	1,5	BW	M40	Hold		L2	NA	NA		NOTE	Note-12	
66	0	83013-CEL-1-L3	P3	1C X 300	400	75	Note-4	10	86	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		A-20000	Electrolyser Auxiliary load	Local Panel	Side	1,5	BW	M40	Hold		L3	NA	NA		NOTE	Note-12	
67	0	83013-CEL-2-L3	P3	1C X 300	400	75	Note-4	10	86	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		A-20000	Electrolyser Auxiliary load	Local Panel	Side	1,5	BW	M40	Hold		L3	NA	NA		NOTE	Note-12	
68	0	83013-CEL-2-N	P3	1C X 300	400	75	Note-4	10	86	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		A-20000	Electrolyser Auxiliary load	Local Panel	Side	1,5	BW	M40	Hold		N	NA	NA		NOTE	Note-12	
69	0	83013-CEL-2-E	P6	1C X 150	400	75	Note-4	10	86	Note-10	PE	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M32	Hold		A-20000	Electrolyser Auxiliary load	Local Panel	Side	1,5	BW	M32	Hold		PE	NA	NA		NOTE	Note-12	
70	0	83014-CEL	P4	4C X 10	400	35	Note-4	10	42	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M25	Hold		CP-850-F-01	BESS LV1 Cabinet (+DISTR 1)	Cabinet	Side	1,5	BW	M25	Hold		L1,L2,L3,N	NA	NA		NOTE	Note-12	Note-14
71	0	83015-CEL	P4	4C X 10	400	38	Note-4	10	45	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M25	Hold		CP-850-F-02	BESS LV2 Cabinet (+DISTR 2)	Cabinet	Side	1,5	BW	M25	Hold		L1,L2,L3,N	NA	NA		NOTE	Note-12	Note-14
72	0	85001-CEL-1-E	P6	1C X 95	400	100	Note-4	10	113	Note-10	PE	A-85000		BESS	HOLD	Top	1,5	NA	NA	Hold	A-85000	Earth Point	Earth Boss	Top	1,5	NA	NA	Hold		PE	NA	NA		NOTE	Note-12	Note-14

DRAWING NO. 123A90-DDL-EL-DL-20101

REV. 01



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



NOTES

1. ALL DIMENSIONS IN MM UNLESS NOTED OTHERWISE.
2. ALL ELEVATIONS IN METERS. UNLESS NOTED OTHERWISE.
3. ELEVATIONS REFER TO T.O.S.
4. FOR ELECTRICAL EQUIPMENT LAYOUT OF CONTAINERS B-100, B-200, B-300, B-400 REFER TO THE RESPECTIVE LAYOUTS.

LEGEND

(M)	ELECTRIC MOTOR – LOW VOLTAGE
⊠	INTERFACE PANEL
◪	JUNCTION BOX
JB-200E2 / EL+500mm	TAG ITEM / REFERED ELEVATION TO T.O.S. (TOP OF STEEL)

HOLDS

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20106	ELECTRICAL EQUIPMENT LAYOUT UPSs & BATTERIES SWITCHROOM
123A90-DDL-IN-DL-40012	ITER EQUIPMENT LAYOUT
123A90-DDL-EL-DL-20104	ELECTRICAL EQUIPMENT LAYOUT HV & MV SWITCHROOM
123A90-DDL-EL-DL-20105	LV SWITCHGEAR ROOM EQUIPMENT LAYOUT

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/05/24	SAM	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	04/03/24	SAM	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20101**

REV.:	DATE:	SIGNATURE:
1_A	08/08/24	G.Randi

ROSETTI MARINO SpA

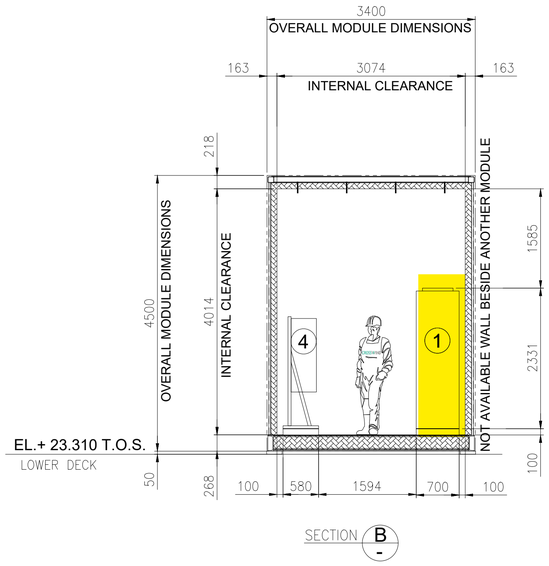
CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL EQUIPMENT LAYOUT
LOWER DECK

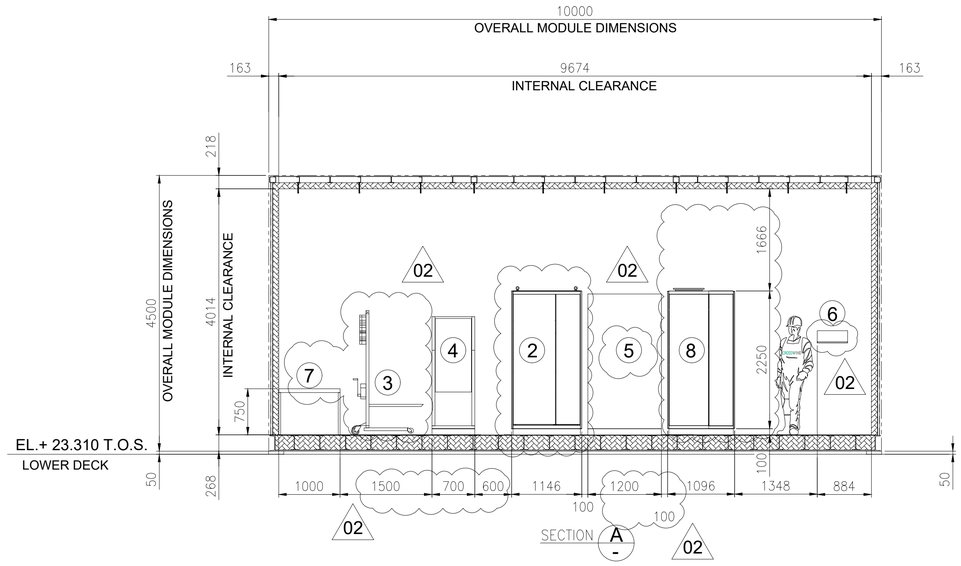
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN SAM	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 04/03/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20101	SHEET 001	REV. 01

File Name : 123A90-DDL-EL-DL-20101-Electrical Equipment Layout – Lower Deck

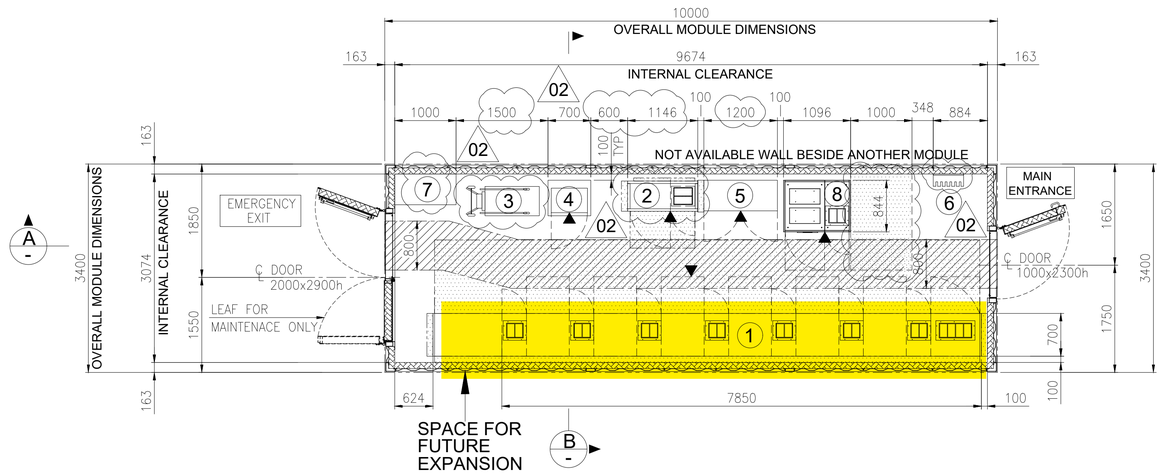
DRAWING NO. 123A90-DDL-EL-DL-20105 REV. 02



SECTION B



SECTION A



EQUIPMENT LAYOUT

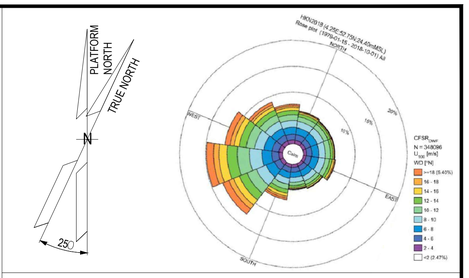
"B-200" LV (400V) SWITCHGEAR ROOM

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

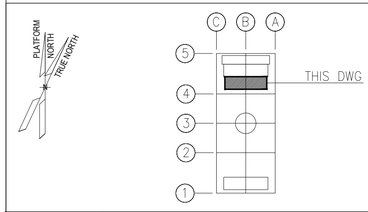
_____ FRONT OF EQUIPMENT

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



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	DYFO/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

FROM	TO

DESCRIPTION: LV Switchgear
TAG NUMBER: SG-200N1

COLUMN/CUBIC.: A2/+08

L1	BK	83010-CEL-L1 1C X 95 mm²	BK — L1
L2	BK	83010-CEL-L2 1C X 95 mm²	BK — L2
L3	BK	83010-CEL-L3 1C X 95 mm²	BK — L3
N	BK	83010-CEL-N 1C X 95 mm²	BK — N
PE	Y/G	83010-CEL-PE 1C X 95 mm²	Y/G — PE

P.E. BUS BAR

DESCRIPTION: TEMPORARY GENERATOR / MOBILE BATTERY PACK
TAG NUMBER: JB-200E2

INCOMING FROM LV SWITCHGEAR
SG-200N1

P.E. BUS BAR

COLUMN/CUBIC.: A1/+08

L1	BK	83013-CEL-L1 1C X 300 mm²	BK — L1
L2	BK	83013-CEL-L2 1C X 300 mm²	BK — L2
L3	BK	83013-CEL-L3 1C X 300 mm²	BK — L3
N	BK	83013-CEL-N 1C X 300 mm²	BK — N
PE	Y/G	83013-CEL-E 1C X 150 mm²	Y/G — PE

P.E. BUS BAR

DESCRIPTION: ELECTROLYSER AUXILIARY LOAD
TAG NUMBER: A-20000

P.E. BUS BAR

DESCRIPTION: FUEL CELL AUXILIARY LOAD
TAG NUMBER: A-80000

COLUMN/CUBIC.: A4/+03

L1	BK	83012-CEL 5G16 mm²	BK — L1
L2	BN		BN — L2
L3	GY		GY — L3
N	BU		BU — N
PE	Y/G		Y/G — PE

P.E. BUS BAR

P.E. BUS BAR

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
LV SWITCHGEAR SG-200N1

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

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 021

REV. 00

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20162 Rev. 00

TITLE

DATA SHEET FOR LV POWER CABLE (LSZH, FLAME RETARDANT)

CONSTRUCTIVE DATA

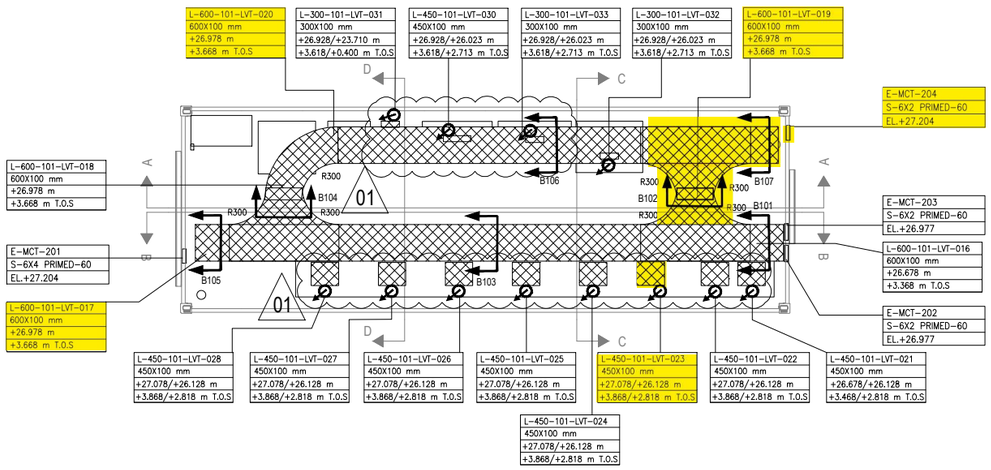
3	MR TAG / PART NUMBER			Note-3	Note-3	Note-3	Note-3
4	n° x NOMINAL AREA OF CONDUCTORS		N.xmm^2	1Cx300	1Cx95	3G2.5	3G4
5	n° AND DIAMETER OF WIRES IN EACH CONDUCTOR		N.xmm	37X3,35	19X2,67	7X0,67	7X0,85
6	CONDUCTOR CLASS (2)			2	2	2	2
7	RATED CURRENT IN AIR AT 30°		A	698	323	31	41
8	RATED CURRENT IN GROUND AT 20°		A	623	333	41	53
9							
10	A.C. PHASES RESISTANCE AT THE MAX OP. TEMP.		Ω/km	0,08	0,247	9,45	5,88
11	PHASE REACTANCE AT 50 Hz		Ω/km	0,08	0,085	0,103	0,096
12	MINIMUM INSULATION RESISTANCE AT 20°		MΩ/km	330	400	1100	1100
13	PHASE CAPACITY		µF/km	0,722	0,451	0,157	0,178
14							
15	MINIMUM ORDER Q.TY		m	300	300	300	300
16	MAX LENGHT OF DRUMS		m	1000	3000	7000	6000
17	DIAMETERS	BARE CONDUCTOR	mm	21	11,3	2	2,6
18		CORE (INSULATED CORE)	mm	25,8	14,5	4	4,6
19		INNER COVERING	mm	NA	NA	10,6	11,9
20		ARMOUR OR CONCENTRIC CONDUCTOR	mm	NA	NA	NA	NA
21							
22							
23		OVERALL	mm	29,4	17,3	13	14,3
24	MASSES	CONDUCTORS	kg/km	2730	864	68	109
25		INSULATION	kg/km	205	58	28	34
26		INNER COVERING	kg/km	NA	NA	83	101
27		ARMOUR OR CONCENTRIC CONDUCTOR	kg/km	NA	NA	NA	NA
28		OUTER SHEATING	kg/km	320	100	74	82
29							
30		TOTAL	kg/km	3255	1022	253	326
31	EXTERNAL COLOUR			GREY	GREY	GREY	GREY
32	CORE IDENTIFICATION (1)			BK	BK	BN,BU,Y/G	BN,BU,Y/G
33							
34							
35							
36							
37							
38							

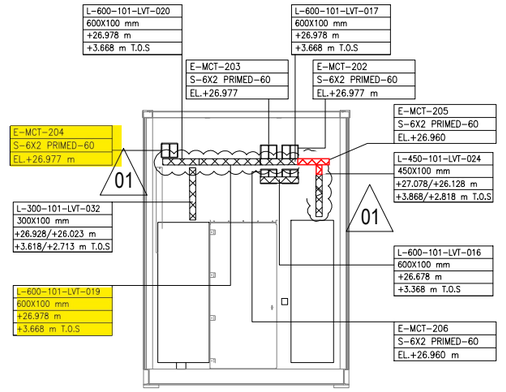
NOTE: (1) BK=BLACK, BN=BROWN, GY=GRAY, BU=BLUE, RD=RED, Y/G=YELLOW/GREEN

NA NOT APPLICABLE

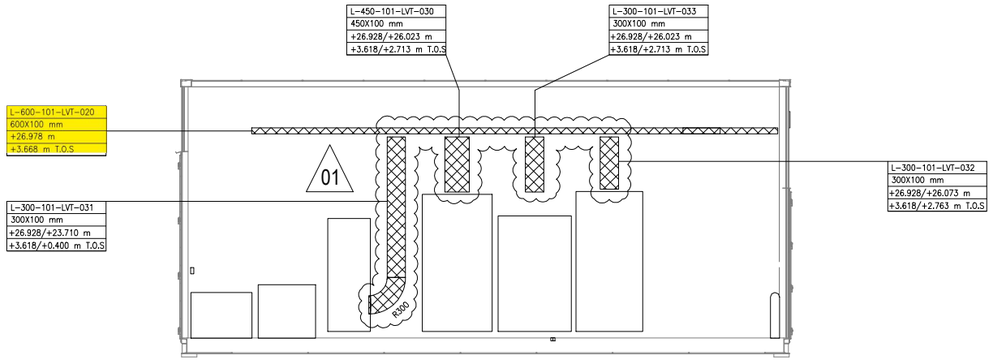
DRAWING NO. 123A90-DDL-EL-DL-20112

REV. 01

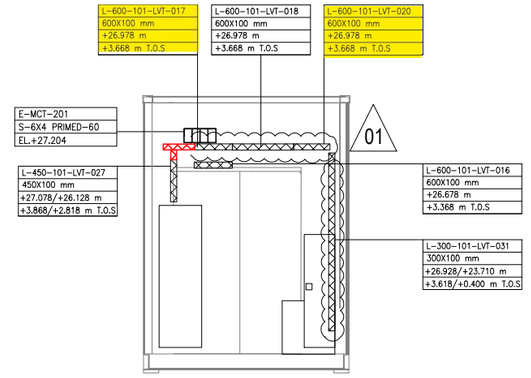




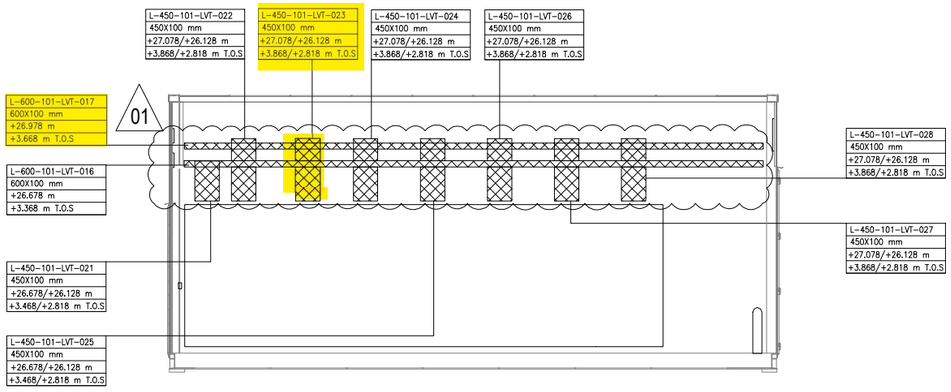
Section C-C



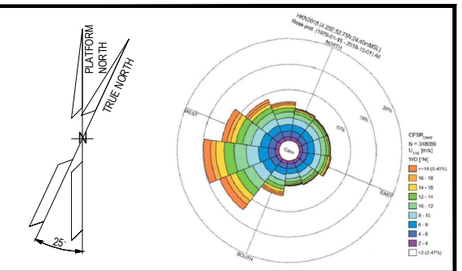
Section A-A



Section D-D



Section B-B



NOTES

1.ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.

2.THIS DRAWING IS VALID ONLY FOR ELECTRICAL CABLE ROUTING LAYOUT.

3.DRAWING SPLIT INTO MULTIPLE SHEETS FOR CLARITY.

4.FOR INSTALLATION DETAIL OF CABLE LADDER REFER TO DOC. 123A90-DDL-EL-DD-20093.

5.FOR LIGHTING AND SOCKET EQUIPMENTS SEE DRAWING 123A90-DDL-EL-DL-20123 AND 1724000049-EL-LIS-00044

6.ELEVATIONS REFER TO T.O.S. (EL+23.310m)

7.FOR PANEL MCTs DETAILS PLEASE REFER TO 123A90-DDL-EL-DL-20115.

LEGEND

ELECTRICAL LV CABLE LADDER

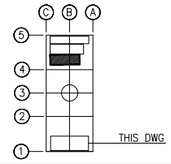
ELECTRICAL CABLE LADDER (VERTICAL DROP)

MCT TAG
TAG
MCT FRAME
ELEVATION

B100
CABLE SECTION

CABLE LADDER TAG
TAG
SIZE
ELEVATION
ELEVATION IN T.O.S

KEY PLAN



REFERENCE DOCUMENTS

123A90-DDL-EL-DD-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE
123A90-DDL-EL-DL-20105	ELECTRICAL EQUIPMENT LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DL-20123	LIGHTING & SOCKET LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DD-20095	MCT COMPOSITION
1724000049-EL-LIS-00044	B-200 ELECTRICAL COMPONENTS LIST AND DS - E&I SHELTERS
123A90-DDL-EL-DL-20115	ELECTRICAL MCT LAYOUT - LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	SAM	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	18/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20112**

REV.:	DATE:	SIGNATURE:
1_B	02/09/24	G.Randi

ROSETTI MARINO SpA

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

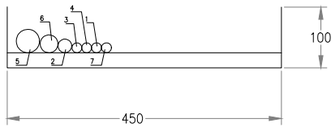
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DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 02/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20112	SHEET 1of11	REV. 01

File Name : 123A90-DDL-EL-DL-20112

DRAWING NO. 123A90-DDL-EL-DL-20112

REV. 01

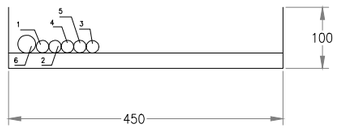
L-450-101-LVT-028



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83034-CEL	DC Battery System – Switchgears Control – Feeder A	SG-200N1	UP-200F1	POWER CABLE	P4	4G16
2	83035-CEL	DC Battery System – Switchgears Control – Feeder B	SG-200N1	UP-200F1	POWER CABLE	P4	4G16
3	83036-CEL	DC UPS NAVAID System – Feeder A	SG-200N1	UP-200F2	POWER CABLE	P5	3G16
4	83037-CEL	DC UPS NAVAID System – Feeder B	SG-200N1	UP-200F2	POWER CABLE	P5	3G16
5	83022-CEL-01	Welding Sockets (Lower Deck)	SG-200N1	JB-200E4	POWER CABLE	P4	5G50
6	83028-CEL	AC UPS PAS – 30min – Line A	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
7	83018-CEL	Sea water intake pump A	SG-200N1	PM-50001 A	POWER CABLE	P4	4G4

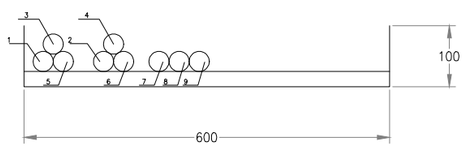
01

L-450-101-LVT-023



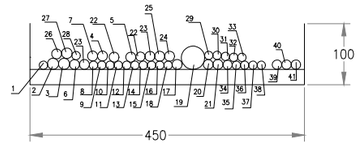
POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83010-CEL-L1	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
2	83010-CEL-L2	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
3	83010-CEL-L3	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
4	83010-CEL-N	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
5	83010-CEL-PE	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P6	1C X 95
6	83031-CEL	AC UPS F&G – 8h – Line A	SG-200N1	UP-200F4	POWER CABLE	P4	4G35

L-600-101-LVT-016 VIA-E-MCT-206



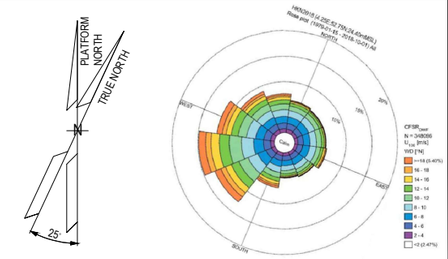
POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83001-CEL-4-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
2	83001-CEL-5-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
3	83001-CEL-4-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
4	83001-CEL-5-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
5	83001-CEL-4-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
6	83001-CEL-5-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
7	83001-CEL-1-N	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
8	83001-CEL-2-N	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
9	83001-CEL-3-N	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300

L-450-101-LVT-030



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	P-EJB-200N1-04-L3-01	Normal Lighting – Stairs	DP-200N1	EJB-200N1-04-L3-01	POWER CABLE	P4	3G4
2	P-ESO-200N1-05-L1-01	Small Power Socket (Upper Deck)	DP-200N1	EJB-200N1-05-L1-01	POWER CABLE	P4	3G10
3	P-ESO-200N1-06-L2-01	Small Power Socket (Lower Deck)	DP-200N1	EJB-200N1-06-L2-01	POWER CABLE	P4	3G10
4	P-ETB-200N1-20-L1-01	TRACE HEATING – PROCESS LINES – FEEDER 7 (SEA WATER PUMPS)	DP-200N1	ETB-200N1-19-L3-01	POWER CABLE	P7	3G6
5	P-ETB-200N1-18-L2-01	TRACE HEATING – PROCESS LINES – FEEDER 5 (VESSEL KO DRUM)	DP-200N1	ETB-200N1-18-L2-01	POWER CABLE	P4	3G6
6	P-EJB-200N1-09-L2-01	Emergency Lighting Lower Deck – Circuit No. 1	DP-200N1	EJB-200N1-09-L2-01	POWER CABLE	P4	4G4_E
7	P-ETB-200N1-19-L3-01	TRACE HEATING – PROCESS LINES – FEEDER 6 (H2 VENT)	DP-200N1	ETB-200N1-20-L1-01	POWER CABLE	P7	3G6
8	83104-CEL	SIS –Controller and I/O Cabinet – Auxiliary	DP-200N1	B400-SIS-001	POWER CABLE	P4	3G2.5
9	83105-CEL	PCS –Controller and I/O Cabinet – Auxiliary	DP-200N1	B400-PCS-001	POWER CABLE	P4	3G2.5
10	83106-CEL	EMCS –Controller and I/O Cabinet – Auxiliary	DP-200N1	B400-EMCS-001	POWER CABLE	P4	3G2.5
11	83107-CEL	FGS Fire & Gas Panel – Auxiliary	DP-200N1	B400-FGS-001	POWER CABLE	P4	3G2.5
12	83108-CEL	System Server / Network Cabinet – Auxiliary	DP-200N1	B400-NET-001	POWER CABLE	P4	3G2.5
13	83109-CEL	Server cabiner ITER – Auxiliary	DP-200N1	B400-SRV-001	POWER CABLE	P4	3G2.5
14	83110-CEL	UCP – Instrument Air Package –A–63000 – Auxiliary	DP-200N1	CP-630E1	POWER CABLE	P4	3G2.5
15	83111-CEL	UCP – N2 Package – Auxiliary	DP-200N1	CP-640E1	POWER CABLE	P4	3G2.5
16	83117-CEL	Auxiliary Trafo SOLAR 0,5MVA	DP-200N1	CP-200E2	POWER CABLE	P4	3G2.5
17	83118-CEL	Auxiliary GIS	DP-200N1	CP-100E1	POWER CABLE	P4	3G6
18	83119-CEL	Auxiliary 6.6kV Switchboard	DP-200N1	SG-100D1	POWER CABLE	P4	3G2.5
19	83043-CEL	DB – Lighting & Small Power – BoP	SG-200N1	DP-200N1	POWER CABLE	P4	5G50
20	P-EJB-200N1-10-L3-01	Emergency Lighting Stairs	DP-200N1	EJB-200N1-10-L3-01	POWER CABLE	P4	4G4_E
21	P-EJB-200N1-17-L1-01	TRACE HEATING – PROCESS LINES – FEEDER 4 (WW LINES) Cold JB	DP-200N1	EJB-200N1-17-L1-01	POWER CABLE	P4	3G6
22	P-EJB-200N1-02-L1-01	Normal Lighting Upper Deck	DP-200N1	EJB-200N1-02-L1-01	POWER CABLE	P4	3G4
23	P-EJB-200N1-08-L1-04	Emergency Lighting Upper Deck	DP-200N1	EJB-200N1-08-L1-04	POWER CABLE	P4	4G4_E
24	P-EJB-200N1-14-L1-01	TRACE HEATING – PROCESS LINES – FEEDER 1 (SWS LINES) Cold JB	DP-200N1	EJB-200N1-14-L1-01	POWER CABLE	P4	3G6
25	P-EJB-200N1-15-L2-01	TRACE HEATING – PROCESS LINES – FEEDER 2 (CI LINES) Cold JB	DP-200N1	EJB-200N1-15-L2-01	POWER CABLE	P4	3G6
26	P-ETB-200N1-16-L3-01	TRACE HEATING – PROCESS LINES – FEEDER 3 (DM LINE)	DP-200N1	ETB-200N1-16-L3-01	POWER CABLE	P4	3G6
27	83112-CEL	Auxiliary Trafo OLTC	DP-200N1	CP-100E2	POWER CABLE	P4	5G4
28	83113-CEL	Auxiliary Trafo AVR	DP-200N1	CP-100E3	POWER CABLE	P4	3G2.5
29	83114-CEL	Auxiliary Trafo 7MVA	DP-200N1	CP-100E4	POWER CABLE	P4	3G2.5
30	83115-CEL	Auxiliary NER	DP-200N1	RR-100D1	POWER CABLE	P4	3G2.5
31	83116-CEL	Auxiliary Trafo 1,6MVA	DP-200N1	CP-200E1	POWER CABLE	P4	3G2.5
32	83120-CEL	Auxiliary LV	DP-200N1	SG-200N1	POWER CABLE	P4	3G2.5
33	83121-CEL	Auxiliary LV SWBD 800/460V	DP-200N1	SG-200D2	POWER CABLE	P4	3G2.5
34	P-EJB-200N1-03-L2-01	Normal Lighting Lower Deck – Circuit No. 1	DP-200N1	EJB-200N1-03-L2-01	POWER CABLE	P4	3G4
35	83122-CEL	AC UPS PAS AUXILIARY	DP-200N1	UP-200F3	POWER CABLE	P4	3G2.5
36	83123-CEL	AC UPS F&G AUXILIARY	DP-200N1	UP-200F4	POWER CABLE	P4	3G2.5
37	83124-CEL	DC BATTERY SYSTEM AUXILIARY	DP-200N1	UP-200F1	POWER CABLE	P4	3G2.5
38	P-EPH-200N1-01	Twilight Relay Sensor	DP-200N1	EPH-200N1-01	POWER CABLE	P5	3G4
39	83125-CEC	LV Switchgear	DP-200N1	SG-200N1	CONTROL CABLE	P7	7C X 1.5
40	83126-CEC	LV Switchgear	DP-200N1	SG-200N1	CONTROL CABLE	P7	7C X 1.5
41	83127-CEC	LV Switchgear	DP-200N1	SG-200N1	CONTROL CABLE	P7	7C X 1.5

01



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S. (EL+23.310m)

CABLE TYPE DETAILS

P3 - SINGLE CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P4 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZHOUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P5 - MULTI CORE, 0.6/1 KV, FIRE RESISTANT, STRANDED COPPER, MICA/GLASS TAPE, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, GALVANIZED STEEL WIRE BRAID ARMOURED CABLE, FLAME RETARDANT
P7 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P8 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, COPPER WIRE BRAID SCREEN, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
C1- SPECIAL SIGNAL CABLE MULTI CORE, STRANDED COPPER, XLPE INSULATION, TIN CU BRAIDED SCREEN PUR JACKET, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
C2- SINGLE CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, STRANDED COPPER, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT

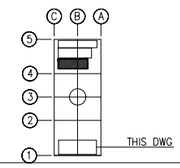
LEGEND

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20112**

REV.:	DATE:	SIGNATURE:
1_B	02/09/24	G.Randi

ROSETTI MARINO SpA

KEY PLAN



REFERENCE DOCUMENTS

123A90-DDL-EL-DD-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE
123A90-DDL-EL-DL-20105	ELECTRICAL EQUIPMENT LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DL-20123	LIGHTING & SOCKET LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DD-20095	MCT COMPOSITION
1724000049-EL-LIS-00044	B-200 ELECTRICAL COMPONENTS LIST AND DS - E&I SHELTERS
123A90-DDL-EL-DL-20115	ELECTRICAL MCT LAYOUT - LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	SAM	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	18/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

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

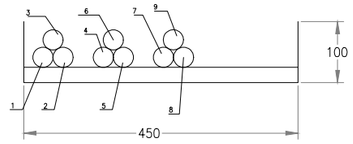
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:50
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 02/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20112	SHEET 6of11	REV. 01

File Name : 123A90-DDL-EL-DL-20112

DRAWING NO. 123A90-DDL-EL-DL-20112 REV. 01

L-450-101-LVT-021 VIA E-MCT-205

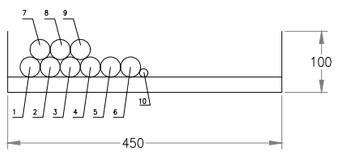
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POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83001-CEL-1-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
2	83001-CEL-2-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
3	83001-CEL-3-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
4	83001-CEL-1-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
5	83001-CEL-2-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
6	83001-CEL-3-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
7	83001-CEL-1-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
8	83001-CEL-2-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
9	83001-CEL-3-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300

01

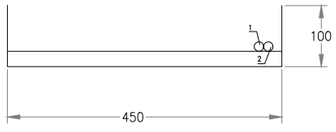
L-450-101-LVT-021 VIA E-MCT-206



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83001-CEL-4-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
2	83001-CEL-5-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
3	83001-CEL-4-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
4	83001-CEL-5-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
5	83001-CEL-4-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
6	83001-CEL-5-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
7	83001-CEL-1-N	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
8	83001-CEL-2-N	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
9	83001-CEL-3-N	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300

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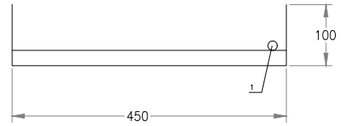
L-450-101-LVT-021 VIA E-MCT-203



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83005-CEC	6.6KV HV Switchgear	SG-200N1	SG-100D1	CONTROL CABLE	P7	7C X 1.5
2	83006-CEC	6.6KV HV Switchgear	SG-200N1	SG-100D1	CONTROL CABLE	P7	7C X 1.5

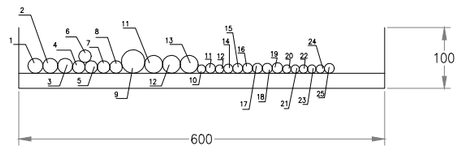
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L-450-101-LVT-021 VIA E-MCT-201



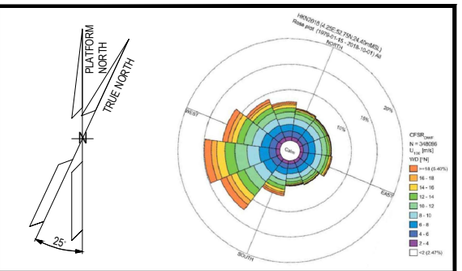
POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	82013-CEC	LV Switchgear	SG-100D1	SG-200N1	CONTROL CABLE	P7	7C X 1.5

B 102 (L-600-101-LVT-019)



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POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83020-CEL	Crane	SG-200N1	JB-200E3	POWER CABLE	P4	5G16
2	83025-CEL	HVAC panel – UPS Room	SG-200N1	B300-HSB-001	POWER CABLE	P4	5G16
3	83026-CEL	HVAC panel – ITER	SG-200N1	B400-HSB-001	POWER CABLE	P4	5G16
4	83010-CEL-L1	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
5	83010-CEL-L2	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
6	83010-CEL-L3	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
7	83010-CEL-N	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
8	83010-CEL-PE	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P6	1C X 95
9	83021-CEL-01	Welding Sockets (Top Deck) JB's	SG-200N1	JB-200E6	POWER CABLE	P4	5G50
10	84318-CEL	LV Switchboard Auxiliary	DP-200F3	SG-200N1	POWER CABLE	P5	3G2.5
11	83029-CEL	AC UPS PAS – 30min – Line B	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
12	83030-CEL	AC UPS PAS – 30min – Bypass	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
13	83031-CEL	AC UPS F&G – 8h – Line A	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
14	P-EJB-200N1-02-L1-01	Normal Lighting Upper Deck	DP-200N1	EJB-200N1-02-L1-01	POWER CABLE	P4	3G4
15	P-EJB-200N1-08-L1-04	Emergency Lighting Upper Deck	DP-200N1	EJB-200N1-08-L1-04	POWER CABLE	P4	4G4_E
16	P-EJB-200N1-14-L1-01	TRACE HEATING – PROCESS LINES – FEEDER 1 (SWS LINES) Cold JB	DP-200N1	EJB-200N1-14-L1-01	POWER CABLE	P4	3G6
17	P-EJB-200N1-15-L2-01	TRACE HEATING – PROCESS LINES – FEEDER 2 (CI LINES) Cold JB	DP-200N1	EJB-200N1-15-L2-01	POWER CABLE	P4	3G6
18	P-ETB-200N1-16-L3-01	TRACE HEATING – PROCESS LINES – FEEDER 3 (DM LINE)	DP-200N1	ETB-200N1-16-L3-01	POWER CABLE	P4	3G6
19	83112-CEL	Auxiliary Trafo OLTC	DP-200N1	CP-100E2	POWER CABLE	P4	5G4
20	83113-CEL	Auxiliary Trafo AVR	DP-200N1	CP-100E3	POWER CABLE	P4	3G2.5
21	83114-CEL	Auxiliary Trafo 7MVA	DP-200N1	CP-100E4	POWER CABLE	P4	3G2.5
22	83115-CEL	Auxiliary NER	DP-200N1	RR-100D1	POWER CABLE	P4	3G2.5
23	83116-CEL	Auxiliary Trafo 1,6MVA	DP-200N1	CP-200E1	POWER CABLE	P4	3G2.5
24	83124-CEL	DC BATTERY SYSTEM AUXILIARY	DP-200N1	UP-200F1	POWER CABLE	P4	3G2.5
25	P-EJB-200N1-10-L3-01	Emergency Lighting stairs	DP-200N1	EJB-200N1-10-L3-01	POWER CABLE	P4	4G4_E



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S. (EL+23.310m)

CABLE TYPE DETAILS

P3 - SINGLE CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P4 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZHOUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P5 - MULTI CORE, 0.6/1 KV, FIRE RESISTANT, STRANDED COPPER, MICA/GLASS TAPE, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, GALVANIZED STEEL WIRE BRAID ARMOURED CABLE, FLAME RETARDANT
P7 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P8 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, COPPER WIRE BRAID SCREEN, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
C1- SPECIAL SIGNAL CABLE MULTI CORE, STRANDED COPPER, XLPE INSULATION, TIN CU BRAIDED SCREEN PUR JACKET, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
C2- SINGLE CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, STRANDED COPPER, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT

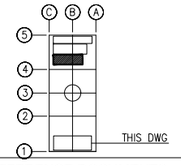
LEGEND

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20112**

REV.:	DATE:	SIGNATURE:
1_B	02/09/24	G.Randi

ROSETTI MARINO SpA

KEY PLAN



REFERENCE DOCUMENTS

123A90-DDL-EL-DD-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE
123A90-DDL-EL-DL-20105	ELECTRICAL EQUIPMENT LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DL-20123	LIGHTING & SOCKET LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DD-20095	MCT COMPOSITION
1724000049-EL-LIS-00044	B-200 ELECTRICAL COMPONENTS LIST AND DS - E&I SHELTERS
123A90-DDL-EL-DL-20115	ELECTRICAL MCT LAYOUT - LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	SAM	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	18/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

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

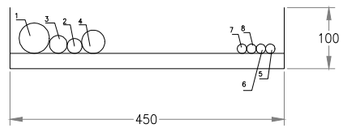
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DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 02/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20112	SHEET 7of11	REV. 01

File Name : 123A90-DDL-EL-DL-20112

DRAWING NO. 123A90-DDL-EL-DL-20112

REV. 01

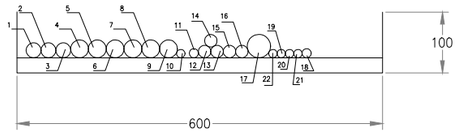
L-450-101-LVT-024



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83016-CEL	Water Package	SG-200N1	JB-500E8	POWER CABLE	P4	5G70
2	83020-CEL	Crane	SG-200N1	JB-200E3	POWER CABLE	P4	5G16
3	83030-CEL	AC UPS PAS – 30min – Bypass	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
4	83043-CEL	DB – Lighting & Small Power – BoP	SG-200N1	DP-200N1	POWER CABLE	P4	5G50
5	83016-CEC	LV Switchgear	SG-200D2	SG-200N1	CONTROL CABLE	P7	7C X 1.5
6	83125-CEC	LV Switchgear	DP-200N1	SG-200N1	CONTROL CABLE	P7	7C X 1.5
7	83126-CEC	LV Switchgear	DP-200N1	SG-200N1	CONTROL CABLE	P7	7C X 1.5
8	83127-CEC	LV Switchgear	DP-200N1	SG-200N1	CONTROL CABLE	P7	7C X 1.5

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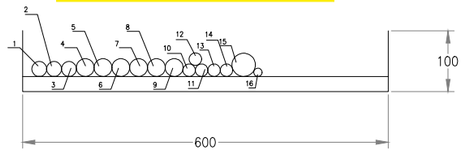
L-600-101-LVT-020 VIA-E-MCT-204



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83020-CEL	Crane	SG-200N1	JB-200E3	POWER CABLE	P4	5G16
2	83025-CEL	HVAC panel – UPS Room	SG-200N1	B300-HSB-001	POWER CABLE	P4	5G16
3	83026-CEL	HVAC panel – ITER	SG-200N1	B400-HSB-001	POWER CABLE	P4	5G16
4	83028-CEL	AC UPS PAS – 30min – Line A	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
5	83029-CEL	AC UPS PAS – 30min – Line B	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
6	83030-CEL	AC UPS PAS – 30min – Bypass	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
7	83031-CEL	AC UPS F&G – 8h – Line A	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
8	83032-CEL	AC UPS F&G – 8h – Line B	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
9	83033-CEL	AC UPS F&G – 8h – Line Bypass	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
10	84315-CEL	UCP – HVAC LV Room	DP-200F3	B200-HSB-001	POWER CABLE	P5	3G2.5
11	P-EJB-200N1-03-L2-01	Normal Lighting Lower Deck – Circuit No. 1	DP-200N1	EJB-200N1-03-L2-01	POWER CABLE	P4	3G4
12	83010-CEL-L1	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
13	83010-CEL-L2	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
14	83010-CEL-L3	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
15	83010-CEL-N	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
16	83010-CEL-PE	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P6	1C X 95
17	83021-CEL-01	Welding Sockets (Top Deck) JB's	SG-200N1	JB-200E6	POWER CABLE	P4	5G50
18	P-EPH-200N1-01	Twilight Relay Sensor	DP-200N1	EPH-200N1-01	POWER CABLE	P5	3G4
19	83123-CEL	AC UPS F&G AUXILIARY	DP-200N1	UP-200F4	POWER CABLE	P4	3G2.5
20	84318-CEL	LV Switchboard Auxiliary	DP-200F3	SG-200N1	POWER CABLE	P5	3G2.5
21	84319-CEL	LV SWBD 800/460V Auxiliary	DP-200F3	SG-200D2	POWER CABLE	P5	3G2.5
22	83122-CEL	AC UPS PAS AUXILIARY	DP-200N1	UP-200F3	POWER CABLE	P4	3G2.5

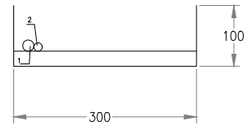
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L-600-101-LVT-017 VIA-E-MCT-204



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83020-CEL	Crane	SG-200N1	JB-200E3	POWER CABLE	P4	5G16
2	83025-CEL	DISTRIBUTION & HVAC panels – UPS Room	SG-200N1	B300-HSB-001	POWER CABLE	P4	5G16
3	83026-CEL	DISTRIBUTION & HVAC panels – ITER	SG-200N1	B400-HSB-001	POWER CABLE	P4	5G16
4	83028-CEL	AC UPS PAS – 30min – Line A	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
5	83029-CEL	AC UPS PAS – 30min – Line B	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
6	83030-CEL	AC UPS PAS – 30min – Bypass	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
7	83031-CEL	AC UPS F&G – 8h – Line A	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
8	83032-CEL	AC UPS F&G – 8h – Line B	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
9	83033-CEL	AC UPS F&G – 8h – Line Bypass	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
10	83010-CEL-L1	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
11	83010-CEL-L2	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
12	83010-CEL-L3	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
13	83010-CEL-N	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
14	83010-CEL-PE	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P6	1C X 95
15	83021-CEL-01	Welding Sockets (Top Deck)	SG-200N1	JB-200E6	POWER CABLE	P4	5G50
16	84318-CEL	LV Switchboard Auxiliary	DP-200F3	SG-200N1	POWER CABLE	P5	3G2.5

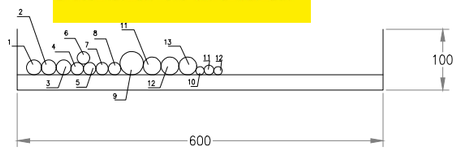
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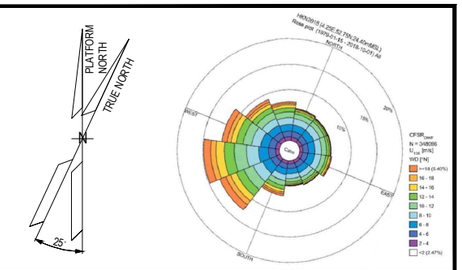
POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	84315-CEL	UCP – HVAC LV Room	DP-200F3	B200-HSB-001	POWER CABLE	P5	3G2.5
2	83024-CEL	DISTRIBUTION & HVAC Panel – LV Room	SG-200N1	B200-HSB-001	POWER CABLE	P4	5G16

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L-600-101-LVT-019 VIA-E-MCT-204



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83020-CEL	Crane	SG-200N1	JB-200E3	POWER CABLE	P4	5G16
2	83025-CEL	HVAC panel – UPS Room	SG-200N1	B300-HSB-001	POWER CABLE	P4	5G16
3	83026-CEL	HVAC panel – ITER	SG-200N1	B400-HSB-001	POWER CABLE	P4	5G16
4	83010-CEL-L1	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
5	83010-CEL-L2	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
6	83010-CEL-L3	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
7	83010-CEL-N	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
8	83010-CEL-PE	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P6	1C X 95
9	83021-CEL-01	Welding Sockets (Top Deck) JB's	SG-200N1	JB-200E6	POWER CABLE	P4	5G50
10	84318-CEL	LV Switchboard Auxiliary	DP-200F3	SG-200N1	POWER CABLE	P5	3G2.5
11	83029-CEL	AC UPS PAS – 30min – Line B	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
12	83030-CEL	AC UPS PAS – 30min – Bypass	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
13	83031-CEL	AC UPS F&G – 8h – Line A	SG-200N1	UP-200F4	POWER CABLE	P4	4G35



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S. (EL+23.310m)

CABLE TYPE DETAILS

P3 - SINGLE CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P4 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZHOUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P5 - MULTI CORE, 0.6/1 KV, FIRE RESISTANT, STRANDED COPPER, MICA/GLASS TAPE, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, GALVANIZED STEEL WIRE BRAID ARMOURED CABLE, FLAME RETARDANT
P7 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P8 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, COPPER WIRE BRAID SCREEN, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
C1- SPECIAL SIGNAL CABLE MULTI CORE, STRANDED COPPER, XLPE INSULATION, TIN CU BRAIDED SCREEN PUR JACKET, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
C2- SINGLE CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, STRANDED COPPER, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT

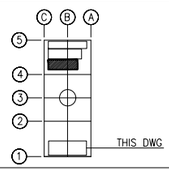
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VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20112**

REV.:	DATE:	SIGNATURE:
1_B	02/09/24	G.Randi

ROSETTI MARINO SpA

KEY PLAN



REFERENCE DOCUMENTS

123A90-DDL-EL-DD-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE
123A90-DDL-EL-DL-20105	ELECTRICAL EQUIPMENT LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DL-20123	LIGHTING & SOCKET LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DD-20095	MCT COMPOSITION
1724000049-EL-LIS-00044	B-200 ELECTRICAL COMPONENTS LIST AND DS - E&I SHELTERS
123A90-DDL-EL-DL-20115	ELECTRICAL MCT LAYOUT - LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	SAM	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	18/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

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

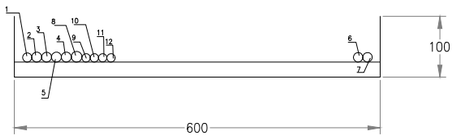
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DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 02/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20112	SHEET 8of11	REV. 01

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REV. 01

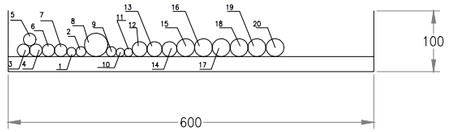
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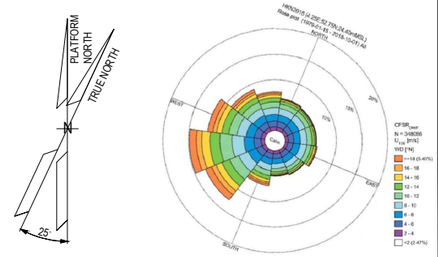
POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	P-EJB-200N1-02-L1-01	Normal Lighting Upper Deck	DP-200N1	EJB-200N1-02-L1-01	POWER CABLE	P4	3G4
2	P-ETB-200N1-16-L3-01	TRACE HEATING - PROCESS LINES - FEEDER 3 (DM LINE)	DP-200N1	ETB-200N1-16-L3-01	POWER CABLE	P4	3G6
3	P-EJB-200N1-08-L1-04	Emergency Lighting Upper Deck	DP-200N1	EJB-200N1-08-L1-04	POWER CABLE	P4	4G4_E
4	P-EJB-200N1-14-L1-01	TRACE HEATING - PROCESS LINES - FEEDER 1 (SWS LINES) Cold JB	DP-200N1	EJB-200N1-14-L1-01	POWER CABLE	P4	3G6
5	P-EJB-200N1-15-L2-01	TRACE HEATING - PROCESS LINES - FEEDER 2 (CI LINES) Cold JB	DP-200N1	EJB-200N1-15-L2-01	POWER CABLE	P4	3G6
6	83005-CEC	6.6KV HV Switchgear	SG-200N1	SG-100D1	CONTROL CABLE	P7	7C X 1.5
7	83006-CEC	6.6KV HV Switchgear	SG-200N1	SG-100D1	CONTROL CABLE	P7	7C X 1.5
8	83112-CEL	Auxiliary Trafo OLTC	DP-200N1	CP-100E2	POWER CABLE	P4	5G4
9	83113-CEL	Auxiliary Trafo AVR	DP-200N1	CP-100E3	POWER CABLE	P4	3G2.5
10	83114-CEL	Auxiliary Trafo 7MVA	DP-200N1	CP-100E4	POWER CABLE	P4	3G2.5
11	83115-CEL	Auxiliary NER	DP-200N1	RR-100D1	POWER CABLE	P4	3G2.5
12	83116-CEL	Auxiliary Trafo 1,6MVA	DP-200N1	CP-200E1	POWER CABLE	P4	3G2.5

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B 107 (L-600-101-LVT-020)



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	P-EJB-200N1-03-L2-01	Normal Lighting Lower Deck - Circuit No. 1	DP-200N1	EJB-200N1-03-L2-01	POWER CABLE	P4	3G4
2	P-ETB-200N1-16-L3-01	TRACE HEATING - PROCESS LINES - FEEDER 3 (DM LINE)	DP-200N1	ETB-200N1-16-L3-01	POWER CABLE	P4	3G6
3	83010-CEL-L1	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
4	83010-CEL-L2	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
5	83010-CEL-L3	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
6	83010-CEL-N	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
7	83010-CEL-PE	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P6	1C X 95
8	83021-CEL-01	Welding Sockets (Top Deck) JB's	SG-200N1	JB-200E6/ JB-200E7	POWER CABLE	P4	5G50
9	P-ETB-200N1-15-L2-01	Trace Heating - Process Lines - Feeder 2	DP-200N1	ETB-200N1-15-L2-01	POWER CABLE	P4	3G6
10	83122-CEL	AC UPS PAS AUXILIARY	DP-200N1	UP-200F3	POWER CABLE	P4	3G2.5
11	83123-CEL	AC UPS F&G AUXILIARY	DP-200N1	UP-200F4	POWER CABLE	P4	3G2.5
12	83020-CEL	Crane	SG-200N1	JB-200E3	POWER CABLE	P4	5G16
13	83025-CEL	DISTRIBUTION & HVAC panel - UPS Room	SG-200N1	B300-HSB-001	POWER CABLE	P4	5G16
14	83026-CEL	DISTRIBUTION & HVAC panel - ITER	SG-200N1	B400-HSB-001	POWER CABLE	P4	5G16
15	83028-CEL	AC UPS PAS - 30min - Line A	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
16	83029-CEL	AC UPS PAS - 30min - Line B	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
17	83030-CEL	AC UPS PAS - 30min - Bypass	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
18	83031-CEL	AC UPS F&G - 8h - Line A	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
19	83032-CEL	AC UPS F&G - 8h - Line B	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
20	83033-CEL	AC UPS F&G - 8h - Line Bypass	SG-200N1	UP-200F4	POWER CABLE	P4	4G35



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S. (EL+23.310m)

CABLE TYPE DETAILS

P3 - SINGLE CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P4 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZHOUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P5 - MULTI CORE, 0.6/1 KV, FIRE RESISTANT, STRANDED COPPER, MICA/GLASS TAPE, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, GALVANIZED STEEL WIRE BRAID ARMOURED CABLE, FLAME RETARDANT
P7 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P8 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, COPPER WIRE BRAID SCREEN, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
C1- SPECIAL SIGNAL CABLE MULTI CORE, STRANDED COPPER, XLPE INSULATION, TIN CU BRAIDED SCREEN PUR JACKET, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
C2- SINGLE CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, STRANDED COPPER, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT

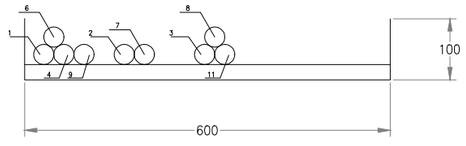
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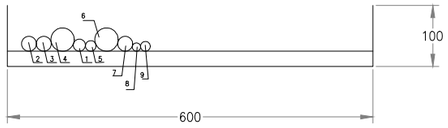
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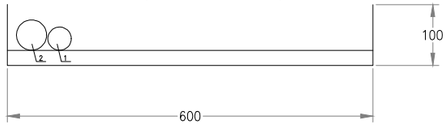


POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83001-CEL-1-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
2	83001-CEL-2-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
3	83001-CEL-3-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
4	83001-CEL-1-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
6	83001-CEL-1-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
7	83001-CEL-2-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
8	83001-CEL-3-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
9	83001-CEL-2-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
11	83001-CEL-3-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300

B103 (L-600-101-LVT-017)



B103 (L-600-101-LVT-016)



B103 (L-600-101-LVT-017)

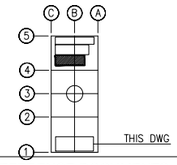
POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83011-CEL	BESS PCS Cabinet	SG-200N1	CP-850F3	POWER CABLE	P4	4C X 10
2	83025-CEL	DISTRIBUTION & HVAC panel - UPS Room	SG-200N1	B300-HSB-001	POWER CABLE	P4	5G16
3	83026-CEL	DISTRIBUTION & HVAC panel - ITER	SG-200N1	B400-HSB-001	POWER CABLE	P4	5G16
4	83043-CEL	DB - Lighting & Small Power - BoP	SG-200N1	DP-200N1	POWER CABLE	P4	5G50
5	82013-CEC	LV Switchgear	SG-100D1	SG-200N1	CONTROL CABLE	P7	7C X 1.5
6	83021-CEL-01	Welding Sockets (Top Deck) JB's	SG-200N1	JB-200E6/ JB-200E7	POWER CABLE	P4	5G50
7	83023-CEL	DISTRIBUTION & HVAC Panel - HV Room	SG-200N1	B100-HSB-001	POWER CABLE	P4	5G16
8	83124-CEL	DC BATTERY SYSTEM AUXILIARY	DP-200N1	UP-200F1	POWER CABLE	P4	3G2.5
9	P-EJB-200N1-10-L3-01	Emergency Lighting stairs	DP-200N1	EJB-200N1-10-L3-01	POWER CABLE	P4	4G4_E

B103 (L-600-101-LVT-016)

01

POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83022-CEL-01	Welding Sockets (Lower Deck)	SG-200N1	JB-200E4	POWER CABLE	P4	5G50
2	83017-CEL-1	Instrument Air Package	SG-200N1	K-63001A	POWER CABLE	P4	5G70

KEY PLAN



REFERENCE DOCUMENTS

123A90-DDL-EL-DD-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE
123A90-DDL-EL-DL-20105	ELECTRICAL EQUIPMENT LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DL-20123	LIGHTING & SOCKET LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DD-20095	MCT COMPOSITION
1724000049-EL-LIS-00044	B-200 ELECTRICAL COMPONENTS LIST AND DS - E&I SHELTERS
123A90-DDL-EL-DL-20115	ELECTRICAL MCT LAYOUT - LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	SAM	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	18/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

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

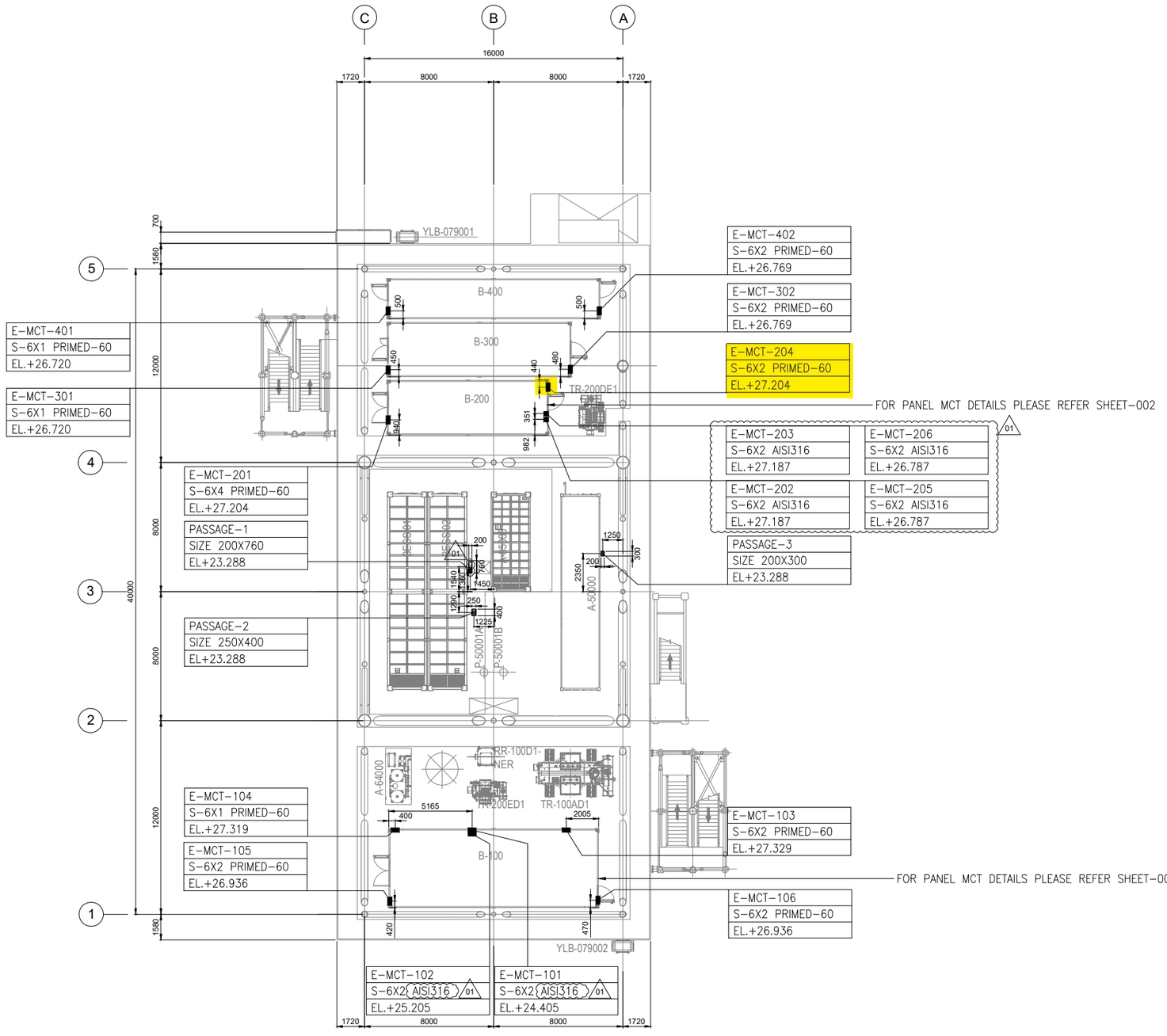
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:50
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 02/08/24

A1	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DL-20112	9of11	01

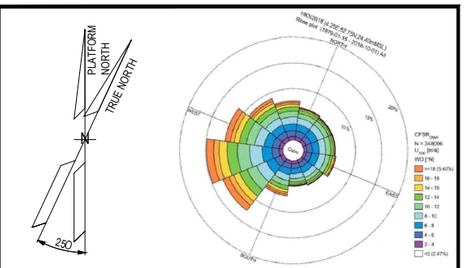
File Name : 123A90-DDL-EL-DL-20112

DRAWING NO. 123A90-DDL-EL-DL-20115

REV. 01



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



NOTES

GENERAL NOTES:

1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. ALL ELEVATIONS RELATE TO LOWEST ASTRONOMICAL TIDE (LAT) = 0.000.

NOTES:

1. THIS DOCUMENT IS VALID FOR TAGGING, SIZE AND LOCATION OF THE MCT.

LEGEND

LEGEND MCT FRAME

S 6X1 (FOR E-MCT-104) 160.6 208 ELEVATION

S 6X1 (FOR E-MCT-301, E-MCT-401) 01 01 238 ELEVATION

S 6X2 271 208 ELEVATION

LEGEND PASSAGE FRAME W H ELEVATION

S 6X3 401.5 208 ELEVATION

S 6X4 532 208 ELEVATION

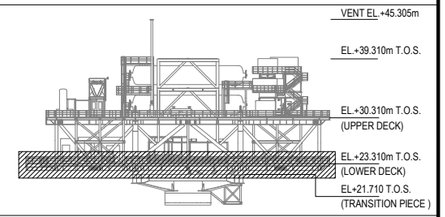
	HEIGHT in mm	WIDTH in mm
PASSAGE-1	100	300
PASSAGE-2	150	200
PASSAGE-3	100	200

MULTI CABLE TRANSIT

PASSAGE

TAG — TAGGING
SIZE-MATERIAL-DEPTH — TYPICAL
EL. — ELEVATION

KEY PLAN



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-20095	MCT COMPOSITION
123A90-DDL-EL-DL-20114	ELECTRICAL MCT LAYOUT-TOP DECK
123A90-DDL-EL-DL-20116	ELECTRICAL MCT LAYOUT- BELOW LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	23/07/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	12/04/24	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

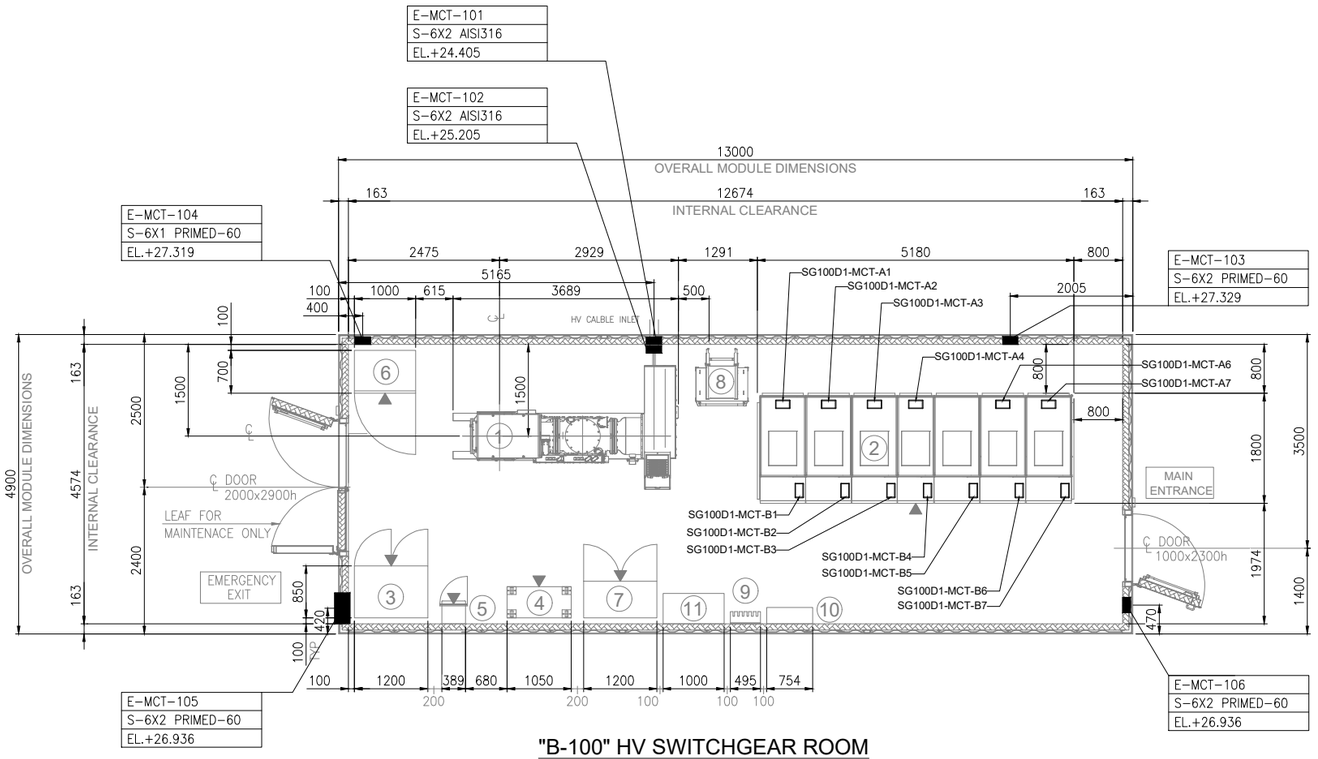
CROSSWIND | ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
ELECTRICAL MCT LAYOUT
LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN SPS	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 18/07/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20115	SHEET 001	REV. 01

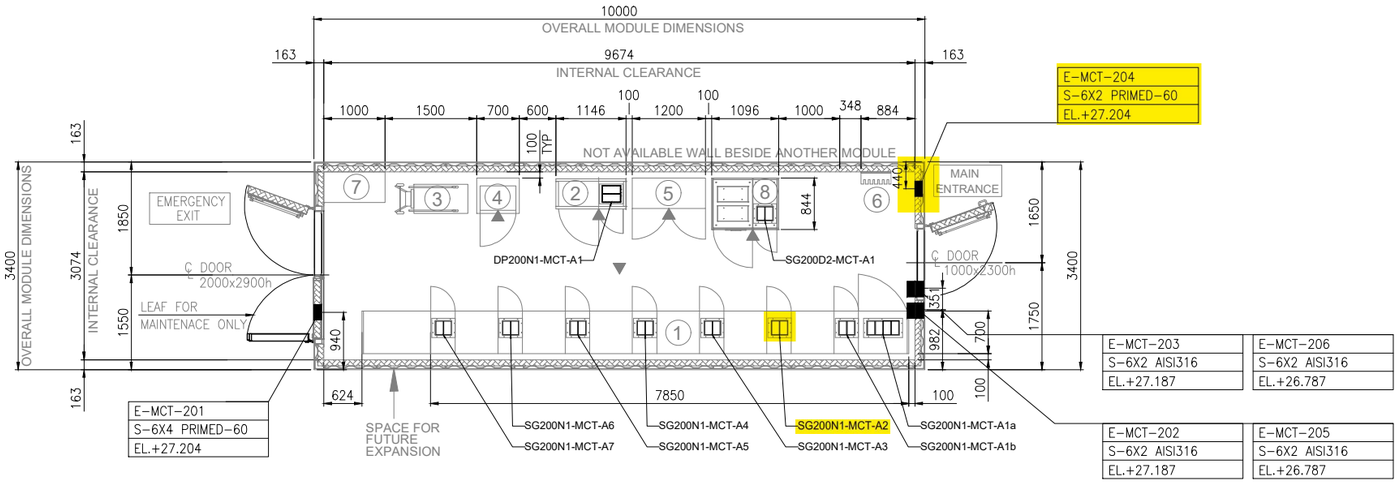
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DRAWING NO. 123A90-DDL-EL-DL-20115 | REV. 01



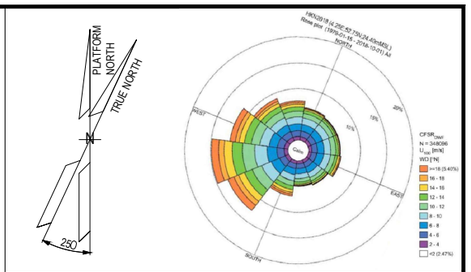
"B-100" HV SWITCHGEAR ROOM

SG-100D1 – 6.6KV SWITCHGEAR MCT (NOTE-2)	
SG100D1-MCT-A1	S 6X1 PRIMED
SG100D1-MCT-A2	S 6X1 PRIMED
SG100D1-MCT-A3	S 6X1 PRIMED
SG100D1-MCT-A4	S 6X1 PRIMED
SG100D1-MCT-A6	S 6X1 PRIMED
SG100D1-MCT-A7	S 6X1 PRIMED
SG100D1-MCT-B1	S 6X1 PRIMED
SG100D1-MCT-B2	S 6X1 PRIMED
SG100D1-MCT-B3	S 6X1 PRIMED
SG100D1-MCT-B4	S 6X1 PRIMED
SG100D1-MCT-B5	S 6X1 PRIMED
SG100D1-MCT-B6	S 6X1 PRIMED
SG100D1-MCT-B7	S 6X1 PRIMED



"B-200" LV SWITCHGEAR ROOM

SG-200N1 – LV SWITCHGEAR MCT (NOTE-2)	
SG200N1-MCT-A1a	S 6X4 PRIMED
SG200N1-MCT-A1b	S 6X2 PRIMED
SG200N1-MCT-A2	S 6X2 PRIMED
SG200N1-MCT-A3	S 6X2 PRIMED
SG200N1-MCT-A4	S 6X2 PRIMED
SG200N1-MCT-A5	S 6X2 PRIMED
SG200N1-MCT-A6	S 6X2 PRIMED
SG200N1-MCT-A7	S 6X2 PRIMED
DP-200N1 – DB BOP MCT (NOTE-2)	
DP200N1-MCT-A1	S 8X2 PRIMED
SG-200D2 – SOLAR ACB MCT (NOTE-2)	
SG200D2-MCT-A1	S 6X2 PRIMED



NOTES

GENERAL NOTES:

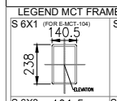
1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. ALL ELEVATIONS RELATE TO LOWEST ASTRONOMICAL TIDE (LAT) = 0.000.

NOTES:

1. THIS DOCUMENT IS VALID FOR TAGGING, SIZE AND LOCATION OF THE MCT.
2. THE MCT FRAMES ARE IN VENDOR SCOPE AND FIXED ON THE VENDOR EQUIPMENT ITEM SG-100D1,SG-200N1, DP-200N1, SG-200D2

LEGEND

LEGEND MCT FRAME



LEGEND PASSAGE FRAME

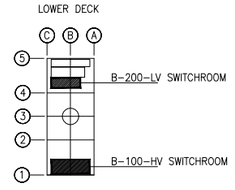


	HEIGHT in mm	WIDTH in mm
PASSAGE-1	100	300
PASSAGE-2	150	200
PASSAGE-3	100	200

MULTI CABLE TRANSIT

TAG	TAGGING
SIZE-MATERIAL-DEPTH	TYPICAL
EL.	ELEVATION

KEY PLAN



REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20104	ELECTRICAL EQUIPMENT LAYOUT - HV SWITCHROOM
123A90-DDL-EL-DL-20105	ELECTRICAL EQUIPMENT LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DD-20095	MCT COMPOSITION

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	23/07/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	12/04/24	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
ELECTRICAL MCT LAYOUT
LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:50
DRAWN SPS	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 18/07/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20115	SHEET 002	REV. 01

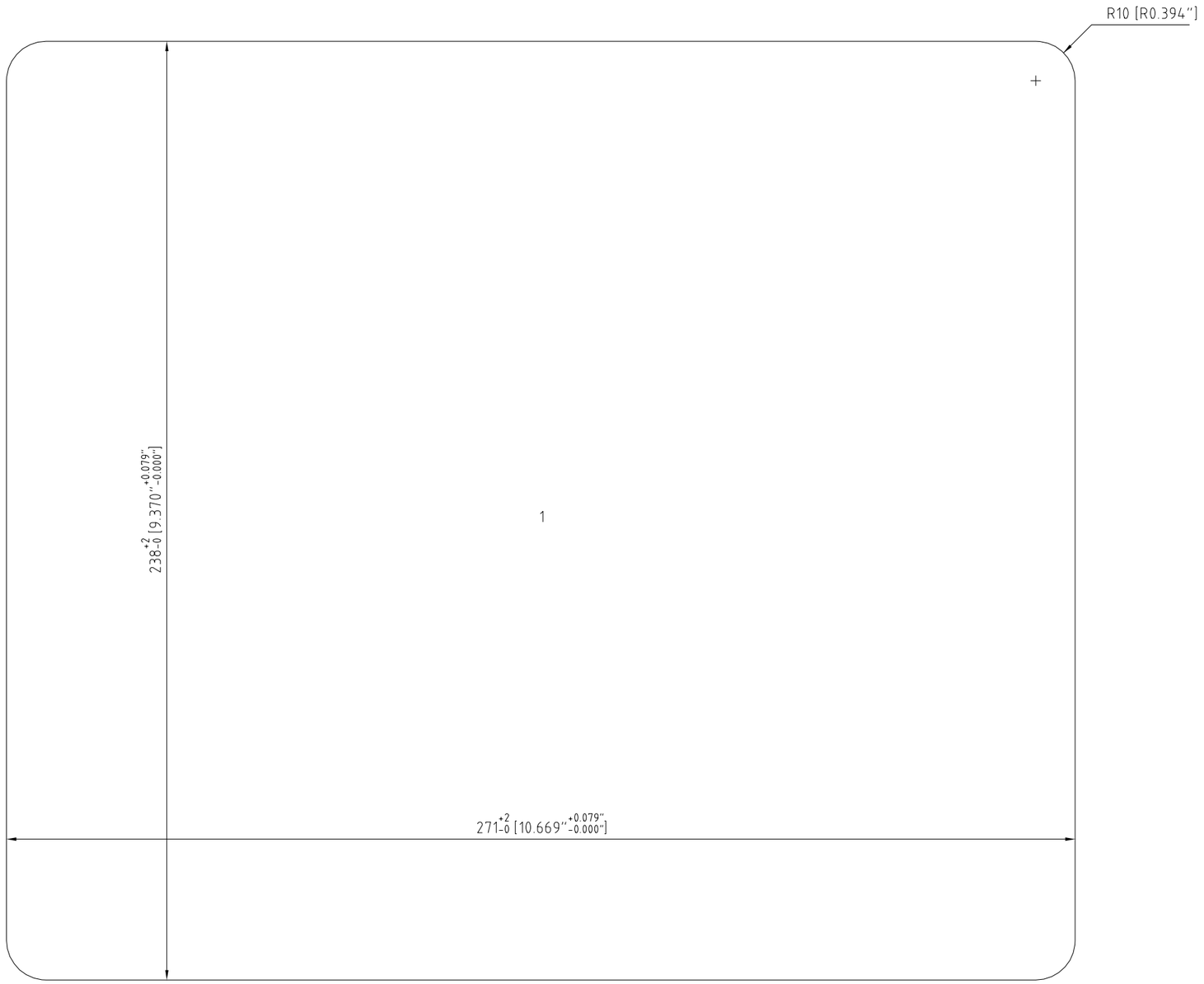
File Name : 123A90-DDL-EL-DL-20115

RTD Version No: 4.37.4.0

Drawing shows component layout according to design. Verification is needed to check if the configuration is valid for the application/certification intended.

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Cutout Detail

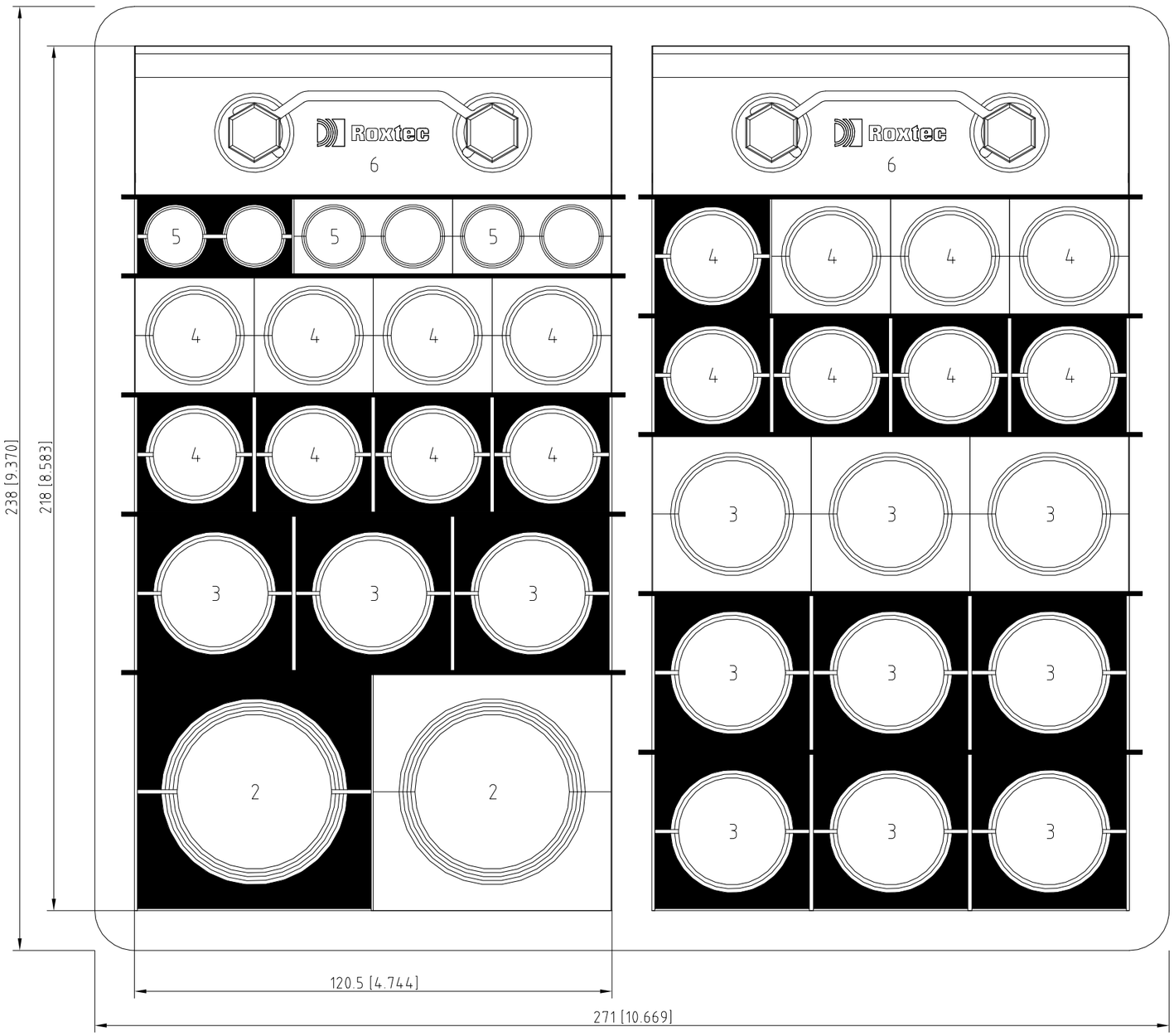
Frame: S 6x2 PRIMED Solution: 1

Item	Qty	Roxtec Packing Material mm ["]	Roxtec Art No	Weight Kg [lb]

Responsible: ARNESH	Created Date: 2024-07-10	Modify Date: 2024-07-17	Project: BLPH - ROS Location/ Sublocation	TotWeight: 12.1 [26.74]
Roxtec	Format: NTS		Transit name: E-MCT-204	Sheet No: 1/3
Client		Drawing number		Rev

RTD Version No: 4.37.4.0

CUTOUT TO FIT SOLUTION WELDING, 271x238 [10.669"x9.370"]



MODULE WITH PIPE | MODULE WITH CABLE | SPARE MODULE | SOLID MODULE

Detail Drawing

Solution: 1

Item	Qty	Roxtec Packing Material mm ["]	Roxtec Art No	Weight Kg [lb]
7	10	Stayplate 120 galv	ASP0001200018	0.1 [0.24]
6	2	Wedge 120 galv	ARW0001201018	0.8 [1.76]
5	3	RM 20W40 3.5-16.5 [0.138"-0.650"]	RM00120401000	0.1 [0.15]
4	16	RM 30 10-25 [0.394"-0.984"]	RM00100301000	0.1 [0.18]
3	12	RM 40 21.5-34.5 [0.846"-1.358"]	RM00100401000	0.1 [0.31]
2	2	RM 60 28-54 [1.102"-2.126"]	RM00100601000	0.3 [0.73]
1	1	S 6x2 PRIMED	S006000000212	5.6 [12.35]

Responsible	Created Date	Modify Date	Project	TotWeight
ARNESH	2024-07-10	2024-07-17	BLPH - ROS Location/ Sublocation	12.1 [26.74]
Roxtec	Format NTS		Transit name E-MCT-204	Sheet No 2/3
	Client	Drawing number		Rev

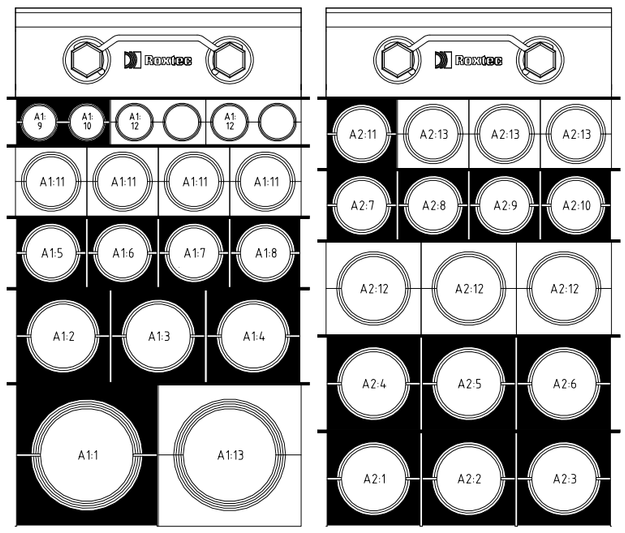
Drawing shows component layout according to design. Verification is needed to check if the configuration is valid for the application/certification intended.

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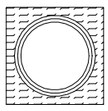
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A1 A2

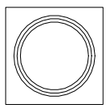
A1 A2

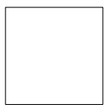


Pos	Cable ID	Name	Cable Type	Cable Category	OD (mm/ ["])	Module Type
A2:13						RM 30 10-25 [0.394"-0.984"]
A2:12						RM 40 21.5-34.5 [0.846"-1.358"]
A2:11	P-EJB-200N1-03-L2-01	Normal Lighting Lower Deck - Circuit No. 1	3G4	Power	14.3 [0.563"]	RM 30 10-25 [0.394"-0.984"]
A2:10	83010-CEL-N	Temporary Generator / Mobile Battery Pack	1C X 95	Power	17.3 [0.681"]	RM 30 10-25 [0.394"-0.984"]
A2:9	83010-CEL-L3	Temporary Generator / Mobile Battery Pack	1C X 95	Power	17.3 [0.681"]	RM 30 10-25 [0.394"-0.984"]
A2:8	83010-CEL-L2	Temporary Generator / Mobile Battery Pack	1C X 95	Power	17.3 [0.681"]	RM 30 10-25 [0.394"-0.984"]
A2:7	83010-CEL-L1	Temporary Generator / Mobile Battery Pack	1C X 95	Power	17.3 [0.681"]	RM 30 10-25 [0.394"-0.984"]
A2:6	83030-CEL	AC UPS PAS - 30min - Bypass	4G35	Power	27.4 [1.079"]	RM 40 21.5-34.5 [0.846"-1.358"]
A2:5	83029-CEL	AC UPS PAS - 30min - Line B	4G35	Power	27.4 [1.079"]	RM 40 21.5-34.5 [0.846"-1.358"]
A2:4	83028-CEL	AC UPS PAS - 30min - Line A	4G35	Power	27.4 [1.079"]	RM 40 21.5-34.5 [0.846"-1.358"]
A2:3	83026-CEL	HVAC panels - ITER	5G16	Power	24 [0.945"]	RM 40 21.5-34.5 [0.846"-1.358"]
A2:2	83025-CEL	HVAC panels - UPS Room	5G16	Power	24 [0.945"]	RM 40 21.5-34.5 [0.846"-1.358"]
A2:1	83020-CEL	Crane	5G16	Power	24 [0.945"]	RM 40 21.5-34.5 [0.846"-1.358"]
A1:13						RM 60 28-54 [1.102"-2.126"]
A1:12						RM 20W40 3.5-16.5 [0.138"-0.650"]
A1:11						RM 30 10-25 [0.394"-0.984"]
A1:10	83123-CEL	AC UPS F&G AUXILIARY	3G2.5	Power	13 [0.512"]	RM 20W40 3.5-16.5 [0.138"-0.650"]
A1:9	83122-CEL	AC UPS PAS AUXILIARY	3G2.5	Power	13 [0.512"]	RM 20W40 3.5-16.5 [0.138"-0.650"]
A1:8	84319-CEL	LV SWBD 800/460V Auxiliary	3G2.5	Power	15.5 [0.610"]	RM 30 10-25 [0.394"-0.984"]
A1:7	84318-CEL	LV Switchboard Auxiliary	3G2.5	Power	15.5 [0.610"]	RM 30 10-25 [0.394"-0.984"]
A1:6	84315-CEL	UCP - HVAC LV Room	3G2.5	Power	15.5 [0.610"]	RM 30 10-25 [0.394"-0.984"]
A1:5	83010-CEL-PE	Temporary Generator / Mobile Battery Pack	1C X 95	Power	14.5 [0.571"]	RM 30 10-25 [0.394"-0.984"]
A1:4	83033-CEL	AC UPS F&G - 8h - Bypass	4G35	Power	27.4 [1.079"]	RM 40 21.5-34.5 [0.846"-1.358"]
A1:3	83032-CEL	AC UPS F&G - 8h - Line B	4G35	Power	24.4 [0.961"]	RM 40 21.5-34.5 [0.846"-1.358"]
A1:2	83031-CEL	AC UPS F&G - 8h - Line A	4G35	Power	27.4 [1.079"]	RM 40 21.5-34.5 [0.846"-1.358"]
A1:1	83021-CEL	Welding Sockets (Top Deck) JB's	5G50	Power	35 [1.378"]	RM 60 28-54 [1.102"-2.126"]


MODULE WITH PIPE


MODULE WITH CABLE


SPARE MODULE

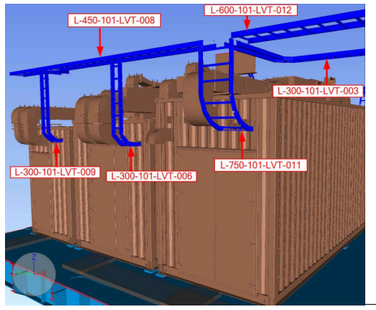

SOLID MODULE

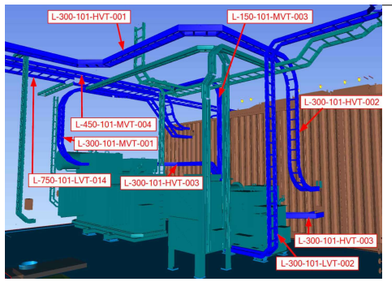
Responsible: ARNESH	Created Date: 2024-07-10	Modify Date: 2024-07-17	Project: BLPH - ROS	Location/ Sublocation	TotWeight: 12.1 [26.74]
Roxtec	Format: NTS		Transit name: E-MCT-204		Sheet No: 3/3
	Client		Drawing number		Rev

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DRAWING NO. 123A90-DDL-EL-DL-20108

REV. 01





L-750-101-LVT-013
W750 X H100mm
+27.078m
+3.768m T.O.S

L-450-101-LVT-005
W450 X H100mm
+26.660m
+3.350m T.O.S

L-300-101-MVT-006
W300 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-MVT-006
W300 X H100mm
+28.810/+30.190m
+5.500/6.880m T.O.S

L-300-101-LVT-007
W300 X H100mm
+28.810/+26.660m
+5.500/3.350m T.O.S

L-750-101-LVT-001
W750 X H100mm
+26.678m
+3.368m T.O.S

L-300-101-LVT-009
W300 X H100mm
+26.660m
+3.350m T.O.S

L-300-101-LVT-009
W300 X H100mm
+28.760/+26.660m
+5.450/3.350m T.O.S

L-300-101-LVT-006
W300 X H100mm
+26.660m
+3.350m T.O.S

L-300-101-LVT-006
W300 X H100mm
+28.760/+26.660m
+5.450/3.350m T.O.S

L-450-101-LVT-008
W450 X H100mm
+28.810m
+5.500m T.O.S

L-450-101-LVT-008
W450 X H100mm
+28.010/+28.810m
+4.700/5.500m T.O.S

L-600-101-LVT-012
W600 X H100mm
+28.010/+28.810m
+4.700/5.500m T.O.S

L-750-101-LVT-011
W750 X H100mm
+27.078m
+3.768m T.O.S

L-750-101-LVT-011
W750 X H100mm
+27.078/+28.010m
+3.768/4.700m T.O.S

L-750-101-LVT-001
W750 X H100mm
+25.335m
+2.025m T.O.S

L-300-101-LVT-003
W300 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-LVT-004
W300 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-LVT-004
W300 X H100mm
+28.810/+23.360m
+5.500/0.050m T.O.S

L-600-101-LVT-012
W600 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-LVT-002
W300 X H100mm
+23.480m
0.170m T.O.S

L-300-101-LVT-002
W300 X H100mm
+28.810/+23.480m
+5.500/0.170m T.O.S

L-300-101-MVT-007
W300 X H100mm
+27.210/+30.190m
+3.900/6.880m T.O.S

L-300-101-MVT-007
W300 X H100mm
+27.210m
+3.900m T.O.S

L-300-101-HVT-002
W300 X H150mm
+25.004/+28.810m
+1.694/5.500m T.O.S

L-300-101-HVT-002
W300 X H150mm
+25.004m
+1.694m T.O.S

L-150-101-MVT-003
W150 X H100mm
+23.510m
+0.200m T.O.S

L-300-101-HVT-003
W300 X H150mm
+24.205m
+0.895m T.O.S

L-300-101-HVT-003
W300 X H150mm
+25.410m
+2.100m T.O.S

L-150-101-MVT-003
W150 X H100mm
+28.810m
+5.500m T.O.S

L-750-101-LVT-015
W750 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-MVT-002
W300 X H100mm
+28.810m
+5.500m T.O.S

L-450-101-LVT-005
W450 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-MVT-002
W300 X H100mm
+23.648m
+0.338m T.O.S

L-600-101-LVT-010
W600 X H100mm
+28.810m
5.500m T.O.S

L-600-101-LVT-010
W600 X H100mm
+27.078m
+3.768m T.O.S

L-750-101-LVT-013
W750 X H100mm
+28.810m
+5.500m T.O.S

L-750-101-LVT-014
W750 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-MVT-005
W300 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-MVT-005
W300 X H100mm
+28.810/+23.600m
+5.500/0.290m T.O.S

L-300-101-HVT-001
W300 X H150mm
+28.810m
+5.50m T.O.S

L-300-101-HVT-001
W300 X H150mm
+23.385/+28.810m
+0.75/5.50m T.O.S

L-450-101-MVT-004
W450 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-HVT-001
W300 X H150mm
+28.810m
+5.500m T.O.S

L-300-101-MVT-001
W300 X H100mm
+25.800/+28.410m
+2.490/5.100m T.O.S

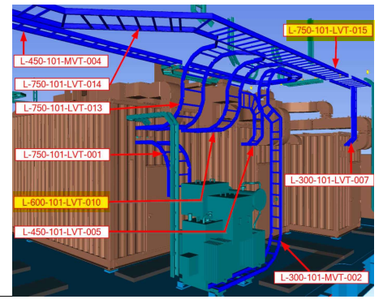
L-300-101-MVT-001
W300 X H100mm
+28.410m
+5.100m T.O.S

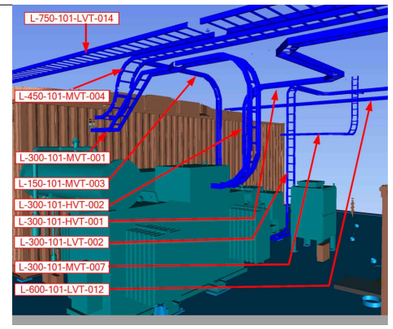
L-450-101-MVT-004
W450 X H100mm
+28.810m
+5.500m T.O.S

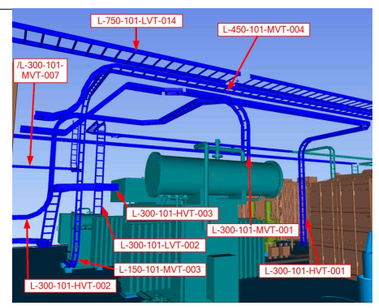
L-450-101-MVT-004
W450 X H100mm
+27.410m
+4.100m T.O.S

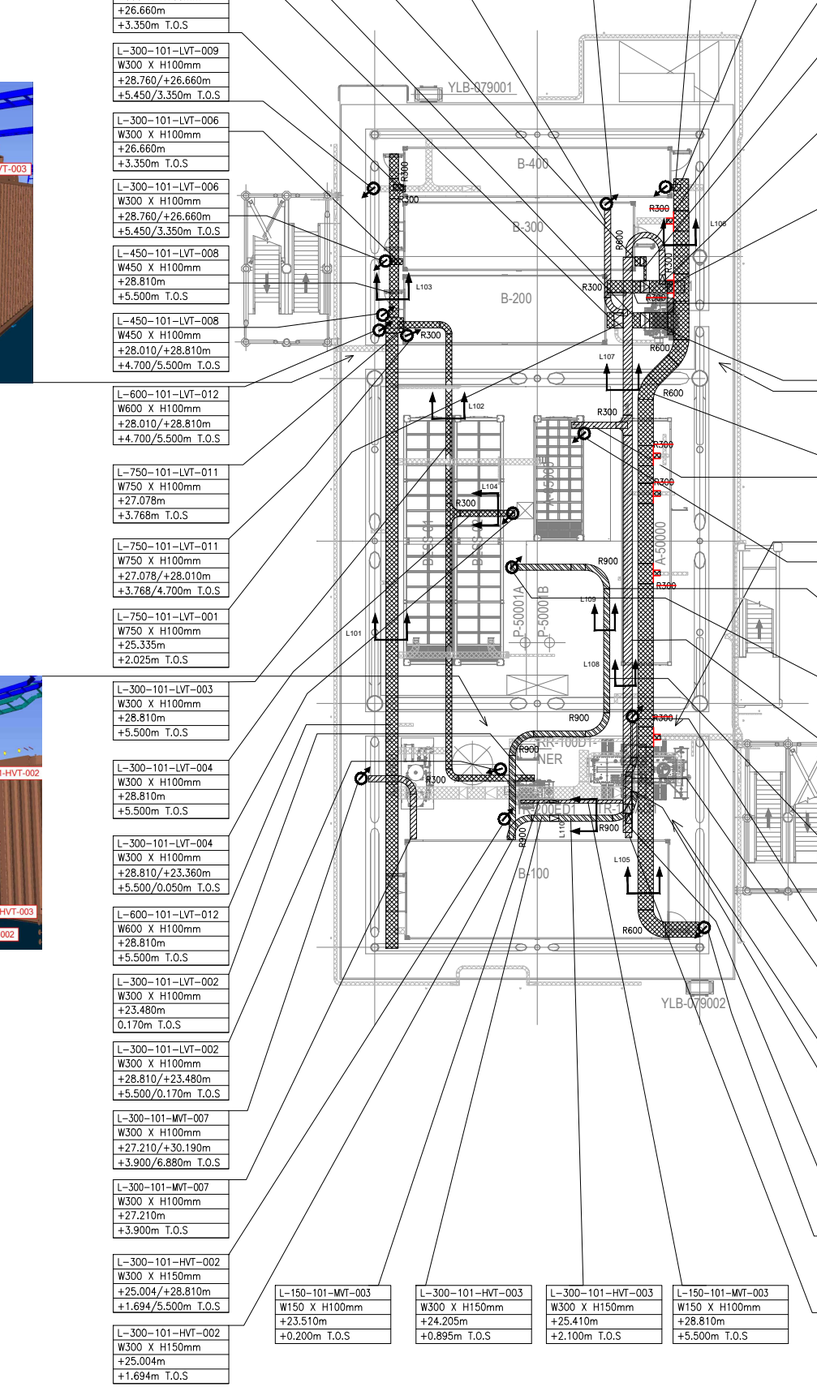
L-750-101-LVT-014
W750 X H100mm
+28.810/27.810m
+5.500/4.500m T.O.S

L-300-101-MVT-001
W300 X H100mm
+27.070m
+3.760m T.O.S

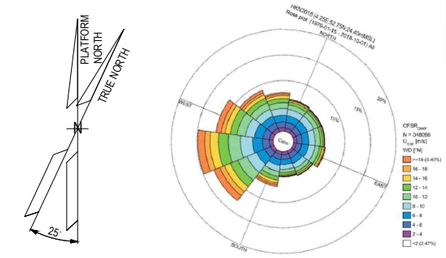








PRIMARY CABLE ROUTING
PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. THIS DRAWING IS VALID ONLY FOR ELECTRICAL CABLE ROUTING LAYOUT.
4. A MINIMUM OF 20% CAPACITY IN EACH CABLE LADDER SHALL BE PROVIDED FOR FUTURE EXTENSION.
5. DRAWING SPLIT INTO MULTIPLY SHEETS FOR CLARITY.
6. FOR INSTALLATION DETAIL OF CABLE LADDER REFER TO DOC. 123A90-DDL-EL-DD-20093.
7. UNARMOURED CABLES PASSING OR ARRIVING IN A CLASSIFIED AREA WILL BE MECHANICALLY PROTECTED IN COMPLIANCE WITH THE REQUIREMENTS OF THE IEC 60079-14.
8. 50MM CABLE TRAYS ROUTES MAY BE MODIFIED DURING CONSTRUCTION WITHOUT OFFICIAL APPROVAL.

LEGEND

- ELECTRICAL 66 KV CABLE TRAY
- ELECTRICAL 6.6 KV CABLE TRAY
- ELECTRICAL LV CABLE TRAY
- CABLE TRAY ELEVATION CHANGE
- ELECTRICAL CABLE TRAY VERTICAL RAISE
- ELECTRICAL CABLE TRAY VERTICAL DROP
- L101 — CABLE TRAY SECTION
- TAG
- SIZE
- ELEVATION
- ELEVATION(T.O.S)

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20108**

REV.:	DATE:	SIGNATURE:
1_B	22/08/24	G.Randi

ROSETTI MARINO SpA

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-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-DL-20107	ELECTRICAL CABLES ROUTING LAYOUT - TOP DECK
123A90-DDL-EL-DL-20109	ELECTRICAL CABLES ROUTING LAYOUT - BELOW LOWER DECK
123A90-DDL-EL-DG-20125	LIGHTING & SOCKET CIRCUIT DIAGRAM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	30/07/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	27/06/24	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

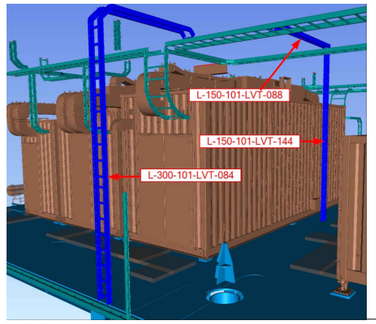
TITLE :
BASE LOAD POWER HUB (BLPH)
ELECTRICAL CABLES ROUTING LAYOUT
LOWER DECK

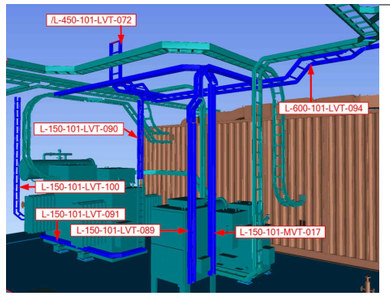
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN SPS	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 30/07/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20108	SHEET 01of18	REV. 01

File Name : 123A90-DDL-EL-DL-20108

DRAWING NO. 123A90-DDL-EL-DL-20108

REV. 01





L-300-101-LVT-112 | W300 X H100mm | +28.810/30.170m | +5.500/6.860m T.O.S

L-300-101-LVT-077 | W300 X H100mm | +28.810m | +5.500m T.O.S

L-300-101-LVT-078 | W300 X H100mm | +28.810m | +5.500m T.O.S

L-300-101-LVT-078 | W300 X H100mm | +29.060/30.170m | +5.750/6.860m T.O.S

L-150-101-LVT-086 | W150 X H100mm | +23.300m | −0.010m T.O.S

L-150-101-LVT-086 | W150 X H100mm | +22.700m | −0.610m T.O.S

L-300-101-LVT-077 | W300 X H100mm | +28.810/30.170m | +5.500/6.860m T.O.S

L-300-101-LVT-078 | W300 X H100mm | +29.060m | +5.750m T.O.S

L-300-101-LVT-073 | W300 X H100mm | +28.810m | +5.500m T.O.S

L-300-101-LVT-073 | W300 X H100mm | +28.810/+30.210m | +5.500/6.900m T.O.S

L-150-101-LVT-086 | W150 X H100mm | +23.300m | −0.010m T.O.S

L-150-101-LVT-106 | W150 X H100mm | +28.988/30.188m | +5.678/6.878m T.O.S

L-150-101-LVT-083 | W150 X H100mm | +23.300m | −0.010m T.O.S

L-300-101-LVT-084 | W300 X H100mm | +29.010m | +5.700m T.O.S

L-300-101-LVT-096 | W300 X H100mm | +28.960/24.400m | +5.650/1.090m T.O.S

L-300-101-LVT-084 | W300 X H100mm | +28.810m | +5.500m T.O.S

L-150-101-LVT-102 | W150 X H100mm | +28.938/30.188m | +5.628/6.878m T.O.S

L-300-101-LVT-084 | W300 X H100mm | +29.010/+23.298m | +5.700/0.012m T.O.S

L-150-101-LVT-103 | W150 X H100mm | +28.908/30.208m | +5.598/6.898m T.O.S

L-150-101-LVT-092 | W150 X H100mm | +27.178m | +3.868m T.O.S

L-150-101-LVT-088 | W150 X H100mm | +29.010m | +5.700m T.O.S

L-150-101-LVT-088 | W150 X H100mm | +28.810m | +5.500m T.O.S

L-150-101-LVT-092 | W150 X H100mm | +27.278m | +3.968m T.O.S

L-150-101-LVT-144 | W150 X H100mm | +28.930/24.180m | +5.620/0.870m T.O.S

L-150-101-LVT-092 | W150 X H100mm | +27.278/23.728m | +3.968/0.418m T.O.S

L-300-101-LVT-095 | W300 X H100mm | +28.888/30.188m | +5.578/6.878m T.O.S

L-300-101-LVT-068 | W300 X H100mm | +28.810m | +5.500m T.O.S

L-300-101-LVT-068 | W300 X H100mm | +29.060m | +5.750m T.O.S

L-150-101-LVT-093 | W150 X H100mm | +28.810/26.400m | +5.500/3.090m T.O.S

L-150-101-LVT-099 | W150 X H100mm | +28.810/24.000m | +5.500/0.690m T.O.S

L-150-101-LVT-139 | W150 X H100mm | +26.280 | +2.970m T.O.S

L-300-101-LVT-068 | W300 X H100mm | +29.060m/+23.500 | +5.750/0.190m T.O.S

L-150-101-LVT-087 | W150 X H100mm | +28.810/23.390m | +5.500/0.080m T.O.S

L-150-101-LVT-138 | W150 X H100mm | +26.280 | +2.970m T.O.S

L-150-101-LVT-105 | W150 X H100mm | +28.810/30.188m | +5.500/6.878m T.O.S

L-300-101-LVT-070 | W300 X H100mm | +23.410m | +0.100m T.O.S

L-150-101-LVT-146 | W150 X H100mm | +26.280/24.520m | +2.970/1.210m T.O.S

L-150-101-LVT-083 | W150 X H100mm | +23.300/22.860m | −0.010/0.450m T.O.S

L-150-101-LVT-081 | W150 X H100mm | +22.680m | −0.630m T.O.S

L-300-101-LVT-069 | 300X100mm | +29.060m | +5.750m T.O.S

L-300-101-LVT-071 | W300 X H100mm | +23.410m | +0.100m T.O.S

L-150-101-LVT-101 | W150 X H100mm | +28.810/30.188m | +5.500/6.878m T.O.S

L-300-101-LVT-069 | 300X100mm | +29.060/23.610m | +5.750/0.300m T.O.S

L-150-101-LVT-101 | W150 X H100mm | +28.810m | +5.500m T.O.S

L-300-101-LVT-080 | W300 X H100mm | +22.680m | −0.630m T.O.S

L-300-101-LVT-109 | W300 X H100mm | +23.410m | +0.100m T.O.S

L-300-101-LVT-079 | W300 X H100mm | +28.810/22.940m | +5.500/−0.370m T.O.S

L-150-101-LVT-097 | W150 X H100mm | +29.080m | +5.770m T.O.S

L-150-101-LVT-143 | W150 X H100mm | +29.080/24.185m | +5.770/0.875m T.O.S

L-150-101-LVT-082 | W150 X H100mm | +22.680m | −0.630m T.O.S

L-150-101-LVT-089 | W150 X H100mm | +28.410/23.860m | +5.100/0.550m T.O.S

L-150-101-LVT-089 | W150 X H100mm | +28.410m | +5.100m T.O.S

L-150-101-LVT-082 | W150 X H100mm | +23.300m | −0.010m T.O.S

L-300-101-LVT-098 | W300 X H100mm | +28.660/24.000m | +5.350/0.690m T.O.S

L-150-101-LVT-104 | W150 X H100mm | +28.938/30.188m | +5.628/6.878m T.O.S

L-300-101-LVT-076 | W300 X H100mm | +28.810m | +5.500m T.O.S

L-150-101-LVT-100 | W150 X H100mm | +28.710/24.260m | +5.400/0.950m T.O.S

L-600-101-LVT-094 | W600 X H100mm | +28.970m | +5.660m T.O.S

L-600-101-LVT-094 | W600 X H100mm | +28.810m | +5.500m T.O.S

L-150-101-LVT-091 | W150 X H100mm | +23.600m | +0.290m T.O.S

L-600-101-LVT-094 | W600 X H100mm | +28.810m | +5.500m T.O.S

L-600-101-LVT-094 | W600 X H100mm | +28.410m | +5.100m T.O.S

L-300-101-LVT-074 | W300 X H100mm | +28.810/26.810m | +5.500/3.500m T.O.S

L-150-101-LVT-085 | W150 X H100mm | +22.598m | −0.712m T.O.S

L-450-101-LVT-072 | W450 X H100mm | +28.410/30.219m | +5.100/6.909m T.O.S

L-450-101-LVT-075 | W300 X H100mm | +27.810/26.810m | +4.500/3.500m T.O.S

L-150-101-MVT-017 | W150 X H100mm | +28.410/23.860m | +5.100/0.550m T.O.S

L-150-101-LVT-108 | W150 X H100mm | +23.300m | −0.010m T.O.S

L-150-101-LVT-108 | W150 X H100mm | +22.598m | −0.712m T.O.S

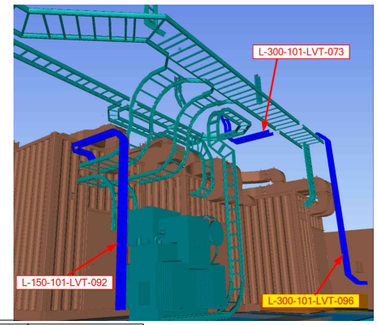
L-150-101-LVT-107 | W150 X H100mm | +22.598m | −0.712m T.O.S

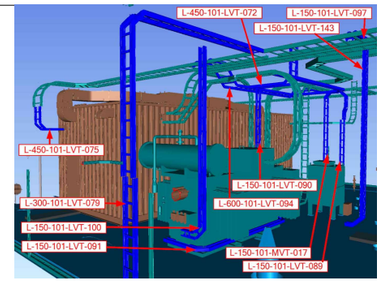
L-150-101-MVT-017 | W150 X H100mm | +28.410m | +5.100m T.O.S

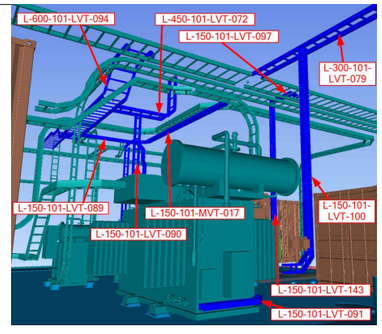
L-150-101-LVT-085 | W150 X H100mm | +23.300m | −0.010m T.O.S

L-150-101-LVT-090 | W150 X H100mm | +28.510/23.860m | +5.200/0.550m T.O.S

L-600-101-LVT-094 | W600 X H100mm | +29.110m | +5.100m T.O.S

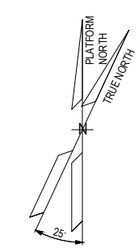


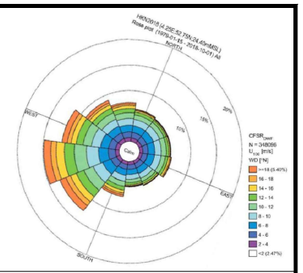




R300 | YLB-079001 | YLB-079002 | B-400 | B-300 | B-200 | B-100 | A-50000 | P-50001A | P-50001B | TR-100A/B | TR-200E/F

SECONDARY CABLE ROUTING
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. THIS DRAWING IS VALID ONLY FOR ELECTRICAL CABLE ROUTING LAYOUT.
4. A MINIMUM OF 20% CAPACITY IN EACH CABLE LADDER SHALL BE PROVIDED FOR FUTURE EXTENSION.
5. DRAWING SPLIT INTO MULTIPLY SHEETS FOR CLARITY.
6. FOR INSTALLATION DETAIL OF CABLE LADDER REFER TO DOC. 123A90-DDL-EL-DD-20093.
7. UNARMOURED CABLES PASSING OR ARRIVING IN A CLASSIFIED AREA WILL BE MECHANICALLY PROTECTED IN COMPLIANCE WITH THE REQUIREMENTS OF THE IEC 60079-14.
8. 50MM CABLE TRAYS ROUTES MAY BE MODIFIED DURING CONSTRUCTION WITHOUT OFFICIAL APPROVAL.

LEGEND

- ELECTRICAL 66 KV CABLE TRAY
- ELECTRICAL 6.6 KV CABLE TRAY
- ELECTRICAL LV CABLE TRAY
- CABLE TRAY ELEVATION CHANGE
- ELECTRICAL CABLE TRAY VERTICAL RAISE
- ELECTRICAL CABLE TRAY VERTICAL DROP
- L101 — CABLE TRAY SECTION
- TAG
- SIZE
- ELEVATION
- ELEVATION(T.O.S)

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20108**

REV.:	DATE:	SIGNATURE:
1_B	22/08/24	G.Randi

ROSETTI MARINO SpA

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-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-DL-20107	ELECTRICAL CABLES ROUTING LAYOUT - TOP DECK
123A90-DDL-EL-DL-20109	ELECTRICAL CABLES ROUTING LAYOUT - BELOW LOWER DECK
123A90-DDL-EL-DG-20125	LIGHTING & SOCKET CIRCUIT DIAGRAM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	30/07/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	27/06/24	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
ELECTRICAL CABLES ROUTING LAYOUT
LOWER DECK

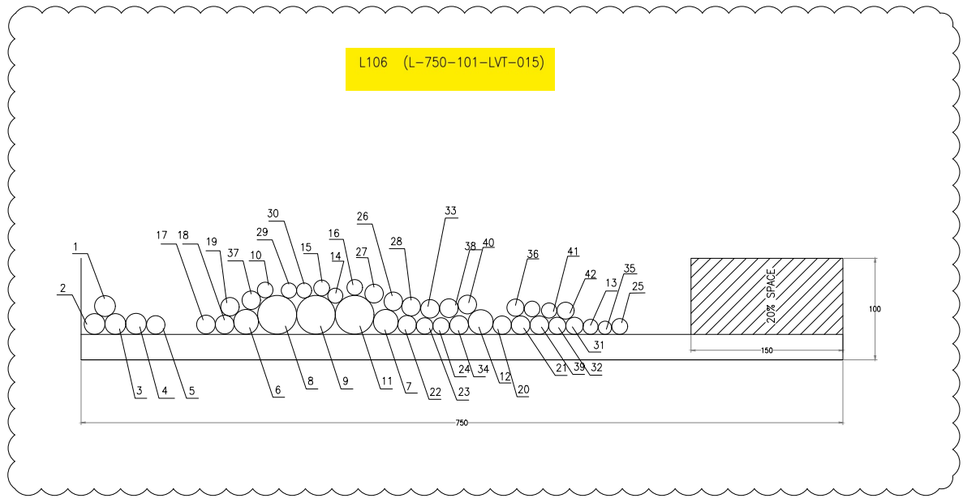
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A1	DRAWING NO. 123A90-DDL-EL-DL-20108	SHEET 02of18	REV. 01

File Name : 123A90-DDL-EL-DL-20108

DRAWING NO. 123A90-DDL-EL-DL-20108

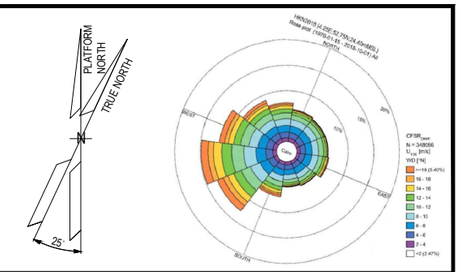
REV. 01

01



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83010-CEL-L1	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
2	83010-CEL-L2	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
3	83010-CEL-L3	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
4	83010-CEL-N	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
5	83010-CEL-PE	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P6	1C x 95
6	83012-CEL	FUEL CELL AUXILIARY LOAD	SG-200N1	A-80000	POWER CABLE	P4	5G16
7	83020-CEL	CRANE	SG-200N1	JB-200E3	POWER CABLE	P4	5G16
01 8	83021-CEL-03	WELDING SOCKETS (TOP DECK) JB'S	JB-200E6	JB-200E7	POWER CABLE	P4	5G50
9	83022-CEL	WELDING SOCKET (LOWER DECK)	SG-200N1	JB-200E4	POWER CABLE	P4	5G50
10	72213-CEL	INTERMEDIATE OBSTRUCTION RED LIGHTS	EJB-200F2-02	EOL-200-04	POWER CABLE	P5	3G2.5
01 11	83022-CEL-03	WELDING SOCKETS (LOWER DECK) JB'S	JB-200E4	JB-200E5	POWER CABLE	P4	5G50
12	83026-CEL	HVAC PANEL – ITER	SG-200N1	B400-HSB-001	POWER CABLE	P4	5G16
13	72210-CEL	WAVE OFF STATUS LIGHT	NC-200F2	ESL-200-01	POWER CABLE	P5	2C X 2.5
14	72202-CEL	NAV AIDS MAIN YELLOW LANTERNS	NC-200F2	EML-200-02	POWER CABLE	P5	2C X 2.5
15	72203-CEL	TOP OBSTRUCTION LIGHTS JUNCTION BOX	NC-200F2	EJB-200F2-01	POWER CABLE	P5	3G2.5
16	72211-CEL	INTERMEDIATE OBSTRUCTION LIGHTS JUNCTION BOX	NC-200F2	EJB-200F2-02	POWER CABLE	P5	3G2.5
17	84301-CEL	SIS – CONTROLLER AND I/O CABINET – LINE A	DP-200F3	B400-SIS-001	POWER CABLE	P5	3G2.5
18	84302-CEL	SIS – CONTROLLER AND I/O CABINET – LINE B	DP-200F3	B400-SIS-001	POWER CABLE	P5	3G2.5
19	84303-CEL	PCS – CONTROLLER AND I/O CABINET – LINE A	DP-200F3	B400-PCS-001	POWER CABLE	P5	3G2.5
20	84304-CEL	PCS – CONTROLLER AND I/O CABINET – LINE B	DP-200F3	B400-PCS-001	POWER CABLE	P5	3G2.5
21	84305-CEL	EMCS – CONTROLLER AND I/O CABINET – LINE A	DP-200F3	B400-EMCS-001	POWER CABLE	P5	3G2.5
22	84306-CEL	EMCS – CONTROLLER AND I/O CABINET – LINE B	DP-200F3	B400-EMCS-001	POWER CABLE	P5	3G2.5
23	84307-CEL	SERVER CABINET ITER – LINE A	DP-200F3	B400-SRV-001	POWER CABLE	P5	3G6
24	84308-CEL	SERVER CABINET ITER – LINE B	DP-200F3	B400-SRV-001	POWER CABLE	P5	3G6
01 25	P-EJB-200N1-08-L1-04	EMERGENCY LIGHTING UPPER DECK	DP-200N1	EJB-200N1-08-L1-04	POWER CABLE	P4	4G4_E

POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
27	84313-CEL	UCP – WATER PACKAGE	DP-200F3	JB-500F8	POWER CABLE	P5	3G2.5
28	84314-CEL	UCP – HVAC HV ROOM	DP-200F3	B100-HSB-001	POWER CABLE	P5	3G2.5
29	P-EJB-200N1-02-L1-01	NORMAL LIGHTING UPPER DECK	DP-200N1	EJB-200N1-02-L1-01	POWER CABLE	P4	3G4
30	P-EJB-200N1-03-L2-01	NORMAL LIGHTING LOWER DECK	DP-200N1	EJB-200N1-03-L2-01	POWER CABLE	P4	3G4
01 31	P-EJB-200N1-02-L1-02	NORMAL LIGHTING JB	EJB-200N1-02-L1-01	EJB-200N1-02-L1-02	POWER CABLE	P5	3G4
32	P-EJB-200N1-02-L1-19	NORMAL LIGHTING JB	EJB-200N1-02-L1-01	EJB-200N1-02-L1-19	POWER CABLE	P5	3G4
33	P-EJB-200N1-08-L1-16	EMERGENCY LIGHTING JB	EJB-200N1-08-L1-04	EJB-200N1-08-L1-16	POWER CABLE	P5	4G4_E
34	P-EJB-200N1-08-L1-01	EMERGENCY LIGHTING JB	EJB-200N1-08-L1-04	EJB-200N1-08-L1-01	POWER CABLE	P5	4G4_E
35	P-ELF-200N1-03-L2-01	NORMAL LIGHTING FIXTURE	EJB-200N1-03-L2-01	ELF-200N1-03-L2-01	POWER CABLE	P4	3G2.5
36	P-EPH-200N1-01	TWILIGHT RELAY SENSOR	DP-200N1	EPH-200N1-01	POWER CABLE	P5	3G4
37	84401-CEL	FGS FIRE & GAS PANEL – LINE A	DP-200F4	B400-FGS-001	POWER CABLE	P5	3G2.5
38	84402-CEL	FGS FIRE & GAS PANEL – LINE B	DP-200F4	B400-FGS-001	POWER CABLE	P5	3G2.5
39	84403-CEL	SYSTEM SERVER / NETWORK CABINET – LINE A	DP-200F4	B400-NET-001	POWER CABLE	P5	3G2.5
40	84404-CEL	SYSTEM SERVER / NETWORK CABINET – LINE B	DP-200F4	B400-NET-001	POWER CABLE	P5	3G2.5
01 41	P-EJB-200N1-03-L2-02	NORMAL LIGHTING JB	EJB-200N1-03-L2-01	EJB-200N1-03-L2-02	POWER CABLE	P4	3G4
42	P-ELF-200N1-09-L2-11	EMERGENCY LIGHTING FIXTURE	ELF-200N1-09-L2-02	ELF-200N1-09-L2-11	POWER CABLE	P4	4G2.5_E
43							
44							



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.

CABLE TYPE DETAILS

P2 – SINGLE CORE, 3.6/6 (7.2) KV, CU/EPR/CU/LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.
P3 – SINGLE CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH, PVC, UNARMOURED CABLE, FLAME RETARDANT
P4 – MULTI CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.
P5 – MULTI CORE, 0.6/1 KV, FIRE RESISTANT, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, GALVANIZED STEEL WIRE ARMOURED CABLE, FLAME RETARDANT.
P7 – MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.
P8 – MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, CU SCREEN, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.

LEGEND

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20108**

REV.:	DATE:	SIGNATURE:
1_B	22/08/24	G.Randi

ROSETTI MARINO SpA

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-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-DL-20107	ELECTRICAL CABLES ROUTING LAYOUT - TOP DECK
123A90-DDL-EL-DL-20109	ELECTRICAL CABLES ROUTING LAYOUT - BELOW LOWER DECK
123A90-DDL-EL-DG-20125	LIGHTING & SOCKET CIRCUIT DIAGRAM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	30/07/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	27/06/24	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
ELECTRICAL CABLES ROUTING LAYOUT
LOWER DECK

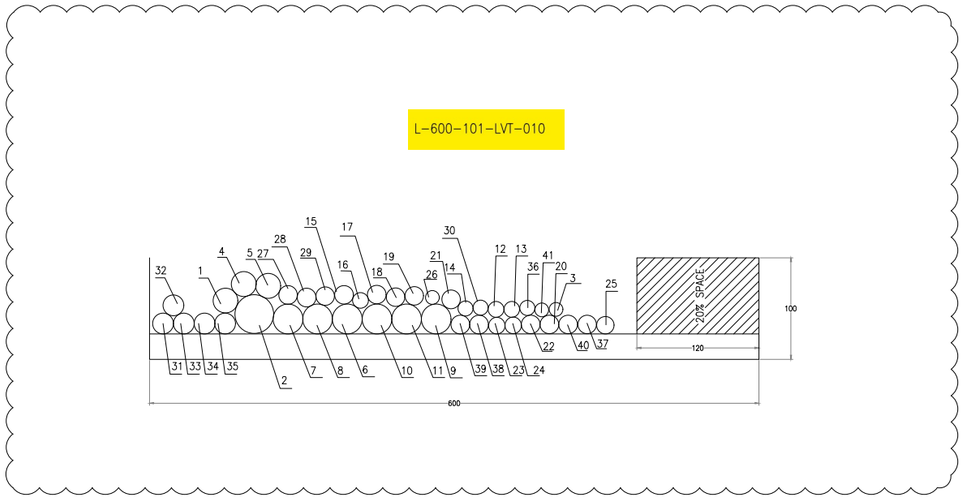
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:50
DRAWN SPS	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 30/07/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20108	SHEET 05of18	REV. 01

File Name : 123A90-DDL-EL-DL-20108

DRAWING NO. 123A90-DDL-EL-DL-20108

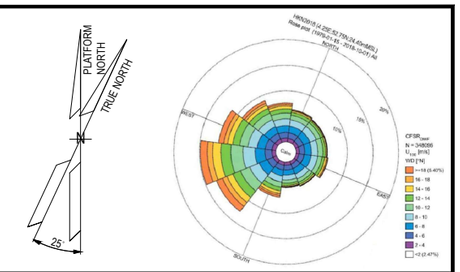
REV. 01

01



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83020-CEL	CRANE	SG-200N1	JB-200E3	POWER CABLE	P4	5G16
2	83021-CEL	WELDING SOCKET (TOP DECK)	SG-200N1	JB-200E6	POWER CABLE	P4	5G50
01 3	83123-CEL	AC UPS F&G AUXILIARY	DP-200N1	UP-200F4	POWER CABLE	P4	3G2.5
4	83025-CEL	HVAC PANEL - UPS ROOM	SG-200N1	B300-HSB-001	POWER CABLE	P4	5G16
5	83026-CEL	HVAC PANEL - ITER	SG-200N1	B400-HSB-001	POWER CABLE	P4	5G16
6	83028-CEL	AC UPS PAS - 30MIN - LINE A	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
7	83029-CEL	AC UPS PAS - 30MIN - LINE B	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
8	83030-CEL	AC UPS PAS - 30MIN - BYPASS	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
9	83031-CEL	AC UPS F&G - 8H - LINE A	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
10	83032-CEL	AC UPS F&G - 8H - LINE B	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
11	83033-CEL	AC UPS F&G - 8H - BYPASS	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
01 12	84318-CEL	LV SWITCHBOARD AUXILIARY	DP-200F3	SG-200N1	POWER CABLE	P5	3G2.5
13	84319-CEL	LV SWBD 800/460V AUXILIARY	DP-200F3	SG-200D2	POWER CABLE	P5	3G2.5
14	72202-CEL	NAV AIDS MAIN YELLOW LANTERNS	NC-200F2	EML-200-02	POWER CABLE	P5	2C X 2.5
15	72203-CEL	TOP OBSTRUCTION LIGHTS JUNCTION BOX	NC-200F2	EJB-200F2-01	POWER CABLE	P5	3G2.5
16	72211-CEL	INTERMEDIATE OBSTRUCTION LIGHTS JUNCTION BOX	NC-200F2	EJB-200F2-02	POWER CABLE	P5	3G2.5
17	84301-CEL	SIS - CONTROLLER AND I/O CABINET - LINE A	DP-200F3	B400-SIS-001	POWER CABLE	P5	3G2.5
18	84302-CEL	SIS - CONTROLLER AND I/O CABINET - LINE B	DP-200F3	B400-SIS-001	POWER CABLE	P5	3G2.5
19	84303-CEL	PCS - CONTROLLER AND I/O CABINET - LINE A	DP-200F3	B400-PCS-001	POWER CABLE	P5	3G2.5
20	84304-CEL	PCS - CONTROLLER AND I/O CABINET - LINE B	DP-200F3	B400-PCS-001	POWER CABLE	P5	3G2.5
21	84305-CEL	EMCS - CONTROLLER AND I/O CABINET - LINE A	DP-200F3	B400-EMCS-001	POWER CABLE	P5	3G2.5
22	84306-CEL	EMCS - CONTROLLER AND I/O CABINET - LINE B	DP-200F3	B400-EMCS-001	POWER CABLE	P5	3G2.5
23	84307-CEL	SERVER CABINET ITER - LINE A	DP-200F3	B400-SRV-001	POWER CABLE	P5	3G6
24	84308-CEL	SERVER CABINET ITER - LINE B	DP-200F3	B400-SRV-001	POWER CABLE	P5	3G6
01 25	P-EPH-200N1-01	TWILIGHT RELAY SENSOR	DP-200N1	EPH-200N1-01	POWER CABLE	P5	3G4

POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
01 26	P-ELF-200N1-03-L2-01	NORMAL LIGHTING FIXTURE	EJB-200N1-03-L2-01	ELF-200N1-03-L2-01	POWER CABLE	P4	3G2.5
27	84313-CEL	UCP - WATER PACKAGE	DP-200F3	CP-500F01	POWER CABLE	P5	3G2.5
28	84314-CEL	UCP - HVAC HV ROOM	DP-200F3	B100-HSB-001	POWER CABLE	P5	3G2.5
29	84315-CEL	UCP - HVAC LV ROOM	DP-200F3	B200-HSB-001	POWER CABLE	P5	3G2.5
01 30	P-EJB-200N1-03-L2-01	NORMAL LIGHTING LOWER DECK	DP-200N1	EJB-200N1-03-L2-01	POWER CABLE	P4	3G4
31	83010-CEL-L1	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
32	83010-CEL-L2	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
33	83010-CEL-L3	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
34	83010-CEL-N	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
35	83010-CEL-PE	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P6	1C x 95
36	72210-CEL	WAVE OFF STATUS LIGHT	NC-200F2	ESL-200-01	POWER CABLE	P5	2C X 2.5
37	84401-CEL	FGS FIRE & GAS PANEL - LINE A	DP-200F4	B400-FGS-001	POWER CABLE	P5	3G2.5
38	84402-CEL	FGS FIRE & GAS PANEL - LINE B	DP-200F4	B400-FGS-001	POWER CABLE	P5	3G2.5
39	84403-CEL	SYSTEM SERVER / NETWORK CABINET - LINE A	DP-200F4	B400-NET-001	POWER CABLE	P5	3G2.5
40	84404-CEL	SYSTEM SERVER / NETWORK CABINET - LINE B	DP-200F4	B400-NET-001	POWER CABLE	P5	3G2.5
41	83122-CEL	AC UPS PAS AUXILIARY	DP-200N1	UP-200F3	POWER CABLE	P4	3G2.5



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.

CABLE TYPE DETAILS

P2 – SINGLE CORE, 3.6/6 (7.2) KV, CU/EPR/CU/LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.
P3 – SINGLE CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH, PVC, UNARMOURED CABLE, FLAME RETARDANT
P4 – MULTI CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.
P5 – MULTI CORE, 0.6/1 KV, FIRE RESISTANT, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, GALVANIZED STEEL WIRE ARMOURED CABLE, FLAME RETARDANT.
P7 – MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.
P8 – MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, CU SCREEN, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.

LEGEND

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20108**

REV.:	DATE:	SIGNATURE:
1_B	22/08/24	G.Randi

ROSETTI MARINO SpA

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-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-DL-20107	ELECTRICAL CABLES ROUTING LAYOUT - TOP DECK
123A90-DDL-EL-DL-20109	ELECTRICAL CABLES ROUTING LAYOUT - BELOW LOWER DECK
123A90-DDL-EL-DG-20125	LIGHTING & SOCKET CIRCUIT DIAGRAM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	30/07/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	27/06/24	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
ELECTRICAL CABLES ROUTING LAYOUT
LOWER DECK

CONTRACT NO./TITLE	CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE 1:50
DRAWN SPS	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 30/07/24

A1	DRAWING NO. 123A90-DDL-EL-DL-20108	SHEET 06of18	REV. 01

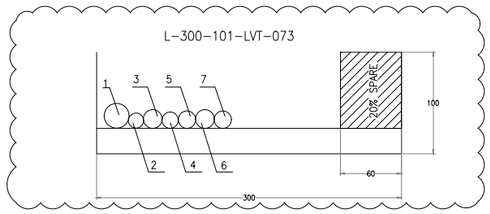
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DRAWING NO. 123A90-DDL-EL-DL-20108

REV. 01

01

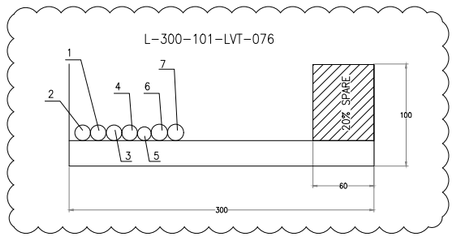
L-300-101-LVT-073



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83012-CEL	FUEL CELL AUXILIARY LOAD	SG-200N1	A-80000	POWER CABLE	P4	5G16
2	P-EJB-200N1-02-L1-01	NORMAL LIGHTING UPPER DECK	DP-200N1	EJB-200N1-02-L1-01	POWER CABLE	P4	3G4
3	P-EJB-200N1-08-L1-01	EMERGENCY LIGHTING JB	EJB-200N1-08-L1-04	EJB-200N1-08-L1-01	POWER CABLE	P5	4G4_E
4	P-EJB-200N1-08-L1-04	EMERGENCY LIGHTING JB	DP-200N1	EJB-200N1-08-L1-04	POWER CABLE	P4	4G4_E
5	P-EJB-200N1-02-L1-02	NORMAL LIGHTING JB	EJB-200N1-02-L1-01	EJB-200N1-02-L1-02	POWER CABLE	P5	3G4
6	P-EJB-200N1-08-L1-16	EMERGENCY LIGHTING JB	EJB-200N1-08-L1-04	EJB-200N1-08-L1-16	POWER CABLE	P5	4G4_E
7	P-EJB-200N1-02-L1-19	NORMAL LIGHTING JB	EJB-200N1-02-L1-01	EJB-200N1-02-L1-19	POWER CABLE	P5	3G4

01

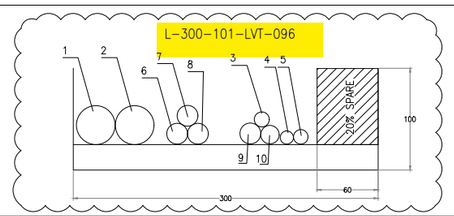
L-300-101-LVT-076



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83011-CEC	6.6KV HV SWITCHGEAR	CP-200ED1A	SG-100D1	CONTROL CABLE	P7	7C X 1.5
2	83012-CEC	6.6KV HV SWITCHGEAR	CP-200ED1A	SG-100D1	CONTROL CABLE	P7	7C X 1.5
3	83013-CEC	6.6KV HV SWITCHGEAR	CP-200ED1A	SG-100D1	CONTROL CABLE	P7	7C X 1.5
4	83014-CEC	6.6KV HV SWITCHGEAR	CP-200ED1A	SG-100D1	CONTROL CABLE	P7	7C X 1.5
5	P-ELF-200N1-03-L2-03	NORMAL LIGHTING FIXTURE	EJB-200N1-03-L2-03	ELF-200N1-03-L2-03	POWER CABLE	P4	3G2.5
6	P-EJB-200N1-09-L2-02	EMERGENCY LIGHTING JB	EJB-200N1-09-L2-04	EJB-200N1-09-L2-02	POWER CABLE	P4	4G4_E
7	P-ELS-200N1-09-L2-01	LOCAL SWITCH	EJB-200N1-09-L2-04	ELS-200N1-09-L2-01	POWER CABLE	P4	4G4_E

01

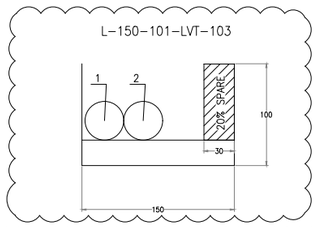
L-300-101-LVT-096



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83022-CEL	WELDING SOCKETS (LOWER DECK) JB'S	SG-200N1	JB-200E4 /JB-200E5	POWER CABLE	P4	5G50
2	83022-CEL-03	WELDING SOCKETS (LOWER DECK) JB'S	JB-200E4	JB-200E5	POWER CABLE	P4	5G50
3	P-EJB-200N1-03-L2-01	NORMAL LIGHTING LOWER DECK	DP-200N1	EJB-200N1-03-L2-01	POWER CABLE	P4	3G4
4	P-ELF-200N1-03-L2-01	NORMAL LIGHTING FIXTURE	EJB-200N1-03-L2-01	ELF-200N1-03-L2-01	POWER CABLE	P4	3G2.5
5	P-EJB-200N1-03-L2-02	NORMAL LIGHTING FIXTURE	EJB-200N1-03-L2-01	EJB-200N1-03-L2-02	POWER CABLE	P4	3G4
6	83010-CEL-L1	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
7	83010-CEL-L2	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
8	83010-CEL-L3	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
9	83010-CEL-N	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
10	83010-CEL-PE	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P6	1C x 95

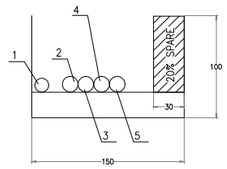
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L-150-101-LVT-103



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83021-CEL	WELDING SOCKET (TOP DECK)	SG-200N1	JB-200E6 /JB-200E7	POWER CABLE	P4	5G50
2	83021-CEL-03	WELDING SOCKET (TOP DECK)	JB-200E6	JB-200E7	POWER CABLE	P4	5G50

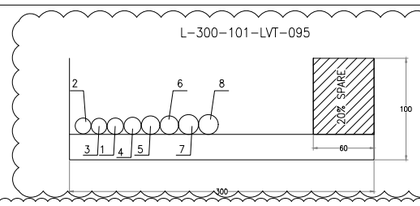
L-150-101-LVT-092



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83116-CEL	AUXILIARY TRAFO 1.6MVA	DP-200N1	CP-200E1	POWER CABLE	P4	3G2.5
2	83001-CEC	6.6KV HV SWITCHGEAR	CP-200DE1A	SG-100D1	CONTROL CABLE	P7	7C X 1.5
3	83002-CEC	6.6KV HV SWITCHGEAR	CP-200DE1A	SG-100D1	CONTROL CABLE	P7	7C X 1.5
4	83003-CEC	6.6KV HV SWITCHGEAR	CP-200DE1A	SG-100D1	CONTROL CABLE	P7	7C X 1.5
5	83004-CEC	6.6KV HV SWITCHGEAR	CP-200DE1A	SG-100D1	CONTROL CABLE	P7	7C X 1.5

01

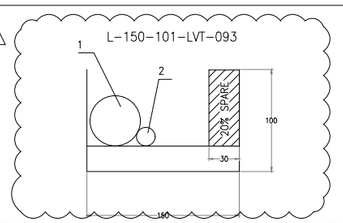
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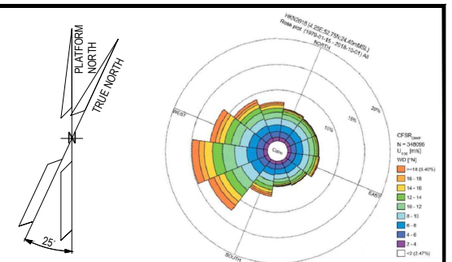
SECTION POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	P-EJB-200N1-08-L1-01	EMERGENCY LIGHTING UPPER DECK – CIRCUIT NO. 1	DP-200N1	EJB-200N1-08-L1-01	POWER CABLE	P4	4G4_E
2	72203-CEL	TOP OBSTRUCTION LIGHTS JUNCTION BOX	UP-200F2	EJB-200F2-01	POWER CABLE	P5	3G2.5
3	72211-CEL	INTERMEDIATE OBSTRUCTION LIGHTS JUNCTION BOX	NC-200F2	EJB-200F2-02	POWER CABLE	P5	3G2.5
4	72213-CEL	INTERMEDIATE OBSTRUCTION RED LIGHTS	EJB-200F2-02	EOL-200-04	POWER CABLE	P5	3G2.5
5	P-EJB-200N1-08-L1-03	EMERGENCY LIGHTING JB	EJB-200N1-08-L1-02	EJB-200N1-08-L1-03	POWER CABLE	P5	4G4_E
6	P-EJB-200N1-08-L1-01	EMERGENCY LIGHTING JB	EJB-200N1-08-L1-04	EJB-200N1-08-L1-01	POWER CABLE	P5	4G4_E
7	P-EJB-200N1-02-L1-02	NORMAL LIGHTING JB	EJB-200N1-02-L1-01	EJB-200N1-02-L1-02	POWER CABLE	P5	3G4
8	P-EJB-200N1-02-L1-03	NORMAL LIGHTING JB	EJB-200N1-02-L1-02	EJB-200N1-02-L1-03	POWER CABLE	P5	3G4

01

L-150-101-LVT-093



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83016-CEL	WATER PACKAGE	SG-200N1	JB-500E8	POWER CABLE	P4	5G70
2	84313-CEL	UCP – WATER PACKAGE	DP-200F3	JB-500E8	POWER CABLE	P5	3G2.5



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.

CABLE TYPE DETAILS

P2 – SINGLE CORE, 3.6/6 (7.2) KV, CU/EPR/CU/LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.
P3 – SINGLE CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH, PVC, UNARMOURED CABLE, FLAME RETARDANT
P4 – MULTI CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.
P5 – MULTI CORE, 0.6/1 KV, FIRE RESISTANT, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, GALVANIZED STEEL WIRE ARMOURED CABLE, FLAME RETARDANT.
P7 – MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.
P8 – MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, CU SCREEN, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.

LEGEND

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20108**

REV.:	DATE:	SIGNATURE:
1_B	22/08/24	G.Randi

ROSETTI MARINO SpA

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-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-DL-20107	ELECTRICAL CABLES ROUTING LAYOUT - TOP DECK
123A90-DDL-EL-DL-20109	ELECTRICAL CABLES ROUTING LAYOUT - BELOW LOWER DECK
123A90-DDL-EL-DG-20125	LIGHTING & SOCKET CIRCUIT DIAGRAM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	30/07/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	27/06/24	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
ELECTRICAL CABLES ROUTING LAYOUT
LOWER DECK

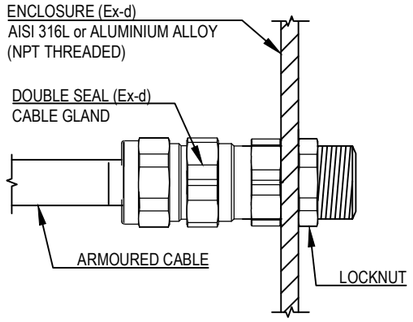
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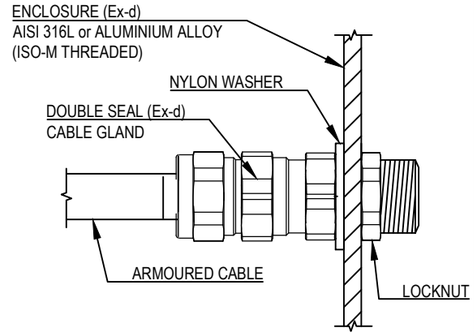
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C01

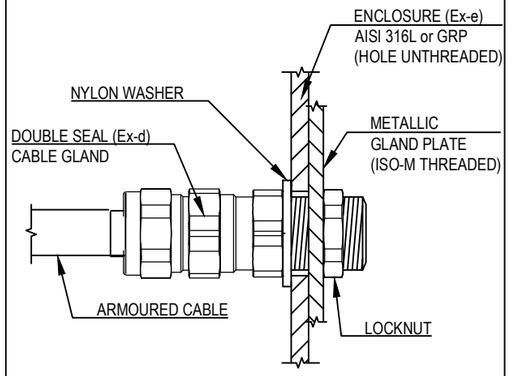
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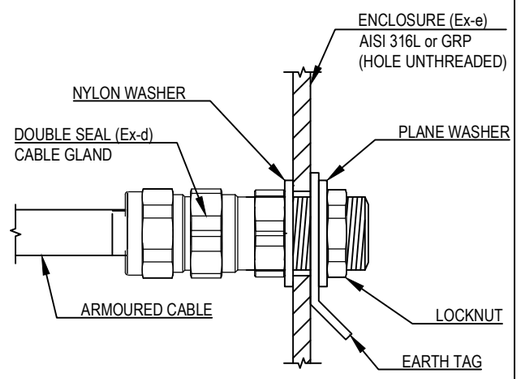
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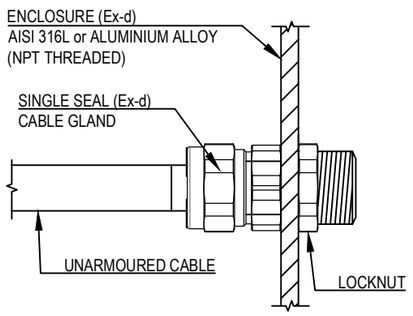
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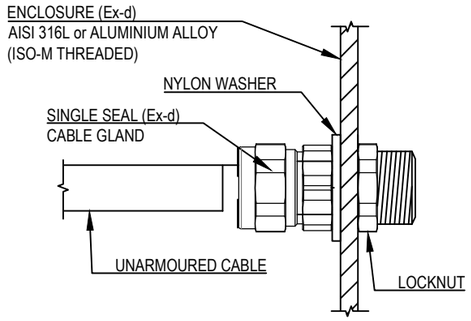
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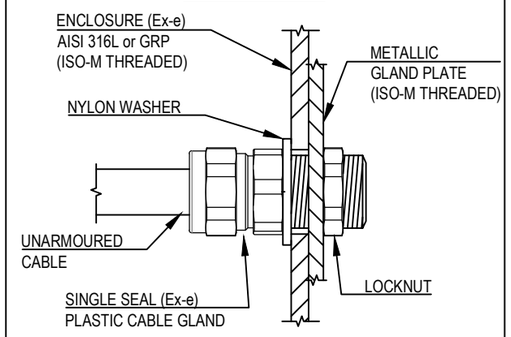
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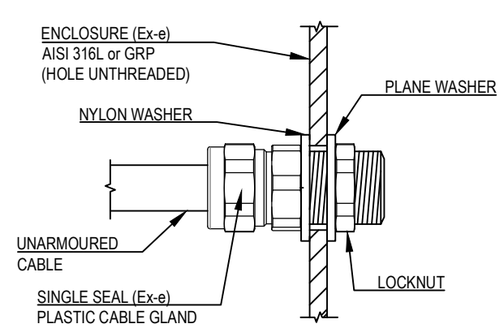
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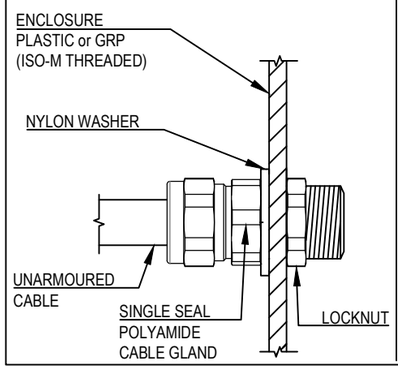
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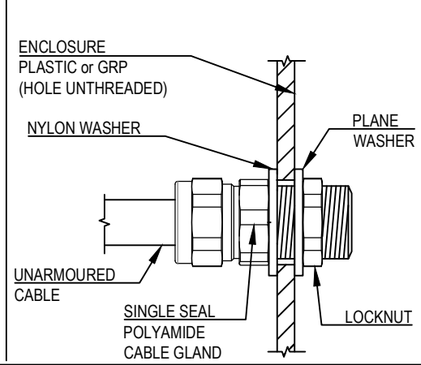
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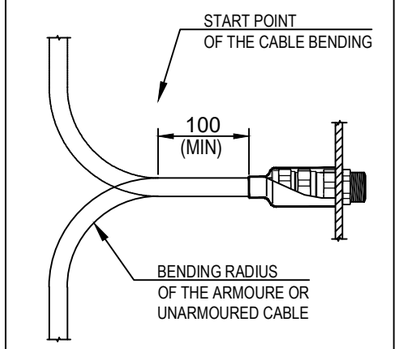


DETAIL "9"



DETAIL "10"





NOTES:

1) IF A REDUCTION OR ADAPTAR ARE NEEDED, ONLY ONE SHALL BE ALLOWED.
2) FOR GRP JUNCTION BOXES AND EQUIPMENTS CONNECTED BY ARMOURED CABLE, CABLE GLAND SHALL BE NICKEL PLATED BRASS TYPE AND GRP JUNCTION BOX AND EQUIPMENTS EQUIPPED WITH NICKEL PLATED CABLE GLAND PLATE. IF THE CABLE IS NON-ARMOURED, CABLE GLAND MAY BE POLYAMIDE TYPE.
3) SINGLE CORE CABLE SHALL HAVE AN EQUIPMENT ENTRY VIA NON MAGNETIC GLAND PLATE AND CONNECTING BY HDG STEEL CABLE GLAND.
4) OUTDOOR CABLE ENTRIES SHALL PREFERABLY BE FROM BOTTOM ENTRY, SIDE ENTRY SHALL BE SUBMITTED TO THE COMPANY APPROVAL. CABLE ENTRY FROM TOP IS FORBIDDEN.

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

REV.:	DATE:	SIGNATURE:
2_A	28/08/24	G.Randi

ROSETTI MARINO SpA

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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
POWER TYPICAL DETAIL CABLE GLAND INSTALLATION FOR E&I CABLES

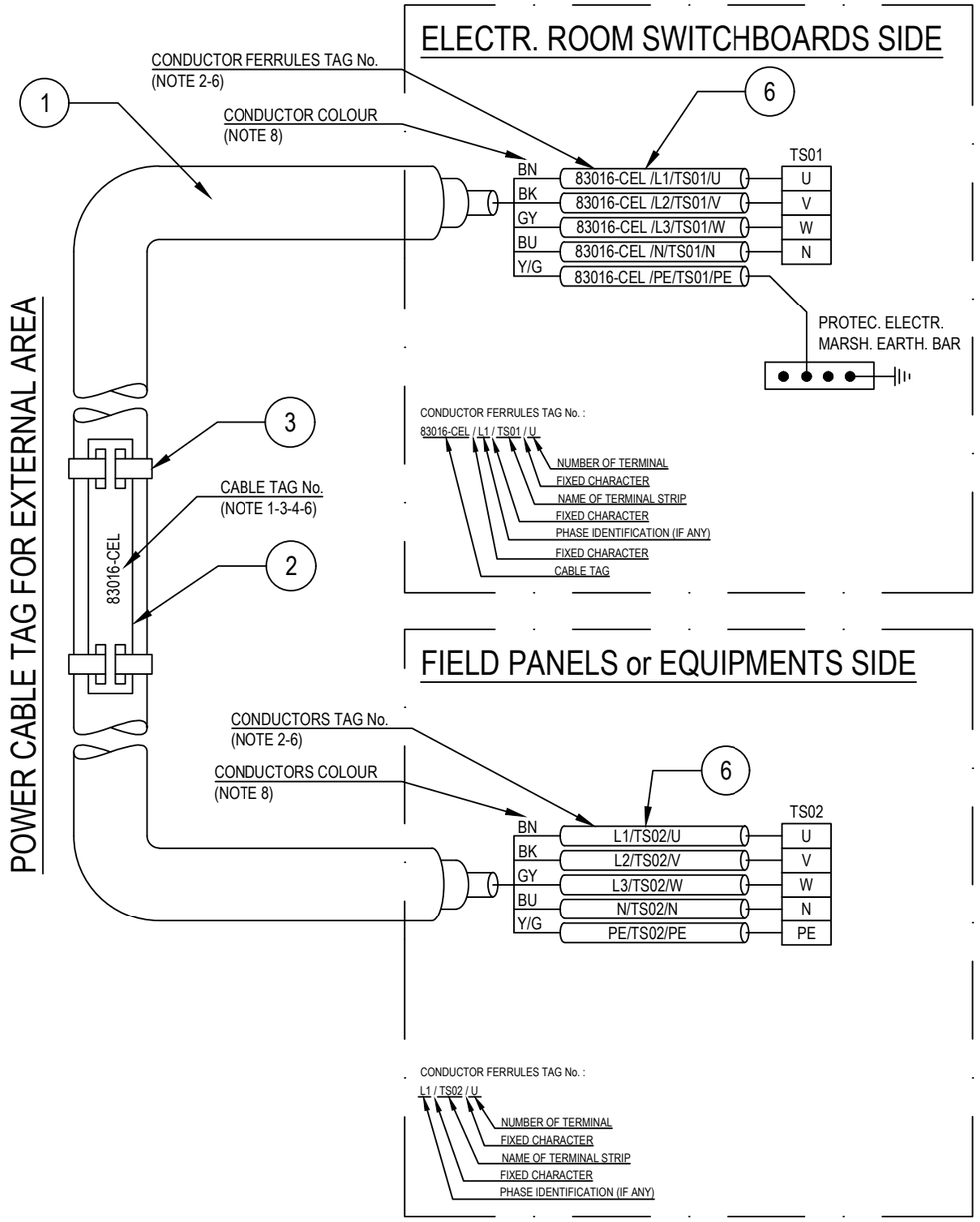
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 006 | REV. 02

F.to UNI A3: 420mmx297mm

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

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.

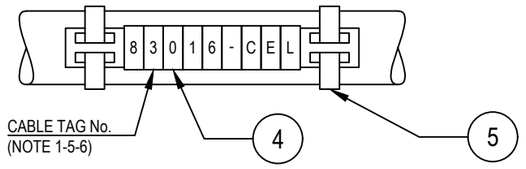
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

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.: 2_A | DATE: 28/08/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

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)

CROSSWIND

ROSETTI MARINO

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

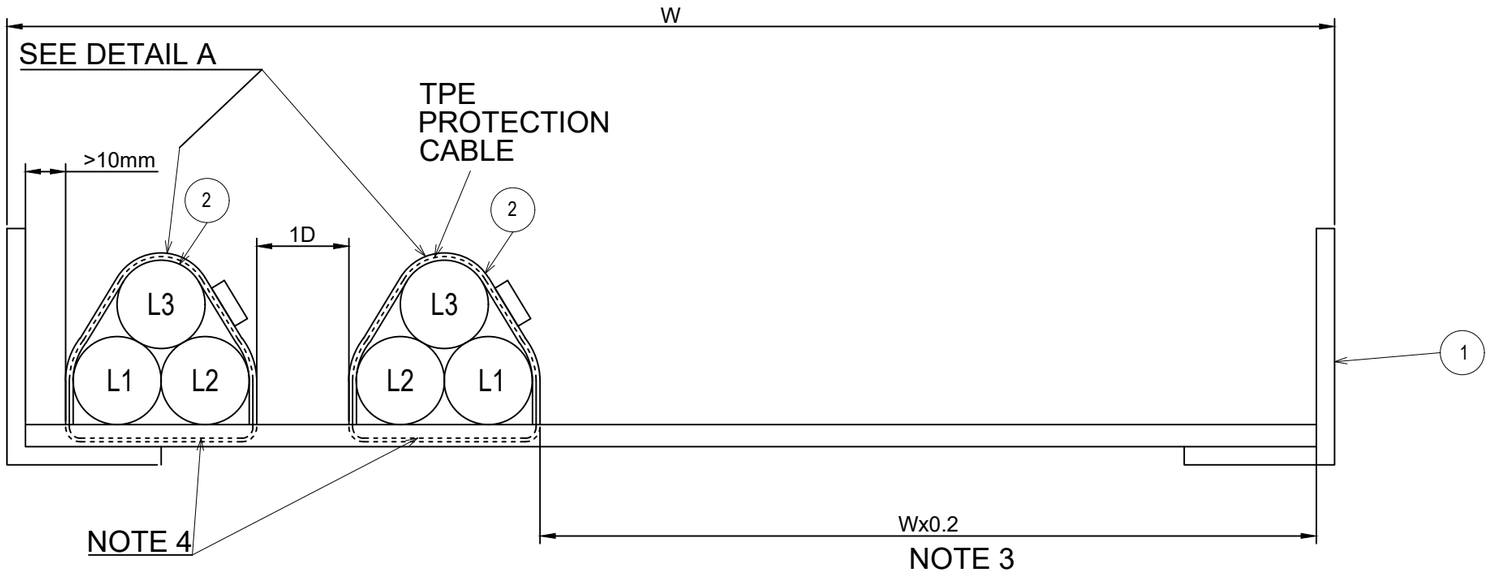
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F.to UNI A3: 420mmx297mm

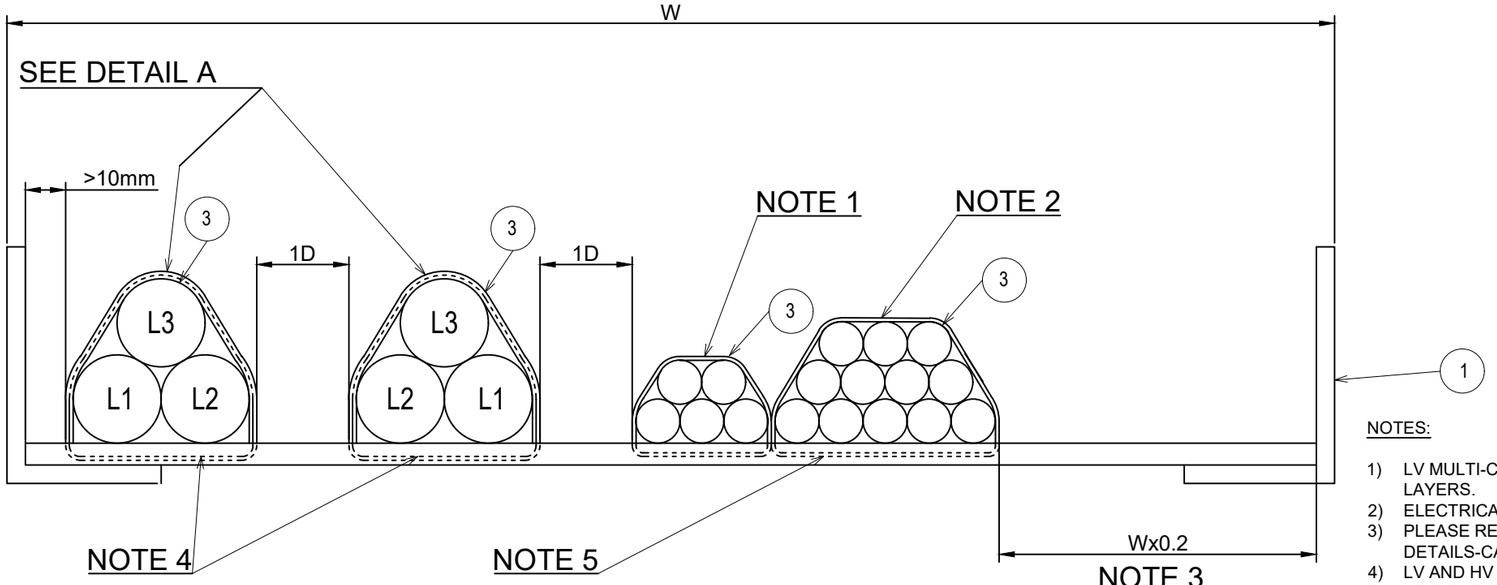
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C-05A

HV CABLETRAY

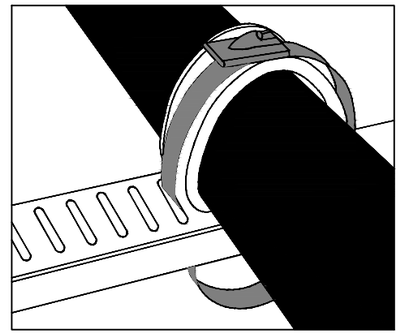


LV CABLETRAY



MATERIALS		
POS.		DESCRIPTION
1		CABLE LADDER AISI 316L
2		CABLE CLEATS STAINLESS STEEL FOR HV CABLES WITH TPE CABLE PROTECTION
3		UV RESISTANT PVC CABLE TIES
4		CABLE CLEATS STAINLESS STEEL FOR LV CABLES WITH TPE CABLE PROTECTION

DETAIL CABLE CLEATS



NOTES:

1) LV MULTI-CORE POWER CABLE (LESS THAN 120SQMM) CAN BE INSTALLED ON TWO LAYERS.
2) ELECTRICAL CONTROL CABLES CAN BE INSTALLED ON THREE LAYERS.
3) PLEASE REFER 123A90-DDL-EL-DD-20093-ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM SHEET-003 FOR CABLE SEGREGATION DETAIL.
4) LV AND HV SINGLE CORE POWER CABLE INSTALLED IN TREFOIL FORMATION.
5) FOR CABLE TIES INSTALLATION SEE DETAIL "C-06" ON SH.011.
6) CABLES BETWEEN TR-200DE1 TRASFORMER AND SG-200N1 POWER CENTER HAVE TO BE PROVIDE WITH CABLE CLEATES WITH STAINLESS STEEL TYPE

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

REV.:	DATE:	SIGNATURE:
2_A	28/08/24	G.Randi

ROSETTI MARINO SpA

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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES ARRANGEMENT IN CABLE LADDER/TRAY FOR ELECTRICAL 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 009 | REV. 02

F.to UNI A3: 420mmx297mm

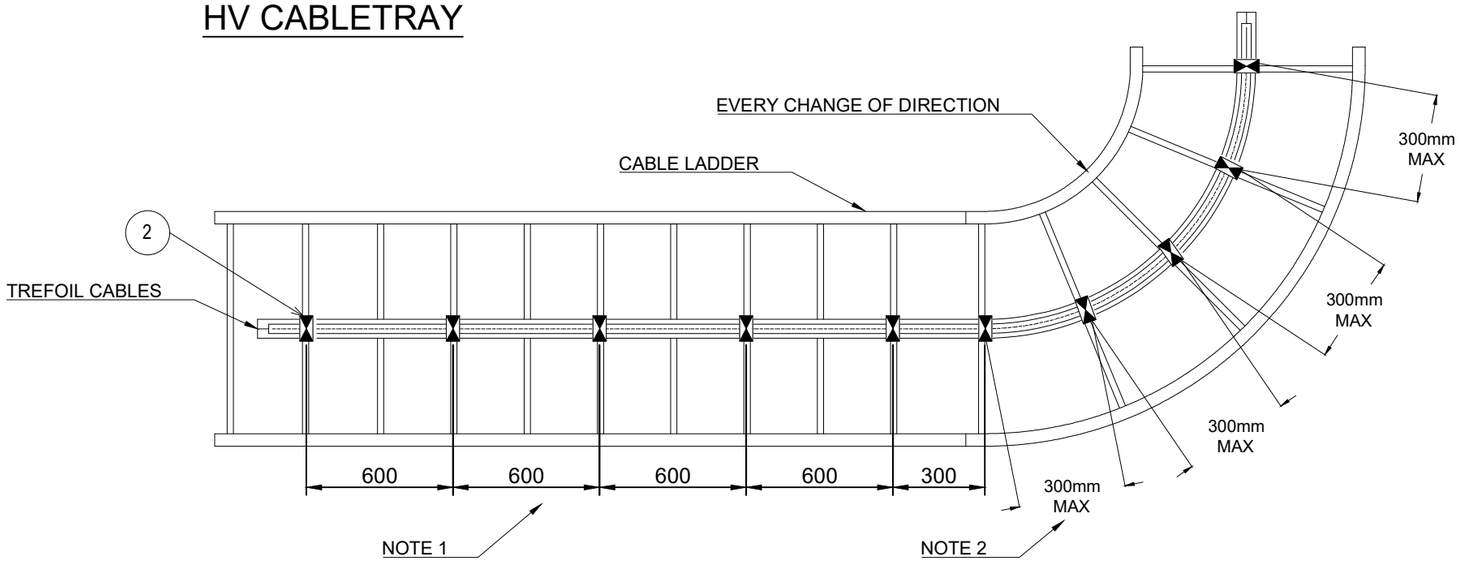
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C06

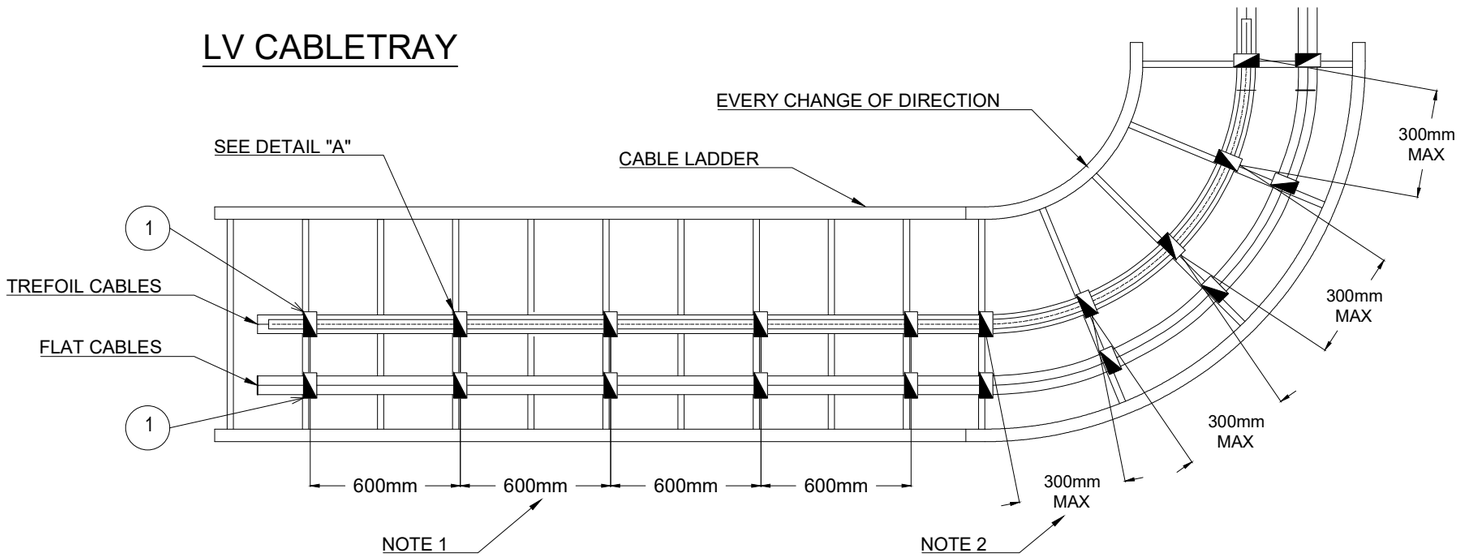
MAXIMUM CABLE TIES/CLEATS SPACING INSTALLATION DETAILS

MATERIALS		
POS.		DESCRIPTION
1		UV RESISTANT PVC CABLE TIES
2		STAINLESS STEEL DOUBLE WRAPPED CABLE CLEATS COMPLETE WITH TPE CUSHION SLEEVING

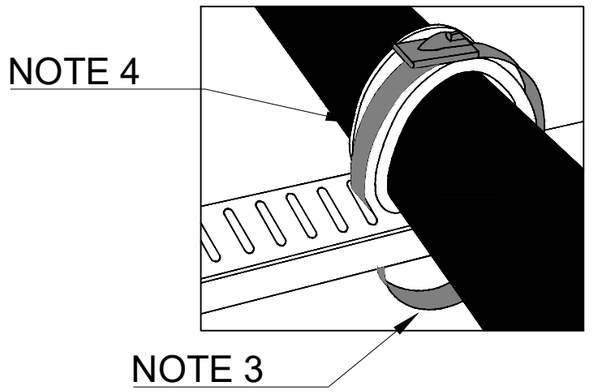
HV CABLETRAY



LV CABLETRAY



DETAIL "A" CABLE CLEATS



NOTES:

1) CABLES TIES SHALL BE HELD EVERY 600mm (CLEATS EVERY 600mm) ON HORIZONTAL RUNS.
2) CABLES SHALL BE HELD EVERY 300mm ON HORIZONTAL/VERTICAL ELBOW AND ON VERTICAL RUNS.
3) CABLE CLEATS WRAPPED TWO TIME AROUND THE CABLE RUNS.
4) TO PROTECT THE CABLE, INSTALL THE CUSHION SLEEVE BETWEEN THE CLAMP AND THE CABLE.

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20092
REV.: 2_A | DATE: 28/08/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
MAXI. CABLE TIES SPACING TYPICAL INSTALLATION DETAILS CABLE FASTENING IN TRAYS/LADDER

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

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 010 | REV. 02

F.to UNI A3: 420mmx297mm

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

ITEM	Tag	83010-CEL-PE-TEMP	: JB-200E2 / SG-200N1			Dwg	
	S/Sys	83-99	: 400 V Temporary Yard Supply			Module	
TASK	code	C10003042		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type: Flame Retardant | Cores/Size mm²: 1CX95 | Color: Y/G

From: JB_200E2_TEMP | To: SG-200N1

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).	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"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	83010-CEL-PE-TEMP	: JB-200E2 / SG-200N1			Dwg	
	S/Sys	83-99	: 400 V Temporary Yard Supply			Module	
TASK	code	C10003042		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	N/A	
7		PH 3	N/A	
8	ARMOUR CONTINUITY Ω		N/A	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		N/A	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>47,1	
11		PH2 / PH1-PH3-A-E	N/A	
12		PH3 / PH1-PH2-A-E	N/A	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

TYPE / SERIAL N° :	Kew3125A/ Serial:W8330207	TYPE / SERIAL N° :	Fluke/Serial:AW1/08(17140769)
Calibration certificate N° and date:	7722/24Date:10/07/24	Calibration certificate N° and date:	7715/25Date:10/07/24

Comments:

	Performed by	☉ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS Impianti	RM (Rosetti Marino)	
Name	Carmelo Bongiovanni	Giovanni Tangianu	
Date	2024-09-13	2024-09-20	
Signature	PROVERLIS Digitaly signed by Carmelo Bongiovanni 2024-09-13T07:17:16.848Z	Firma Digitale Sicura Giovanni Tangianu 2024-09-20T11:45:09+0200	

ROSETTI MARINO | CROSSWIND

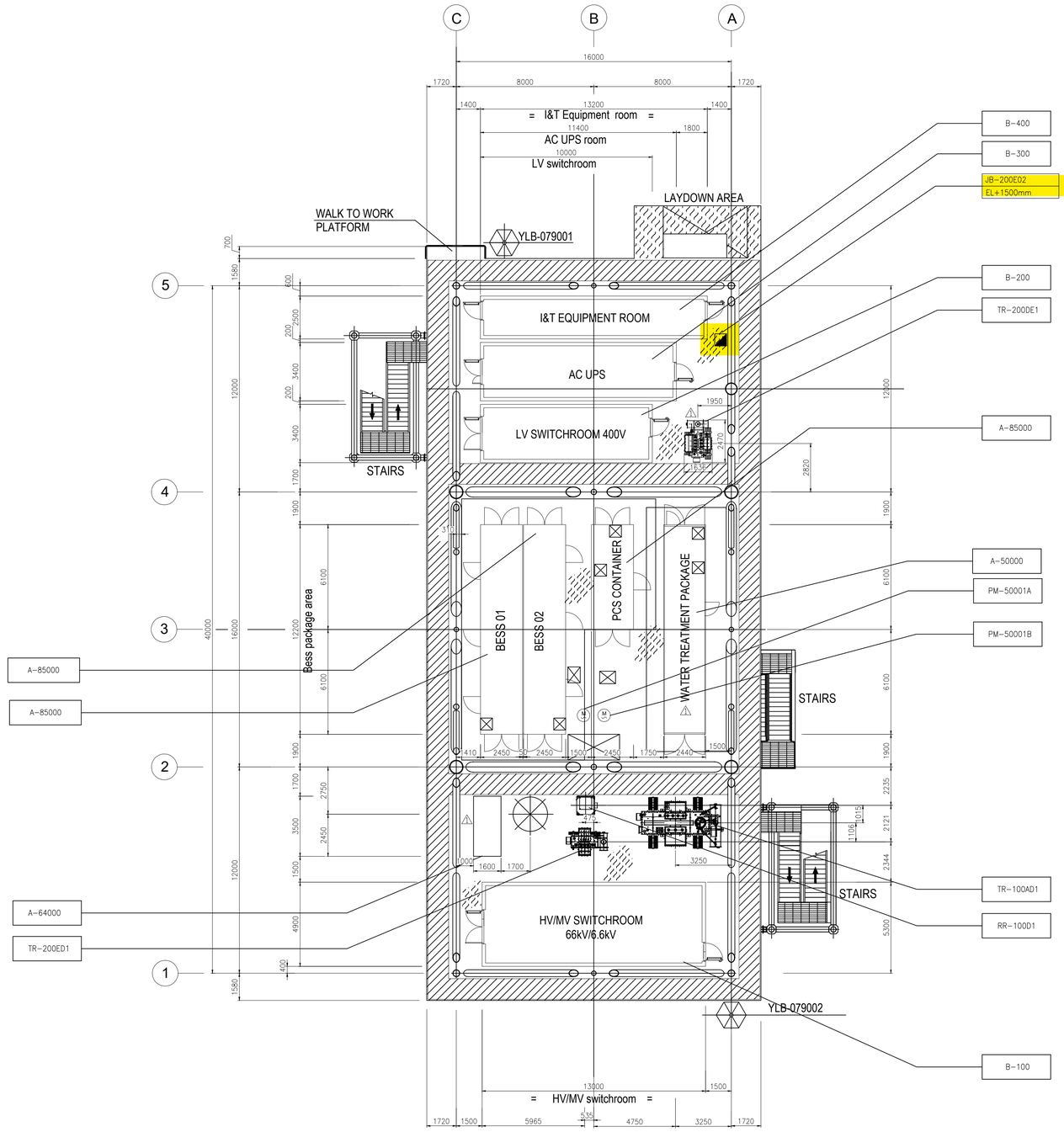
Document Title:	ELECTRICAL POWER & CONTROL CABLE SCHEDULE	Rev.:	00	Rev. Date:	19/03/2024
Project ID:	CW-I-WP4-2023-05	Issued by:	NLK	Sheet:	5 of 9
Document n°:	123A90-DDL-EL-LIS-20148	Reviewed by:	FMA/AMA	System:	
		Approved by:	FPA/DLO	Description:	
Project:	HOLLANDSE KUST NOORD WIND PARK Project	Loc./Plat./Mod.:		Status:	
Area:	BLPH	Doc. Type:		Class:	

Remarks:

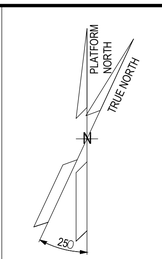
POSITION	REVISION	CABLE TYPE: TAG NUMBER	CABLE TYPE [2]	FORMATION mm²	RATED VOLTAGE (V)	Estimated LENGTH (m)	LENGTH (m) [4]	SPARE (%)	TOTAL LENGTH (m) [3]	DRUM NUMBER (n)	SYSTEM	CABLE ROUTE: FROM ITEM Tag	FROM DESCRIPTION	FROM Panel/JB/etc.	FROM Cable Entry (Top or Bottom)	FROM Cable Peeling (m)	FROM CABLE GLAND TYPE	FROM CABLE GLAND SIZE	FROM MCT Module	FROM MCT Tag	TO ITEM Tag	TO DESCRIPTION	TO Panel/JB/etc.	TO Cable Entry (Top or Bottom)	TO Cable Peeling (m)	TO CABLE GLAND TYPE	TO CABLE GLAND SIZE	TO MCT Module	TO MCT Tag	PHASE/ PE	CONDUIT SIZE	CONDUIT LENGTH (m)	ROUTING SECTION MARKER [1]	WIRING & TERMINATION DRAWING	NOTES
1	0	81001-CEH-L1	P1	1C X 300	66000	40	Note-4	10	47	Note-10	Power	JB-100A01	IAC Cable Extension - Interface JB T-Connector	XB2 (Z2)	Bottom	1,5	NA	NA	Hold		HNA6-AFA70	66kV GIS	GZ92	Side	1,5	NA	NA	Hold		L1	NA	NA		NOTE-2	Note-12	
2	0	81001-CEH-L2	P1	1C X 300	66000	40	Note-4	10	47	Note-10	Power	JB-100A01	IAC Cable Extension - Interface JB T-Connector	XB2 (Z2)	Bottom	1,5	NA	NA	Hold		HNA6-AFA70	66kV GIS	GZ92	Side	1,5	NA	NA	Hold		L2	NA	NA		NOTE-2	Note-12	
3	0	81001-CEH-L3	P1	1C X 300	66000	40	Note-4	10	47	Note-10	Power	JB-100A01	IAC Cable Extension - Interface JB T-Connector	XB2 (Z2)	Bottom	1,5	NA	NA	Hold		HNA6-AFA70	66kV GIS	GZ92	Side	1,5	NA	NA	Hold		L3	NA	NA		NOTE-2	Note-12	
4	0	81002-CEH-L1	P1	1C X 300	66000	25	Note-4	10	31	Note-10	Power	HNA6-AFA70	66kV GIS	GZ91	Side	1,5	NA	NA	Hold		TR-200AD1	66/6.6 kV, 7MVA Transformer	HV Cable Box	Side	1,5	NA	NA	Hold		L1	NA	NA		NOTE-2	Note-12	
5	0	81002-CEH-L2	P1	1C X 300	66000	25	Note-4	10	31	Note-10	Power	HNA6-AFA70	66kV GIS	GZ91	Side	1,5	NA	NA	Hold		TR-200AD1	66/6.6 kV, 7MVA Transformer	HV Cable Box	Side	1,5	NA	NA	Hold		L2	NA	NA		NOTE-2	Note-12	
6	0	81002-CEH-L3	P1	1C X 300	66000	25	Note-4	10	31	Note-10	Power	HNA6-AFA70	66kV GIS	GZ91	Side	1,5	NA	NA	Hold		TR-200AD1	66/6.6 kV, 7MVA Transformer	HV Cable Box	Side	1,5	NA	NA	Hold		L3	NA	NA		NOTE-2	Note-12	
7	0	82001-CEM-1-L1	P2	1C X 120	6600	25	Note-4	10	31	Note-10	Power	TR-100AD1	66kV, 7MVA Transformer	Secondary Cable Box	Side	1,5	NA	NA	Hold		SG-100D1	6.6kV HV Switchgear	A2	Top	1,5	NA	NA	Hold		L1	NA	NA		NOTE-2	Note-12	
8	0	82001-CEM-2-L1	P2	1C X 120	6600	25	Note-4	10	31	Note-10	Power	TR-100AD1	66kV, 7MVA Transformer	Secondary Cable Box	Side	1,5	NA	NA	Hold		SG-100D1	6.6kV HV Switchgear	A2	Top	1,5	NA	NA	Hold		L1	NA	NA		NOTE-2	Note-12	
9	0	82001-CEM-1-L2	P2	1C X 120	6600	25	Note-4	10	31	Note-10	Power	TR-100AD1	66kV, 7MVA Transformer	Secondary Cable Box	Side	1,5	NA	NA	Hold		SG-100D1	6.6kV HV Switchgear	A2	Top	1,5	NA	NA	Hold		L2	NA	NA		NOTE-2	Note-12	
10	0	82001-CEM-2-L2	P2	1C X 120	6600	25	Note-4	10	31	Note-10	Power	TR-100AD1	66kV, 7MVA Transformer	Secondary Cable Box	Side	1,5	NA	NA	Hold		SG-100D1	6.6kV HV Switchgear	A2	Top	1,5	NA	NA	Hold		L2	NA	NA		NOTE-2	Note-12	
11	0	82001-CEM-1-L3	P2	1C X 120	6600	25	Note-4	10	31	Note-10	Power	TR-100AD1	66kV, 7MVA Transformer	Secondary Cable Box	Side	1,5	NA	NA	Hold		SG-100D1	6.6kV HV Switchgear	A2	Top	1,5	NA	NA	Hold		L3	NA	NA		NOTE-2	Note-12	
12	0	82001-CEM-2-L3	P2	1C X 120	6600	25	Note-4	10	31	Note-10	Power	TR-100AD1	66kV, 7MVA Transformer	Secondary Cable Box	Side	1,5	NA	NA	Hold		SG-100D1	6.6kV HV Switchgear	A2	Top	1,5	NA	NA	Hold		L3	NA	NA		NOTE-2	Note-12	
13	0	82001-CEM-1-N	P2	1C X 120	6600	10	Note-4	10	14	Note-10	Power	TR-100AD1	66kV, 7MVA Transformer	Secondary Cable Box	Side	1,5	NA	NA	Hold		RR-100D1	NER	Cable Box	Bottom	1,5	NA	NA	Hold		N	NA	NA		NOTE-2	Note-12	
14	0	82001-CEM-2-N	P2	1C X 120	6600	10	Note-4	10	14	Note-10	Power	RR-100D1	NER	Secondary Cable Box	Side	1,5	NA	NA	Hold		RR-100D1	NER Earth Point	Earth Boss	NA	1,5	NA	NA	Hold		N	NA	NA		NOTE-2	Note-12	
15	0	82002-CEM-1-L1	P2	1C X 70	6600	44	Note-4	10	52	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A6	Top	1,5	NA	NA	Hold		TR-200DE1	6.6/0.4 KV, 1.6MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L1	NA	NA		NOTE-2	Note-12	
16	0	82002-CEM-1-L2	P2	1C X 70	6600	44	Note-4	10	52	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A6	Top	1,5	NA	NA	Hold		TR-200DE1	6.6/0.4 KV, 1.6MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L2	NA	NA		NOTE-2	Note-12	
17	0	82002-CEM-1-L3	P2	1C X 70	6600	44	Note-4	10	52	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A6	Top	1,5	NA	NA	Hold		TR-200DE1	6.6/0.4 KV, 1.6MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L3	NA	NA		NOTE-2	Note-12	
18	0	82003-CEM-1-L1	P2	1C X 70	6600	78	Note-4	10	89	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A5	Top	1,5	NA	NA	Hold		TA30	6.6/0.4 KV, 1.25MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L1	NA	NA		NOTE-2	Note-12	
19	0	82003-CEM-1-L2	P2	1C X 70	6600	78	Note-4	10	89	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A5	Top	1,5	NA	NA	Hold		TA30	6.6/0.4 KV, 1.25MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L2	NA	NA		NOTE-2	Note-12	
20	0	82003-CEM-1-L3	P2	1C X 70	6600	78	Note-4	10	89	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A5	Top	1,5	NA	NA	Hold		TA30	6.6/0.4 KV, 1.25MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L3	NA	NA		NOTE-2	Note-12	
21	0	82004-CEM-1-L1	P2	1C X 120	6600	45	Note-4	10	53	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A7	Top	1,5	NA	NA	Hold		T4	6.6/0.4/0.4 KV, 3.15MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L1	NA	NA		NOTE-2	Note-12	
22	0	82004-CEM-1-L2	P2	1C X 120	6600	45	Note-4	10	53	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A7	Top	1,5	NA	NA	Hold		T4	6.6/0.4/0.4 KV, 3.15MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L2	NA	NA		NOTE-2	Note-12	
23	0	82004-CEM-1-L3	P2	1C X 120	6600	45	Note-4	10	53	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A7	Top	1,5	NA	NA	Hold		T4	6.6/0.4/0.4 KV, 3.15MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L3	NA	NA		NOTE-2	Note-12	
24	0	82005-CEM-1-L1	P2	1C X 70	6600	55	Note-4	10	64	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A4	Top	1,5	NA	NA	Hold		18T1	6.6/0.62 KV, 1.25MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L1	NA	NA		NOTE-2	Note-12	
25	0	82005-CEM-1-L2	P2	1C X 70	6600	55	Note-4	10	64	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A4	Top	1,5	NA	NA	Hold		18T1	6.6/0.62 KV, 1.25MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L2	NA	NA		NOTE-2	Note-12	
26	0	82005-CEM-1-L3	P2	1C X 70	6600	55	Note-4	10	64	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A4	Top	1,5	NA	NA	Hold		18T1	6.6/0.62 KV, 1.25MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L3	NA	NA		NOTE-2	Note-12	
27	0	82006-CEM-1-L1	P2	1C X 70	6600	25	Note-4	10	31	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A1	Top	1,5	NA	NA	Hold		TR-200ED1	6.6/0.8 KV, 0.5MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L1	NA	NA		NOTE-2	Note-12	
28	0	82006-CEM-1-L2	P2	1C X 70	6600	25	Note-4	10	31	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A1	Top	1,5	NA	NA	Hold		TR-200ED1	6.6/0.8 KV, 0.5MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L2	NA	NA		NOTE-2	Note-12	
29	0	82006-CEM-1-L3	P2	1C X 70	6600	25	Note-4	10	31	Note-10	Power	SG-100D1	6.6KV HV Switchgear	A1	Top	1,5	NA	NA	Hold		TR-200ED1	6.6/0.8 KV, 0.5MVA Transformer	Cable Box	Side	1,5	NA	NA	Hold		L3	NA	NA		NOTE-2	Note-12	
30	0	83001-CEL-1-L1	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L1	NA	NA		NOTE-2	Note-12	
31	0	83001-CEL-2-L1	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L1	NA	NA		NOTE-2	Note-12	
32	0	83001-CEL-3-L1	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L1	NA	NA		NOTE-2	Note-12	
33	0	83001-CEL-4-L1	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L1	NA	NA		NOTE-2	Note-12	
34	0	83001-CEL-5-L1	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L1	NA	NA		NOTE-2	Note-12	
35	0	83001-CEL-1-L2	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L2	NA	NA		NOTE-2	Note-12	
36	0	83001-CEL-2-L2	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L2	NA	NA		NOTE-2	Note-12	
37	0	83001-CEL-3-L2	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L2	NA	NA		NOTE-2	Note-12	
38	0	83001-CEL-4-L2	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L2	NA	NA		NOTE-2	Note-12	
39	0	83001-CEL-5-L2	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L2	NA	NA		NOTE-2	Note-12	
40	0	83001-CEL-1-L3	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L3	NA	NA		NOTE-2	Note-12	
41	0	83001-CEL-2-L3	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L3	NA	NA		NOTE-2	Note-12	
42	0	83001-CEL-3-L3	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L3	NA	NA		NOTE-2	Note-12	
43	0	83001-CEL-4-L3	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L3	NA	NA		NOTE-2	Note-12	
44	0	83001-CEL-5-L3	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		L3	NA	NA		NOTE-2	Note-12	
45	0	83001-CEL-1-N	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		N	NA	NA		NOTE-2	Note-12	
46	0	83001-CEL-2-N	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		N	NA	NA		NOTE-2	Note-12	
47	0	83001-CEL-3-N	P3	1C X 300	400	10	Note-4	10	14	Note-10	Power	TR-200DE1	6.6/0.415 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		N	NA	NA		NOTE-2	Note-12	
48	0	83001-CEL-E	P6	1C X 150	400	10	Note-4	10	11	Note-10	PE	TR-200DE1	6.6/0.4 KV, 1.6MVA Transformer-Neutral	LV side Cable Box	Side	0	CW	M32	Hold		TR-200DE1	Earth Point	Earth Boss	NA	0	NA	NA	Hold		PE	NA	NA		NOTE-2	Note-12	
49	0	86001-CEL-L1	P3	1C X 300	800	50	Note-4	10	58	Note-10	Power	JB-200E01	Solar PV Power Cable JB	JB	Bottom	1,5	CW	M40	Hold		SG-200D2	Breaker	Cable Compartment	Top	1,5	BW	M40	Hold		L1	NA	NA		NOTE-2	Note-12	Note-13
50	0	86001-CEL-L2	P3	1C X 300	800	50	Note-4	10	58	Note-10	Power	JB-200E01	Solar PV Power Cable JB	JB	Bottom	1,5	CW	M40	Hold		SG-200D2	Breaker	Cable Compartment	Top	1,5	BW	M40	Hold		L2	NA	NA		NOTE-2	Note-12	Note-13
51	0	86001-CEL-L3	P3	1C X 300	800	50	Note-4	10	58	Note-10	Power	JB-200E01	Solar PV Power Cable JB	JB	Bottom	1,5	CW	M40	Hold		SG-200D2	Breaker	Cable Compartment	Top	1,5	BW	M40	Hold		L3	NA	NA		NOTE-2	Note-12	Note-13
52	0	86002-CEL-L1	P3	1C X 300	800	50	Note-4	10	58	Note-10	Power	SG-200D2	Solar Breaker	Cable Compartment	Bottom	1,5	CW	M40	Hold		TR-200ED1	6.6/0.8 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		L1	NA	NA		NOTE-2	Note-12	Note-13
53	0	86002-CEL-L2	P3	1C X 300	800	50	Note-4	10	58	Note-10	Power	SG-200D2	Solar Breaker	Cable Compartment	Bottom	1,5	CW	M40	Hold		TR-200ED1	6.6/0.8 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		L2	NA	NA		NOTE-2	Note-12	Note-13
54	0	86002-CEL-L3	P3	1C X 300	800	50	Note-4	10	58	Note-10	Power	SG-200D2	Solar Breaker	Cable Compartment	Bottom	1,5	CW	M40	Hold		TR-200ED1	6.6/0.8 kV Transformer	LV side Cable Box	Side	1,5	CW	M40	Hold		L3	NA	NA		NOTE-2	Note-12	Note-13
55	0	83010-CEL-L1	P3	1C X 95	400	25	Note-4	10	31	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M25	Hold		JB-200E1	Temporary Generator / Mobile Battery Pack	JB	Bottom	1,5	CW	M25	Hold		L1	NA	NA		NOTE-2	Note-12	
56	0	83010-CEL-L2	P3	1C X 95	400	25	Note-4	10	31	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M25	Hold		JB-200E1	Temporary Generator / Mobile Battery Pack	JB	Bottom	1,5	CW	M25	Hold		L2	NA	NA		NOTE-2	Note-12	
57	0	83010-CEL-L3	P3	1C X 95	400	25	Note-4	10	31	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M25	Hold		JB-200E1	Temporary Generator / Mobile Battery Pack	JB	Bottom	1,5	CW	M25	Hold		L3	NA	NA		NOTE-2	Note-12	
58	0	83010-CEL-N	P3	1C X 95	400	25	Note-4	10	31	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M25	Hold		JB-200E1	Temporary Generator / Mobile Battery Pack	JB	Bottom	1,5	CW	M25	Hold		N	NA	NA		NOTE-2	Note-12	
59	0	83310-CEL-PE	P6	1C X 95	400	25	Note-4	10	31	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M25	Hold		JB-200E1	Temporary Generator / Mobile Battery Pack	JB	Bottom	1,5	CW	M25	Hold		PE	NA	NA		NOTE-2	Note-12	
60	0	83011-CEL	P4	4C X 10	400	40	Note-4	10	47	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M25	Hold		A-85000	BESS PCS Cabinet	Cabinet	Side	1,5	BW	M25	Hold		L1,L2,L3,N	NA	NA		NOTE-2	Note-12	Note-15
61	0	83012-CEL	P4	5G16	400	40	Note-4	10	47	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M32	Hold		A-80000	Fuel Cell Auxiliary Load	Local Panel	Side	1,5	BW	M32	Hold		L1,L2,L3,N,PE	NA	NA		NOTE-2	Note-12	
62	0	83013-CEL-1-L1	P3	1C X 300	400	75	Note-4	10	86	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		A-20000	Electrolyser Auxiliary load	Local Panel	Side	1,5	BW	M40	Hold		L1	NA	NA		NOTE-2	Note-12	
63	0	83013-CEL-2-L1	P3	1C X 300	400	75	Note-4	10	86	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		A-20000	Electrolyser Auxiliary load	Local Panel	Side	1,5	BW	M40	Hold		L1	NA	NA		NOTE-2	Note-12	
64	0	83013-CEL-1-L2	P3	1C X 300	400	75	Note-4	10	86	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		A-20000	Electrolyser Auxiliary load	Local Panel	Side	1,5	BW	M40	Hold		L2	NA	NA		NOTE-2	Note-12	
65	0	83013-CEL-2-L2	P3	1C X 300	400	75	Note-4	10	86	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		A-20000	Electrolyser Auxiliary load	Local Panel	Side	1,5	BW	M40	Hold		L2	NA	NA		NOTE-2	Note-12	
66	0	83013-CEL-1-L3	P3	1C X 300	400	75	Note-4	10	86	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		A-20000	Electrolyser Auxiliary load	Local Panel	Side	1,5	BW	M40	Hold		L3	NA	NA		NOTE-2	Note-12	
67	0	83013-CEL-2-L3	P3	1C X 300	400	75	Note-4	10	86	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		A-20000	Electrolyser Auxiliary load	Local Panel	Side	1,5	BW	M40	Hold		L3	NA	NA		NOTE-2	Note-12	
68	0	83013-CEL-2-N	P3	1C X 300	400	75	Note-4	10	86	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M40	Hold		A-20000	Electrolyser Auxiliary load	Local Panel	Side	1,5	BW	M40	Hold		N	NA	NA		NOTE-2	Note-12	
69	0	83013-CEL-2-E	P6	1C X 150	400	75	Note-4	10	86	Note-10	PE	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M32	Hold		A-20000	Electrolyser Auxiliary load	Local Panel	Side	1,5	BW	M32	Hold		PE	NA	NA		NOTE-2	Note-12	
70	0	83014-CEL	P4	4C X 10	400	35	Note-4	10	42	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M25	Hold		CP-850-F-01	BESS LV1 Cabinet (+DISTR 1)	Cabinet	Side	1,5	BW	M25	Hold		L1,L2,L3,N	NA	NA		NOTE-2	Note-12	Note-14
71	0	83015-CEL	P4	4C X 10	400	38	Note-4	10	45	Note-10	Power	SG-200N1	LV Switchgear	HOLD	Top	1,5	BW	M25	Hold		CP-850-F-02	BESS LV2 Cabinet (+DISTR 2)	Cabinet	Side	1,5	BW	M25	Hold		L1,L2,L3,N	NA	NA		NOTE-2	Note-12	Note-14
72	0	85001-CEL-1-E	P6	1C X 95	400	100	Note-4	10	113	Note-10	PE	A-85000	BESS	HOLD	Top	1,5	NA	NA	Hold		A-85000	Earth Point	Earth Boss	Top	1,5	NA	NA	Hold		PE	NA	NA		NOTE-2	Note-12	Note-14

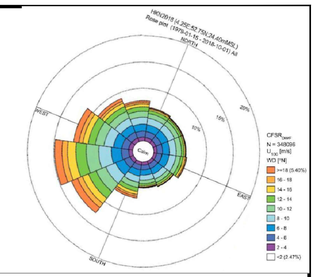
DRAWING NO. 123A90-DDL-EL-DL-20101

REV. 01



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





NOTES

1. ALL DIMENSIONS IN MM UNLESS NOTED OTHERWISE.
2. ALL ELEVATIONS IN METERS. UNLESS NOTED OTHERWISE.
3. ELEVATIONS REFER TO T.O.S.
4. FOR ELECTRICAL EQUIPMENT LAYOUT OF CONTAINERS B-100, B-200, B-300, B-400 REFER TO THE RESPECTIVE LAYOUTS.

LEGEND

(M)	ELECTRIC MOTOR – LOW VOLTAGE
⊠	INTERFACE PANEL
◪	JUNCTION BOX
JB-200E2 / EL+500mm	TAG ITEM / REFERED ELEVATION TO T.O.S. (TOP OF STEEL)

HOLDS

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20106	ELECTRICAL EQUIPMENT LAYOUT UPSs & BATTERIES SWITCHROOM
123A90-DDL-IN-DL-40012	ITER EQUIPMENT LAYOUT
123A90-DDL-EL-DL-20104	ELECTRICAL EQUIPMENT LAYOUT HV & MV SWITCHROOM
123A90-DDL-EL-DL-20105	LV SWITCHGEAR ROOM EQUIPMENT LAYOUT

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/05/24	SAM	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	04/03/24	SAM	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20101**

REV.:	DATE:	SIGNATURE:
1_A	08/08/24	G.Randi

ROSETTI MARINO SpA

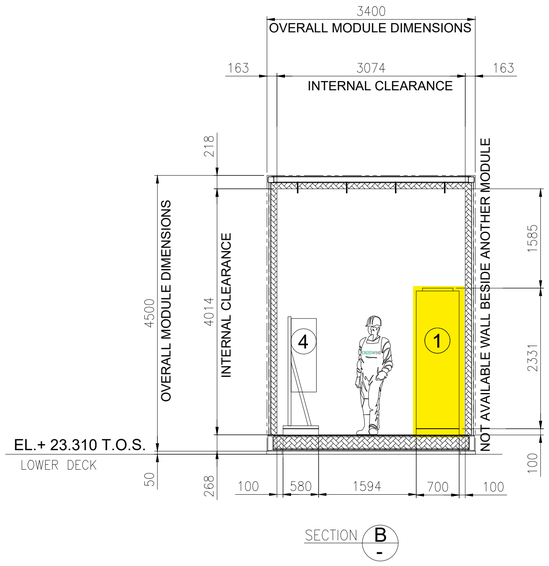
CROSSWIND | ROSETTI MARINO

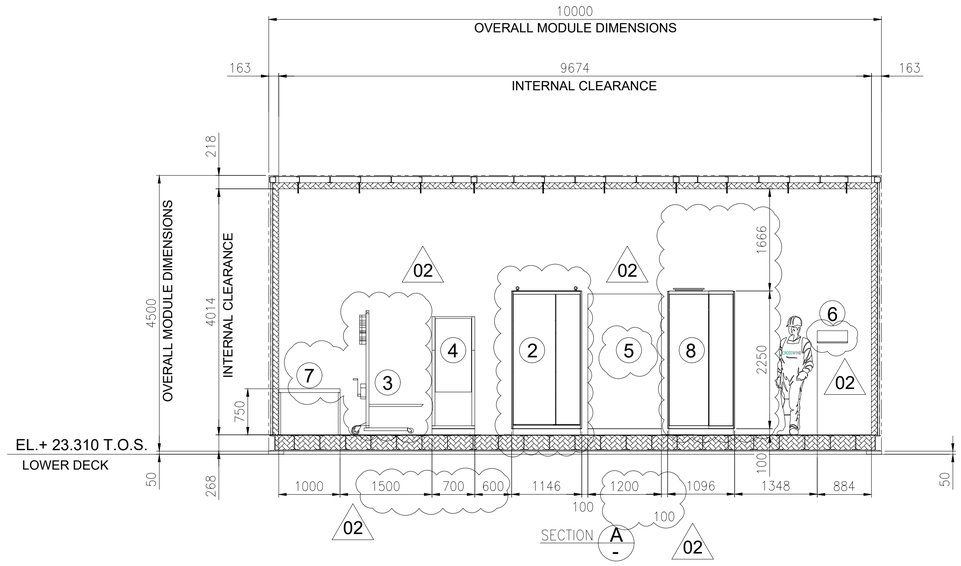
TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL EQUIPMENT LAYOUT
LOWER DECK

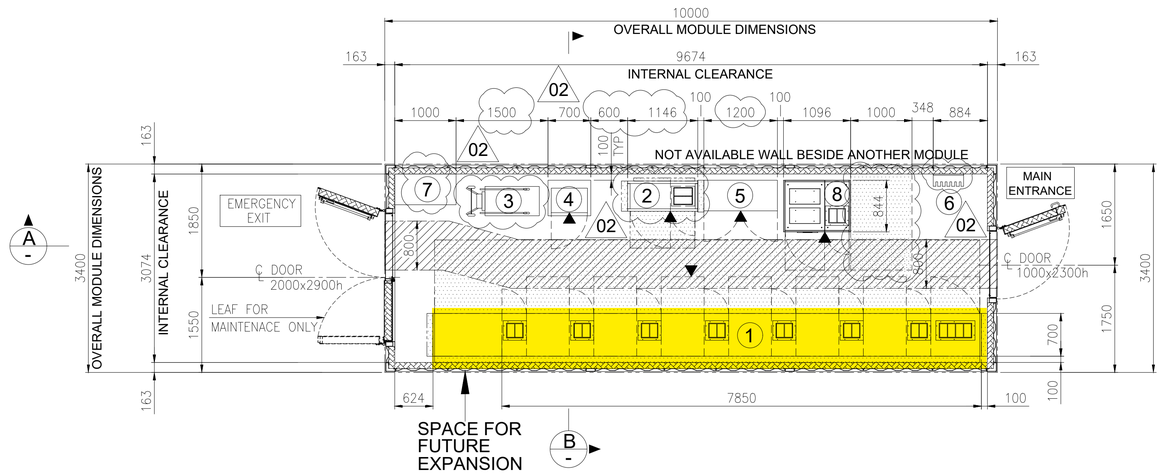
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN SAM	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 04/03/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20101	SHEET 001	REV. 01

File Name : 123A90-DDL-EL-DL-20101-Electrical Equipment Layout – Lower Deck

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





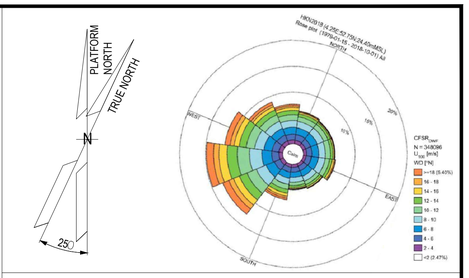


EQUIPMENT LAYOUT
"B-200" LV (400V) SWITCHGEAR ROOM
BOTTOM PLAN

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

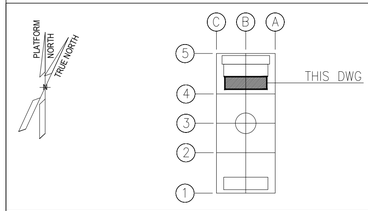
U.N.O. _____ UNLESS NOTED OTHERWISE
T.O.S. _____ TOP OF STEEL
_____ ESCAPE CORRIDOR - WIDTH 800mm.
_____ MAINTENANCE AREA - VENDOR REQUIREMENT
_____ SWITCHGEAR ROOM ENCLOUSURE
_____ FRONT OF EQUIPMENT

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



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	DYFO/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

FROM	TO

DESCRIPTION: LV Switchgear
TAG NUMBER: SG-200N1

COLUMN/CUBIC.: A2/+08

L1	BK	83010-CEL-L1	1C X 95 mm²
L2	BK	83010-CEL-L2	1C X 95 mm²
L3	BK	83010-CEL-L3	1C X 95 mm²
N	BK	83010-CEL-N	1C X 95 mm²
PE	Y/G	83010-CEL-PE	1C X 95 mm²

P.E. BUS BAR

DESCRIPTION: TEMPORARY GENERATOR / MOBILE BATTERY PACK
TAG NUMBER: JB-200E2

BK	L1
BK	L2
BK	L3
BK	N
Y/G	PE

INCOMING FROM LV SWITCHGEAR
SG-200N1

P.E. BUS BAR

COLUMN/CUBIC.: A1/+08

L1	BK	83013-CEL-L1	1C X 300 mm²
L2	BK	83013-CEL-L2	1C X 300 mm²
L3	BK	83013-CEL-L3	1C X 300 mm²
N	BK	83013-CEL-N	1C X 300 mm²
PE	Y/G	83013-CEL-E	1C X 150 mm²

P.E. BUS BAR

DESCRIPTION: ELECTROLYSER AUXILIARY LOAD
TAG NUMBER: A-20000

BK	L1
BK	L2
BK	L3
BK	N
Y/G	PE

P.E. BUS BAR

COLUMN/CUBIC.: A4/+03

L1	BK
L2	BN
L3	GY
N	BU
PE	Y/G

83012-CEL
5G16 mm²

P.E. BUS BAR

DESCRIPTION: FUEL CELL AUXILIARY LOAD
TAG NUMBER: A-80000

BK	L1
BN	L2
GY	L3
BU	N
Y/G	PE

P.E. BUS BAR

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
LV SWITCHGEAR SG-200N1

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

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 021

REV. 00

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20162 Rev. 00

TITLE

DATA SHEET FOR LV POWER CABLE (LSZH, FLAME RETARDANT)

CONSTRUCTIVE DATA

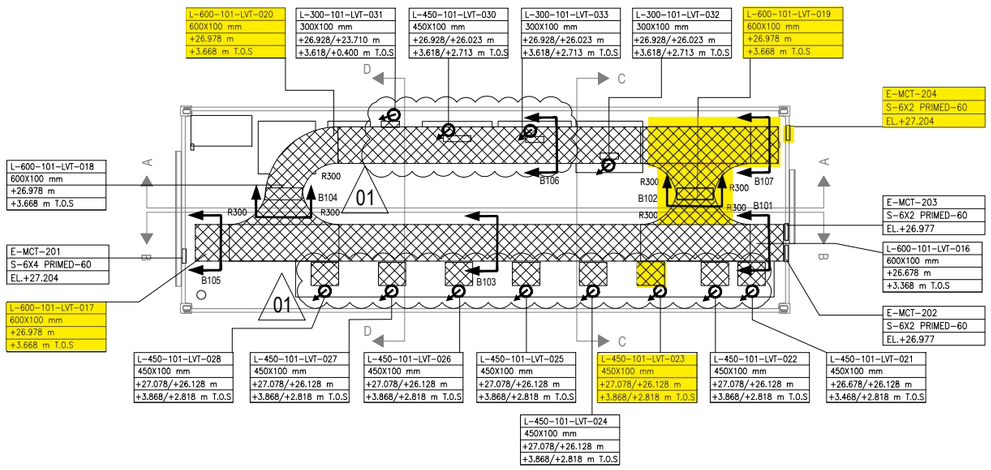
3	MR TAG / PART NUMBER			Note-3	Note-3	Note-3	Note-3
4	n° x NOMINAL AREA OF CONDUCTORS		N.xmm^2	1Cx300	1Cx95	3G2.5	3G4
5	n° AND DIAMETER OF WIRES IN EACH CONDUCTOR		N.xmm	37X3,35	19X2,67	7X0,67	7X0,85
6	CONDUCTOR CLASS (2)			2	2	2	2
7	RATED CURRENT IN AIR AT 30°		A	698	323	31	41
8	RATED CURRENT IN GROUND AT 20°		A	623	333	41	53
9							
10	A.C. PHASES RESISTANCE AT THE MAX OP. TEMP.		Ω/km	0,08	0,247	9,45	5,88
11	PHASE REACTANCE AT 50 Hz		Ω/km	0,08	0,085	0,103	0,096
12	MINIMUM INSULATION RESISTANCE AT 20°		MΩ/km	330	400	1100	1100
13	PHASE CAPACITY		µF/km	0,722	0,451	0,157	0,178
14							
15	MINIMUM ORDER Q.TY		m	300	300	300	300
16	MAX LENGHT OF DRUMS		m	1000	3000	7000	6000
17	DIAMETERS	BARE CONDUCTOR	mm	21	11,3	2	2,6
18		CORE (INSULATED CORE)	mm	25,8	14,5	4	4,6
19		INNER COVERING	mm	NA	NA	10,6	11,9
20		ARMOUR OR CONCENTRIC CONDUCTOR	mm	NA	NA	NA	NA
21							
22							
23		OVERALL	mm	29,4	17,3	13	14,3
24	MASSES	CONDUCTORS	kg/km	2730	864	68	109
25		INSULATION	kg/km	205	58	28	34
26		INNER COVERING	kg/km	NA	NA	83	101
27		ARMOUR OR CONCENTRIC CONDUCTOR	kg/km	NA	NA	NA	NA
28		OUTER SHEATING	kg/km	320	100	74	82
29							
30		TOTAL	kg/km	3255	1022	253	326
31	EXTERNAL COLOUR			GREY	GREY	GREY	GREY
32	CORE IDENTIFICATION (1)			BK	BK	BN,BU,Y/G	BN,BU,Y/G
33							
34							
35							
36							
37							
38							

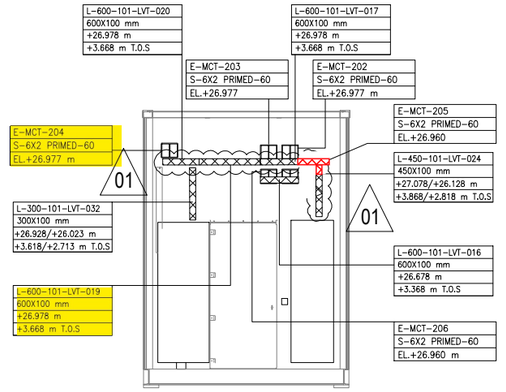
NOTE: (1) BK=BLACK, BN=BROWN, GY=GRAY, BU=BLUE, RD=RED, Y/G=YELLOW/GREEN

NA NOT APPLICABLE

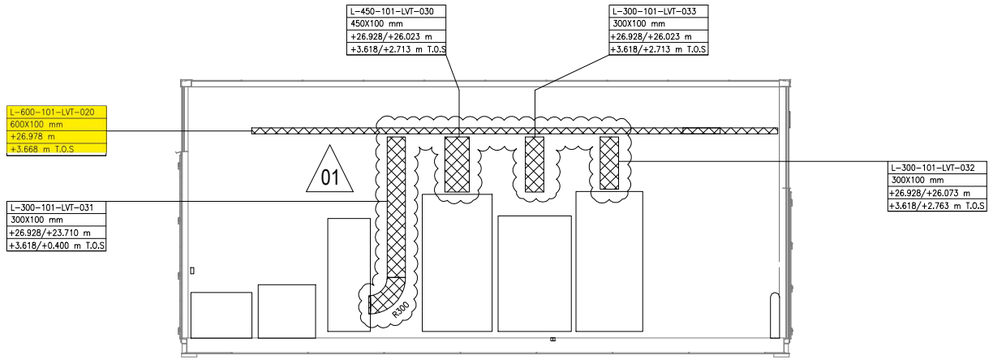
DRAWING NO. 123A90-DDL-EL-DL-20112

REV. 01

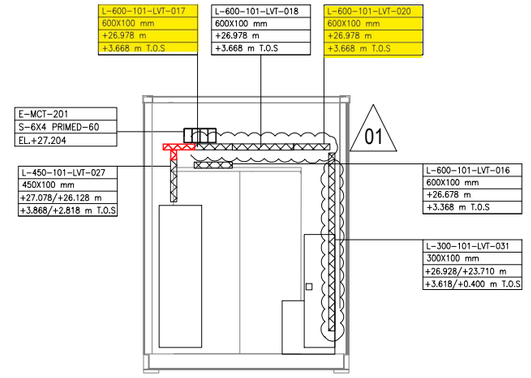




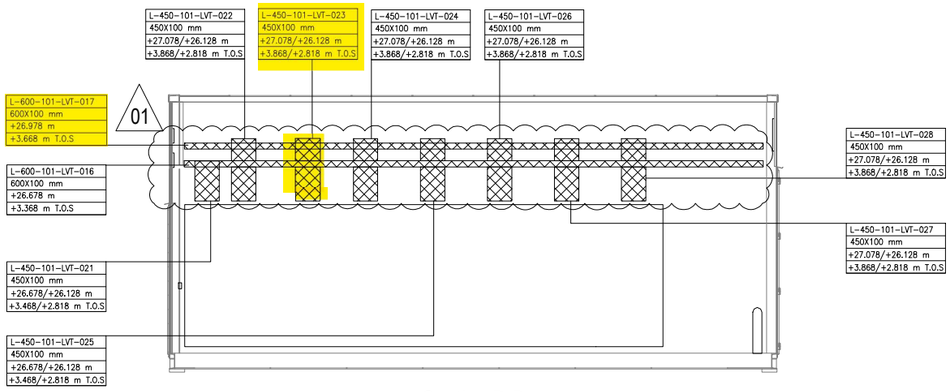
Section C-C



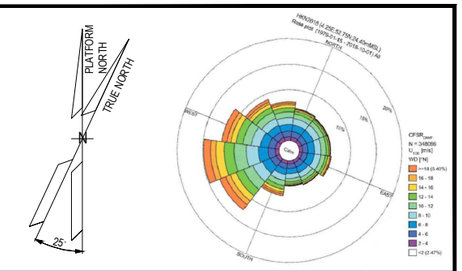
Section A-A



Section D-D



Section B-B



NOTES

1.ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.

2.THIS DRAWING IS VALID ONLY FOR ELECTRICAL CABLE ROUTING LAYOUT.

3.DRAWING SPLIT INTO MULTIPLE SHEETS FOR CLARITY.

4.FOR INSTALLATION DETAIL OF CABLE LADDER REFER TO DOC. 123A90-DDL-EL-DD-20093.

5.FOR LIGHTING AND SOCKET EQUIPMENTS SEE DRAWING 123A90-DDL-EL-DL-20123 AND 1724000049-EL-LIS-00044

6.ELEVATIONS REFER TO T.O.S. (EL+23.310m)

7.FOR PANEL MCTs DETAILS PLEASE REFER TO 123A90-DDL-EL-DL-20115.

LEGEND

ELECTRICAL LV CABLE LADDER

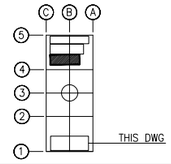
ELECTRICAL CABLE LADDER (VERTICAL DROP)

MCT TAG
TAG
MCT FRAME
ELEVATION

B100
CABLE SECTION

CABLE LADDER TAG
TAG
SIZE
ELEVATION
ELEVATION IN T.O.S

KEY PLAN



REFERENCE DOCUMENTS

123A90-DDL-EL-DD-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE
123A90-DDL-EL-DL-20105	ELECTRICAL EQUIPMENT LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DL-20123	LIGHTING & SOCKET LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DD-20095	MCT COMPOSITION
1724000049-EL-LIS-00044	B-200 ELECTRICAL COMPONENTS LIST AND DS - E&I SHELTERS
123A90-DDL-EL-DL-20115	ELECTRICAL MCT LAYOUT - LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	SAM	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	18/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20112**

REV.:	DATE:	SIGNATURE:
1_B	02/09/24	G.Randi

ROSETTI MARINO SpA

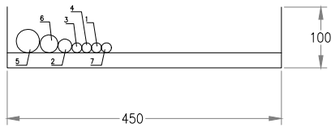
TITLE :
BASE LOAD POWER HUB (BLPH)
ELECTRICAL CABLE ROUTING LAYOUT
LV SWITCHROOM

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:50
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 02/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20112	SHEET 1of11	REV. 01

File Name : 123A90-DDL-EL-DL-20112

DRAWING NO. 123A90-DDL-EL-DL-20112 REV. 01

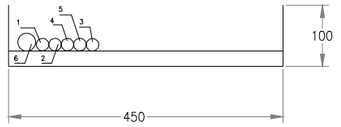
L-450-101-LVT-028



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83034-CEL	DC Battery System – Switchgears Control – Feeder A	SG-200N1	UP-200F1	POWER CABLE	P4	4G16
2	83035-CEL	DC Battery System – Switchgears Control – Feeder B	SG-200N1	UP-200F1	POWER CABLE	P4	4G16
3	83036-CEL	DC UPS NAVAID System – Feeder A	SG-200N1	UP-200F2	POWER CABLE	P5	3G16
4	83037-CEL	DC UPS NAVAID System – Feeder B	SG-200N1	UP-200F2	POWER CABLE	P5	3G16
5	83022-CEL-01	Welding Sockets (Lower Deck)	SG-200N1	JB-200E4	POWER CABLE	P4	5G50
6	83028-CEL	AC UPS PAS – 30min – Line A	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
7	83018-CEL	Sea water intake pump A	SG-200N1	PM-50001 A	POWER CABLE	P4	4G4

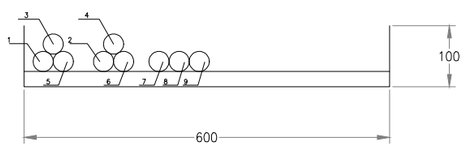
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L-450-101-LVT-023



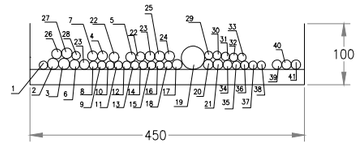
POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83010-CEL-L1	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
2	83010-CEL-L2	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
3	83010-CEL-L3	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
4	83010-CEL-N	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
5	83010-CEL-PE	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P6	1C X 95
6	83031-CEL	AC UPS F&G – 8h – Line A	SG-200N1	UP-200F4	POWER CABLE	P4	4G35

L-600-101-LVT-016 VIA-E-MCT-206



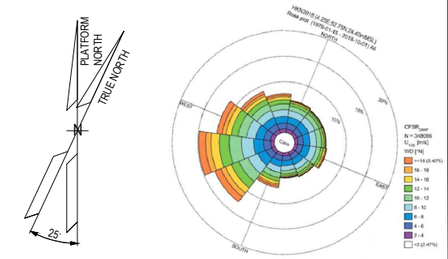
POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83001-CEL-4-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
2	83001-CEL-5-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
3	83001-CEL-4-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
4	83001-CEL-5-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
5	83001-CEL-4-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
6	83001-CEL-5-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
7	83001-CEL-1-N	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
8	83001-CEL-2-N	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
9	83001-CEL-3-N	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300

L-450-101-LVT-030



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	P-EJB-200N1-04-L3-01	Normal Lighting – Stairs	DP-200N1	EJB-200N1-04-L3-01	POWER CABLE	P4	3G4
2	P-ESO-200N1-05-L1-01	Small Power Socket (Upper Deck)	DP-200N1	EJB-200N1-05-L1-01	POWER CABLE	P4	3G10
3	P-ESO-200N1-06-L2-01	Small Power Socket (Lower Deck)	DP-200N1	EJB-200N1-06-L2-01	POWER CABLE	P4	3G10
4	P-ETB-200N1-20-L1-01	TRACE HEATING – PROCESS LINES – FEEDER 7 (SEA WATER PUMPS)	DP-200N1	ETB-200N1-19-L3-01	POWER CABLE	P7	3G6
5	P-ETB-200N1-18-L2-01	TRACE HEATING – PROCESS LINES – FEEDER 5 (VESSEL KO DRUM)	DP-200N1	ETB-200N1-18-L2-01	POWER CABLE	P4	3G6
6	P-EJB-200N1-09-L2-01	Emergency Lighting Lower Deck – Circuit No. 1	DP-200N1	EJB-200N1-09-L2-01	POWER CABLE	P4	4G4_E
7	P-ETB-200N1-19-L3-01	TRACE HEATING – PROCESS LINES – FEEDER 6 (H2 VENT)	DP-200N1	ETB-200N1-20-L1-01	POWER CABLE	P7	3G6
8	83104-CEL	SIS –Controller and I/O Cabinet – Auxiliary	DP-200N1	B400-SIS-001	POWER CABLE	P4	3G2.5
9	83105-CEL	PCS –Controller and I/O Cabinet – Auxiliary	DP-200N1	B400-PCS-001	POWER CABLE	P4	3G2.5
10	83106-CEL	EMCS –Controller and I/O Cabinet – Auxiliary	DP-200N1	B400-EMCS-001	POWER CABLE	P4	3G2.5
11	83107-CEL	FGS Fire & Gas Panel – Auxiliary	DP-200N1	B400-FGS-001	POWER CABLE	P4	3G2.5
12	83108-CEL	System Server / Network Cabinet – Auxiliary	DP-200N1	B400-NET-001	POWER CABLE	P4	3G2.5
13	83109-CEL	Server cabiner ITER – Auxiliary	DP-200N1	B400-SRV-001	POWER CABLE	P4	3G2.5
14	83110-CEL	UCP – Instrument Air Package –A–63000 – Auxiliary	DP-200N1	CP-630E1	POWER CABLE	P4	3G2.5
15	83111-CEL	UCP – N2 Package – Auxiliary	DP-200N1	CP-640E1	POWER CABLE	P4	3G2.5
16	83117-CEL	Auxiliary Trafo SOLAR 0,5MVA	DP-200N1	CP-200E2	POWER CABLE	P4	3G2.5
17	83118-CEL	Auxiliary GIS	DP-200N1	CP-100E1	POWER CABLE	P4	3G6
18	83119-CEL	Auxiliary 6.6kV Switchboard	DP-200N1	SG-100D1	POWER CABLE	P4	3G2.5
19	83043-CEL	DB – Lighting & Small Power – BoP	SG-200N1	DP-200N1	POWER CABLE	P4	5G50
20	P-EJB-200N1-10-L3-01	Emergency Lighting Stairs	DP-200N1	EJB-200N1-10-L3-01	POWER CABLE	P4	4G4_E
21	P-EJB-200N1-17-L1-01	TRACE HEATING – PROCESS LINES – FEEDER 4 (WW LINES) Cold JB	DP-200N1	EJB-200N1-17-L1-01	POWER CABLE	P4	3G6
22	P-EJB-200N1-02-L1-01	Normal Lighting Upper Deck	DP-200N1	EJB-200N1-02-L1-01	POWER CABLE	P4	3G4
23	P-EJB-200N1-08-L1-04	Emergency Lighting Upper Deck	DP-200N1	EJB-200N1-08-L1-04	POWER CABLE	P4	4G4_E
24	P-EJB-200N1-14-L1-01	TRACE HEATING – PROCESS LINES – FEEDER 1 (SWS LINES) Cold JB	DP-200N1	EJB-200N1-14-L1-01	POWER CABLE	P4	3G6
25	P-EJB-200N1-15-L2-01	TRACE HEATING – PROCESS LINES – FEEDER 2 (CI LINES) Cold JB	DP-200N1	EJB-200N1-15-L2-01	POWER CABLE	P4	3G6
26	P-ETB-200N1-16-L3-01	TRACE HEATING – PROCESS LINES – FEEDER 3 (DM LINE)	DP-200N1	ETB-200N1-16-L3-01	POWER CABLE	P4	3G6
27	83112-CEL	Auxiliary Trafo OLTC	DP-200N1	CP-100E2	POWER CABLE	P4	5G4
28	83113-CEL	Auxiliary Trafo AVR	DP-200N1	CP-100E3	POWER CABLE	P4	3G2.5
29	83114-CEL	Auxiliary Trafo 7MVA	DP-200N1	CP-100E4	POWER CABLE	P4	3G2.5
30	83115-CEL	Auxiliary NER	DP-200N1	RR-100D1	POWER CABLE	P4	3G2.5
31	83116-CEL	Auxiliary Trafo 1,6MVA	DP-200N1	CP-200E1	POWER CABLE	P4	3G2.5
32	83120-CEL	Auxiliary LV	DP-200N1	SG-200N1	POWER CABLE	P4	3G2.5
33	83121-CEL	Auxiliary LV SWBD 800/460V	DP-200N1	SG-200D2	POWER CABLE	P4	3G2.5
34	P-EJB-200N1-03-L2-01	Normal Lighting Lower Deck – Circuit No. 1	DP-200N1	EJB-200N1-03-L2-01	POWER CABLE	P4	3G4
35	83122-CEL	AC UPS PAS AUXILIARY	DP-200N1	UP-200F3	POWER CABLE	P4	3G2.5
36	83123-CEL	AC UPS F&G AUXILIARY	DP-200N1	UP-200F4	POWER CABLE	P4	3G2.5
37	83124-CEL	DC BATTERY SYSTEM AUXILIARY	DP-200N1	UP-200F1	POWER CABLE	P4	3G2.5
38	P-EPH-200N1-01	Twilight Relay Sensor	DP-200N1	EPH-200N1-01	POWER CABLE	P5	3G4
39	83125-CEC	LV Switchgear	DP-200N1	SG-200N1	CONTROL CABLE	P7	7C X 1.5
40	83126-CEC	LV Switchgear	DP-200N1	SG-200N1	CONTROL CABLE	P7	7C X 1.5
41	83127-CEC	LV Switchgear	DP-200N1	SG-200N1	CONTROL CABLE	P7	7C X 1.5

01



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S. (EL+23.310m)

CABLE TYPE DETAILS

P3 - SINGLE CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P4 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZHOUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P5 - MULTI CORE, 0.6/1 KV, FIRE RESISTANT, STRANDED COPPER, MICA/GLASS TAPE, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, GALVANIZED STEEL WIRE BRAID ARMOURED CABLE, FLAME RETARDANT
P7 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P8 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, COPPER WIRE BRAID SCREEN, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
C1- SPECIAL SIGNAL CABLE MULTI CORE, STRANDED COPPER, XLPE INSULATION, TIN CU BRAIDED SCREEN PUR JACKET, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
C2- SINGLE CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, STRANDED COPPER, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT

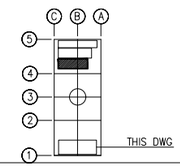
LEGEND

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20112**

REV.:	DATE:	SIGNATURE:
1_B	02/09/24	G.Randi

ROSETTI MARINO SpA

KEY PLAN



REFERENCE DOCUMENTS

123A90-DDL-EL-DD-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE
123A90-DDL-EL-DL-20105	ELECTRICAL EQUIPMENT LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DL-20123	LIGHTING & SOCKET LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DD-20095	MCT COMPOSITION
1724000049-EL-LIS-00044	B-200 ELECTRICAL COMPONENTS LIST AND DS - E&I SHELTERS
123A90-DDL-EL-DL-20115	ELECTRICAL MCT LAYOUT - LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	SAM	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	18/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

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

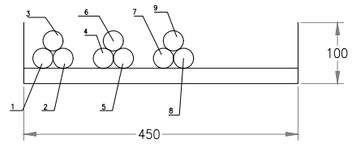
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:50
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 02/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20112	SHEET 6of11	REV. 01

File Name : 123A90-DDL-EL-DL-20112

DRAWING NO. 123A90-DDL-EL-DL-20112 REV. 01

L-450-101-LVT-021 VIA E-MCT-205

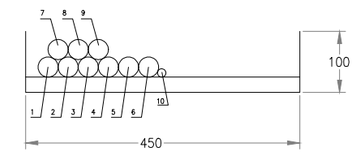
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POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83001-CEL-1-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
2	83001-CEL-2-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
3	83001-CEL-3-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
4	83001-CEL-1-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
5	83001-CEL-2-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
6	83001-CEL-3-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
7	83001-CEL-1-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
8	83001-CEL-2-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
9	83001-CEL-3-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300

L-450-101-LVT-021 VIA E-MCT-206

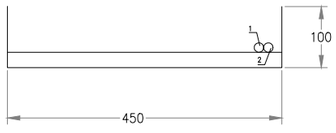
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POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83001-CEL-4-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
2	83001-CEL-5-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
3	83001-CEL-4-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
4	83001-CEL-5-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
5	83001-CEL-4-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
6	83001-CEL-5-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
7	83001-CEL-1-N	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
8	83001-CEL-2-N	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
9	83001-CEL-3-N	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300

L-450-101-LVT-021 VIA E-MCT-203

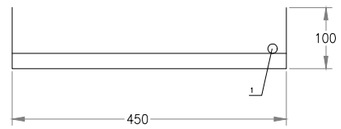
01



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83005-CEC	6.6KV HV Switchgear	SG-200N1	SG-100D1	CONTROL CABLE	P7	7C X 1.5
2	83006-CEC	6.6KV HV Switchgear	SG-200N1	SG-100D1	CONTROL CABLE	P7	7C X 1.5

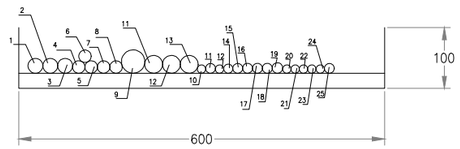
L-450-101-LVT-021 VIA E-MCT-201

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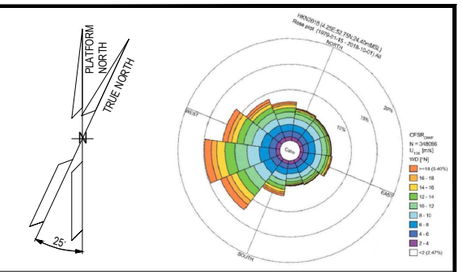
POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	82013-CEC	LV Switchgear	SG-100D1	SG-200N1	CONTROL CABLE	P7	7C X 1.5

B 102 (L-600-101-LVT-019)



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POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83020-CEL	Crane	SG-200N1	JB-200E3	POWER CABLE	P4	5G16
2	83025-CEL	HVAC panel – UPS Room	SG-200N1	B300-HSB-001	POWER CABLE	P4	5G16
3	83026-CEL	HVAC panel – ITER	SG-200N1	B400-HSB-001	POWER CABLE	P4	5G16
4	83010-CEL-L1	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
5	83010-CEL-L2	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
6	83010-CEL-L3	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
7	83010-CEL-N	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
8	83010-CEL-PE	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P6	1C X 95
9	83021-CEL-01	Welding Sockets (Top Deck) JB's	SG-200N1	JB-200E6	POWER CABLE	P4	5G50
10	84318-CEL	LV Switchboard Auxiliary	DP-200F3	SG-200N1	POWER CABLE	P5	3G2.5
11	83029-CEL	AC UPS PAS – 30min – Line B	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
12	83030-CEL	AC UPS PAS – 30min – Bypass	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
13	83031-CEL	AC UPS F&G – 8h – Line A	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
14	P-EJB-200N1-02-L1-01	Normal Lighting Upper Deck	DP-200N1	EJB-200N1-02-L1-01	POWER CABLE	P4	3G4
15	P-EJB-200N1-08-L1-04	Emergency Lighting Upper Deck	DP-200N1	EJB-200N1-08-L1-04	POWER CABLE	P4	4G4_E
16	P-EJB-200N1-14-L1-01	TRACE HEATING – PROCESS LINES – FEEDER 1 (SWS LINES) Cold JB	DP-200N1	EJB-200N1-14-L1-01	POWER CABLE	P4	3G6
17	P-EJB-200N1-15-L2-01	TRACE HEATING – PROCESS LINES – FEEDER 2 (CI LINES) Cold JB	DP-200N1	EJB-200N1-15-L2-01	POWER CABLE	P4	3G6
18	P-ETB-200N1-16-L3-01	TRACE HEATING – PROCESS LINES – FEEDER 3 (DM LINE)	DP-200N1	ETB-200N1-16-L3-01	POWER CABLE	P4	3G6
19	83112-CEL	Auxiliary Trafo OLTC	DP-200N1	CP-100E2	POWER CABLE	P4	5G4
20	83113-CEL	Auxiliary Trafo AVR	DP-200N1	CP-100E3	POWER CABLE	P4	3G2.5
21	83114-CEL	Auxiliary Trafo 7MVA	DP-200N1	CP-100E4	POWER CABLE	P4	3G2.5
22	83115-CEL	Auxiliary NER	DP-200N1	RR-100D1	POWER CABLE	P4	3G2.5
23	83116-CEL	Auxiliary Trafo 1,6MVA	DP-200N1	CP-200E1	POWER CABLE	P4	3G2.5
24	83124-CEL	DC BATTERY SYSTEM AUXILIARY	DP-200N1	UP-200F1	POWER CABLE	P4	3G2.5
25	P-EJB-200N1-10-L3-01	Emergency Lighting stairs	DP-200N1	EJB-200N1-10-L3-01	POWER CABLE	P4	4G4_E



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S. (EL+23.310m)

CABLE TYPE DETAILS

P3 - SINGLE CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P4 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZHOUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P5 - MULTI CORE, 0.6/1 KV, FIRE RESISTANT, STRANDED COPPER, MICA/GLASS TAPE, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, GALVANIZED STEEL WIRE BRAID ARMOURED CABLE, FLAME RETARDANT
P7 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P8 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, COPPER WIRE BRAID SCREEN, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
C1- SPECIAL SIGNAL CABLE MULTI CORE, STRANDED COPPER, XLPE INSULATION, TIN CU BRAIDED SCREEN PUR JACKET, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
C2- SINGLE CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, STRANDED COPPER, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT

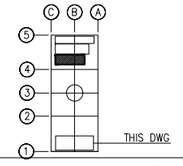
LEGEND

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20112**

REV.:	DATE:	SIGNATURE:
1_B	02/09/24	G.Randi

ROSETTI MARINO SpA

KEY PLAN



REFERENCE DOCUMENTS

123A90-DDL-EL-DD-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE
123A90-DDL-EL-DL-20105	ELECTRICAL EQUIPMENT LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DL-20123	LIGHTING & SOCKET LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DD-20095	MCT COMPOSITION
1724000049-EL-LIS-00044	B-200 ELECTRICAL COMPONENTS LIST AND DS - E&I SHELTERS
123A90-DDL-EL-DL-20115	ELECTRICAL MCT LAYOUT - LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	SAM	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	18/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

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

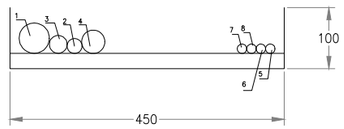
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:50
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 02/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20112	SHEET 7of11	REV. 01

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DRAWING NO. 123A90-DDL-EL-DL-20112

REV. 01

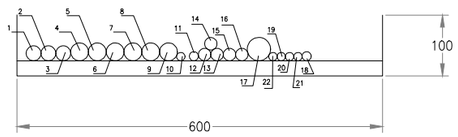
L-450-101-LVT-024



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83016-CEL	Water Package	SG-200N1	JB-500E8	POWER CABLE	P4	5G70
2	83020-CEL	Crane	SG-200N1	JB-200E3	POWER CABLE	P4	5G16
3	83030-CEL	AC UPS PAS - 30min - Bypass	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
4	83043-CEL	DB - Lighting & Small Power - BoP	SG-200N1	DP-200N1	POWER CABLE	P4	5G50
5	83016-CEC	LV Switchgear	SG-200D2	SG-200N1	CONTROL CABLE	P7	7C X 1.5
6	83125-CEC	LV Switchgear	DP-200N1	SG-200N1	CONTROL CABLE	P7	7C X 1.5
7	83126-CEC	LV Switchgear	DP-200N1	SG-200N1	CONTROL CABLE	P7	7C X 1.5
8	83127-CEC	LV Switchgear	DP-200N1	SG-200N1	CONTROL CABLE	P7	7C X 1.5

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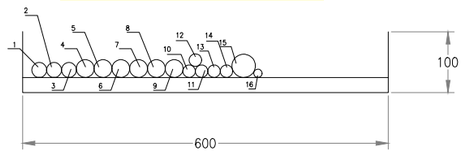
L-600-101-LVT-020 VIA-E-MCT-204



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83020-CEL	Crane	SG-200N1	JB-200E3	POWER CABLE	P4	5G16
2	83025-CEL	HVAC panel - UPS Room	SG-200N1	B300-HSB-001	POWER CABLE	P4	5G16
3	83026-CEL	HVAC panel - ITER	SG-200N1	B400-HSB-001	POWER CABLE	P4	5G16
4	83028-CEL	AC UPS PAS - 30min - Line A	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
5	83029-CEL	AC UPS PAS - 30min - Line B	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
6	83030-CEL	AC UPS PAS - 30min - Bypass	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
7	83031-CEL	AC UPS F&G - 8h - Line A	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
8	83032-CEL	AC UPS F&G - 8h - Line B	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
9	83033-CEL	AC UPS F&G - 8h - Line Bypass	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
10	84315-CEL	UCP - HVAC LV Room	DP-200F3	B200-HSB-001	POWER CABLE	P5	3G2.5
11	P-EJB-200N1-03-L2-01	Normal Lighting Lower Deck - Circuit No. 1	DP-200N1	EJB-200N1-03-L2-01	POWER CABLE	P4	3G4
12	83010-CEL-L1	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
13	83010-CEL-L2	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
14	83010-CEL-L3	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
15	83010-CEL-N	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
16	83010-CEL-PE	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P6	1C X 95
17	83021-CEL-01	Welding Sockets (Top Deck) JB's	SG-200N1	JB-200E6	POWER CABLE	P4	5G50
18	P-EPH-200N1-01	Twilight Relay Sensor	DP-200N1	EPH-200N1-01	POWER CABLE	P5	3G4
19	83123-CEL	AC UPS F&G AUXILIARY	DP-200N1	UP-200F4	POWER CABLE	P4	3G2.5
20	84318-CEL	LV Switchboard Auxiliary	DP-200F3	SG-200N1	POWER CABLE	P5	3G2.5
21	84319-CEL	LV SWBD 800/460V Auxiliary	DP-200F3	SG-200D2	POWER CABLE	P5	3G2.5
22	83122-CEL	AC UPS PAS AUXILIARY	DP-200N1	UP-200F3	POWER CABLE	P4	3G2.5

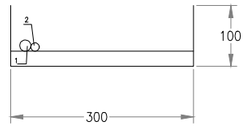
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L-600-101-LVT-017 VIA-E-MCT-204



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83020-CEL	Crane	SG-200N1	JB-200E3	POWER CABLE	P4	5G16
2	83025-CEL	DISTRIBUTION & HVAC panels - UPS Room	SG-200N1	B300-HSB-001	POWER CABLE	P4	5G16
3	83026-CEL	DISTRIBUTION & HVAC panels - ITER	SG-200N1	B400-HSB-001	POWER CABLE	P4	5G16
4	83028-CEL	AC UPS PAS - 30min - Line A	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
5	83029-CEL	AC UPS PAS - 30min - Line B	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
6	83030-CEL	AC UPS PAS - 30min - Bypass	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
7	83031-CEL	AC UPS F&G - 8h - Line A	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
8	83032-CEL	AC UPS F&G - 8h - Line B	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
9	83033-CEL	AC UPS F&G - 8h - Line Bypass	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
10	83010-CEL-L1	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
11	83010-CEL-L2	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
12	83010-CEL-L3	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
13	83010-CEL-N	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
14	83010-CEL-PE	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P6	1C X 95
15	83021-CEL-01	Welding Sockets (Top Deck)	SG-200N1	JB-200E6	POWER CABLE	P4	5G50
16	84318-CEL	LV Switchboard Auxiliary	DP-200F3	SG-200N1	POWER CABLE	P5	3G2.5

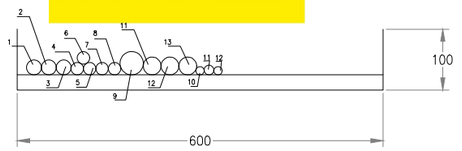
L-300-101-LVT-033



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	84315-CEL	UCP - HVAC LV Room	DP-200F3	B200-HSB-001	POWER CABLE	P5	3G2.5
2	83024-CEL	DISTRIBUTION & HVAC Panel - LV Room	SG-200N1	B200-HSB-001	POWER CABLE	P4	5G16

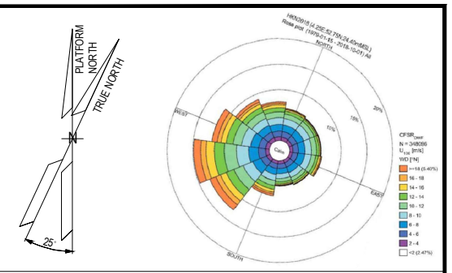
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L-600-101-LVT-019 VIA-E-MCT-204



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83020-CEL	Crane	SG-200N1	JB-200E3	POWER CABLE	P4	5G16
2	83025-CEL	HVAC panel - UPS Room	SG-200N1	B300-HSB-001	POWER CABLE	P4	5G16
3	83026-CEL	HVAC panel - ITER	SG-200N1	B400-HSB-001	POWER CABLE	P4	5G16
4	83010-CEL-L1	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
5	83010-CEL-L2	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
6	83010-CEL-L3	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
7	83010-CEL-N	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
8	83010-CEL-PE	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P6	1C X 95
9	83021-CEL-01	Welding Sockets (Top Deck) JB's	SG-200N1	JB-200E6	POWER CABLE	P4	5G50
10	84318-CEL	LV Switchboard Auxiliary	DP-200F3	SG-200N1	POWER CABLE	P5	3G2.5
11	83029-CEL	AC UPS PAS - 30min - Line B	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
12	83030-CEL	AC UPS PAS - 30min - Bypass	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
13	83031-CEL	AC UPS F&G - 8h - Line A	SG-200N1	UP-200F4	POWER CABLE	P4	4G35

01



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S. (EL+23.310m)

CABLE TYPE DETAILS

P3 - SINGLE CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P4 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZHOUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P5 - MULTI CORE, 0.6/1 KV, FIRE RESISTANT, STRANDED COPPER, MICA/GLASS TAPE, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, GALVANIZED STEEL WIRE BRAID ARMOURED CABLE, FLAME RETARDANT
P7 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P8 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, COPPER WIRE BRAID SCREEN, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
C1- SPECIAL SIGNAL CABLE MULTI CORE, STRANDED COPPER, XLPE INSULATION, TIN CU BRAIDED SCREEN PUR JACKET, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
C2- SINGLE CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, STRANDED COPPER, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT

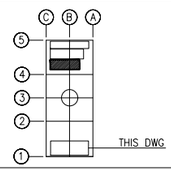
LEGEND

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20112**

REV.:	DATE:	SIGNATURE:
1_B	02/09/24	G.Randi

ROSETTI MARINO SpA

KEY PLAN



REFERENCE DOCUMENTS

123A90-DDL-EL-DD-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE
123A90-DDL-EL-DL-20105	ELECTRICAL EQUIPMENT LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DL-20123	LIGHTING & SOCKET LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DD-20095	MCT COMPOSITION
1724000049-EL-LIS-00044	B-200 ELECTRICAL COMPONENTS LIST AND DS - E&I SHELTERS
123A90-DDL-EL-DL-20115	ELECTRICAL MCT LAYOUT - LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	SAM	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	18/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

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

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:50
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 02/08/24

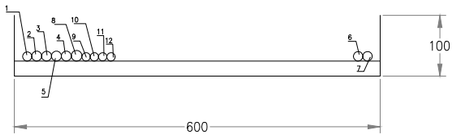
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A1	123A90-DDL-EL-DL-20112	8of11	01

File Name : 123A90-DDL-EL-DL-20112

DRAWING NO. 123A90-DDL-EL-DL-20112

REV. 01

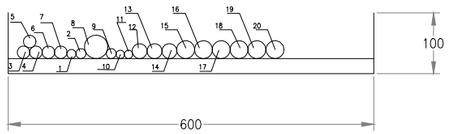
L-600-101-LVT-017 VIA-E-MCT-203



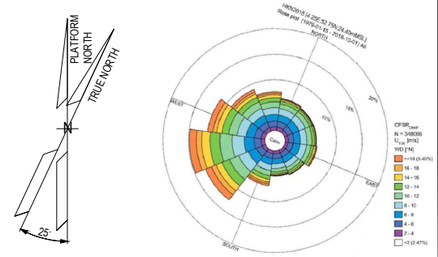
POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	P-EJB-200N1-02-L1-01	Normal Lighting Upper Deck	DP-200N1	EJB-200N1-02-L1-01	POWER CABLE	P4	3G4
2	P-ETB-200N1-16-L3-01	TRACE HEATING - PROCESS LINES - FEEDER 3 (DM LINE)	DP-200N1	ETB-200N1-16-L3-01	POWER CABLE	P4	3G6
3	P-EJB-200N1-08-L1-04	Emergency Lighting Upper Deck	DP-200N1	EJB-200N1-08-L1-04	POWER CABLE	P4	4G4_E
4	P-EJB-200N1-14-L1-01	TRACE HEATING - PROCESS LINES - FEEDER 1 (SWS LINES) Cold JB	DP-200N1	EJB-200N1-14-L1-01	POWER CABLE	P4	3G6
5	P-EJB-200N1-15-L2-01	TRACE HEATING - PROCESS LINES - FEEDER 2 (CI LINES) Cold JB	DP-200N1	EJB-200N1-15-L2-01	POWER CABLE	P4	3G6
6	83005-CEC	6.6KV HV Switchgear	SG-200N1	SG-100D1	CONTROL CABLE	P7	7C X 1.5
7	83006-CEC	6.6KV HV Switchgear	SG-200N1	SG-100D1	CONTROL CABLE	P7	7C X 1.5
8	83112-CEL	Auxiliary Trafo OLTC	DP-200N1	CP-100E2	POWER CABLE	P4	5G4
9	83113-CEL	Auxiliary Trafo AVR	DP-200N1	CP-100E3	POWER CABLE	P4	3G2.5
10	83114-CEL	Auxiliary Trafo 7MVA	DP-200N1	CP-100E4	POWER CABLE	P4	3G2.5
11	83115-CEL	Auxiliary NER	DP-200N1	RR-100D1	POWER CABLE	P4	3G2.5
12	83116-CEL	Auxiliary Trafo 1,6MVA	DP-200N1	CP-200E1	POWER CABLE	P4	3G2.5

01

B 107 (L-600-101-LVT-020)



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	P-EJB-200N1-03-L2-01	Normal Lighting Lower Deck - Circuit No. 1	DP-200N1	EJB-200N1-03-L2-01	POWER CABLE	P4	3G4
2	P-ETB-200N1-16-L3-01	TRACE HEATING - PROCESS LINES - FEEDER 3 (DM LINE)	DP-200N1	ETB-200N1-16-L3-01	POWER CABLE	P4	3G6
3	83010-CEL-L1	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
4	83010-CEL-L2	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
5	83010-CEL-L3	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
6	83010-CEL-N	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P3	1C X 95
7	83010-CEL-PE	Temporary Generator / Mobile Battery Pack	SG-200N1	JB-200E2	POWER CABLE	P6	1C X 95
8	83021-CEL-01	Welding Sockets (Top Deck) JB's	SG-200N1	JB-200E6/ JB-200E7	POWER CABLE	P4	5G50
9	P-ETB-200N1-15-L2-01	Trace Heating - Process Lines - Feeder 2	DP-200N1	ETB-200N1-15-L2-01	POWER CABLE	P4	3G6
10	83122-CEL	AC UPS PAS AUXILIARY	DP-200N1	UP-200F3	POWER CABLE	P4	3G2.5
11	83123-CEL	AC UPS F&G AUXILIARY	DP-200N1	UP-200F4	POWER CABLE	P4	3G2.5
12	83020-CEL	Crane	SG-200N1	JB-200E3	POWER CABLE	P4	5G16
13	83025-CEL	DISTRIBUTION & HVAC panel - UPS Room	SG-200N1	B300-HSB-001	POWER CABLE	P4	5G16
14	83026-CEL	DISTRIBUTION & HVAC panel - ITER	SG-200N1	B400-HSB-001	POWER CABLE	P4	5G16
15	83028-CEL	AC UPS PAS - 30min - Line A	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
16	83029-CEL	AC UPS PAS - 30min - Line B	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
17	83030-CEL	AC UPS PAS - 30min - Bypass	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
18	83031-CEL	AC UPS F&G - 8h - Line A	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
19	83032-CEL	AC UPS F&G - 8h - Line B	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
20	83033-CEL	AC UPS F&G - 8h - Line Bypass	SG-200N1	UP-200F4	POWER CABLE	P4	4G35



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S. (EL+23.310m)

CABLE TYPE DETAILS

P3 - SINGLE CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P4 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZHOUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P5 - MULTI CORE, 0.6/1 KV, FIRE RESISTANT, STRANDED COPPER, MICA/GLASS TAPE, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, GALVANIZED STEEL WIRE BRAID ARMOURED CABLE, FLAME RETARDANT
P7 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
P8 - MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, COPPER WIRE BRAID SCREEN, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
C1- SPECIAL SIGNAL CABLE MULTI CORE, STRANDED COPPER, XLPE INSULATION, TIN CU BRAIDED SCREEN PUR JACKET, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT
C2- SINGLE CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, STRANDED COPPER, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT

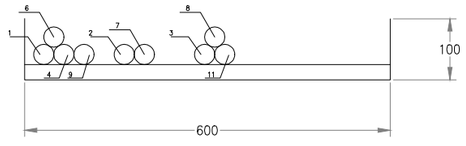
LEGEND

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20112**

REV.:	DATE:	SIGNATURE:
1_B	02/09/24	G.Randi

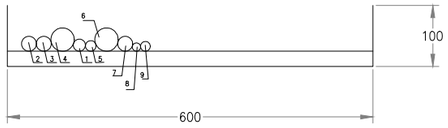
ROSETTI MARINO SpA

L-600-101-LVT-016 VIA-E-MCT-205

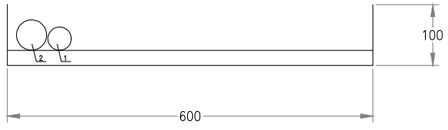


POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83001-CEL-1-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
2	83001-CEL-2-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
3	83001-CEL-3-L1	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
4	83001-CEL-1-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
6	83001-CEL-1-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
7	83001-CEL-2-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
8	83001-CEL-3-L2	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
9	83001-CEL-2-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300
11	83001-CEL-3-L3	LV Switchgear	TR-200DE1	SG-200N1	POWER CABLE	P3	1C X 300

B103 (L-600-101-LVT-017)



B103 (L-600-101-LVT-016)



B103 (L-600-101-LVT-017)

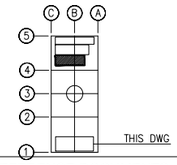
POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83011-CEL	BESS PCS Cabinet	SG-200N1	CP-850F3	POWER CABLE	P4	4C X 10
2	83025-CEL	DISTRIBUTION & HVAC panel - UPS Room	SG-200N1	B300-HSB-001	POWER CABLE	P4	5G16
3	83026-CEL	DISTRIBUTION & HVAC panel - ITER	SG-200N1	B400-HSB-001	POWER CABLE	P4	5G16
4	83043-CEL	DB - Lighting & Small Power - BoP	SG-200N1	DP-200N1	POWER CABLE	P4	5G50
5	82013-CEC	LV Switchgear	SG-100D1	SG-200N1	CONTROL CABLE	P7	7C X 1.5
6	83021-CEL-01	Welding Sockets (Top Deck) JB's	SG-200N1	JB-200E6/ JB-200E7	POWER CABLE	P4	5G50
7	83023-CEL	DISTRIBUTION & HVAC Panel - HV Room	SG-200N1	B100-HSB-001	POWER CABLE	P4	5G16
8	83124-CEL	DC BATTERY SYSTEM AUXILIARY	DP-200N1	UP-200F1	POWER CABLE	P4	3G2.5
9	P-EJB-200N1-10-L3-01	Emergency Lighting stairs	DP-200N1	EJB-200N1-10-L3-01	POWER CABLE	P4	4G4_E

B103 (L-600-101-LVT-016)

01

POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83022-CEL-01	Welding Sockets (Lower Deck)	SG-200N1	JB-200E4	POWER CABLE	P4	5G50
2	83017-CEL-1	Instrument Air Package	SG-200N1	K-63001A	POWER CABLE	P4	5G70

KEY PLAN



REFERENCE DOCUMENTS

123A90-DDL-EL-DD-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE
123A90-DDL-EL-DL-20105	ELECTRICAL EQUIPMENT LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DL-20123	LIGHTING & SOCKET LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DD-20095	MCT COMPOSITION
1724000049-EL-LIS-00044	B-200 ELECTRICAL COMPONENTS LIST AND DS - E&I SHELTERS
123A90-DDL-EL-DL-20115	ELECTRICAL MCT LAYOUT - LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/08/24	SAM	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	18/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

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

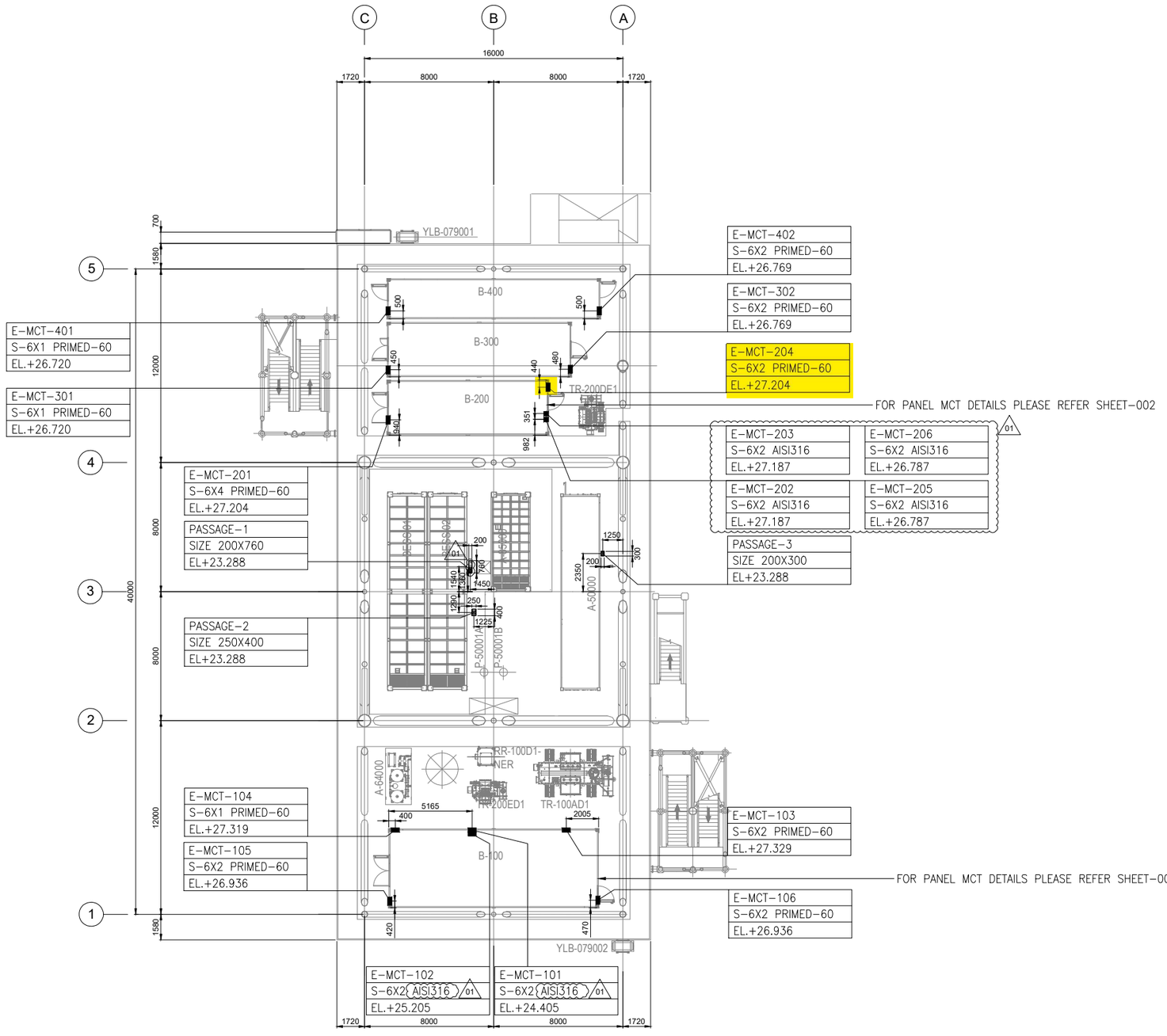
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DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 02/08/24

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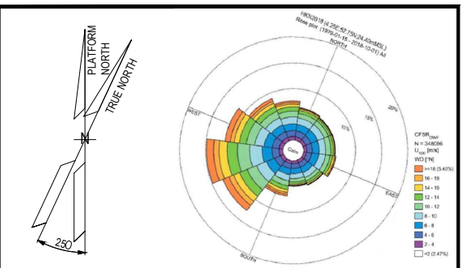
File Name : 123A90-DDL-EL-DL-20112

DRAWING NO. 123A90-DDL-EL-DL-20115

REV. 01



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



NOTES

GENERAL NOTES:

1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. ALL ELEVATIONS RELATE TO LOWEST ASTRONOMICAL TIDE (LAT) = 0.000.

NOTES:

1. THIS DOCUMENT IS VALID FOR TAGGING, SIZE AND LOCATION OF THE MCT.

LEGEND

LEGEND MCT FRAME

S 6X1 (FOR E-MCT-104) 160.6 208 ELEVATION

S 6X1 (FOR E-MCT-301, E-MCT-401) 01 01 238 ELEVATION

S 6X2 271 208 ELEVATION

LEGEND PASSAGE FRAME W H ELEVATION

S 6X3 401.5 208 ELEVATION

S 6X4 532 208 ELEVATION

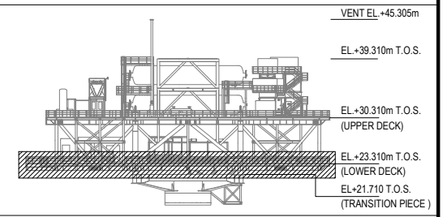
	HEIGHT in mm	WIDTH in mm
PASSAGE-1	100	300
PASSAGE-2	150	200
PASSAGE-3	100	200

MULTI CABLE TRANSIT

PASSAGE

TAG — TAGGING
SIZE-MATERIAL-DEPTH — TYPICAL
EL. — ELEVATION

KEY PLAN



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-20095	MCT COMPOSITION
123A90-DDL-EL-DL-20114	ELECTRICAL MCT LAYOUT-TOP DECK
123A90-DDL-EL-DL-20116	ELECTRICAL MCT LAYOUT- BELOW LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	23/07/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	12/04/24	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

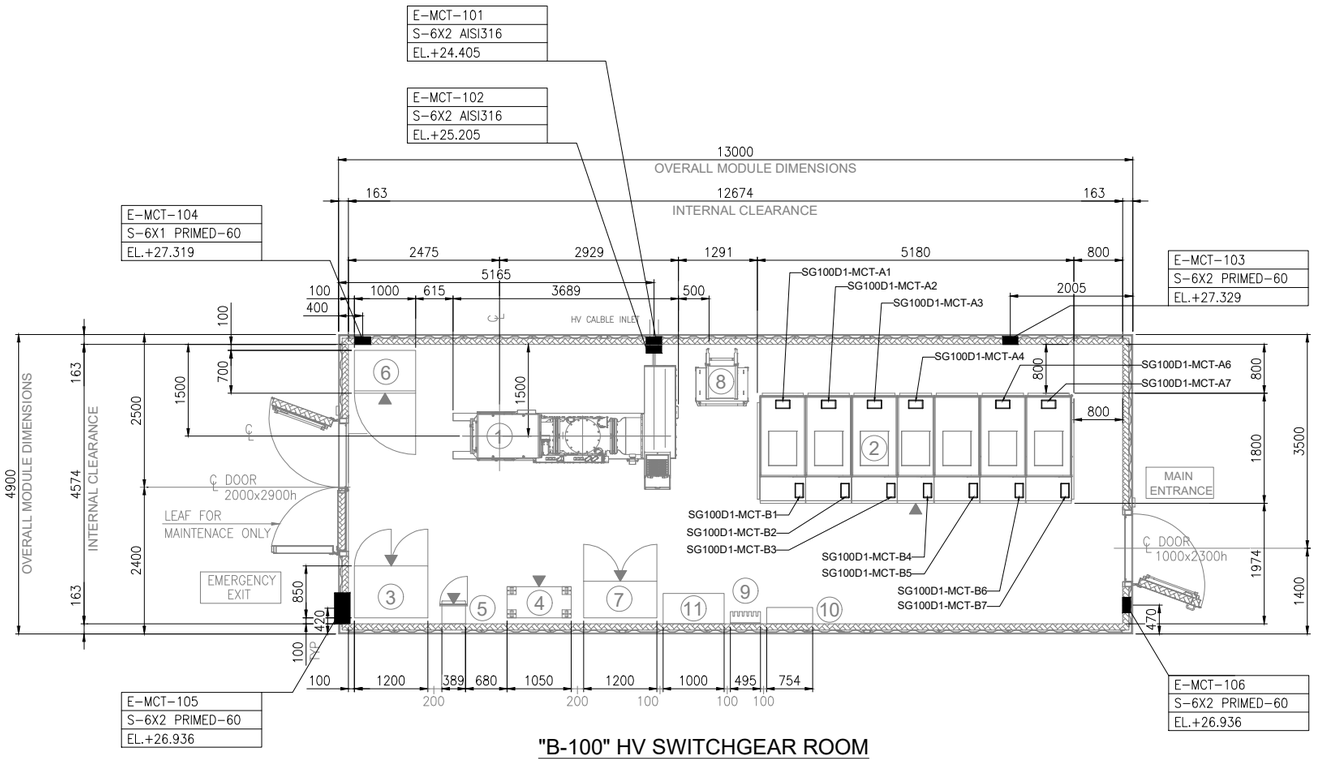
CROSSWIND | ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
ELECTRICAL MCT LAYOUT
LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN SPS	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 18/07/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20115	SHEET 001	REV. 01

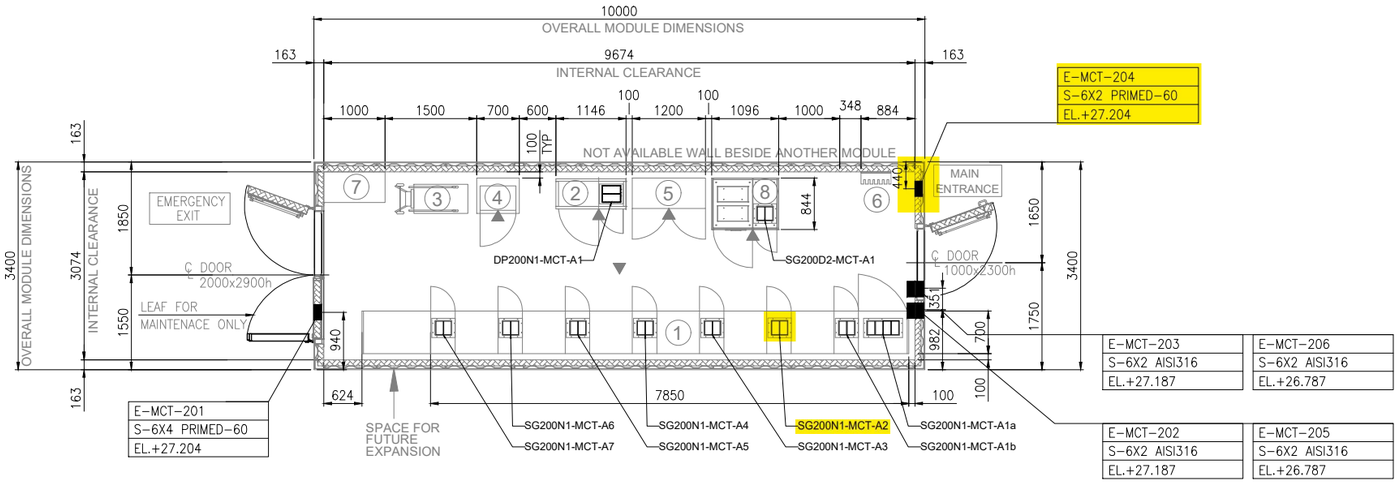
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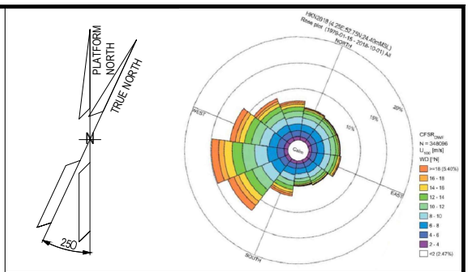
"B-100" HV SWITCHGEAR ROOM

SG-100D1 – 6.6KV SWITCHGEAR MCT (NOTE-2)	
SG100D1-MCT-A1	S 6X1 PRIMED
SG100D1-MCT-A2	S 6X1 PRIMED
SG100D1-MCT-A3	S 6X1 PRIMED
SG100D1-MCT-A4	S 6X1 PRIMED
SG100D1-MCT-A6	S 6X1 PRIMED
SG100D1-MCT-A7	S 6X1 PRIMED
SG100D1-MCT-B1	S 6X1 PRIMED
SG100D1-MCT-B2	S 6X1 PRIMED
SG100D1-MCT-B3	S 6X1 PRIMED
SG100D1-MCT-B4	S 6X1 PRIMED
SG100D1-MCT-B5	S 6X1 PRIMED
SG100D1-MCT-B6	S 6X1 PRIMED
SG100D1-MCT-B7	S 6X1 PRIMED



"B-200" LV SWITCHGEAR ROOM

SG-200N1 – LV SWITCHGEAR MCT (NOTE-2)	
SG200N1-MCT-A1a	S 6X4 PRIMED
SG200N1-MCT-A1b	S 6X2 PRIMED
SG200N1-MCT-A2	S 6X2 PRIMED
SG200N1-MCT-A3	S 6X2 PRIMED
SG200N1-MCT-A4	S 6X2 PRIMED
SG200N1-MCT-A5	S 6X2 PRIMED
SG200N1-MCT-A6	S 6X2 PRIMED
SG200N1-MCT-A7	S 6X2 PRIMED
DP-200N1 – DB BOP MCT (NOTE-2)	
DP200N1-MCT-A1	S 8X2 PRIMED
SG-200D2 – SOLAR ACB MCT (NOTE-2)	
SG200D2-MCT-A1	S 6X2 PRIMED



NOTES

GENERAL NOTES:

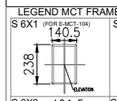
1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. ALL ELEVATIONS RELATE TO LOWEST ASTRONOMICAL TIDE (LAT) = 0.000.

NOTES:

1. THIS DOCUMENT IS VALID FOR TAGGING, SIZE AND LOCATION OF THE MCT.
2. THE MCT FRAMES ARE IN VENDOR SCOPE AND FIXED ON THE VENDOR EQUIPMENT ITEM SG-100D1,SG-200N1, DP-200N1, SG-200D2

LEGEND

LEGEND MCT FRAME



LEGEND PASSAGE FRAME

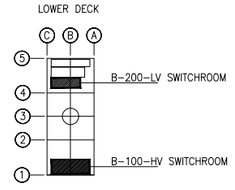


	HEIGHT in mm	WIDTH in mm
PASSAGE-1	100	300
PASSAGE-2	150	200
PASSAGE-3	100	200

MULTI CABLE TRANSIT

TAG	TAGGING
SIZE-MATERIAL-DEPTH	TYPICAL
EL.	ELEVATION

KEY PLAN



REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20104	ELECTRICAL EQUIPMENT LAYOUT - HV SWITCHROOM
123A90-DDL-EL-DL-20105	ELECTRICAL EQUIPMENT LAYOUT - LV SWITCHROOM
123A90-DDL-EL-DD-20095	MCT COMPOSITION

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	23/07/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	12/04/24	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
ELECTRICAL MCT LAYOUT
LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:50
DRAWN SPS	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 18/07/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20115	SHEET 002	REV. 01

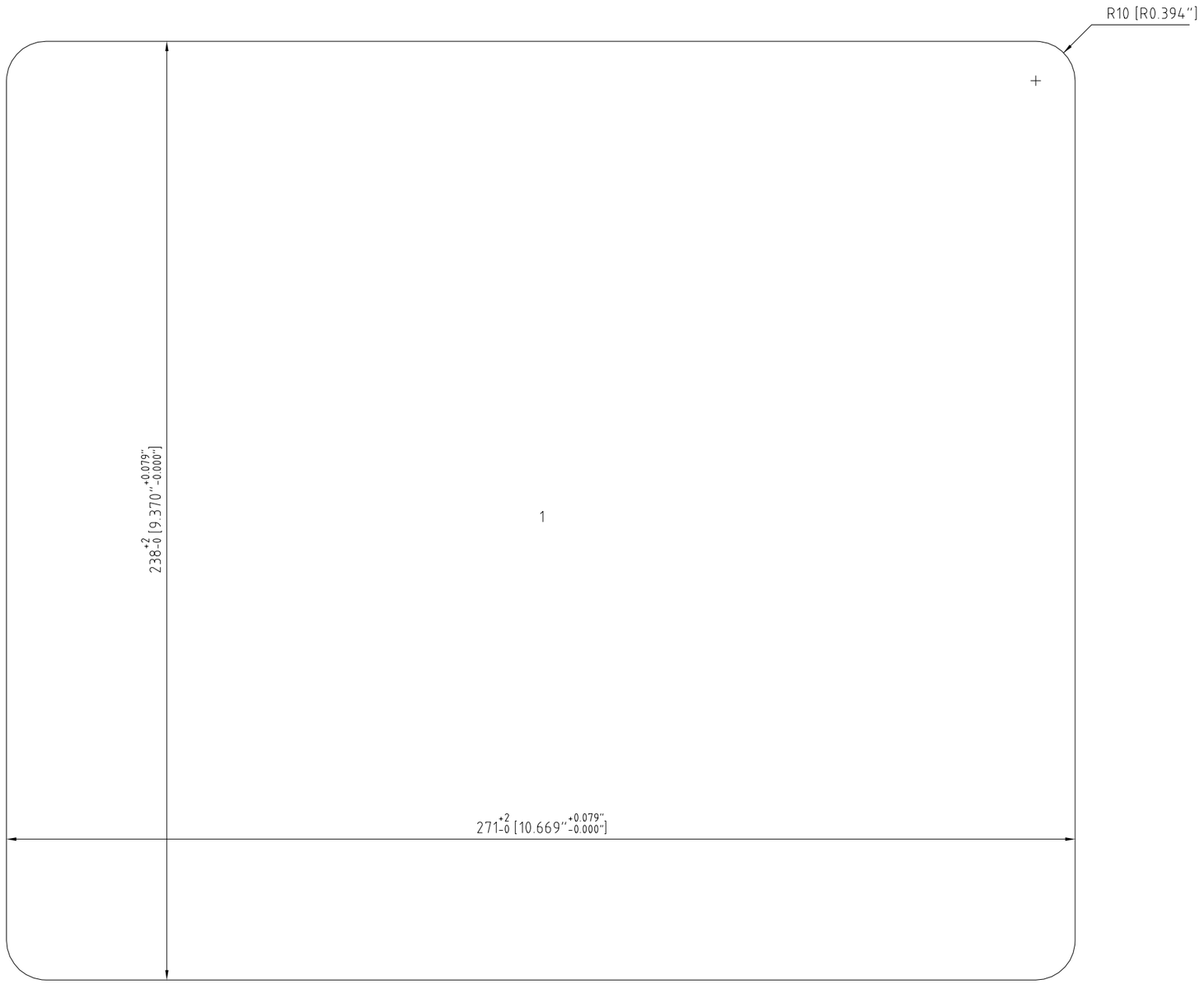
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RTD Version No: 4.37.4.0

Drawing shows component layout according to design. Verification is needed to check if the configuration is valid for the application/certification intended.

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Cutout Detail

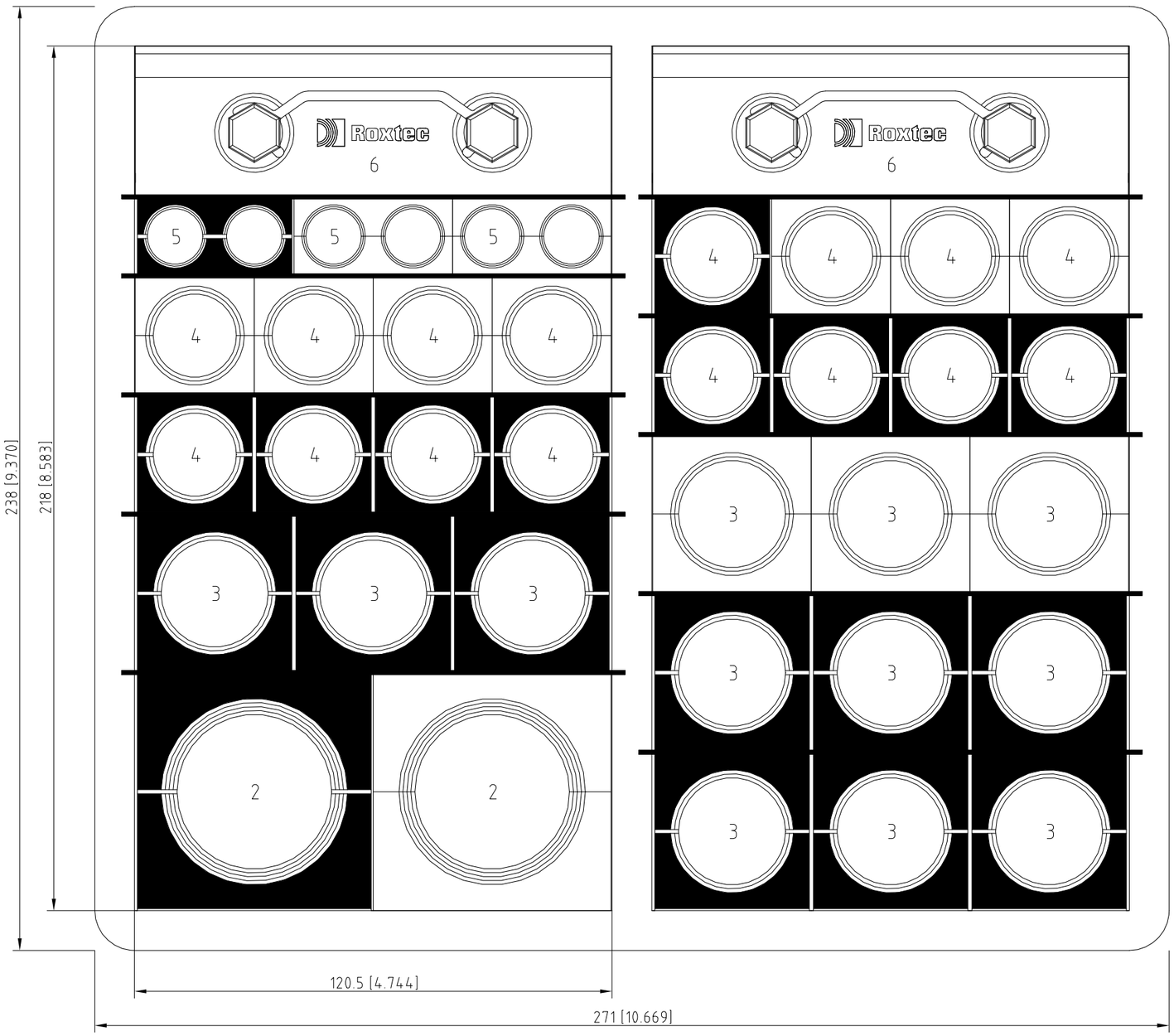
Frame: S 6x2 PRIMED Solution: 1

Item	Qty	Roxtec Packing Material mm ["]	Roxtec Art No	Weight Kg [lb]

Responsible: ARNESH	Created Date: 2024-07-10	Modify Date: 2024-07-17	Project: BLPH - ROS Location/ Sublocation	TotWeight: 12.1 [26.74]
Roxtec	Format: NTS		Transit name: E-MCT-204	Sheet No: 1/3
Client		Drawing number		Rev

RTD Version No: 4.37.4.0

CUTOUT TO FIT SOLUTION WELDING, 271x238 [10.669"x9.370"]



MODULE WITH PIPE | MODULE WITH CABLE | SPARE MODULE | SOLID MODULE

Detail Drawing

Solution: 1

Item	Qty	Roxtec Packing Material mm ["]	Roxtec Art No	Weight Kg [lb]
7	10	Stayplate 120 galv	ASP0001200018	0.1 [0.24]
6	2	Wedge 120 galv	ARW0001201018	0.8 [1.76]
5	3	RM 20W40 3.5-16.5 [0.138"-0.650"]	RM00120401000	0.1 [0.15]
4	16	RM 30 10-25 [0.394"-0.984"]	RM00100301000	0.1 [0.18]
3	12	RM 40 21.5-34.5 [0.846"-1.358"]	RM00100401000	0.1 [0.31]
2	2	RM 60 28-54 [1.102"-2.126"]	RM00100601000	0.3 [0.73]
1	1	S 6x2 PRIMED	S006000000212	5.6 [12.35]

Responsible	Created Date	Modify Date	Project	TotWeight
ARNESH	2024-07-10	2024-07-17	BLPH - ROS Location/ Sublocation	12.1 [26.74]
Roxtec	Format NTS		Transit name E-MCT-204	Sheet No 2/3
	Client	Drawing number		Rev

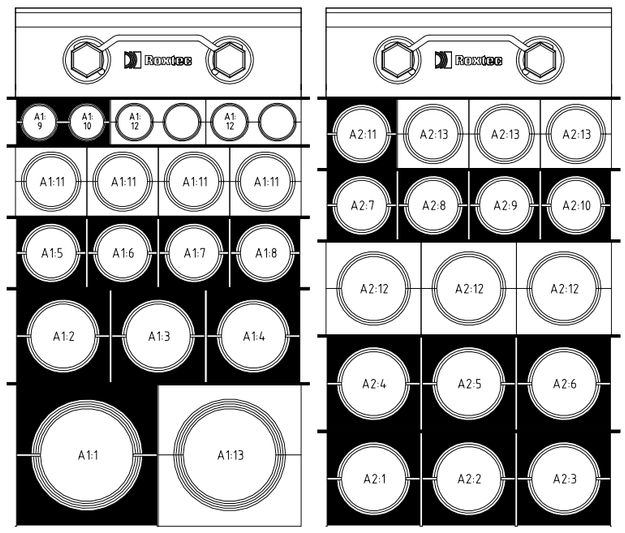
Drawing shows component layout according to design. Verification is needed to check if the configuration is valid for the application/certification intended.

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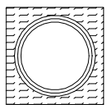
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A1 A2

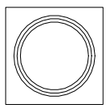
A1 A2

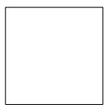


Pos	Cable ID	Name	Cable Type	Cable Category	OD (mm/ ["])	Module Type
A2:13						RM 30 10-25 [0.394"-0.984"]
A2:12						RM 40 21.5-34.5 [0.846"-1.358"]
A2:11	P-EJB-200N1-03-L2-01	Normal Lighting Lower Deck - Circuit No. 1	3G4	Power	14.3 [0.563"]	RM 30 10-25 [0.394"-0.984"]
A2:10	83010-CEL-N	Temporary Generator / Mobile Battery Pack	1C X 95	Power	17.3 [0.681"]	RM 30 10-25 [0.394"-0.984"]
A2:9	83010-CEL-L3	Temporary Generator / Mobile Battery Pack	1C X 95	Power	17.3 [0.681"]	RM 30 10-25 [0.394"-0.984"]
A2:8	83010-CEL-L2	Temporary Generator / Mobile Battery Pack	1C X 95	Power	17.3 [0.681"]	RM 30 10-25 [0.394"-0.984"]
A2:7	83010-CEL-L1	Temporary Generator / Mobile Battery Pack	1C X 95	Power	17.3 [0.681"]	RM 30 10-25 [0.394"-0.984"]
A2:6	83030-CEL	AC UPS PAS - 30min - Bypass	4G35	Power	27.4 [1.079"]	RM 40 21.5-34.5 [0.846"-1.358"]
A2:5	83029-CEL	AC UPS PAS - 30min - Line B	4G35	Power	27.4 [1.079"]	RM 40 21.5-34.5 [0.846"-1.358"]
A2:4	83028-CEL	AC UPS PAS - 30min - Line A	4G35	Power	27.4 [1.079"]	RM 40 21.5-34.5 [0.846"-1.358"]
A2:3	83026-CEL	HVAC panels - ITER	5G16	Power	24 [0.945"]	RM 40 21.5-34.5 [0.846"-1.358"]
A2:2	83025-CEL	HVAC panels - UPS Room	5G16	Power	24 [0.945"]	RM 40 21.5-34.5 [0.846"-1.358"]
A2:1	83020-CEL	Crane	5G16	Power	24 [0.945"]	RM 40 21.5-34.5 [0.846"-1.358"]
A1:13						RM 60 28-54 [1.102"-2.126"]
A1:12						RM 20W40 3.5-16.5 [0.138"-0.650"]
A1:11						RM 30 10-25 [0.394"-0.984"]
A1:10	83123-CEL	AC UPS F&G AUXILIARY	3G2.5	Power	13 [0.512"]	RM 20W40 3.5-16.5 [0.138"-0.650"]
A1:9	83122-CEL	AC UPS PAS AUXILIARY	3G2.5	Power	13 [0.512"]	RM 20W40 3.5-16.5 [0.138"-0.650"]
A1:8	84319-CEL	LV SWBD 800/460V Auxiliary	3G2.5	Power	15.5 [0.610"]	RM 30 10-25 [0.394"-0.984"]
A1:7	84318-CEL	LV Switchboard Auxiliary	3G2.5	Power	15.5 [0.610"]	RM 30 10-25 [0.394"-0.984"]
A1:6	84315-CEL	UCP - HVAC LV Room	3G2.5	Power	15.5 [0.610"]	RM 30 10-25 [0.394"-0.984"]
A1:5	83010-CEL-PE	Temporary Generator / Mobile Battery Pack	1C X 95	Power	14.5 [0.571"]	RM 30 10-25 [0.394"-0.984"]
A1:4	83033-CEL	AC UPS F&G - 8h - Bypass	4G35	Power	27.4 [1.079"]	RM 40 21.5-34.5 [0.846"-1.358"]
A1:3	83032-CEL	AC UPS F&G - 8h - Line B	4G35	Power	24.4 [0.961"]	RM 40 21.5-34.5 [0.846"-1.358"]
A1:2	83031-CEL	AC UPS F&G - 8h - Line A	4G35	Power	27.4 [1.079"]	RM 40 21.5-34.5 [0.846"-1.358"]
A1:1	83021-CEL	Welding Sockets (Top Deck) JB's	5G50	Power	35 [1.378"]	RM 60 28-54 [1.102"-2.126"]


MODULE WITH PIPE


MODULE WITH CABLE


SPARE MODULE

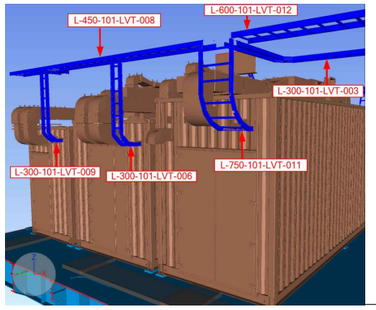

SOLID MODULE

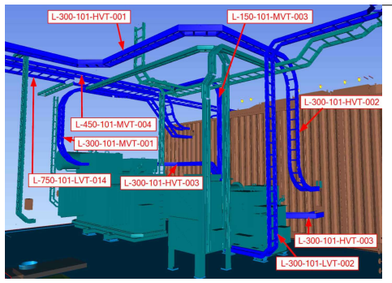
Responsible: ARNESH	Created Date: 2024-07-10	Modify Date: 2024-07-17	Project: BLPH - ROS	Location/ Sublocation	TotWeight: 12.1 [26.74]
Roxtec	Format: NTS		Transit name: E-MCT-204		Sheet No: 3/3
	Client		Drawing number		Rev

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DRAWING NO. 123A90-DDL-EL-DL-20108

REV. 01





L-750-101-LVT-013
W750 X H100mm
+27.078m
+3.768m T.O.S

L-450-101-LVT-005
W450 X H100mm
+26.660m
+3.350m T.O.S

L-300-101-MVT-006
W300 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-MVT-006
W300 X H100mm
+28.810/+30.190m
+5.500/6.880m T.O.S

L-300-101-LVT-007
W300 X H100mm
+28.810/+26.660m
+5.500/3.350m T.O.S

L-750-101-LVT-001
W750 X H100mm
+26.678m
+3.368m T.O.S

L-300-101-LVT-009
W300 X H100mm
+26.660m
+3.350m T.O.S

L-300-101-LVT-009
W300 X H100mm
+28.760/+26.660m
+5.450/3.350m T.O.S

L-300-101-LVT-006
W300 X H100mm
+26.660m
+3.350m T.O.S

L-300-101-LVT-006
W300 X H100mm
+28.760/+26.660m
+5.450/3.350m T.O.S

L-450-101-LVT-008
W450 X H100mm
+28.810m
+5.500m T.O.S

L-450-101-LVT-008
W450 X H100mm
+28.010/+28.810m
+4.700/5.500m T.O.S

L-600-101-LVT-012
W600 X H100mm
+28.010/+28.810m
+4.700/5.500m T.O.S

L-750-101-LVT-011
W750 X H100mm
+27.078m
+3.768m T.O.S

L-750-101-LVT-011
W750 X H100mm
+27.078/+28.010m
+3.768/4.700m T.O.S

L-750-101-LVT-001
W750 X H100mm
+25.335m
+2.025m T.O.S

L-300-101-LVT-003
W300 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-LVT-004
W300 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-LVT-004
W300 X H100mm
+28.810/+23.360m
+5.500/0.050m T.O.S

L-600-101-LVT-012
W600 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-LVT-002
W300 X H100mm
+23.480m
0.170m T.O.S

L-300-101-LVT-002
W300 X H100mm
+28.810/+23.480m
+5.500/0.170m T.O.S

L-300-101-MVT-007
W300 X H100mm
+27.210/+30.190m
+3.900/6.880m T.O.S

L-300-101-MVT-007
W300 X H100mm
+27.210m
+3.900m T.O.S

L-300-101-HVT-002
W300 X H150mm
+25.004/+28.810m
+1.694/5.500m T.O.S

L-300-101-HVT-002
W300 X H150mm
+25.004m
+1.694m T.O.S

L-150-101-MVT-003
W150 X H100mm
+23.510m
+0.200m T.O.S

L-300-101-HVT-003
W300 X H150mm
+24.205m
+0.895m T.O.S

L-300-101-HVT-003
W300 X H150mm
+25.410m
+2.100m T.O.S

L-150-101-MVT-003
W150 X H100mm
+28.810m
+5.500m T.O.S

L-750-101-LVT-015
W750 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-MVT-002
W300 X H100mm
+28.810m
+5.500m T.O.S

L-450-101-LVT-005
W450 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-MVT-002
W300 X H100mm
+23.648m
+0.338m T.O.S

L-600-101-LVT-010
W600 X H100mm
+28.810m
5.500m T.O.S

L-600-101-LVT-010
W600 X H100mm
+27.078m
+3.768m T.O.S

L-750-101-LVT-013
W750 X H100mm
+28.810m
+5.500m T.O.S

L-750-101-LVT-014
W750 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-MVT-005
W300 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-MVT-005
W300 X H100mm
+28.810/+23.600m
+5.500/0.290m T.O.S

L-300-101-HVT-001
W300 X H150mm
+28.810m
+5.50m T.O.S

L-300-101-HVT-001
W300 X H150mm
+23.385/+28.810m
+0.75/5.50m T.O.S

L-450-101-MVT-004
W450 X H100mm
+28.810m
+5.500m T.O.S

L-300-101-HVT-001
W300 X H150mm
+28.810m
+5.500m T.O.S

L-300-101-MVT-001
W300 X H100mm
+25.800/+28.410m
+2.490/5.100m T.O.S

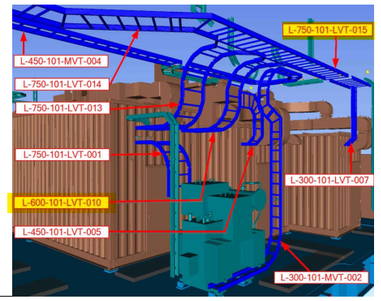
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W300 X H100mm
+28.410m
+5.100m T.O.S

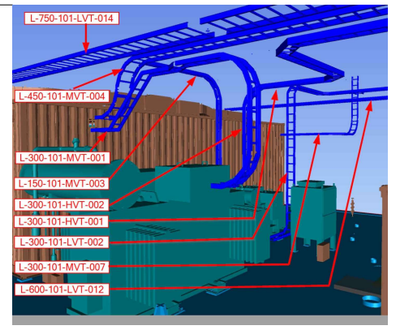
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+28.810m
+5.500m T.O.S

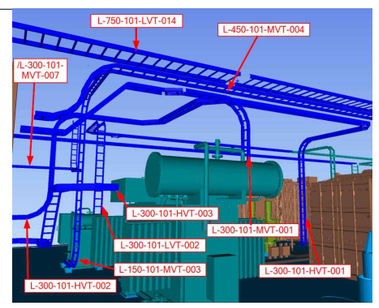
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+27.410m
+4.100m T.O.S

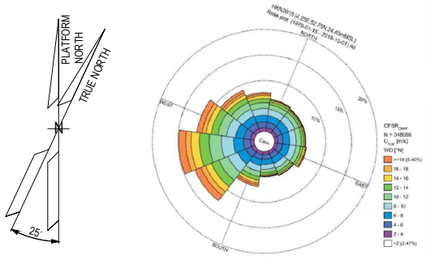
L-750-101-LVT-014
W750 X H100mm
+28.810/27.810m
+5.500/4.500m T.O.S

L-300-101-MVT-001
W300 X H100mm
+27.070m
+3.760m T.O.S









NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. THIS DRAWING IS VALID ONLY FOR ELECTRICAL CABLE ROUTING LAYOUT.
4. A MINIMUM OF 20% CAPACITY IN EACH CABLE LADDER SHALL BE PROVIDED FOR FUTURE EXTENSION.
5. DRAWING SPLIT INTO MULTIPLY SHEETS FOR CLARITY.
6. FOR INSTALLATION DETAIL OF CABLE LADDER REFER TO DOC. 123A90-DDL-EL-DD-20093.
7. UNARMOURED CABLES PASSING OR ARRIVING IN A CLASSIFIED AREA WILL BE MECHANICALLY PROTECTED IN COMPLIANCE WITH THE REQUIREMENTS OF THE IEC 60079-14.
8. 50MM CABLE TRAYS ROUTES MAY BE MODIFIED DURING CONSTRUCTION WITHOUT OFFICIAL APPROVAL.

LEGEND

- ELECTRICAL 66 KV CABLE TRAY
- ELECTRICAL 6.6 KV CABLE TRAY
- ELECTRICAL LV CABLE TRAY
- CABLE TRAY ELEVATION CHANGE
- ELECTRICAL CABLE TRAY VERTICAL RAISE
- ELECTRICAL CABLE TRAY VERTICAL DROP
- L101 — CABLE TRAY SECTION
- TAG
- SIZE
- ELEVATION
- ELEVATION(T.O.S)

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20108**

REV.:	DATE:	SIGNATURE:
1_B	22/08/24	G.Randi

ROSETTI MARINO SpA

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-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-DL-20107	ELECTRICAL CABLES ROUTING LAYOUT - TOP DECK
123A90-DDL-EL-DL-20109	ELECTRICAL CABLES ROUTING LAYOUT - BELOW LOWER DECK
123A90-DDL-EL-DG-20125	LIGHTING & SOCKET CIRCUIT DIAGRAM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	30/07/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	27/06/24	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :

BASE LOAD POWER HUB (BLPH)
ELECTRICAL CABLES ROUTING LAYOUT
LOWER DECK

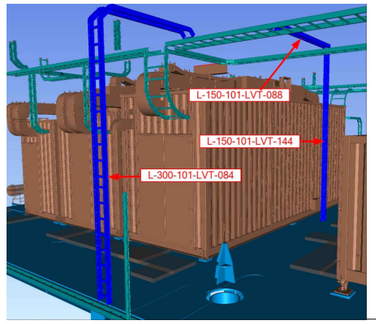
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN SPS	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 30/07/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20108	SHEET 01of18	REV. 01

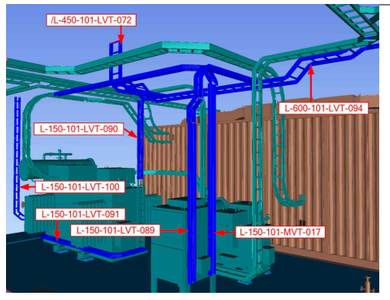
File Name : 123A90-DDL-EL-DL-20108

PRIMARY CABLE ROUTING
PLAN ON LOWER DECK
EL+23.310 T.O.S

DRAWING NO. 123A90-DDL-EL-DL-20108

REV. 01





L-300-101-LVT-112 | W300 X H100mm | +28.810/30.170m | +5.500/6.860m T.O.S

L-300-101-LVT-077 | W300 X H100mm | +28.810m | +5.500m T.O.S

L-300-101-LVT-078 | W300 X H100mm | +28.810m | +5.500m T.O.S

L-300-101-LVT-078 | W300 X H100mm | +29.060/30.170m | +5.750/6.860m T.O.S

L-150-101-LVT-086 | W150 X H100mm | +23.300m | −0.010m T.O.S

L-150-101-LVT-086 | W150 X H100mm | +22.700m | −0.610m T.O.S

L-300-101-LVT-077 | W300 X H100mm | +28.810/30.170m | +5.500/6.860m T.O.S

L-300-101-LVT-078 | W300 X H100mm | +29.060m | +5.750m T.O.S

L-300-101-LVT-073 | W300 X H100mm | +28.810m | +5.500m T.O.S

L-300-101-LVT-073 | W300 X H100mm | +28.810/+30.210m | +5.500/6.900m T.O.S

L-150-101-LVT-086 | W150 X H100mm | +23.300m | −0.010m T.O.S

L-150-101-LVT-106 | W150 X H100mm | +28.988/30.188m | +5.678/6.878m T.O.S

L-150-101-LVT-083 | W150 X H100mm | +23.300m | −0.010m T.O.S

L-300-101-LVT-084 | W300 X H100mm | +29.010m | +5.700m T.O.S

L-300-101-LVT-096 | W300 X H100mm | +28.960/24.400m | +5.650/1.090m T.O.S

L-300-101-LVT-084 | W300 X H100mm | +28.810m | +5.500m T.O.S

L-150-101-LVT-102 | W150 X H100mm | +28.938/30.188m | +5.628/6.878m T.O.S

L-300-101-LVT-084 | W300 X H100mm | +29.010/+23.298m | +5.700/0.012m T.O.S

L-150-101-LVT-103 | W150 X H100mm | +28.908/30.208m | +5.598/6.898m T.O.S

L-150-101-LVT-092 | W150 X H100mm | +27.178m | +3.868m T.O.S

L-150-101-LVT-088 | W150 X H100mm | +29.010m | +5.700m T.O.S

L-150-101-LVT-088 | W150 X H100mm | +28.810m | +5.500m T.O.S

L-150-101-LVT-092 | W150 X H100mm | +27.278m | +3.968m T.O.S

L-150-101-LVT-144 | W150 X H100mm | +28.930/24.180m | +5.620/0.870m T.O.S

L-150-101-LVT-092 | W150 X H100mm | +27.278/23.728m | +3.968/0.418m T.O.S

L-300-101-LVT-095 | W300 X H100mm | +28.888/30.188m | +5.578/6.878m T.O.S

L-300-101-LVT-068 | W300 X H100mm | +28.810m | +5.500m T.O.S

L-300-101-LVT-068 | W300 X H100mm | +29.060m | +5.750m T.O.S

L-150-101-LVT-093 | W150 X H100mm | +28.810/26.400m | +5.500/3.090m T.O.S

L-150-101-LVT-099 | W150 X H100mm | +28.810/24.000m | +5.500/0.690m T.O.S

L-150-101-LVT-139 | W150 X H100mm | +26.280 | +2.970m T.O.S

L-300-101-LVT-068 | W300 X H100mm | +29.060m/+23.500 | +5.750/0.190m T.O.S

L-150-101-LVT-087 | W150 X H100mm | +28.810/23.390m | +5.500/0.080m T.O.S

L-150-101-LVT-138 | W150 X H100mm | +26.280 | +2.970m T.O.S

L-150-101-LVT-105 | W150 X H100mm | +28.810/30.188m | +5.500/6.878m T.O.S

L-300-101-LVT-070 | W300 X H100mm | +23.410m | +0.100m T.O.S

L-150-101-LVT-146 | W150 X H100mm | +26.280/24.520m | +2.970/1.210m T.O.S

L-150-101-LVT-083 | W150 X H100mm | +23.300/22.860m | −0.010/0.450m T.O.S

L-300-101-LVT-069 | 300X100mm | +29.060m | +5.750m T.O.S

L-300-101-LVT-071 | W300 X H100mm | +23.410m | +0.100m T.O.S

L-150-101-LVT-081 | W150 X H100mm | +22.680m | −0.630m T.O.S

L-150-101-LVT-101 | W150 X H100mm | +28.810/30.188m | +5.500/6.878m T.O.S

L-300-101-LVT-069 | 300X100mm | +29.060/23.610m | +5.750/0.300m T.O.S

L-300-101-LVT-101 | W150 X H100mm | +28.810m | +5.500m T.O.S

L-300-101-LVT-080 | W300 X H100mm | +22.680m | −0.630m T.O.S

L-300-101-LVT-109 | W300 X H100mm | +23.410m | +0.100m T.O.S

L-300-101-LVT-079 | W300 X H100mm | +28.810/22.940m | +5.500/−0.370m T.O.S

L-150-101-LVT-097 | W150 X H100mm | +29.080m | +5.770m T.O.S

L-150-101-LVT-143 | W150 X H100mm | +29.080/24.185m | +5.770/0.875m T.O.S

L-150-101-LVT-082 | W150 X H100mm | +22.680m | −0.630m T.O.S

L-150-101-LVT-089 | W150 X H100mm | +28.410/23.860m | +5.100/0.550m T.O.S

L-150-101-LVT-089 | W150 X H100mm | +28.410m | +5.100m T.O.S

L-150-101-LVT-082 | W150 X H100mm | +23.300m | −0.010m T.O.S

L-300-101-LVT-098 | W300 X H100mm | +28.660/24.000m | +5.350/0.690m T.O.S

L-150-101-LVT-104 | W150 X H100mm | +28.938/30.188m | +5.628/6.878m T.O.S

L-300-101-LVT-076 | W300 X H100mm | +28.810m | +5.500m T.O.S

L-150-101-LVT-100 | W150 X H100mm | +28.710/24.260m | +5.400/0.950m T.O.S

L-600-101-LVT-094 | W600 X H100mm | +28.970m | +5.660m T.O.S

L-600-101-LVT-094 | W600 X H100mm | +28.810m | +5.500m T.O.S

L-150-101-LVT-091 | W150 X H100mm | +23.600m | +0.290m T.O.S

L-600-101-LVT-094 | W600 X H100mm | +28.810m | +5.500m T.O.S

L-600-101-LVT-094 | W600 X H100mm | +28.410m | +5.100m T.O.S

L-300-101-LVT-074 | W300 X H100mm | +28.810/26.810m | +5.500/3.500m T.O.S

L-150-101-LVT-085 | W150 X H100mm | +22.598m | −0.712m T.O.S

L-450-101-LVT-072 | W450 X H100mm | +28.410/30.219m | +5.100/6.909m T.O.S

L-450-101-LVT-075 | W300 X H100mm | +27.810/26.810m | +4.500/3.500m T.O.S

L-150-101-MVT-017 | W150 X H100mm | +28.410/23.860m | +5.100/0.550m T.O.S

L-150-101-LVT-108 | W150 X H100mm | +23.300m | −0.010m T.O.S

L-150-101-LVT-108 | W150 X H100mm | +22.598m | −0.712m T.O.S

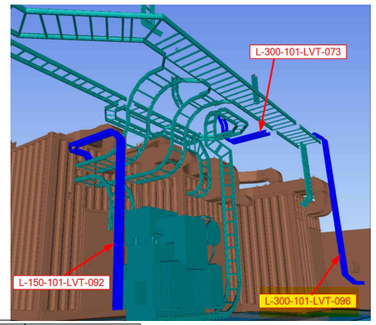
L-150-101-LVT-107 | W150 X H100mm | +22.598m | −0.712m T.O.S

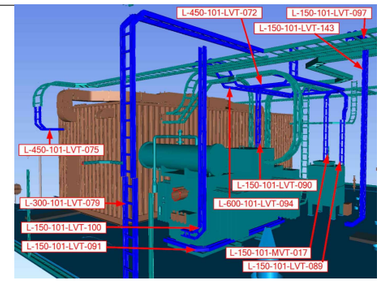
L-150-101-MVT-017 | W150 X H100mm | +28.410m | +5.100m T.O.S

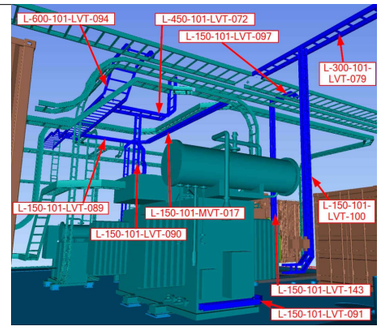
L-150-101-LVT-085 | W150 X H100mm | +23.300m | −0.010m T.O.S

L-150-101-LVT-090 | W150 X H100mm | +28.510/23.860m | +5.200/0.550m T.O.S

L-600-101-LVT-094 | W600 X H100mm | +29.110m | +5.100m T.O.S

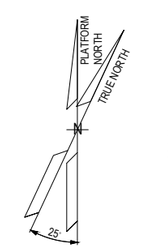


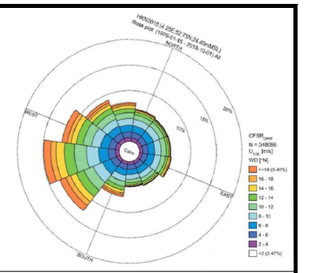




R300 | YLB-079001 | YLB-079002 | B-400 | B-300 | B-200 | B-100 | A-50000 | P-50001A | P-50001B | TR-100A/B | TR-200E/F

SECONDARY CABLE ROUTING
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. THIS DRAWING IS VALID ONLY FOR ELECTRICAL CABLE ROUTING LAYOUT.
4. A MINIMUM OF 20% CAPACITY IN EACH CABLE LADDER SHALL BE PROVIDED FOR FUTURE EXTENSION.
5. DRAWING SPLIT INTO MULTIPLY SHEETS FOR CLARITY.
6. FOR INSTALLATION DETAIL OF CABLE LADDER REFER TO DOC. 123A90-DDL-EL-DD-20093.
7. UNARMOURED CABLES PASSING OR ARRIVING IN A CLASSIFIED AREA WILL BE MECHANICALLY PROTECTED IN COMPLIANCE WITH THE REQUIREMENTS OF THE IEC 60079-14.
8. 50MM CABLE TRAYS ROUTES MAY BE MODIFIED DURING CONSTRUCTION WITHOUT OFFICIAL APPROVAL.

LEGEND

- ELECTRICAL 66 KV CABLE TRAY
- ELECTRICAL 6.6 KV CABLE TRAY
- ELECTRICAL LV CABLE TRAY
- CABLE TRAY ELEVATION CHANGE
- ELECTRICAL CABLE TRAY VERTICAL RAISE
- ELECTRICAL CABLE TRAY VERTICAL DROP
- L101 — CABLE TRAY SECTION
- TAG
- SIZE
- ELEVATION
- ELEVATION(T.O.S)

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20108**

REV.:	DATE:	SIGNATURE:
1_B	22/08/24	G.Randi

ROSETTI MARINO SpA

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-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-DL-20107	ELECTRICAL CABLES ROUTING LAYOUT - TOP DECK
123A90-DDL-EL-DL-20109	ELECTRICAL CABLES ROUTING LAYOUT - BELOW LOWER DECK
123A90-DDL-EL-DG-20125	LIGHTING & SOCKET CIRCUIT DIAGRAM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	30/07/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	27/06/24	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
ELECTRICAL CABLES ROUTING LAYOUT
LOWER DECK

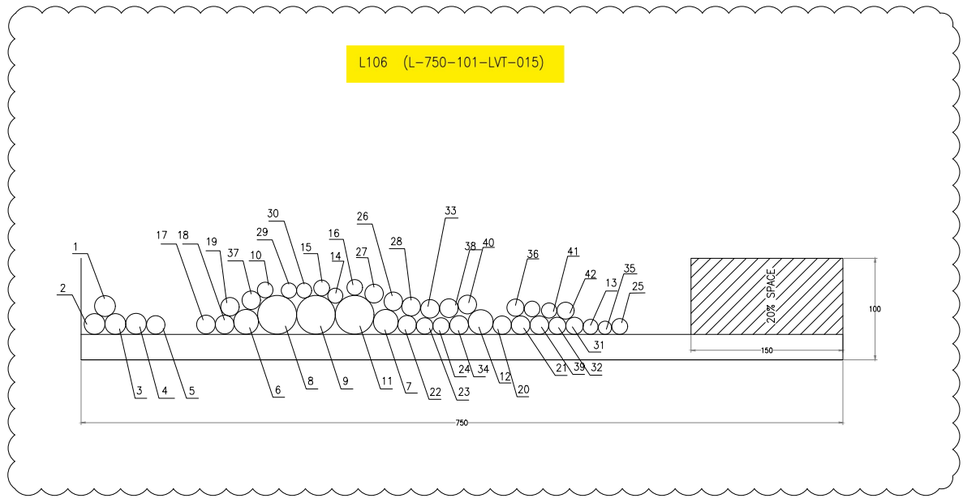
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DRAWN SPS	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 30/07/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20108	SHEET 02of18	REV. 01

File Name : 123A90-DDL-EL-DL-20108

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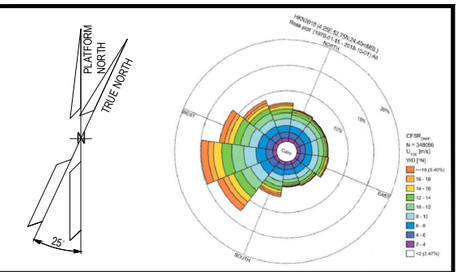
REV. 01

△01



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83010-CEL-L1	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
2	83010-CEL-L2	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
3	83010-CEL-L3	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
4	83010-CEL-N	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
5	83010-CEL-PE	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P6	1C x 95
6	83012-CEL	FUEL CELL AUXILIARY LOAD	SG-200N1	A-80000	POWER CABLE	P4	5G16
7	83020-CEL	CRANE	SG-200N1	JB-200E3	POWER CABLE	P4	5G16
△01 8	83021-CEL-03	WELDING SOCKETS (TOP DECK) JB'S	JB-200E6	JB-200E7	POWER CABLE	P4	5G50
9	83022-CEL	WELDING SOCKET (LOWER DECK)	SG-200N1	JB-200E4	POWER CABLE	P4	5G50
10	72213-CEL	INTERMEDIATE OBSTRUCTION RED LIGHTS	EJB-200F2-02	EOL-200-04	POWER CABLE	P5	3G2.5
△01 11	83022-CEL-03	WELDING SOCKETS (LOWER DECK) JB'S	JB-200E4	JB-200E5	POWER CABLE	P4	5G50
12	83026-CEL	HVAC PANEL – ITER	SG-200N1	B400-HSB-001	POWER CABLE	P4	5G16
13	72210-CEL	WAVE OFF STATUS LIGHT	NC-200F2	ESL-200-01	POWER CABLE	P5	2C X 2.5
14	72202-CEL	NAV AIDS MAIN YELLOW LANTERNS	NC-200F2	EML-200-02	POWER CABLE	P5	2C X 2.5
15	72203-CEL	TOP OBSTRUCTION LIGHTS JUNCTION BOX	NC-200F2	EJB-200F2-01	POWER CABLE	P5	3G2.5
16	72211-CEL	INTERMEDIATE OBSTRUCTION LIGHTS JUNCTION BOX	NC-200F2	EJB-200F2-02	POWER CABLE	P5	3G2.5
17	84301-CEL	SIS – CONTROLLER AND I/O CABINET – LINE A	DP-200F3	B400-SIS-001	POWER CABLE	P5	3G2.5
18	84302-CEL	SIS – CONTROLLER AND I/O CABINET – LINE B	DP-200F3	B400-SIS-001	POWER CABLE	P5	3G2.5
19	84303-CEL	PCS – CONTROLLER AND I/O CABINET – LINE A	DP-200F3	B400-PCS-001	POWER CABLE	P5	3G2.5
20	84304-CEL	PCS – CONTROLLER AND I/O CABINET – LINE B	DP-200F3	B400-PCS-001	POWER CABLE	P5	3G2.5
21	84305-CEL	EMCS – CONTROLLER AND I/O CABINET – LINE A	DP-200F3	B400-EMCS-001	POWER CABLE	P5	3G2.5
22	84306-CEL	EMCS – CONTROLLER AND I/O CABINET – LINE B	DP-200F3	B400-EMCS-001	POWER CABLE	P5	3G2.5
23	84307-CEL	SERVER CABINET ITER – LINE A	DP-200F3	B400-SRV-001	POWER CABLE	P5	3G6
24	84308-CEL	SERVER CABINET ITER – LINE B	DP-200F3	B400-SRV-001	POWER CABLE	P5	3G6
△01 25	P-EJB-200N1-08-L1-04	EMERGENCY LIGHTING UPPER DECK	DP-200N1	EJB-200N1-08-L1-04	POWER CABLE	P4	4G4_E

POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
27	84313-CEL	UCP – WATER PACKAGE	DP-200F3	JB-500F8	POWER CABLE	P5	3G2.5
28	84314-CEL	UCP – HVAC HV ROOM	DP-200F3	B100-HSB-001	POWER CABLE	P5	3G2.5
29	P-EJB-200N1-02-L1-01	NORMAL LIGHTING UPPER DECK	DP-200N1	EJB-200N1-02-L1-01	POWER CABLE	P4	3G4
30	P-EJB-200N1-03-L2-01	NORMAL LIGHTING LOWER DECK	DP-200N1	EJB-200N1-03-L2-01	POWER CABLE	P4	3G4
△01 31	P-EJB-200N1-02-L1-02	NORMAL LIGHTING JB	EJB-200N1-02-L1-01	EJB-200N1-02-L1-02	POWER CABLE	P5	3G4
32	P-EJB-200N1-02-L1-19	NORMAL LIGHTING JB	EJB-200N1-02-L1-01	EJB-200N1-02-L1-19	POWER CABLE	P5	3G4
33	P-EJB-200N1-08-L1-16	EMERGENCY LIGHTING JB	EJB-200N1-08-L1-04	EJB-200N1-08-L1-16	POWER CABLE	P5	4G4_E
34	P-EJB-200N1-08-L1-01	EMERGENCY LIGHTING JB	EJB-200N1-08-L1-04	EJB-200N1-08-L1-01	POWER CABLE	P5	4G4_E
35	P-ELF-200N1-03-L2-01	NORMAL LIGHTING FIXTURE	EJB-200N1-03-L2-01	ELF-200N1-03-L2-01	POWER CABLE	P4	3G2.5
36	P-EPH-200N1-01	TWILIGHT RELAY SENSOR	DP-200N1	EPH-200N1-01	POWER CABLE	P5	3G4
37	84401-CEL	FGS FIRE & GAS PANEL – LINE A	DP-200F4	B400-FGS-001	POWER CABLE	P5	3G2.5
38	84402-CEL	FGS FIRE & GAS PANEL – LINE B	DP-200F4	B400-FGS-001	POWER CABLE	P5	3G2.5
39	84403-CEL	SYSTEM SERVER / NETWORK CABINET – LINE A	DP-200F4	B400-NET-001	POWER CABLE	P5	3G2.5
40	84404-CEL	SYSTEM SERVER / NETWORK CABINET – LINE B	DP-200F4	B400-NET-001	POWER CABLE	P5	3G2.5
△01 41	P-EJB-200N1-03-L2-02	NORMAL LIGHTING JB	EJB-200N1-03-L2-01	EJB-200N1-03-L2-02	POWER CABLE	P4	3G4
42	P-ELF-200N1-09-L2-11	EMERGENCY LIGHTING FIXTURE	ELF-200N1-09-L2-02	ELF-200N1-09-L2-11	POWER CABLE	P4	4G2.5_E
43							
44							



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.

CABLE TYPE DETAILS

P2 – SINGLE CORE, 3.6/6 (7.2) KV, CU/EPR/CU/LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.
P3 – SINGLE CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH, PVC, UNARMOURED CABLE, FLAME RETARDANT
P4 – MULTI CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.
P5 – MULTI CORE, 0.6/1 KV, FIRE RESISTANT, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, GALVANIZED STEEL WIRE ARMOURED CABLE, FLAME RETARDANT.
P7 – MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.
P8 – MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, CU SCREEN, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.

LEGEND

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20108**

REV.:	DATE:	SIGNATURE:
1_B	22/08/24	G.Randi

ROSETTI MARINO SpA

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-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-DL-20107	ELECTRICAL CABLES ROUTING LAYOUT - TOP DECK
123A90-DDL-EL-DL-20109	ELECTRICAL CABLES ROUTING LAYOUT - BELOW LOWER DECK
123A90-DDL-EL-DG-20125	LIGHTING & SOCKET CIRCUIT DIAGRAM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	30/07/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	27/06/24	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
ELECTRICAL CABLES ROUTING LAYOUT
LOWER DECK

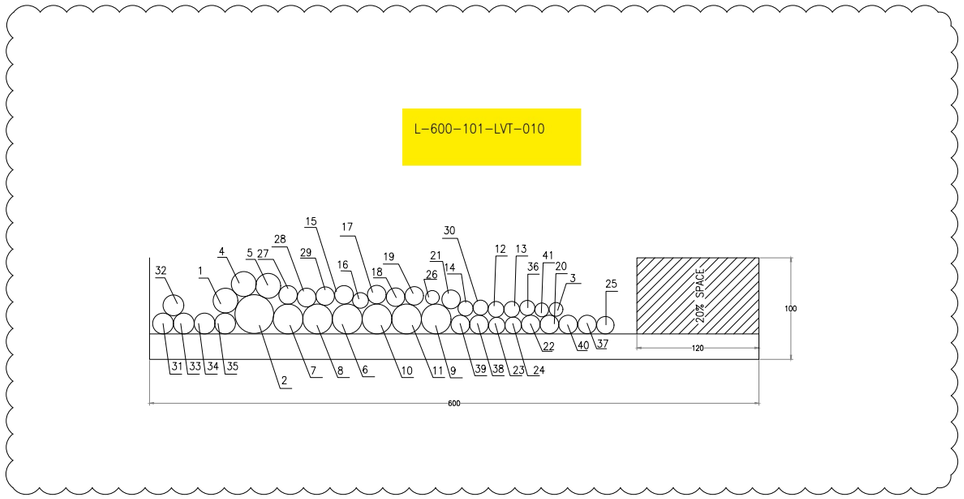
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DRAWN SPS	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 30/07/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20108	SHEET 05of18	REV. 01

File Name : 123A90-DDL-EL-DL-20108

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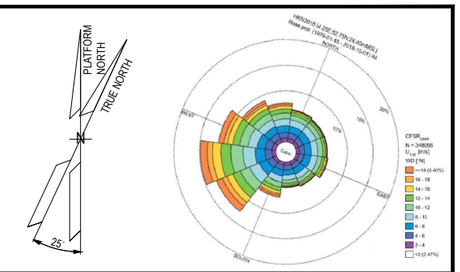
REV. 01

01



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83020-CEL	CRANE	SG-200N1	JB-200E3	POWER CABLE	P4	5G16
2	83021-CEL	WELDING SOCKET (TOP DECK)	SG-200N1	JB-200E6	POWER CABLE	P4	5G50
01 3	83123-CEL	AC UPS F&G AUXILIARY	DP-200N1	UP-200F4	POWER CABLE	P4	3G2.5
4	83025-CEL	HVAC PANEL – UPS ROOM	SG-200N1	B300-HSB-001	POWER CABLE	P4	5G16
5	83026-CEL	HVAC PANEL – ITER	SG-200N1	B400-HSB-001	POWER CABLE	P4	5G16
6	83028-CEL	AC UPS PAS – 30MIN – LINE A	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
7	83029-CEL	AC UPS PAS – 30MIN – LINE B	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
8	83030-CEL	AC UPS PAS – 30MIN – BYPASS	SG-200N1	UP-200F3	POWER CABLE	P4	4G35
9	83031-CEL	AC UPS F&G – 8H – LINE A	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
10	83032-CEL	AC UPS F&G – 8H – LINE B	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
11	83033-CEL	AC UPS F&G – 8H – BYPASS	SG-200N1	UP-200F4	POWER CABLE	P4	4G35
01 12	84318-CEL	LV SWITCHBOARD AUXILIARY	DP-200F3	SG-200N1	POWER CABLE	P5	3G2.5
13	84319-CEL	LV SWBD 800/460V AUXILIARY	DP-200F3	SG-200D2	POWER CABLE	P5	3G2.5
14	72202-CEL	NAV AIDS MAIN YELLOW LANTERNS	NC-200F2	EML-200-02	POWER CABLE	P5	2C X 2.5
15	72203-CEL	TOP OBSTRUCTION LIGHTS JUNCTION BOX	NC-200F2	EJB-200F2-01	POWER CABLE	P5	3G2.5
16	72211-CEL	INTERMEDIATE OBSTRUCTION LIGHTS JUNCTION BOX	NC-200F2	EJB-200F2-02	POWER CABLE	P5	3G2.5
17	84301-CEL	SIS – CONTROLLER AND I/O CABINET – LINE A	DP-200F3	B400-SIS-001	POWER CABLE	P5	3G2.5
18	84302-CEL	SIS – CONTROLLER AND I/O CABINET – LINE B	DP-200F3	B400-SIS-001	POWER CABLE	P5	3G2.5
19	84303-CEL	PCS – CONTROLLER AND I/O CABINET – LINE A	DP-200F3	B400-PCS-001	POWER CABLE	P5	3G2.5
20	84304-CEL	PCS – CONTROLLER AND I/O CABINET – LINE B	DP-200F3	B400-PCS-001	POWER CABLE	P5	3G2.5
21	84305-CEL	EMCS – CONTROLLER AND I/O CABINET – LINE A	DP-200F3	B400-EMCS-001	POWER CABLE	P5	3G2.5
22	84306-CEL	EMCS – CONTROLLER AND I/O CABINET – LINE B	DP-200F3	B400-EMCS-001	POWER CABLE	P5	3G2.5
23	84307-CEL	SERVER CABINET ITER – LINE A	DP-200F3	B400-SRV-001	POWER CABLE	P5	3G6
24	84308-CEL	SERVER CABINET ITER – LINE B	DP-200F3	B400-SRV-001	POWER CABLE	P5	3G6
01 25	P-EPH-200N1-01	TWILIGHT RELAY SENSOR	DP-200N1	EPH-200N1-01	POWER CABLE	P5	3G4

POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
01 26	P-ELF-200N1-03-L2-01	NORMAL LIGHTING FIXTURE	EJB-200N1-03-L2-01	ELF-200N1-03-L2-01	POWER CABLE	P4	3G2.5
27	84313-CEL	UCP – WATER PACKAGE	DP-200F3	CP-500F01	POWER CABLE	P5	3G2.5
28	84314-CEL	UCP – HVAC HV ROOM	DP-200F3	B100-HSB-001	POWER CABLE	P5	3G2.5
29	84315-CEL	UCP – HVAC LV ROOM	DP-200F3	B200-HSB-001	POWER CABLE	P5	3G2.5
01 30	P-EJB-200N1-03-L2-01	NORMAL LIGHTING LOWER DECK	DP-200N1	EJB-200N1-03-L2-01	POWER CABLE	P4	3G4
31	83010-CEL-L1	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
32	83010-CEL-L2	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
33	83010-CEL-L3	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
34	83010-CEL-N	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
35	83010-CEL-PE	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P6	1C x 95
36	72210-CEL	WAVE OFF STATUS LIGHT	NC-200F2	ESL-200-01	POWER CABLE	P5	2C X 2.5
37	84401-CEL	FGS FIRE & GAS PANEL – LINE A	DP-200F4	B400-FGS-001	POWER CABLE	P5	3G2.5
38	84402-CEL	FGS FIRE & GAS PANEL – LINE B	DP-200F4	B400-FGS-001	POWER CABLE	P5	3G2.5
39	84403-CEL	SYSTEM SERVER / NETWORK CABINET – LINE A	DP-200F4	B400-NET-001	POWER CABLE	P5	3G2.5
40	84404-CEL	SYSTEM SERVER / NETWORK CABINET – LINE B	DP-200F4	B400-NET-001	POWER CABLE	P5	3G2.5
41	83122-CEL	AC UPS PAS AUXILIARY	DP-200N1	UP-200F3	POWER CABLE	P4	3G2.5



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.

CABLE TYPE DETAILS

P2 – SINGLE CORE, 3.6/6 (7.2) KV, CU/EPR/CU/LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.
P3 – SINGLE CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH, PVC, UNARMOURED CABLE, FLAME RETARDANT
P4 – MULTI CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.
P5 – MULTI CORE, 0.6/1 KV, FIRE RESISTANT, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, GALVANIZED STEEL WIRE ARMOURED CABLE, FLAME RETARDANT.
P7 – MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.
P8 – MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, CU SCREEN, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.

LEGEND

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20108**

REV.:	DATE:	SIGNATURE:
1_B	22/08/24	G.Randi

ROSETTI MARINO SpA

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-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-DL-20107	ELECTRICAL CABLES ROUTING LAYOUT - TOP DECK
123A90-DDL-EL-DL-20109	ELECTRICAL CABLES ROUTING LAYOUT - BELOW LOWER DECK
123A90-DDL-EL-DG-20125	LIGHTING & SOCKET CIRCUIT DIAGRAM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	30/07/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	27/06/24	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
ELECTRICAL CABLES ROUTING LAYOUT
LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:50
DRAWN SPS	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 30/07/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20108	SHEET 06of18	REV. 01

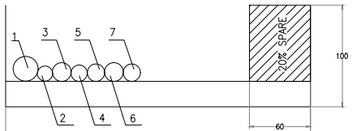
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REV. 01

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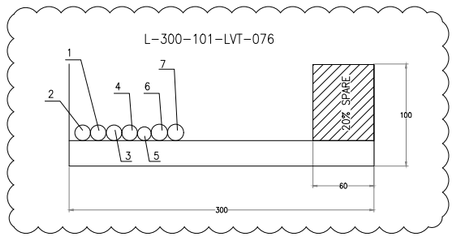
L-300-101-LVT-073



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83012-CEL	FUEL CELL AUXILIARY LOAD	SG-200N1	A-80000	POWER CABLE	P4	5G16
2	P-EJB-200N1-02-L1-01	NORMAL LIGHTING UPPER DECK	DP-200N1	EJB-200N1-02-L1-01	POWER CABLE	P4	3G4
3	P-EJB-200N1-08-L1-01	EMERGENCY LIGHTING JB	EJB-200N1-08-L1-04	EJB-200N1-08-L1-01	POWER CABLE	P5	4G4_E
4	P-EJB-200N1-08-L1-04	EMERGENCY LIGHTING JB	DP-200N1	EJB-200N1-08-L1-04	POWER CABLE	P4	4G4_E
5	P-EJB-200N1-02-L1-02	NORMAL LIGHTING JB	EJB-200N1-02-L1-01	EJB-200N1-02-L1-02	POWER CABLE	P5	3G4
6	P-EJB-200N1-08-L1-16	EMERGENCY LIGHTING JB	EJB-200N1-08-L1-04	EJB-200N1-08-L1-16	POWER CABLE	P5	4G4_E
7	P-EJB-200N1-02-L1-19	NORMAL LIGHTING JB	EJB-200N1-02-L1-01	EJB-200N1-02-L1-19	POWER CABLE	P5	3G4

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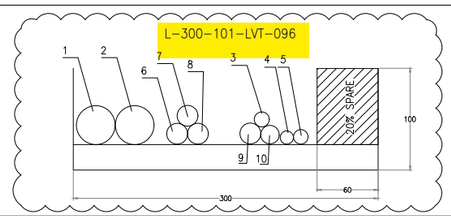
L-300-101-LVT-076



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83011-CEC	6.6KV HV SWITCHGEAR	CP-200ED1A	SG-100D1	CONTROL CABLE	P7	7C X 1.5
2	83012-CEC	6.6KV HV SWITCHGEAR	CP-200ED1A	SG-100D1	CONTROL CABLE	P7	7C X 1.5
3	83013-CEC	6.6KV HV SWITCHGEAR	CP-200ED1A	SG-100D1	CONTROL CABLE	P7	7C X 1.5
4	83014-CEC	6.6KV HV SWITCHGEAR	CP-200ED1A	SG-100D1	CONTROL CABLE	P7	7C X 1.5
5	P-ELF-200N1-03-L2-03	NORMAL LIGHTING FIXTURE	EJB-200N1-03-L2-03	ELF-200N1-03-L2-03	POWER CABLE	P4	3G2.5
6	P-EJB-200N1-09-L2-02	EMERGENCY LIGHTING JB	EJB-200N1-09-L2-04	EJB-200N1-09-L2-02	POWER CABLE	P4	4G4_E
7	P-ELS-200N1-09-L2-01	LOCAL SWITCH	EJB-200N1-09-L2-04	ELS-200N1-09-L2-01	POWER CABLE	P4	4G4_E

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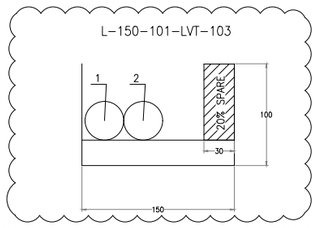
L-300-101-LVT-096



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83022-CEL	WELDING SOCKETS (LOWER DECK) JB'S	SG-200N1	JB-200E4 /JB-200E5	POWER CABLE	P4	5G50
2	83022-CEL-03	WELDING SOCKETS (LOWER DECK) JB'S	JB-200E4	JB-200E5	POWER CABLE	P4	5G50
3	P-EJB-200N1-03-L2-01	NORMAL LIGHTING LOWER DECK	DP-200N1	EJB-200N1-03-L2-01	POWER CABLE	P4	3G4
4	P-ELF-200N1-03-L2-01	NORMAL LIGHTING FIXTURE	EJB-200N1-03-L2-01	ELF-200N1-03-L2-01	POWER CABLE	P4	3G2.5
5	P-EJB-200N1-03-L2-02	NORMAL LIGHTING FIXTURE	EJB-200N1-03-L2-01	EJB-200N1-03-L2-02	POWER CABLE	P4	3G4
6	83010-CEL-L1	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
7	83010-CEL-L2	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
8	83010-CEL-L3	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
9	83010-CEL-N	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P3	1C x 95
10	83010-CEL-PE	TEMPORARY GENERATOR/MOBILE BATTERY PACK	SG-200N1	JB-200E2	POWER CABLE	P6	1C x 95

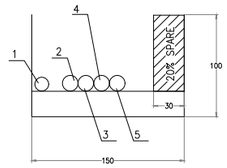
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L-150-101-LVT-103



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83021-CEL	WELDING SOCKET (TOP DECK)	SG-200N1	JB-200E6 /JB-200E7	POWER CABLE	P4	5G50
2	83021-CEL-03	WELDING SOCKET (TOP DECK)	JB-200E6	JB-200E7	POWER CABLE	P4	5G50

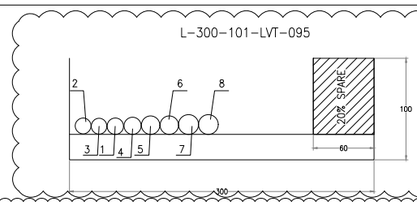
L-150-101-LVT-092



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83116-CEL	AUXILIARY TRAFO 1.6MVA	DP-200N1	CP-200E1	POWER CABLE	P4	3G2.5
2	83001-CEC	6.6KV HV SWITCHGEAR	CP-200DE1A	SG-100D1	CONTROL CABLE	P7	7C X 1.5
3	83002-CEC	6.6KV HV SWITCHGEAR	CP-200DE1A	SG-100D1	CONTROL CABLE	P7	7C X 1.5
4	83003-CEC	6.6KV HV SWITCHGEAR	CP-200DE1A	SG-100D1	CONTROL CABLE	P7	7C X 1.5
5	83004-CEC	6.6KV HV SWITCHGEAR	CP-200DE1A	SG-100D1	CONTROL CABLE	P7	7C X 1.5

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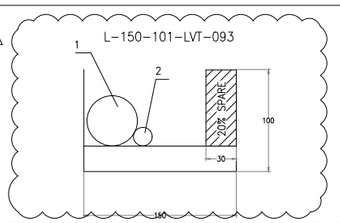
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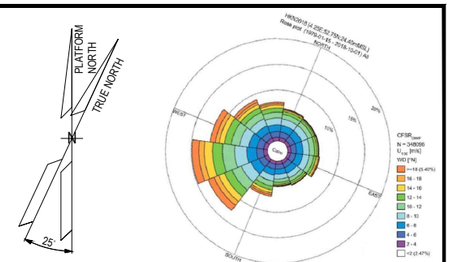
SECTION POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	P-EJB-200N1-08-L1-01	EMERGENCY LIGHTING UPPER DECK – CIRCUIT NO. 1	DP-200N1	EJB-200N1-08-L1-01	POWER CABLE	P4	4G4_E
2	72203-CEL	TOP OBSTRUCTION LIGHTS JUNCTION BOX	UP-200F2	EJB-200F2-01	POWER CABLE	P5	3G2.5
3	72211-CEL	INTERMEDIATE OBSTRUCTION LIGHTS JUNCTION BOX	NC-200F2	EJB-200F2-02	POWER CABLE	P5	3G2.5
4	72213-CEL	INTERMEDIATE OBSTRUCTION RED LIGHTS	EJB-200F2-02	EOL-200-04	POWER CABLE	P5	3G2.5
5	P-EJB-200N1-08-L1-03	EMERGENCY LIGHTING JB	EJB-200N1-08-L1-02	EJB-200N1-08-L1-03	POWER CABLE	P5	4G4_E
6	P-EJB-200N1-08-L1-01	EMERGENCY LIGHTING JB	EJB-200N1-08-L1-04	EJB-200N1-08-L1-01	POWER CABLE	P5	4G4_E
7	P-EJB-200N1-02-L1-02	NORMAL LIGHTING JB	EJB-200N1-02-L1-01	EJB-200N1-02-L1-02	POWER CABLE	P5	3G4
8	P-EJB-200N1-02-L1-03	NORMAL LIGHTING JB	EJB-200N1-02-L1-02	EJB-200N1-02-L1-03	POWER CABLE	P5	3G4

01

L-150-101-LVT-093



POS.	CABLE TAG NUMBER	DESCRIPTION	FROM	TO	SERVICE TYPE	CABLE TYPE	CABLE CROSS SECTION (sq.mm)
1	83016-CEL	WATER PACKAGE	SG-200N1	JB-500E8	POWER CABLE	P4	5G70
2	84313-CEL	UCP – WATER PACKAGE	DP-200F3	JB-500E8	POWER CABLE	P5	3G2.5



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.

CABLE TYPE DETAILS

P2 – SINGLE CORE, 3.6/6 (7.2) KV, CU/EPR/CU/LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.
P3 – SINGLE CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH, PVC, UNARMOURED CABLE, FLAME RETARDANT
P4 – MULTI CORE, 0.6/1 KV, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.
P5 – MULTI CORE, 0.6/1 KV, FIRE RESISTANT, STRANDED COPPER, EPR INSULATION, LSZH OUTER SHEATH MATERIAL, GALVANIZED STEEL WIRE ARMOURED CABLE, FLAME RETARDANT.
P7 – MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.
P8 – MULTI CORE, 0.6/1 KV, STRANDED COPPER, XLPE INSULATION, CU SCREEN, LSZH OUTER SHEATH MATERIAL, UNARMOURED CABLE, FLAME RETARDANT.

LEGEND

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20108**

REV.:	DATE:	SIGNATURE:
1_B	22/08/24	G.Randi

ROSETTI MARINO SpA

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-20093	ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM
123A90-DDL-EL-DL-20107	ELECTRICAL CABLES ROUTING LAYOUT - TOP DECK
123A90-DDL-EL-DL-20109	ELECTRICAL CABLES ROUTING LAYOUT - BELOW LOWER DECK
123A90-DDL-EL-DG-20125	LIGHTING & SOCKET CIRCUIT DIAGRAM
123A90-DDL-EL-LIS-20148	ELECTRICAL POWER & CONTROL CABLE SCHEDULE

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	30/07/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	27/06/24	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
ELECTRICAL CABLES ROUTING LAYOUT
LOWER DECK

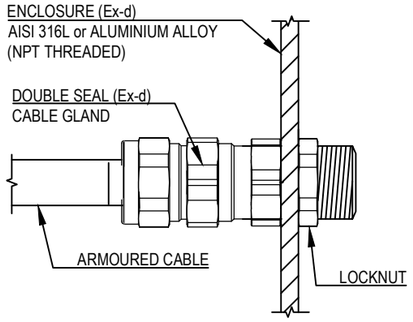
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DRAWN SPS	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 30/07/24

A1	DRAWING NO. 123A90-DDL-EL-DL-20108	SHEET 12of18	REV. 01

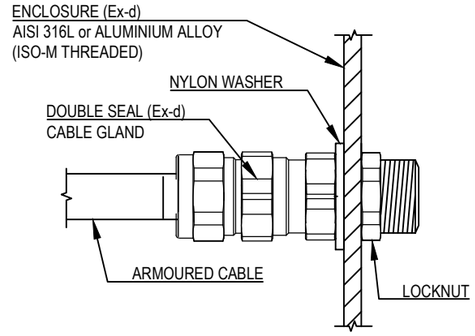
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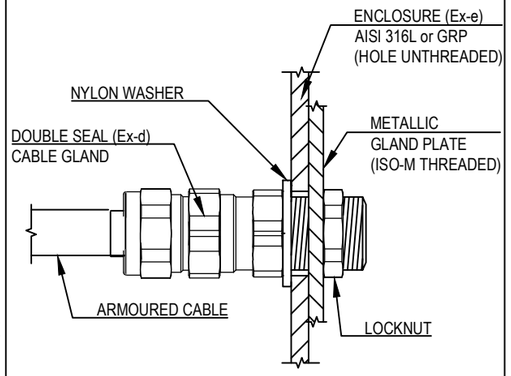
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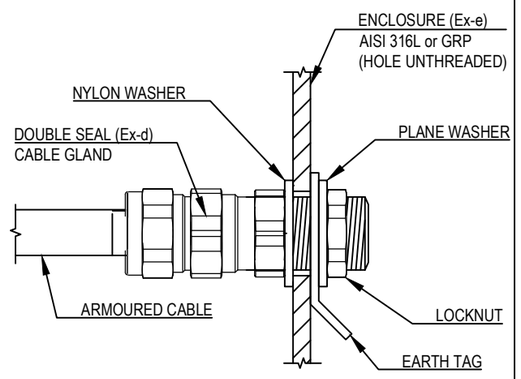
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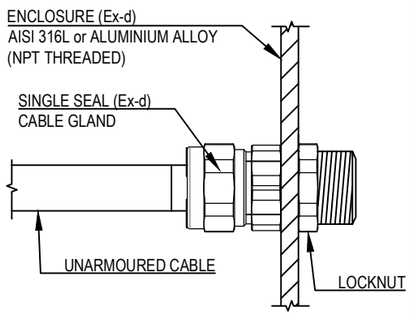
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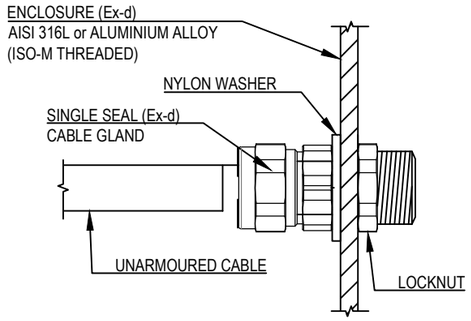
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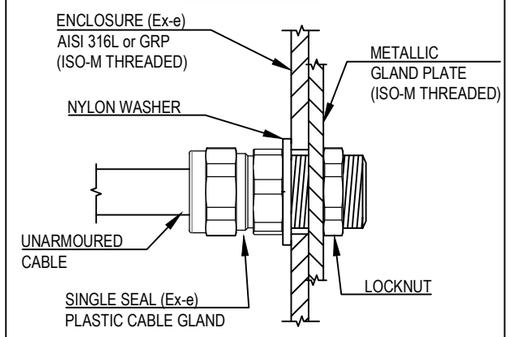
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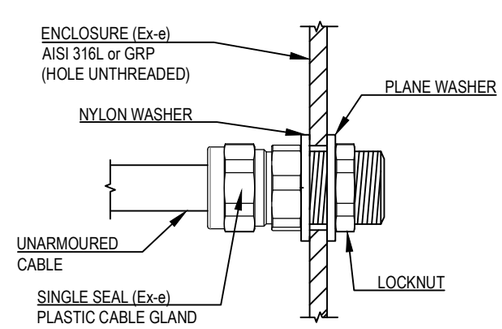
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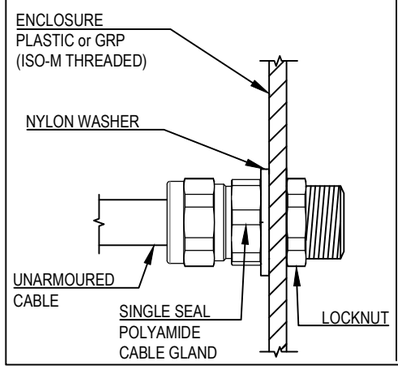
DETAIL "7"



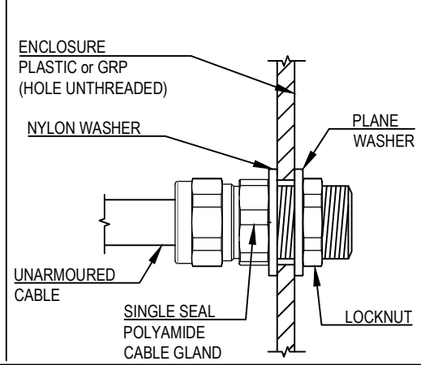
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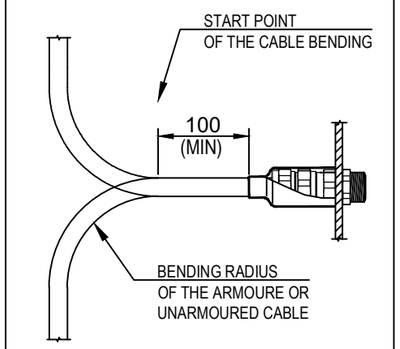


DETAIL "9"



DETAIL "10"





NOTES:

1) IF A REDUCTION OR ADAPTAR ARE NEEDED, ONLY ONE SHALL BE ALLOWED.
2) FOR GRP JUNCTION BOXES AND EQUIPMENTS CONNECTED BY ARMOURED CABLE, CABLE GLAND SHALL BE NICKEL PLATED BRASS TYPE AND GRP JUNCTION BOX AND EQUIPMENTS EQUIPPED WITH NICKEL PLATED CABLE GLAND PLATE. IF THE CABLE IS NON-ARMOURED, CABLE GLAND MAY BE POLYAMIDE TYPE.
3) SINGLE CORE CABLE SHALL HAVE AN EQUIPMENT ENTRY VIA NON MAGNETIC GLAND PLATE AND CONNECTING BY HDG STEEL CABLE GLAND.
4) OUTDOOR CABLE ENTRIES SHALL PREFERABLY BE FROM BOTTOM ENTRY, SIDE ENTRY SHALL BE SUBMITTED TO THE COMPANY APPROVAL. CABLE ENTRY FROM TOP IS FORBIDDEN.

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

REV.:	DATE:	SIGNATURE:
2_A	28/08/24	G.Randi

ROSETTI MARINO SpA

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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
POWER TYPICAL DETAIL CABLE GLAND INSTALLATION FOR E&I CABLES

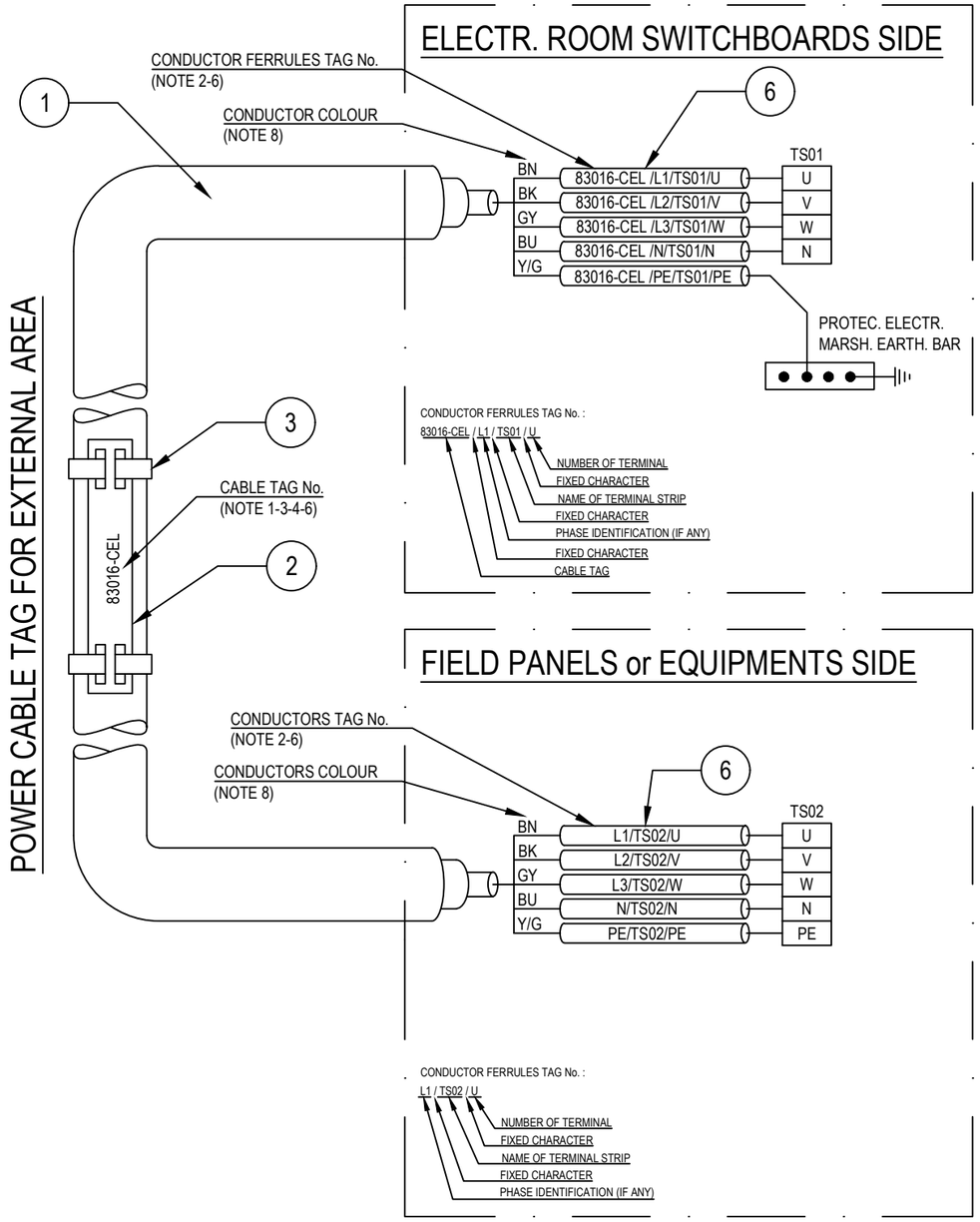
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 006 | REV. 02

F.to UNI A3: 420mmx297mm

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

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.

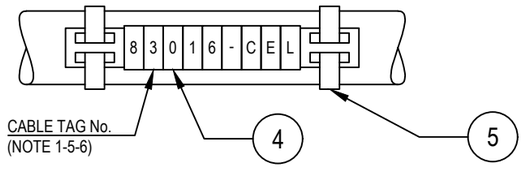
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

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.: 2_A | DATE: 28/08/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

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)

CROSSWIND

ROSETTI MARINO

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

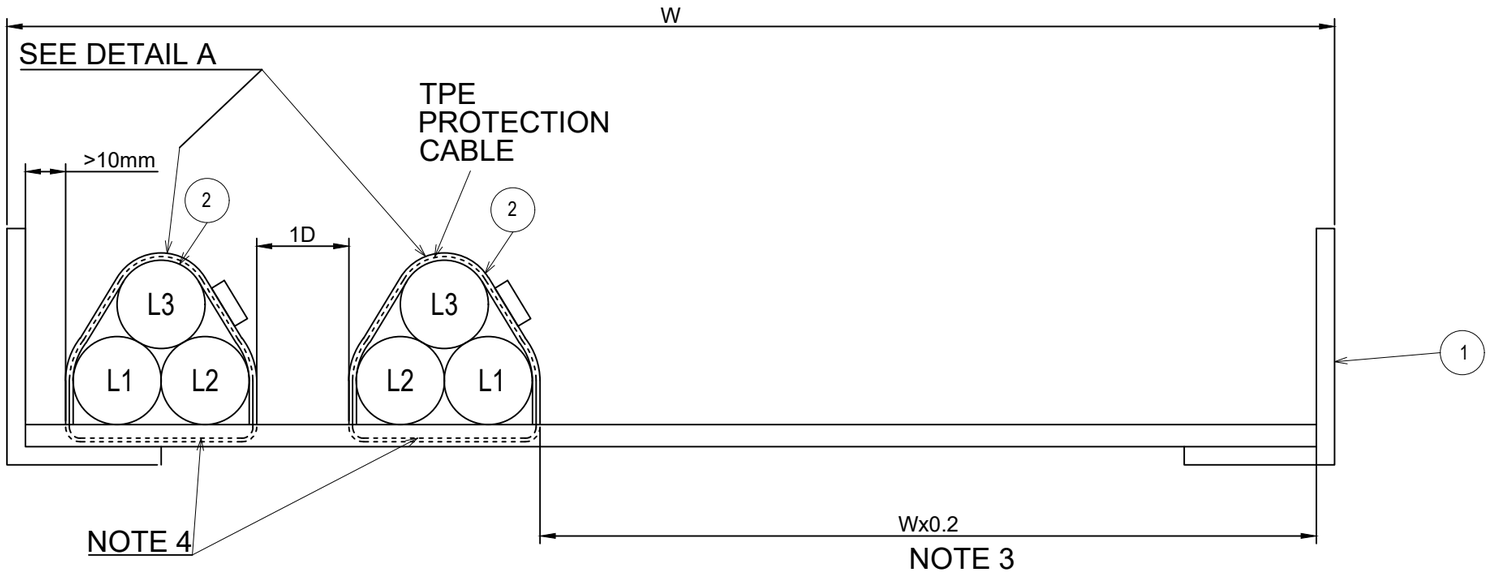
A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

F.to UNI A3: 420mmx297mm

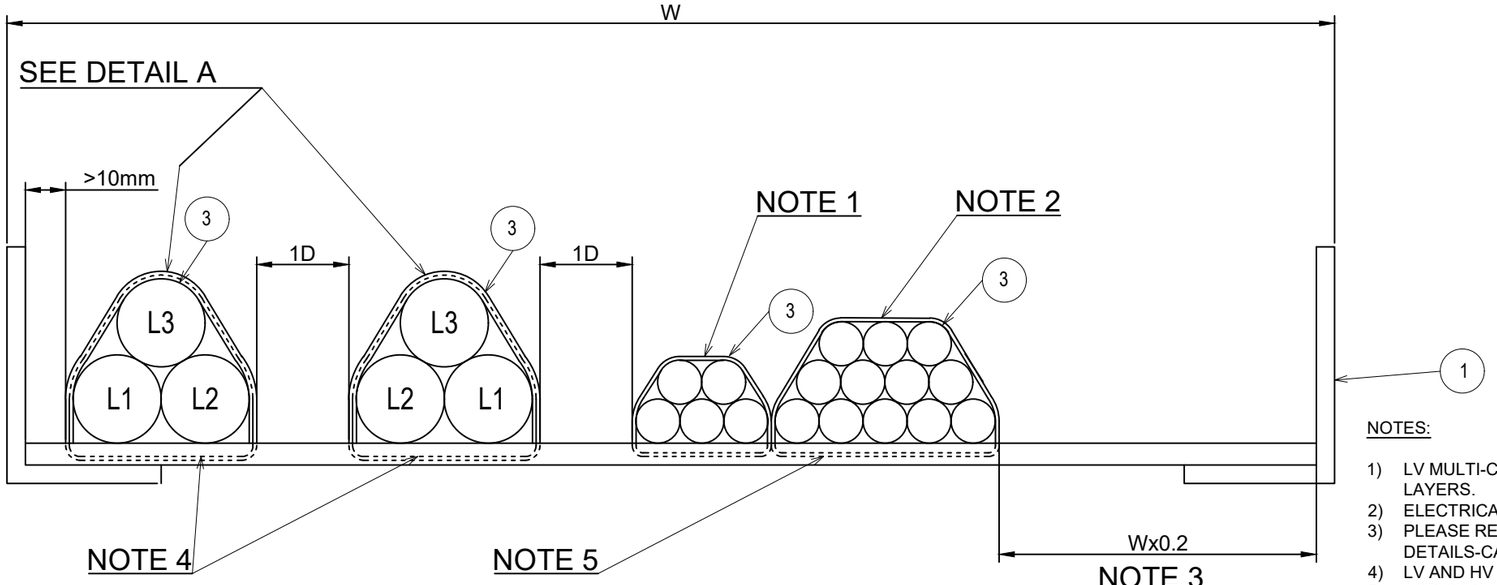
File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

C-05A

HV CABLETRAY

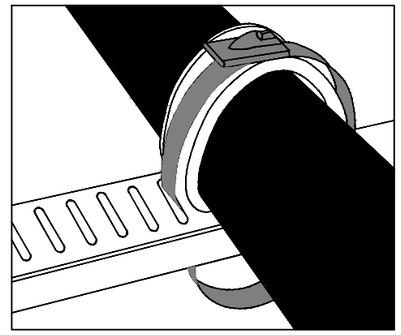


LV CABLETRAY



MATERIALS		
POS.		DESCRIPTION
1		CABLE LADDER AISI 316L
2		CABLE CLEATS STAINLESS STEEL FOR HV CABLES WITH TPE CABLE PROTECTION
3		UV RESISTANT PVC CABLE TIES
4		CABLE CLEATS STAINLESS STEEL FOR LV CABLES WITH TPE CABLE PROTECTION

DETAIL CABLE CLEATS



NOTES:

1) LV MULTI-CORE POWER CABLE (LESS THAN 120SQMM) CAN BE INSTALLED ON TWO LAYERS.
2) ELECTRICAL CONTROL CABLES CAN BE INSTALLED ON THREE LAYERS.
3) PLEASE REFER 123A90-DDL-EL-DD-20093-ELECTRICAL TYPICAL INSTALLATION DETAILS-CABLE ROUTES SYSTEM SHEET-003 FOR CABLE SEGREGATION DETAIL.
4) LV AND HV SINGLE CORE POWER CABLE INSTALLED IN TREFOIL FORMATION.
5) FOR CABLE TIES INSTALLATION SEE DETAIL "C-06" ON SH.011.
6) CABLES BETWEEN TR-200DE1 TRASFORMER AND SG-200N1 POWER CENTER HAVE TO BE PROVIDE WITH CABLE CLEATES WITH STAINLESS STEEL TYPE

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

REV.:	DATE:	SIGNATURE:
2_A	28/08/24	G.Randi

ROSETTI MARINO SpA

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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES ARRANGEMENT IN CABLE LADDER/TRAY FOR ELECTRICAL 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 009 | REV. 02

F.to UNI A3: 420mmx297mm

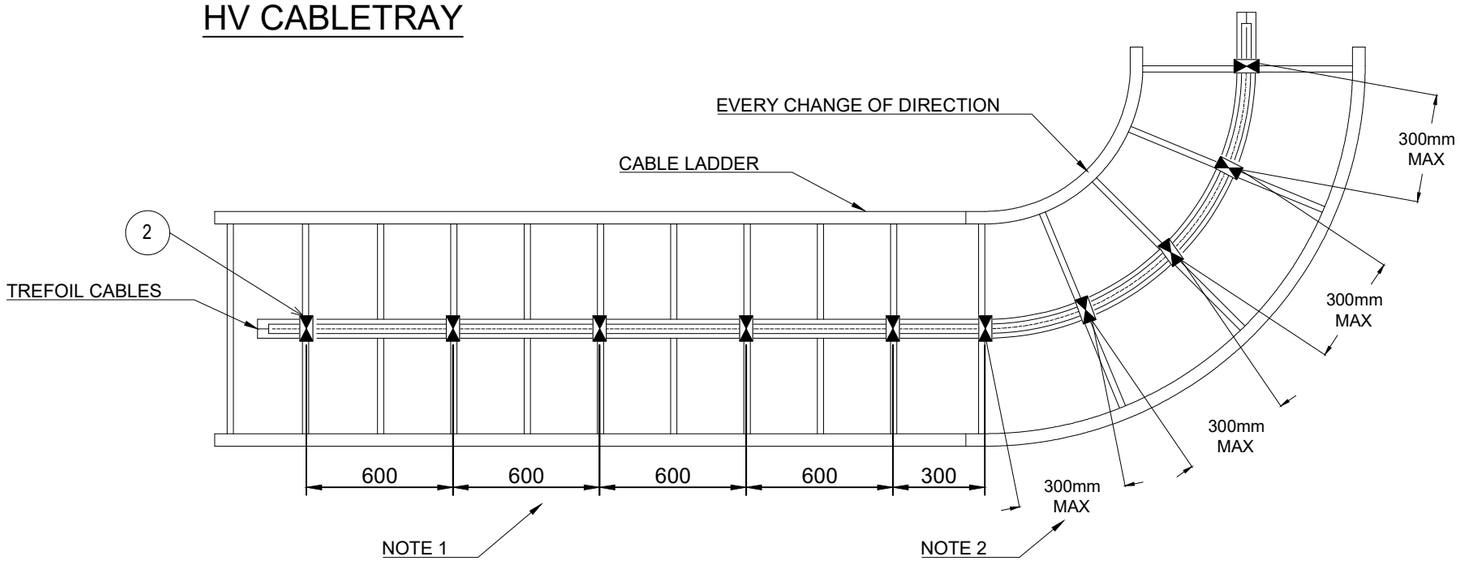
File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

C06

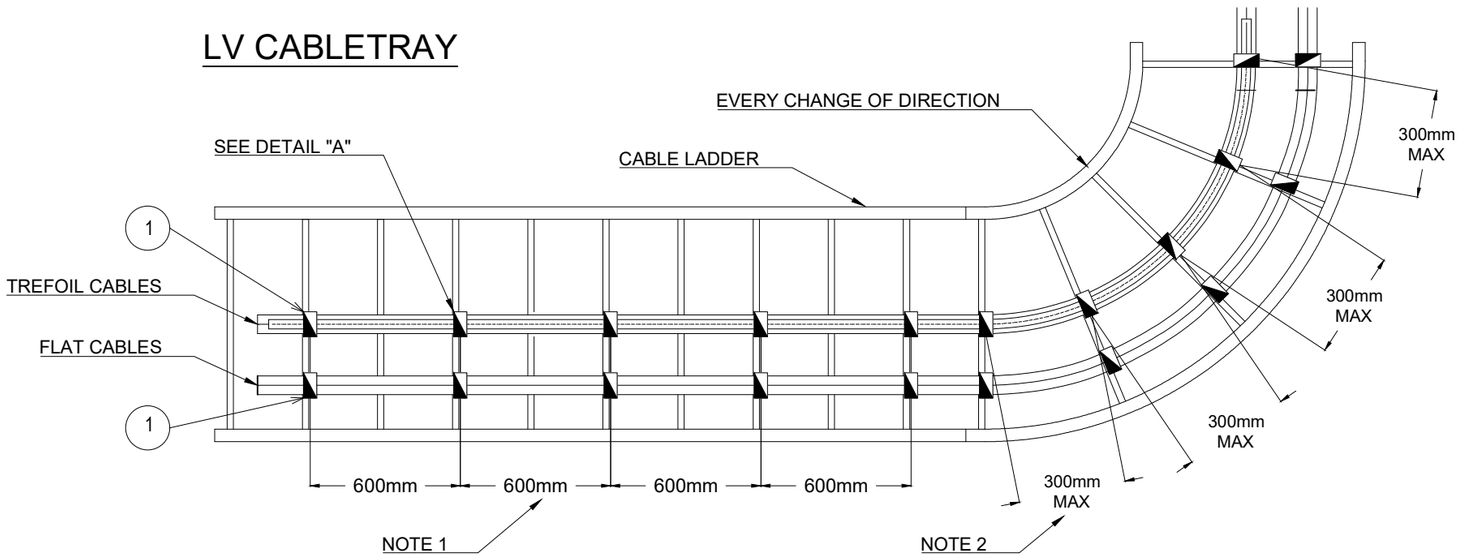
MAXIMUM CABLE TIES/CLEATS SPACING INSTALLATION DETAILS

MATERIALS		
POS.		DESCRIPTION
1		UV RESISTANT PVC CABLE TIES
2		STAINLESS STEEL DOUBLE WRAPPED CABLE CLEATS COMPLETE WITH TPE CUSHION SLEEVING

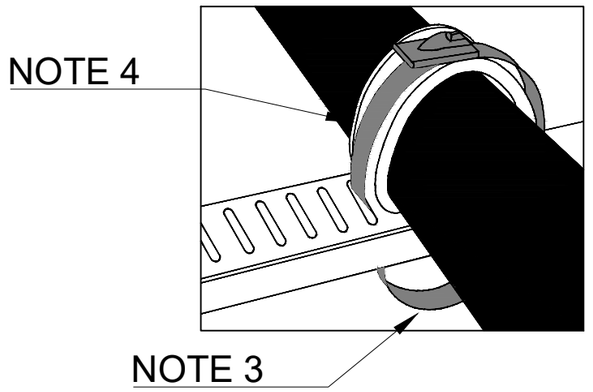
HV CABLETRAY



LV CABLETRAY



DETAIL "A" CABLE CLEATS



NOTES:

1) CABLES TIES SHALL BE HELD EVERY 600mm (CLEATS EVERY 600mm) ON HORIZONTAL RUNS.
2) CABLES SHALL BE HELD EVERY 300mm ON HORIZONTAL/VERTICAL ELBOW AND ON VERTICAL RUNS.
3) CABLE CLEATS WRAPPED TWO TIME AROUND THE CABLE RUNS.
4) TO PROTECT THE CABLE, INSTALL THE CUSHION SLEEVE BETWEEN THE CLAMP AND THE CABLE.

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20092
REV.: 2_A | DATE: 28/08/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

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)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
MAXI. CABLE TIES SPACING TYPICAL INSTALLATION DETAILS CABLE FASTENING IN TRAYS/LADDER

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

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 010 | REV. 02

F.to UNI A3: 420mmx297mm

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

ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	JB-200E2_TEMP	: Temporary Junction Box			Dwg	
	S/Sys	83-99	: 400 V Temporary Yard Supply			Module	
TASK	code	C10003043		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX31 Junction and Marshalling Box

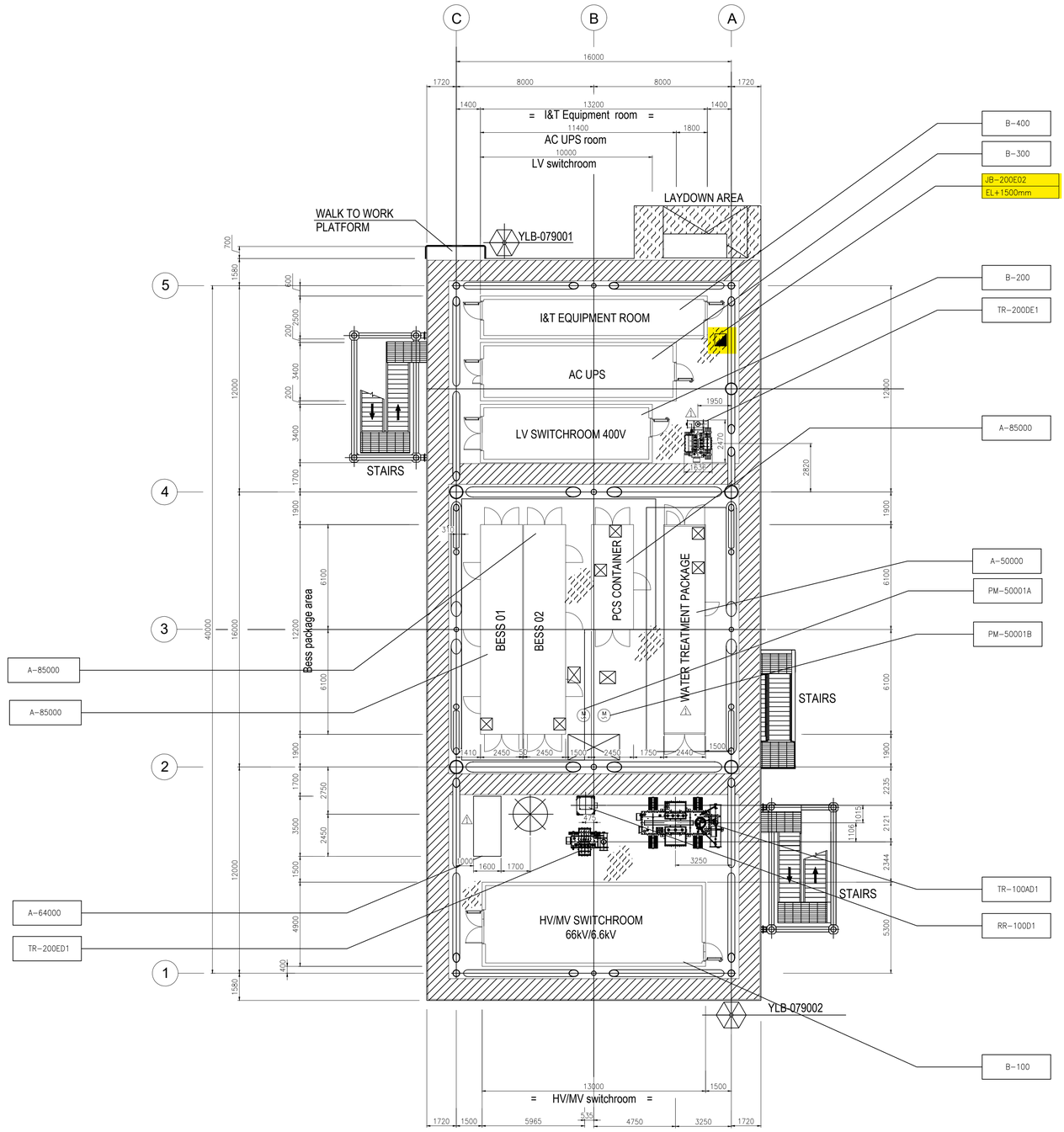
1	Check box is de-energized and safe.	OK
2	Check box is correctly mounted and easily accessible.	OK
3	Check box tagging against drawing.	Note
4	Check nameplate data is correct.	Note
5	Check flameproof joints are clean and greased with approved lubricants (if required).	OK
6	Check for damaging gaskets.	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: Note: 3/4: The chek on the Tag and labeling of the JB,will be done during the repleace on the JB. Please refer to the rilevant RFI.

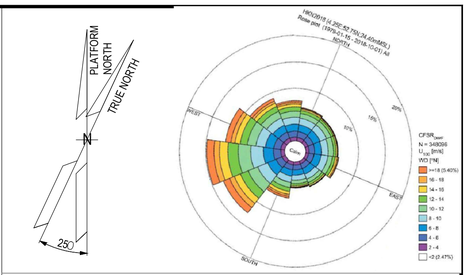
	Performed by	☉ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS Impianti	RM (Rosetti Marino)	
Name	Carmelo Bongiovanni	Giovanni Tangianu	
Date	2024-09-13	2024-09-20	
Signature	PROVERLIS Digitaly signed by Carmelo Bongiovanni 2024-09-13T07:17:37.984Z	Firma Digitale Sicura Giovanni Tangianu 2024-09-20T11:45:55+0200	

DRAWING NO. 123A90-DDL-EL-DL-20101

REV. 01



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



NOTES

1. ALL DIMENSIONS IN MM UNLESS NOTED OTHERWISE.
2. ALL ELEVATIONS IN METERS. UNLESS NOTED OTHERWISE.
3. ELEVATIONS REFER TO T.O.S.
4. FOR ELECTRICAL EQUIPMENT LAYOUT OF CONTAINERS B-100, B-200, B-300, B-400 REFER TO THE RESPECTIVE LAYOUTS.

LEGEND

(M)	ELECTRIC MOTOR – LOW VOLTAGE
⊠	INTERFACE PANEL
◪	JUNCTION BOX
JB-200E2 / EL+500mm	TAG ITEM / REFERED ELEVATION TO T.O.S. (TOP OF STEEL)

HOLDS

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20106	ELECTRICAL EQUIPMENT LAYOUT UPSs & BATTERIES SWITCHROOM
123A90-DDL-IN-DL-40012	ITER EQUIPMENT LAYOUT
123A90-DDL-EL-DL-20104	ELECTRICAL EQUIPMENT LAYOUT HV & MV SWITCHROOM
123A90-DDL-EL-DL-20105	LV SWITCHGEAR ROOM EQUIPMENT LAYOUT

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/05/24	SAM	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	04/03/24	SAM	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20101**

REV.:	DATE:	SIGNATURE:
1_A	08/08/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND | ROSETTI MARINO

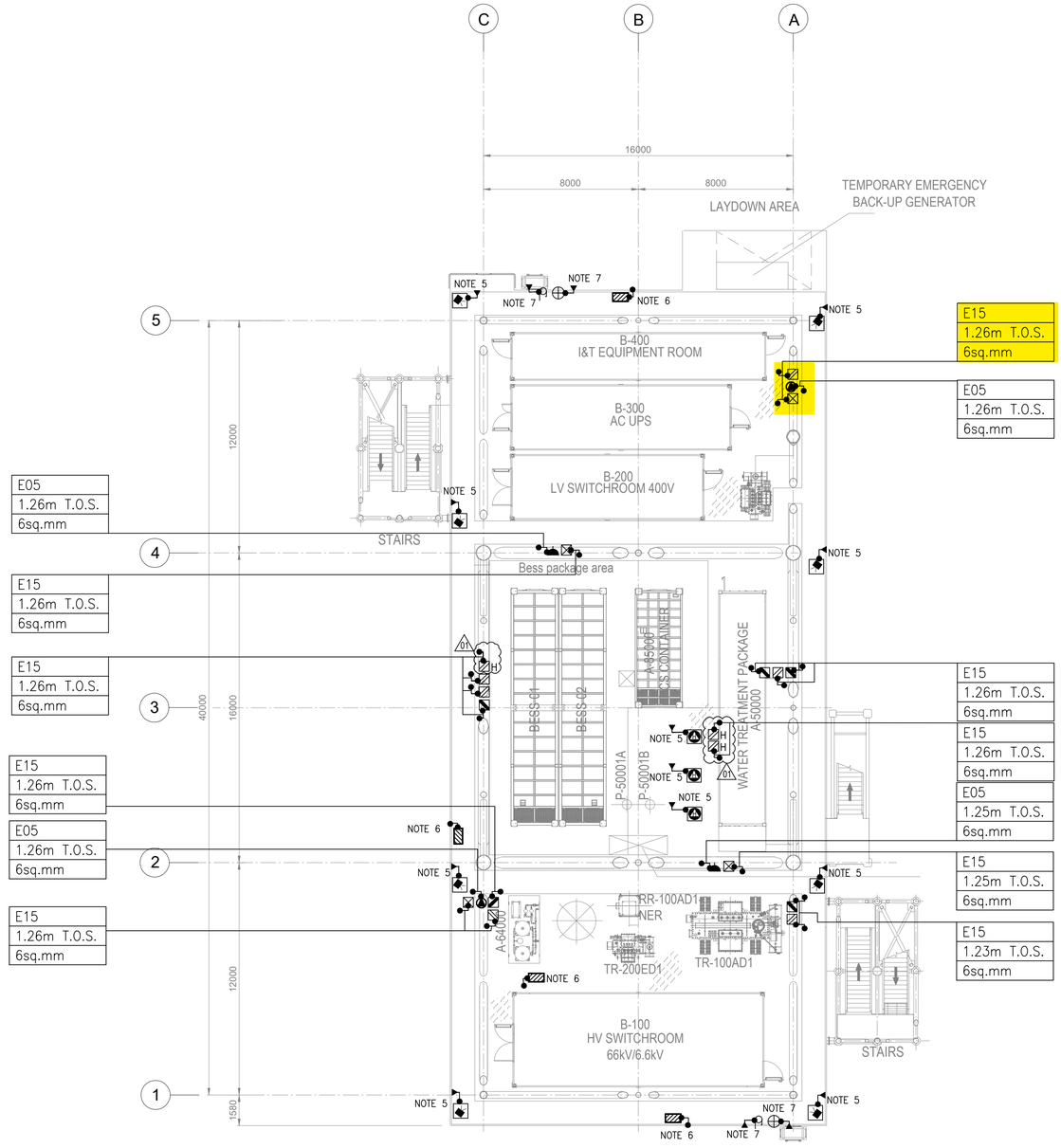
TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL EQUIPMENT LAYOUT
LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN SAM	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 04/03/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20101	SHEET 001	REV. 01

File Name : 123A90-DDL-EL-DL-20101-Electrical Equipment Layout – Lower Deck

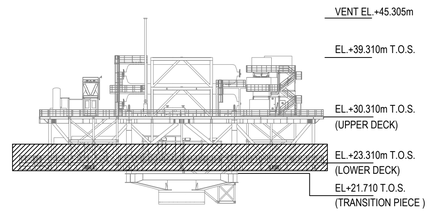
DRAWING NO. 123A90-DDL-EL-DL-20133

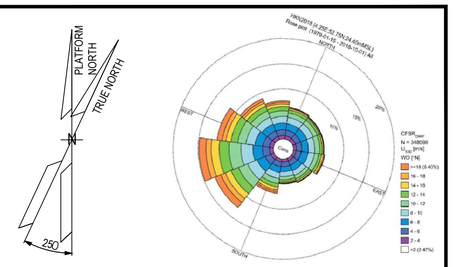
REV. 01



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

KEY PLAN





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. THIS DOCUMENT IS ONLY VALID FOR EARTHING LAYOUT.
4. ALL ELECTRICAL EQUIPMENT NOT DIRECTLY WELDED TO SKID FRAME SHALL BE BONDED TO STEEL TO THE STRUCTURE OF SKID BASEFRAME.
5. ALL POLE MOUNTED INSTRUMENT DETECTORS WILL BE EARTHED AS PER TYPICAL E05 AND E24.
6. ALL INSTRUMENT RACK WILL BE EARTHED AS PER TYPICAL E15.
7. LIFE JACKET, MANUAL WINCH WILL BE EARTHED AS PER TYPICAL E11D.

LEGEND

- POINT SOURCE HYDROGEN DETECTOR
- EARTHING BOSS AISI316L
- COMPRESSION TYPE LUG TINNED COPPER
- THREADED STUD FOR EARTHING CONNECTION
- Exx EARTHING TYPICAL CODE
- EMERGENCY & NORMAL LIGHTING JB
- TRACE HEATING POWER SUPPLY JUNCTION BOX (COLD JB) (01)
- WELDING SOCKET & JB
- SMALL POWER SOCKET & JB
- UV-IR FLAME DETECTOR
- INSTRUMENT RACK
- LIFE JACKET
- MANUAL WINCH
- TYP. — TYPICAL
- ELE — ELEVATION
- SIZE

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DD-20090	ELECTRICAL TYPICAL INSTALLATION DETAILS - EARTHING SYSTEM
123A90-DDL-EL-RE-20154	LIGHTNING PROTECTION SYSTEM CALCULATION REPORT
123A90-DDL-EL-DL-20119	LIGHTING & SOCKET LAYOUT - LOWER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-SAF-DL-30027	F & G DETECTORS LAYOUT - LOWER & UPPER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	25/07/24	SAM	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
EARTHING & LIGHTNING LAYOUT
LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN SPS	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 25/07/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20133	SHEET 002	REV. 01

SHEET 002 OF 002

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20133**

REV.:	DATE:	SIGNATURE:
1_A	08/08/24	G.Randi

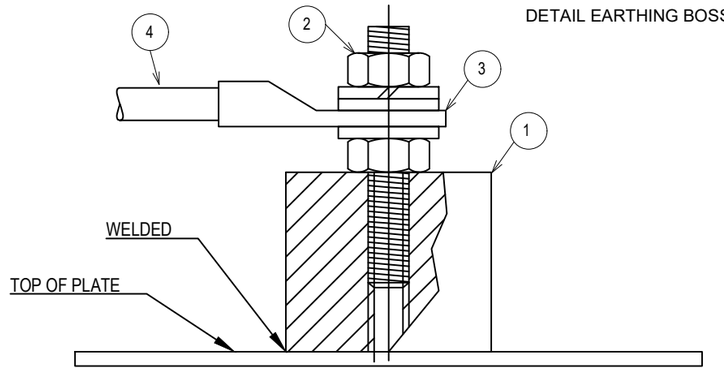
ROSETTI MARINO SpA

File Name : 123A90-DDL-EL-DL-20133

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	EARTHING BOSS WITH THREADED HOLE M10	AISI 316L	50X50 50X150	1	NOTE 2
2	STUD BOLT WITH PLANE WASHER, GROWER AND NUT	AISI 316L	M10X50		
3	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER			NOTE 3
4	Y/G INSULATING COPPER CONDUCTOR				NOTE 1 NOTE 5
5	EARTHING PLATE	AISI 316L (NOT PAINTED)	50X50X5		NOTE 4
6	HEXAGONAL BOLT WITH PLANE WASHERS, GROWER AND NUT.	AISI 316L	M10X30		
7	THREADED STUD COMPLETE WITH GROWER AND NUTS	AISI 316L	M10X28		NOTE 6 NOTE 7

E11A

DETAIL EARTHING BOSS 50x50

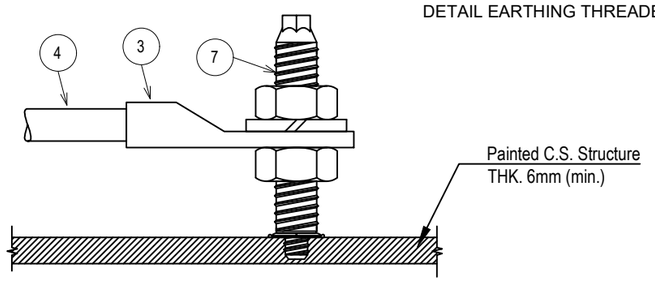


E11D

SEE NOTE 6

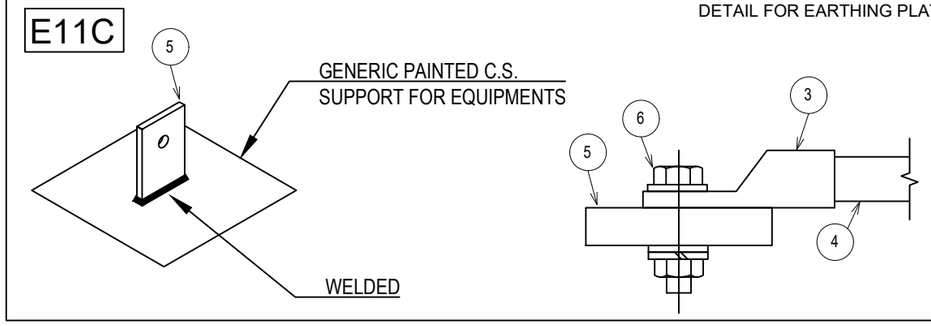
FOR CABLE
MAX 10mm²

DETAIL EARTHING THREADED STUD



E11C

DETAIL FOR EARTHING PLATE

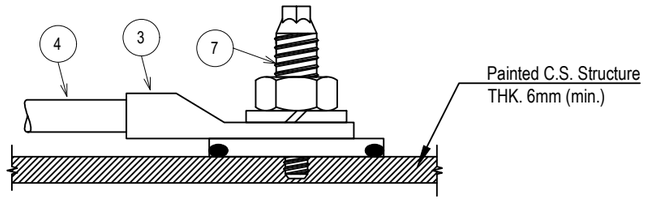


E11E

SEE NOTE 7

FOR CABLE
MAX 35mm²

DETAIL EARTHING THREADED STUD



NOTES:
1) ONLY ONE PROTECTIVE CONDUCTOR TERMINATION LUG SHALL BE CONNECTED TO A DEDICATED EARTHING BOSS, EARTH PLATE OR EARTH STUD.
2) EXTERNAL EARTHING CONNECTION ONLY SHALL BE PROTECTED AGAINST CORROSION USING OXIDE RESISTANT COMPOUND (E.G. COPPER GREASE).
3) CABLE LUG CRIMPING METHOD SHALL BE HEXAGONAL COMPRESSION DIES ONLY.
4) EARTHING PLATE SHALL BE DEDICATED TO CABLE TRAY AND PIPE SUPPORTS, JUNCTION BOX, LOCAL CONTROL STATION AND SMALL EQUIPMENT SUPPORTS, LIGHTING POLES, RECEPTACLE SUPPORTS AND REMOVABLE HANDRAILS, ONLY.
5) FOR SIZE OF THE EARTHING CABLE SEE EARTHING LAYOUT DRAWINGS OF RESPECTIVE AREAS
6) HILTI S-BT-ER M10/15 SN6 CERTIFIED FOR EARTHING SYSTEM. RECOMMENDED MAX CONDUCTOR SIZE 10mm².
7) HILTI S-BT-ER M10 HC 120 CERTIFIED FOR EARTHING SYSTEM. RECOMMENDED MAX CONDUCTOR SIZE 35mm².

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20090**

REV.:	DATE:	SIGNATURE:
2_B	02/09/24	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
SINGLE EARTHING CONNECTION

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

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DD–20090

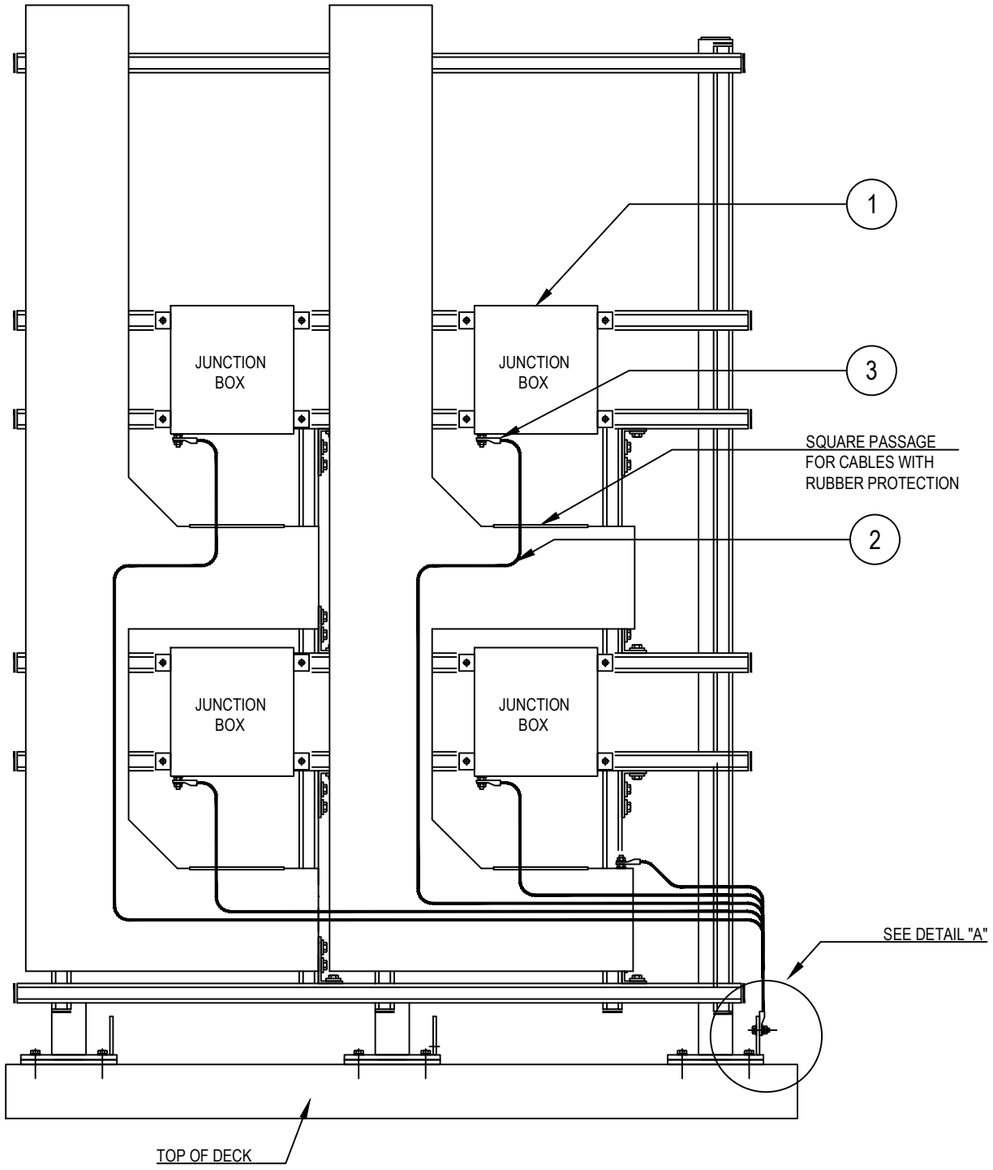
SHEET 003

REV. 02

F.to UNI A3: 420mmx297mm

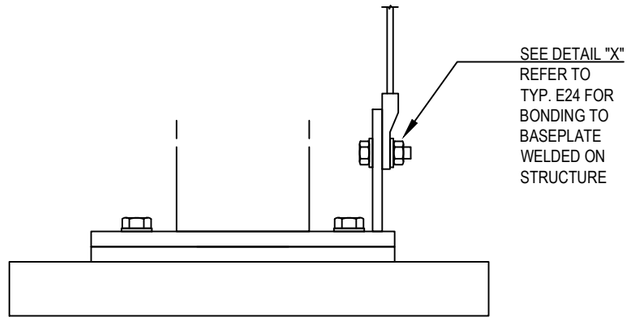
File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

E15

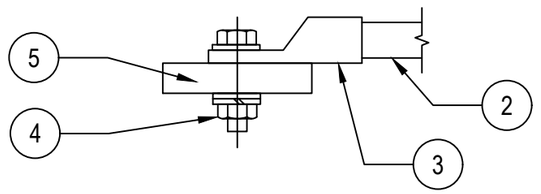


POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	JUNCTION BOX (Ex)	GRP			
2	Y / G INSULATING COPPER CONDUCTOR	COPPER	$6mm^2$		
3	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	AISI 316L	$6mm^2$		NOTE 1
4	HEXAD BOLTS, PLANE WASHERS, GROWER SPRING WASHER AND NUT	AISI 316L	M8X30		
5	EARTHING PLATE	AISI 316L			NOTE 2

DETAIL "A"



DETAIL "X"



NOTES:

1) CABLE LUG CRIMPING METHOD SHALL BE HEXAGONAL COMPRESSION DIES ONLY.
2) EARTHING PLATE WELDED ON BASE PLATE OF THE COLUM SUPPORT. SEE TYPICAL DETAIL E24
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-DL-20090**

REV.:	DATE:	SIGNATURE:
2_B	02/09/24	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 AND INSTRUMENTALE JB MOUNTED ON RACK SUPPORT

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

A3 | DRAWING NO. 123A90–DDL–EL–DD–20090 | SHEET 007 | REV. 02

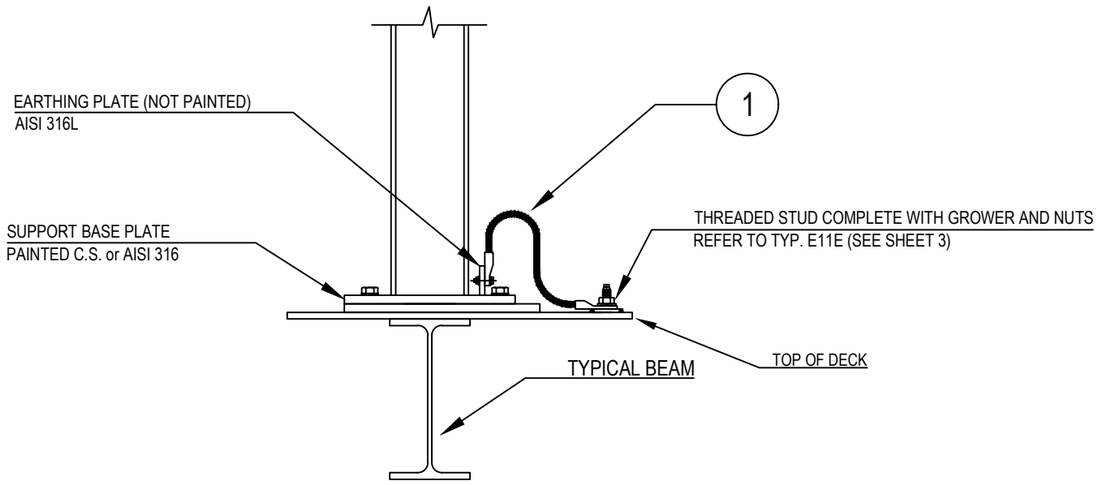
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

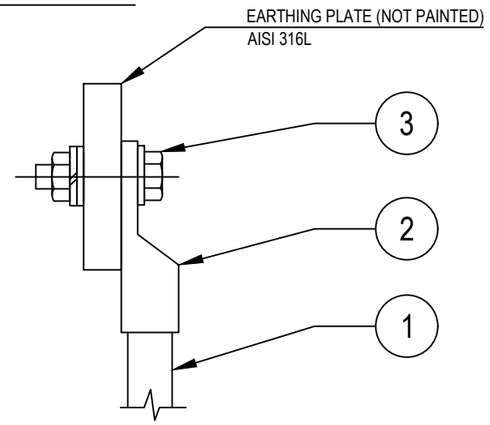
E24

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-DL-20090**

REV.:	DATE:	SIGNATURE:
2_B	02/09/24	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

Line Item No:	P025579/014	Description:	EX KTB FS 553520 EXI Item 01B

Details of Item to be Supplied (please study carefully)

1x KTB FS 553520 S4E3: Klippon TB FS (Terminal Box - Fixing Screw), Empty enclosure, stainless steel enclosure, Height: 550 mm, Width: 350 mm, Depth: 200 mm, Gland plates: Bottom, Material: Stainless steel 1.4404 (316L), electropolished, silver

1x KTB MOPL 5535 S2N H: Mounting plate, prepunched, Height: 495 mm, Width: 289 mm, Depth: 1.5 mm, Material: Stainless steel 1.4301 (304), untreated, silver

1x KLIPPON BDX M20 S: (compensating elements), Compensating element, M 20, 10 mm, IP66, Stainless steel 1.4404 (316L)

1x PEBZ M10 S4 SET: Earthing stud, Miscellaneous, Material: Stainless steel 1.4404 (316L)

16x VPMS Ex (ex blanking plug, brass), Blanking plug, M 20, 12 mm, Brass, nickel-plated

1x VPMS Ex (ex blanking plug, brass), Blanking plug, M 40, 12 mm, Brass, nickel-plated

Terminal Rail

TS 35 x 7.5, Stainless steel, horizontal equipped with:

2x WEW 35/2: Accessories, End bracket

49x WDU 2,5: Feed-through terminal, Screw connection, 2,5 mm², beige
Marked as: 1,2,Sh., ...32, Sh., Sh.

Earth Bar

1x SSCH 10X3X1000 CU/SN Busbar, Copper

2x SH1 Rail support, Polyamide 66

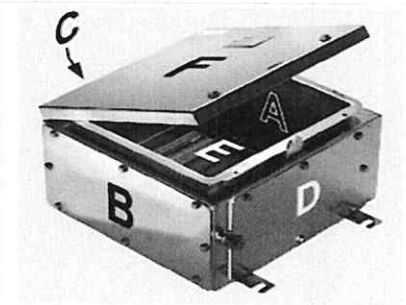
10x ZB 4K GN/GE Clamping yoke for busbar, Rated cross-section: Clamping yoke, PA, green/yellow, Feed-through (bushing)

Certification label: Stainless steel 60x55

TAG label: Stainless steel 200x35mm, engraved text dimension 25mm

Holes:

Weidmüller Standard sides



A	top	C	left	E	inside rear
B	bottom	D	right	F	front lid

Side A (Top):	
Side B (Bottom):	17x Ø20 Equipped with: 16x plug 1x Breather drain 1x Ø40 Equipped with: 1x plug
Side C (left):	
Side D (rigth):	

Deviations:

Internal bottom plate made in stainless steel instead of tropicalized steel

BDX M20 stainless steel meets both drain valve and breathing valve Tamb not specified: -20º +40ºC									
Comments:									
Drawing Number			8000049531						
ATEX	Y	**IECEx**		**Other (specify)**					
Certificate Number			**IBExU14ATEX1050**						
Certification Detail			II 2G Ex e IIC T6 Gb						
Ambient Temperature				**Tamb – 20 ° C to + 40° C**				**Ingress Protection**	**IP66**
T Rating (Gas)		**T6**		**Max Surface Temperature (Dust)**					
Max. Current			**10A**	**Max Voltage**		**690V**	**Conductor Size**	2,5 **mm²**	
Maximum Labeling surface = (non metallic)			8000 **mm²**	**Cross connection type**				Not applicable	
TAG material	Stainless Steel			**Tag text:**		According to order			

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