# BASE LOAD POWER HUB (BLPH)
# EARTHING & LIGHTNING LAYOUT
# HV SWITCHROOM

| REV. | DATE | DRN | CHKD | APPD | DESCRIPTION |
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| 01 | 25/07/24 | ASR | FMA/AMA | FPA/DLO | ACCEPTED FOR CONSTRUCTION (AFC) |
| 00 | 21/05/24 | SPS | FMA/AMA | FPA/DLO | ISSUE FOR REVIEW (IFR) |

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
EARTHING & LIGHTNING LAYOUT–HV SWITCHROOM
FRONT PAGE

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

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DL–20136

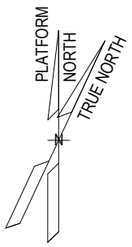
SHEET 001

REV. 01

F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DL–20136 Rev. 01

| REV. | SHEET NUMBER | DESCRIPTION | REF. CODE |
|---|---|---|---|
| 01 | 001 | FRONT PAGE | |
| 01 | 002 | SUMMARY | |
| 01 | 003 | "B-100"HV SWITCHROOM | |
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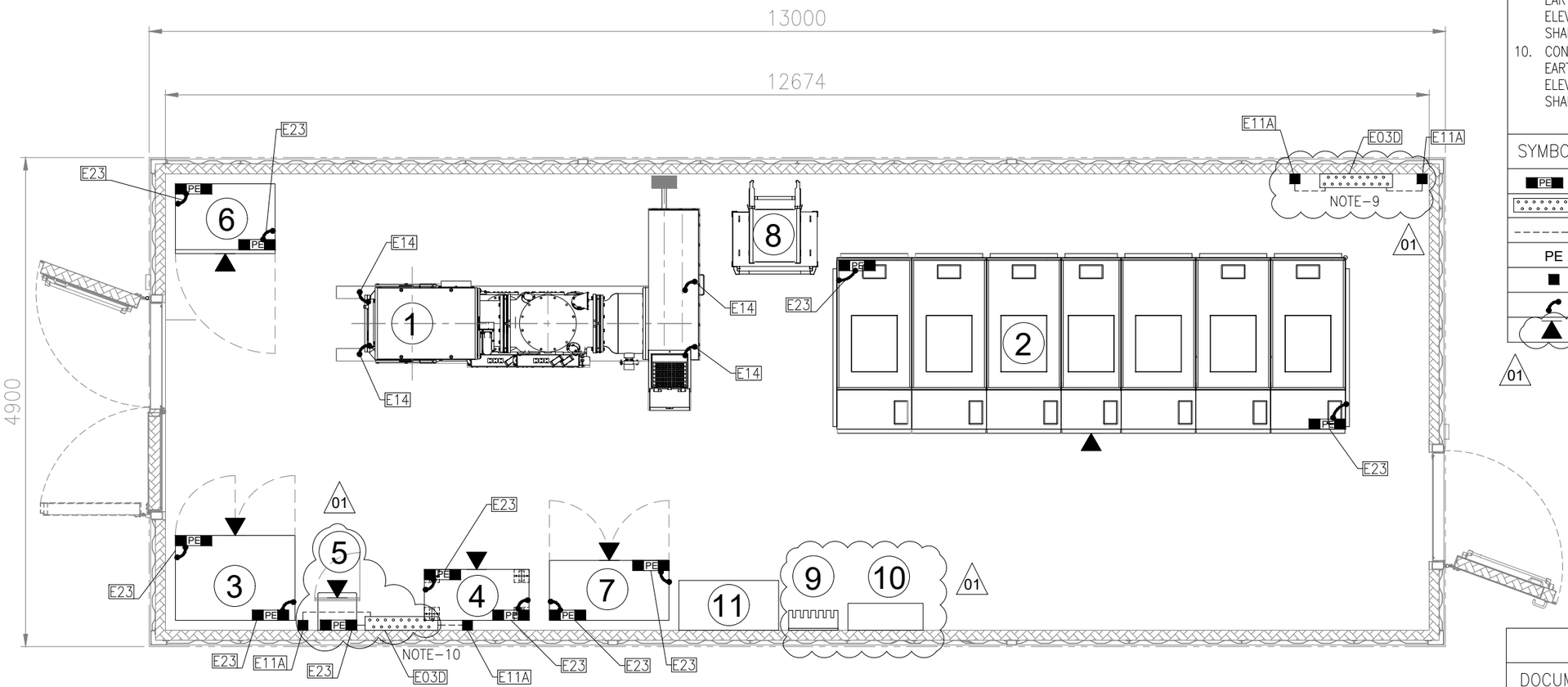



| EQUIPMENT LIST | | |
|---|---|---|
| REF. | TAG No. | DESCRIPTION |
| 1 | HNA6–AFA70 | 66kV SWITCHGEAR (GIS) |
| 2 | SG–100D1 | 6.6kV SWITCHGEAR |
| 3 | UP–200F1 | DC UPS PANEL |
| 4 | BA–200F1 | DC UPS BATTERY RACK |
| 5 | CB–200F1 | ISOLATOR FOR DC UPS |
| 6 | CP–100E1 | 66 kV SWITCHGEAR LOCAL CONTROL PANEL |
| 7 | B100–HSB–001 | DISTRIBUTION & HVAC PANEL – HV SWITCH ROOM |
| 8 | – | SERVICE TROLLEY FOR 6.6kV SWITCHGEAR |
| 9 | – | TOOL BOX |
| 10 | – | ELECTRIC SAFETY KIT |
| 11 | – | TABLE |

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## NOTES

1. THIS DOUCMENT IS VALID ONLY FOR EARTHING LAYOUT.
2. THE CABLE SIZE SHALL BE CONFIRMED.
3. THE EXACT POSITION OF EARTHING/MARSHALLING BUS BAR SHALL BE DEFINED BY VENDOR.
4. THE EARTHING BUS BAR INSTALLATION SHALL BE PREFERABLY IN VERTICAL MODE.
5. FOR TYPICAL DETAILS PLEASE REFER DOCUMENT "123A90–DDL–EL–DD–20090–ELECTRICAL TYPICAL INSTALLATION DETAILS– EARTHING SYSTEM".
6. DUE TO THE TOP CABLE ENTRIES THE EARTHING BUS BAR INSIDE THE CABINETS SHALL BE INSTALLED AT THE TOP OF THE CABINETS THEMSELVES.
7. FOR LIGHTNING PROTECTION SYSTEM SURGE PROTECTIVE DEVICES (SPD), REFER DOCUMENT 123A90–DDL–EL–RE–20154.
8. ALL NON WELDED OBJECTS SHALL BE EARTHED.
9. CONTAINER WILL HAVE A BTH (EARTHING BAR TINNED COPPER) WITH 2 EARTHING BOSS, INSTALLED IN THE NORTH–EAST CORNER AT AN ELEVATION OF 2.8M FROM THE CONTAINER FLOOR. EARTHING BOSS SHALL BE INSTALLED AT SAME ELEVATION 2.8M.
10. CONTAINER WILL HAVE A BTH (EARTHING BAR TINNED COPPER) WITH 2 EARTHING BOSS, INSTALLED IN THE SOUTH–WEST CORNER AT AN ELEVATION OF 2.5M FROM THE CONTAINER FLOOR. EARTHING BOSS SHALL BE INSTALLED AT SAME ELEVATION 2.5M.




EARTHING LAYOUT

B–100–HV(66kV/6.6kV) SWITCHROOM

PLAN

EL.+ 23.310 T.O.S.

| SYMBOL | DESCRIPTION |
|---|---|
| PE | EARTHING BUS |
| | EARTHING BAR TINNED COPPER WITH no.18 HOLES |
| ------- | 35sq.mm Y/G INSULATED COPPER CONDUCTOR FOR PE |
| PE | PROTECTIVE EARTH |
| ■ | EARTHING BOSS AISI316L |
| | JUMPER CONNECTION |
| | FRONT OF EQUIPMENT |

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| REFERENCE | |
|---|---|
| DOCUMENT NUMBER | DOCUMENT TITLE |
| 123A90–DDL–EL–DD–20090 | ELECTRICAL TYPICAL INSTALLATION DETAILS –EARTHING SYSTEM |
| 123A90–DDL–EL–DL–20104 | ELECTRICAL EQUIPMENT LAYOUT– HV SWITCHROOM |
| 01 1724000049–AR–DD–00018 | B–100 DETAILED DRAWINGS–E&I SHELTERS |
| | |

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EARTHING & LIGHTNING LAYOUT–HV SWITCHROOM
"B–100"HV SWITCHROOM

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

SCALE : 1:50

A3

DRAWING NO. 123A90–DDL–EL–DL–20136

SHEET 003

REV. 01

F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DL–20136 Rev. 01