

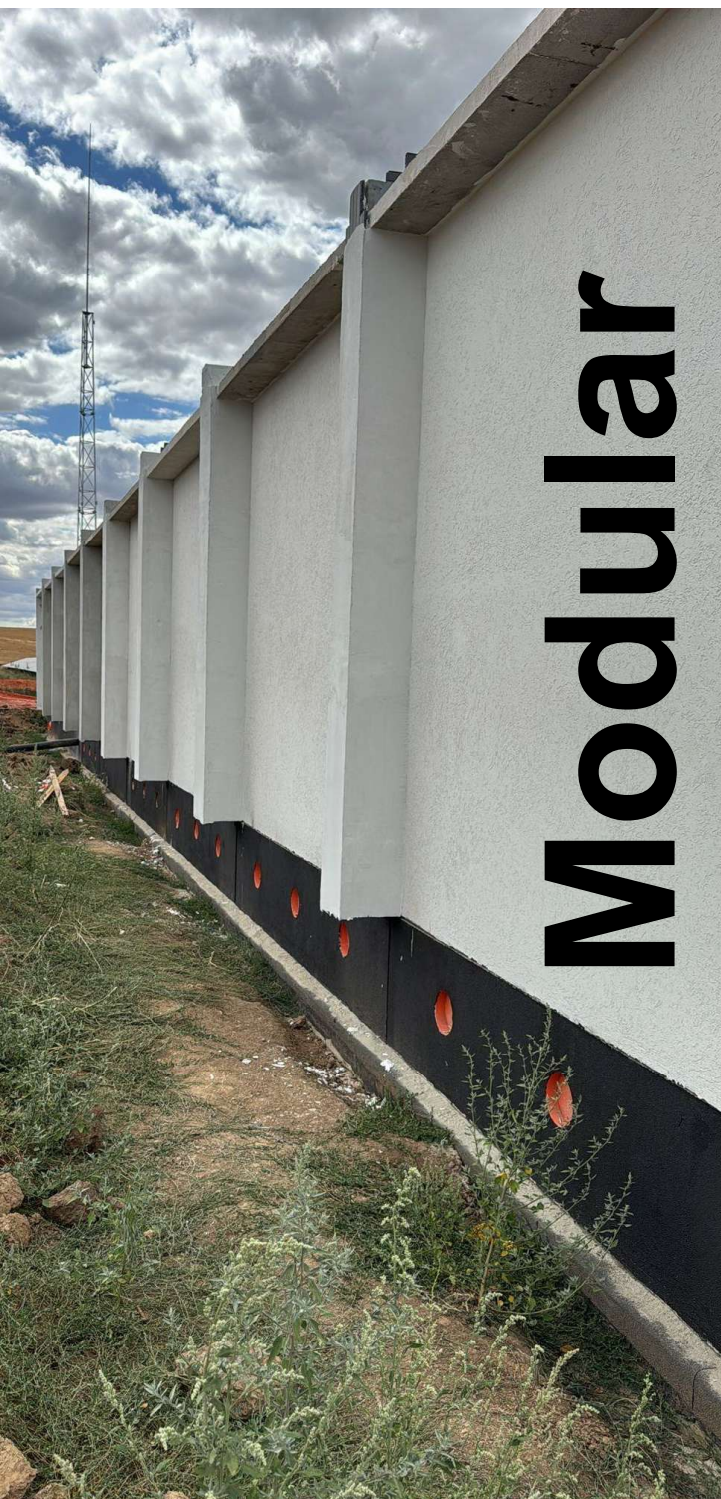
MOD110

Modular • Creative • Resilient • Regenerative
110 kV Modular Electrical Substation



MOD110 - 110 kV Modular Prefabricated Electrical Substation, developed as a fully modular, scalable and reproducible architectural-technical system for contemporary energy infrastructure. Its configuration enables rapid installation, operational efficiency and the integration of sustainability solutions (PV-BIPV, biophilic strategies, green concrete material).

MOD110 introduces a new typology of technical architecture focused on resilience, replicability and regenerative design.



Resilient



5 modules minimal version
2xMCP+3xMMT

The design was induced mainly by the theme: MODULAR. Too technical to be creative or too CREATIVE to fit into TECHNICAL. Necessary, Simple, not simplistic, INNOVATION.

TEAMWORK with many synopes, negotiations, disagreements, and impossible compromises accepted by mutual agreement, **PLAY** determined RESILIENCE through FLEXIBILITY sine qua non imposed: smart **LEGO** significantly reduced the execution period. **RECYCLABILITY** through material, green concrete option

LEGO

DESIGN

renewable energy production
1xMSA+2xMCP+8xMMT

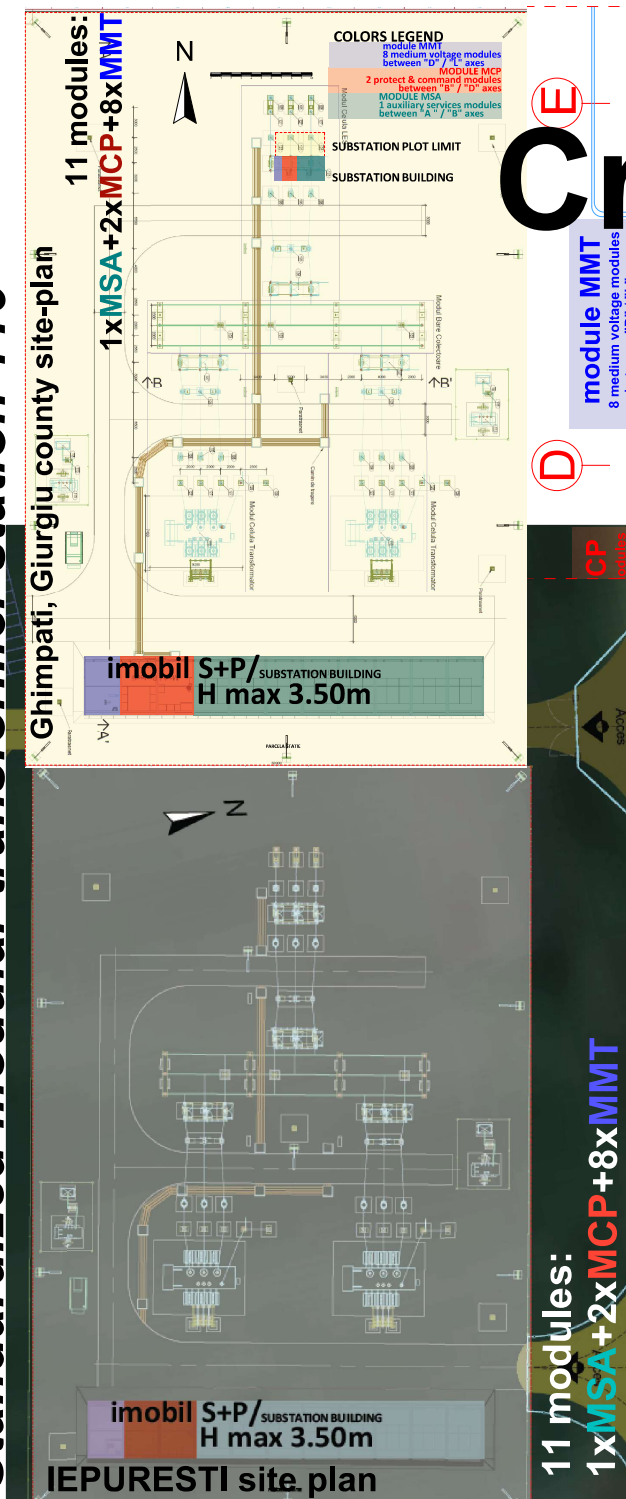


Renewable

grid connection

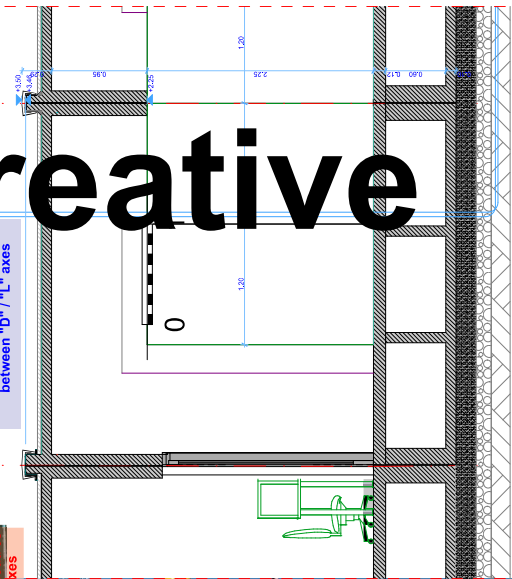
MOD 110

Standardized modular transformer station 110



Creative

module MMT
8 medium voltage modules
between "D" / "L" axes



Modular
Teamwork
Replicable Flexible
Biophilic
Renewable Energy
Resilient
Recyclability
Technical

Flexible

MOD 110

*modular High Voltage
substation, SEN connection for
RENEWABLE ENERGY PV
production*



Energy

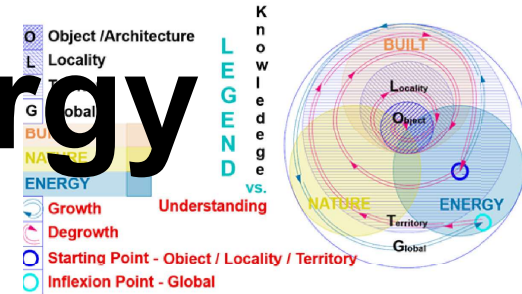
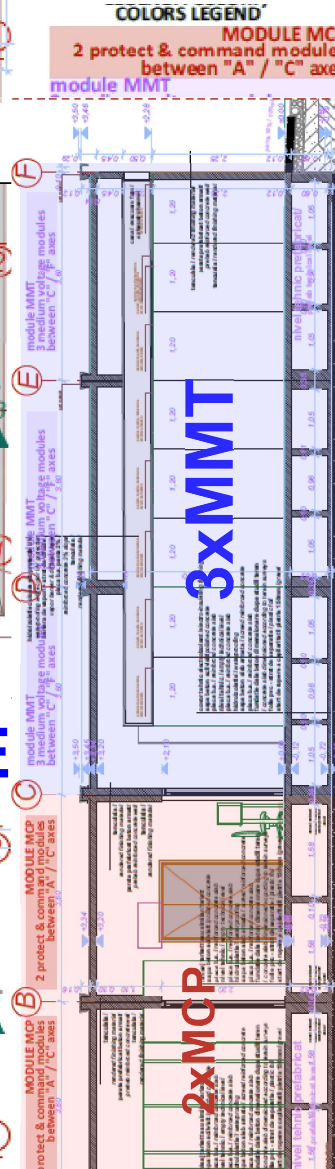
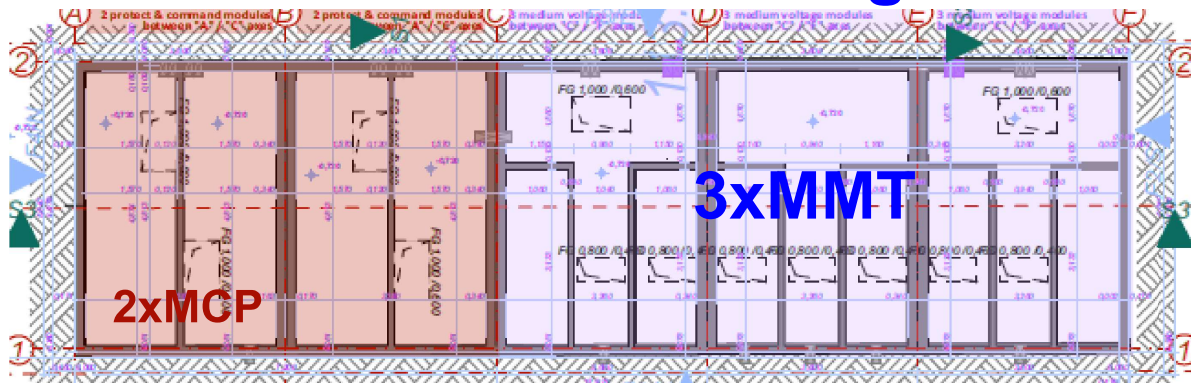
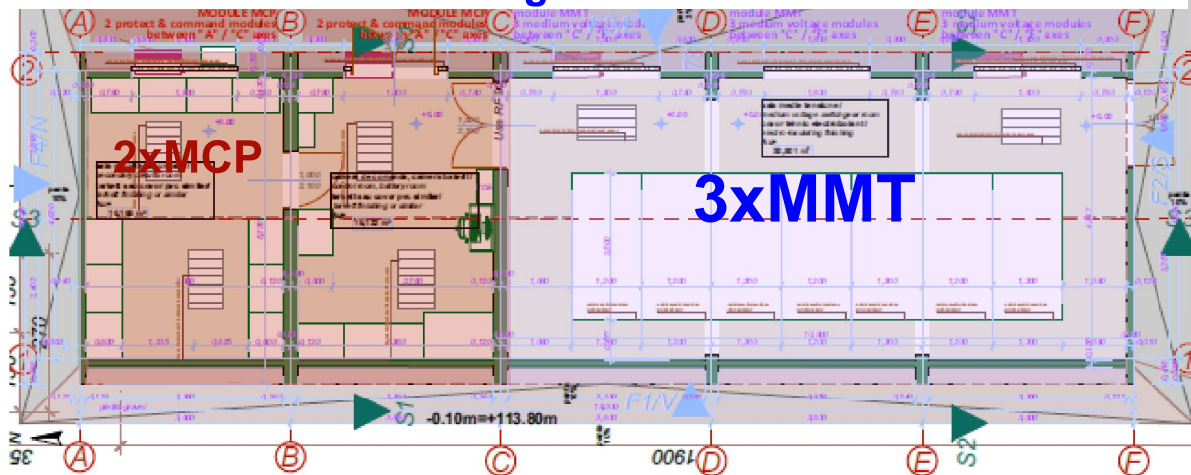
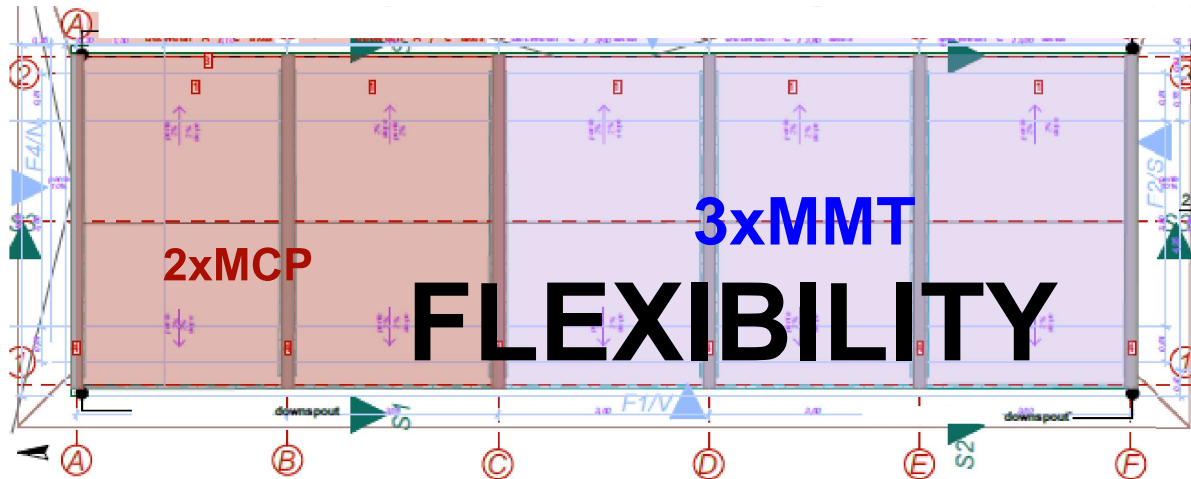


Diagram - Project Initiation: Territory / Energy MOD110 as replicable product is highly relevant due to its modularity; its flexibility allows it to serve multiple users with a major positive impact on the power grid, and it can be adapted to the needs of a relevant producer, distributor, or consumer. Depending on the number of power transformers and the connection solution to the power grid, multiple substation configurations can be established.



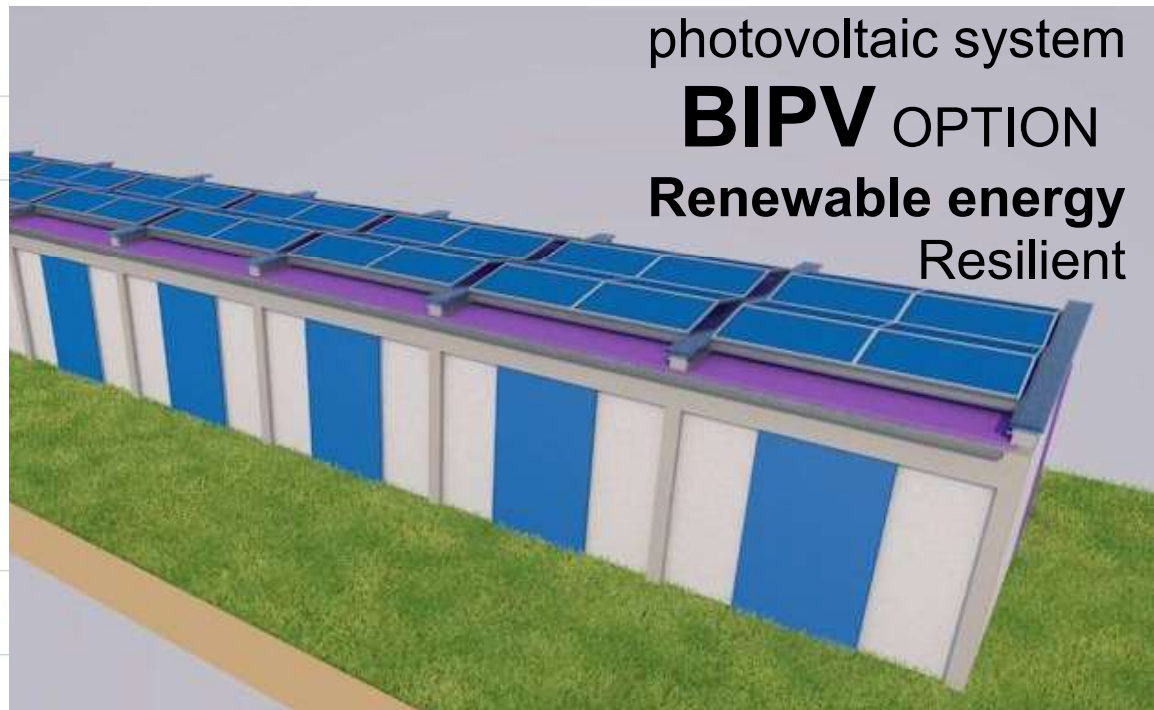
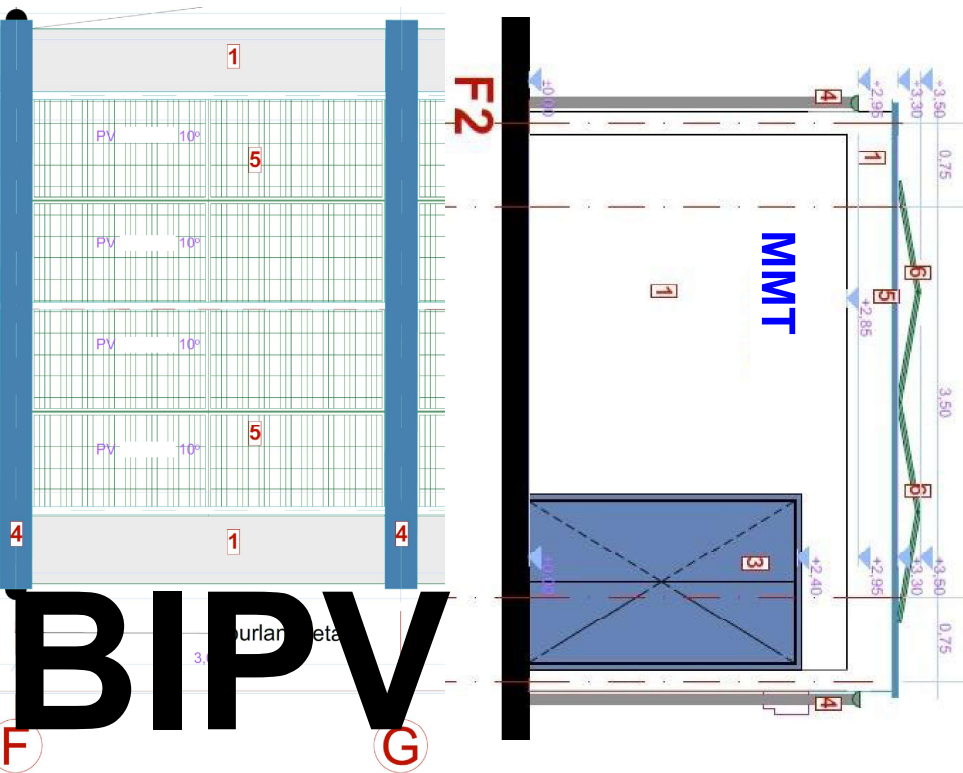
MOD 110

MINIMAL OPTION

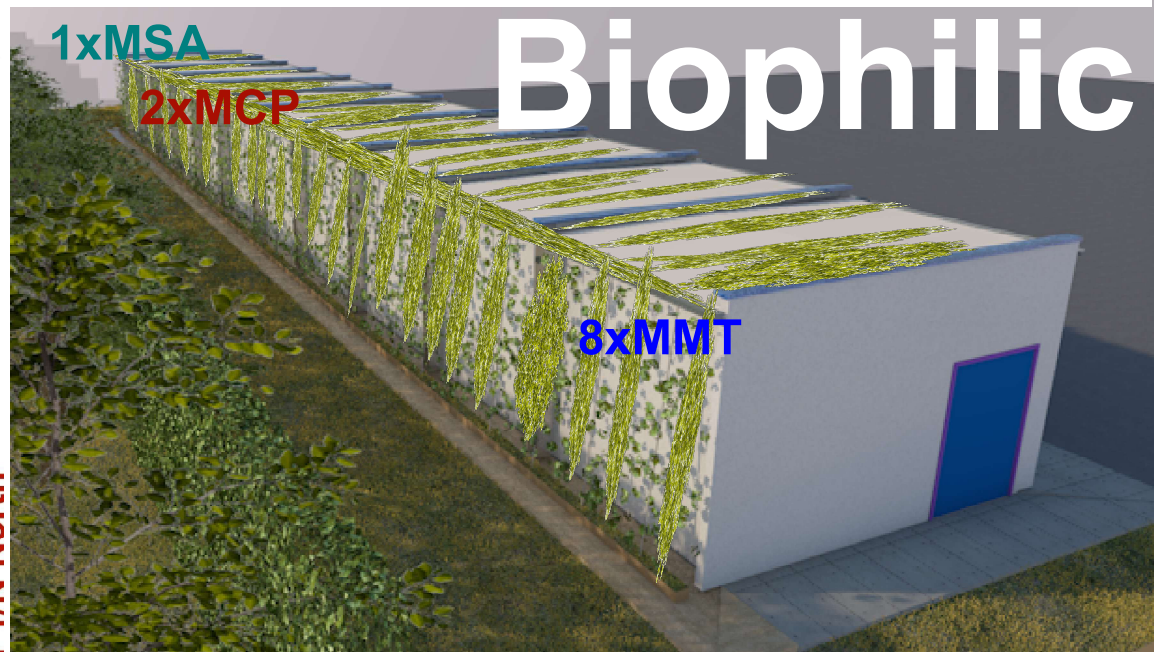
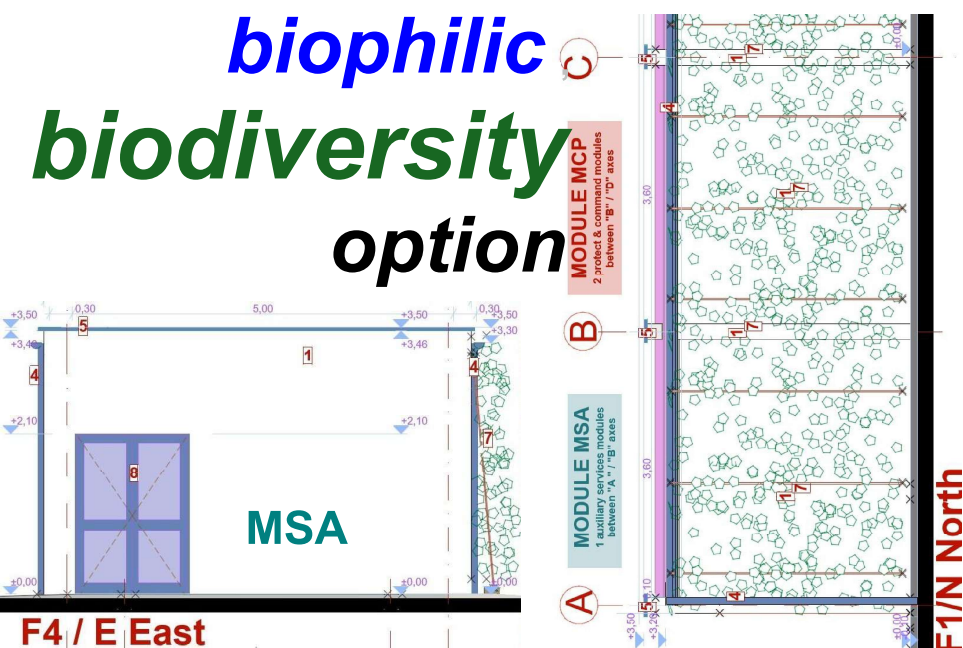
execution stage

5 modules building

2xMCP+3xMMT



photovoltaic system
BIPV OPTION
 Renewable energy
 Resilient

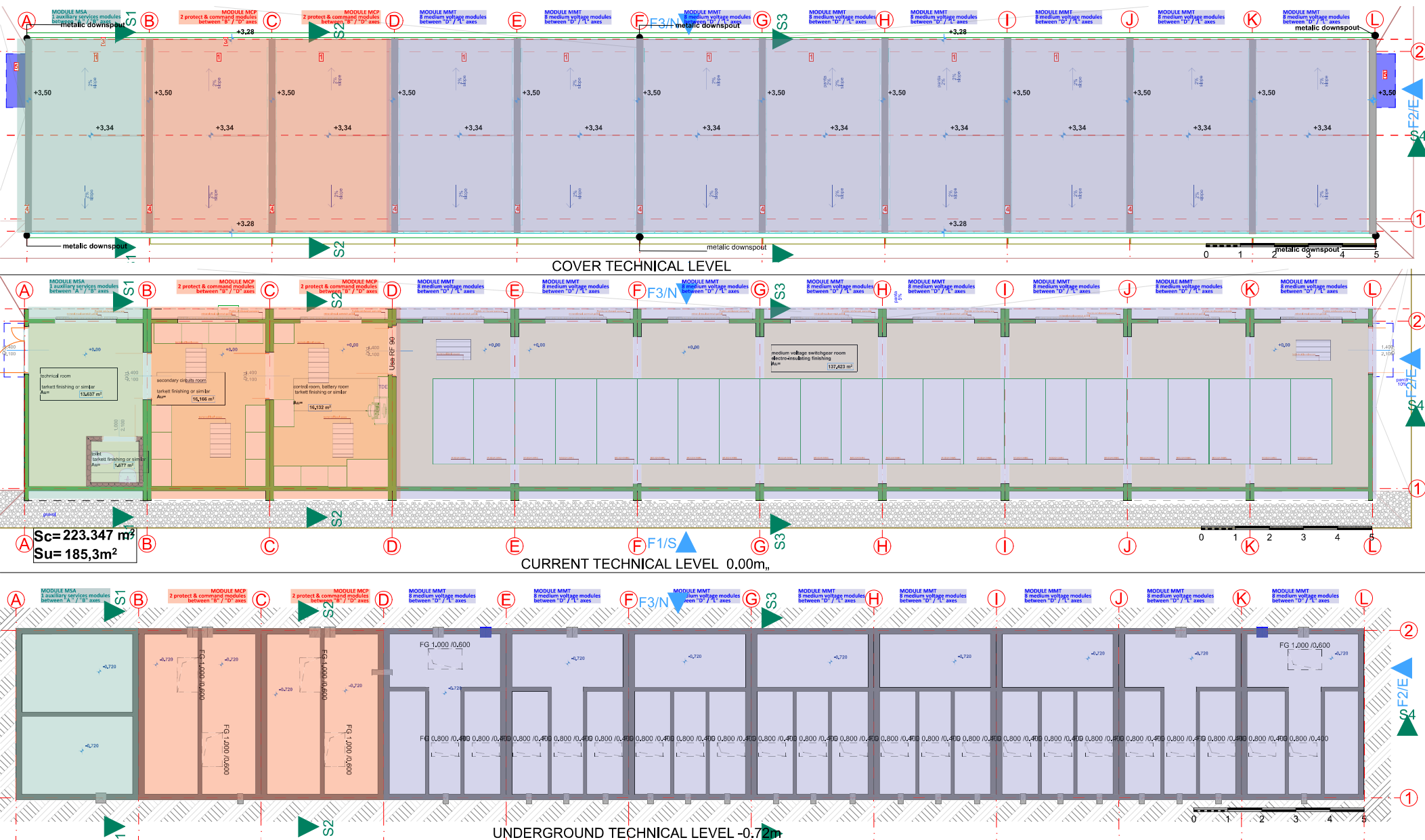


Biophilic

1xMSA

2xMCP

8xMMT



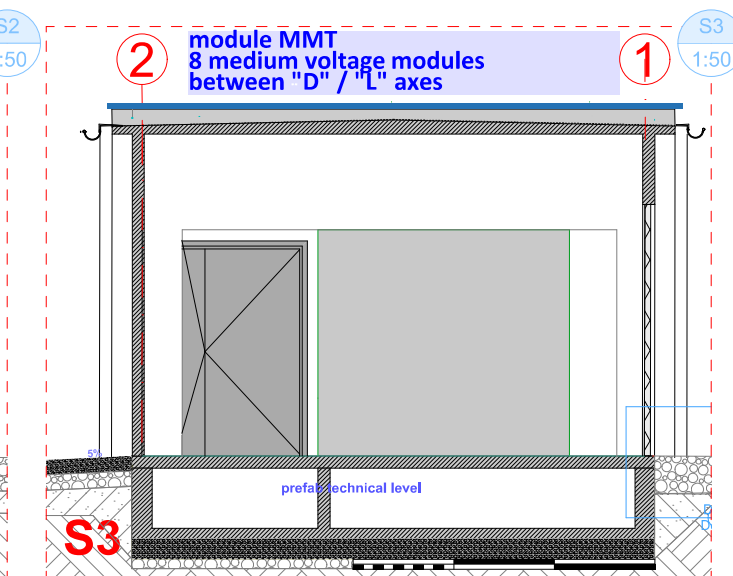
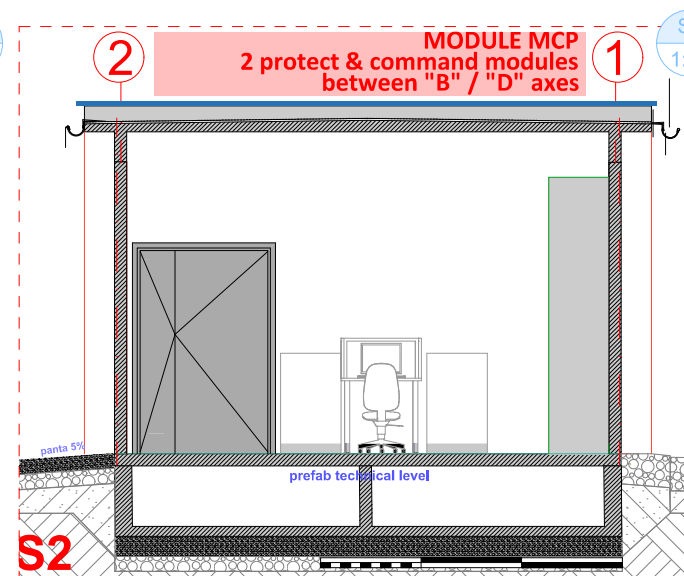
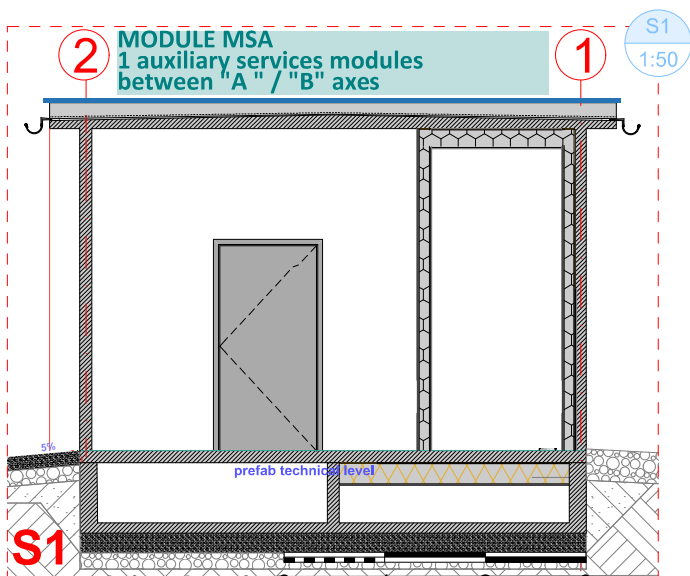
**COLORS
LEGEND**

Cover technical level
Current technical level
Underground technical level

MOD110

11 modules:

1xMSA+2xMCP+8xMMT



Modules detailed S4 section
Section S4

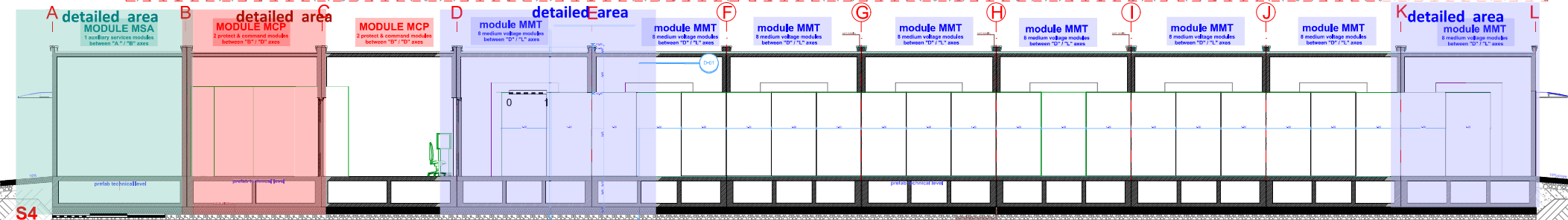
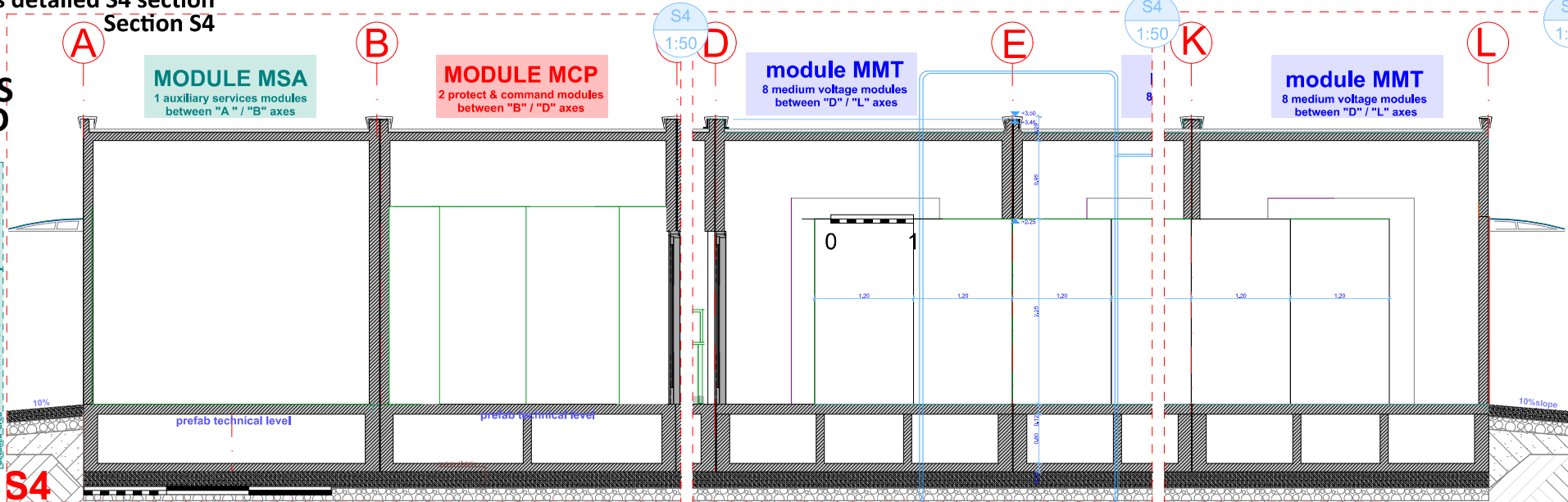
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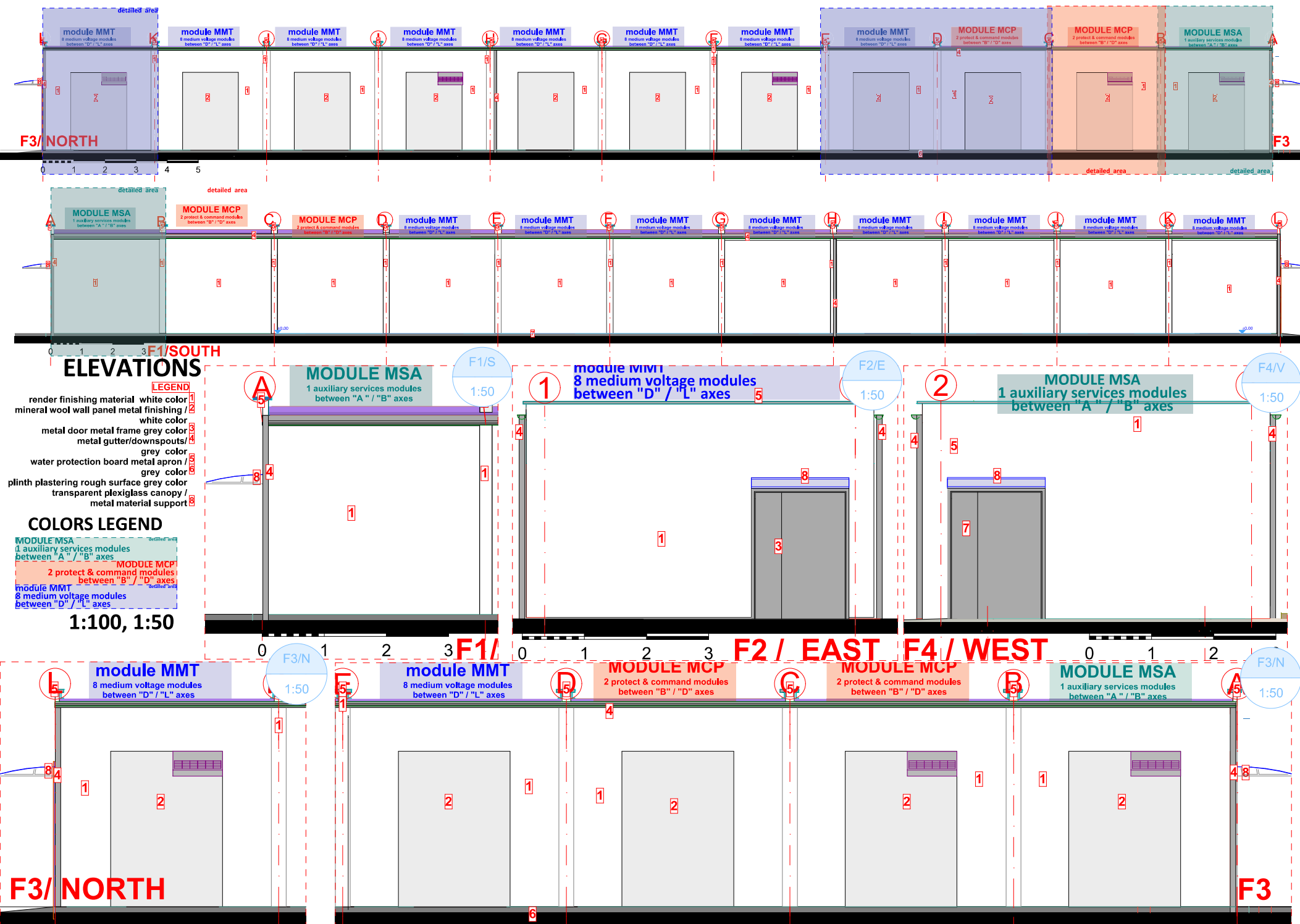
COLORS LEGEND

module MMT
8 medium voltage modules
between "D" / "L" axes
detailed area

module MCP
2 protect & command modules
between "B" / "D" axes
detailed area

module MSA
1 auxiliary services modules
between "A" / "B" axes
detailed area





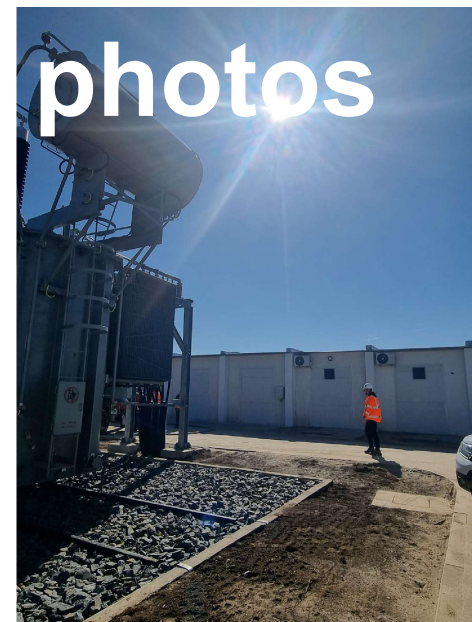




final



TESTING



photos



MODULE MCP
2 protect & command modules
between "B" / "D" axes



module MMT
8 medium voltage modules
between "D" / "L" axes



final

