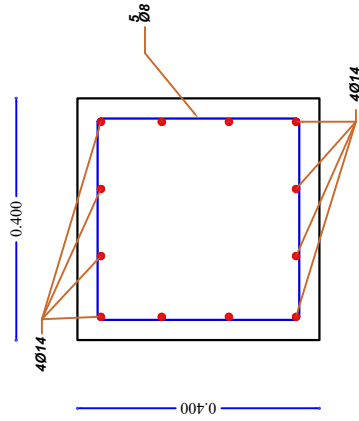
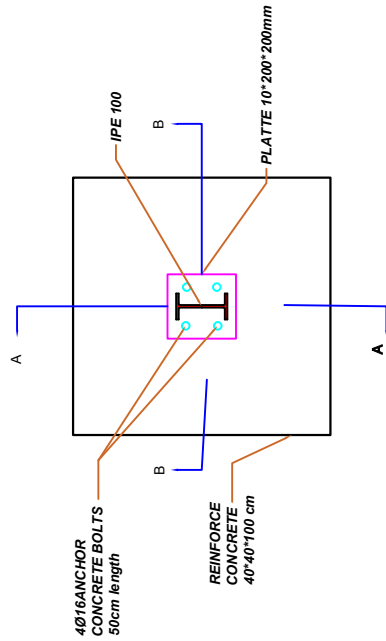
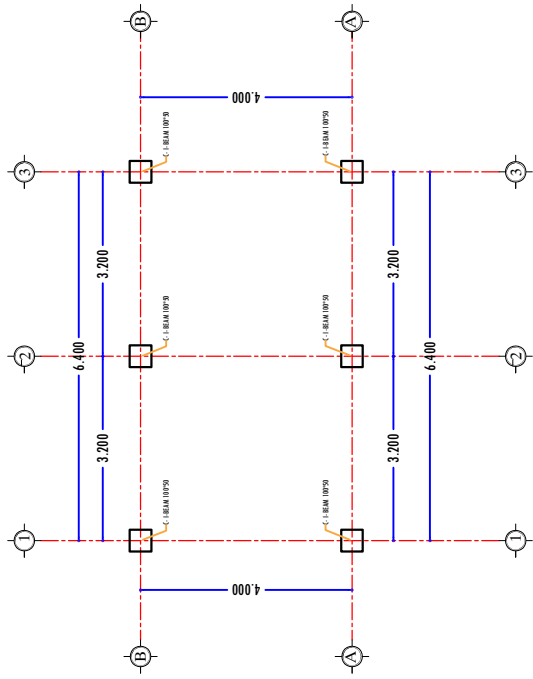
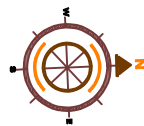




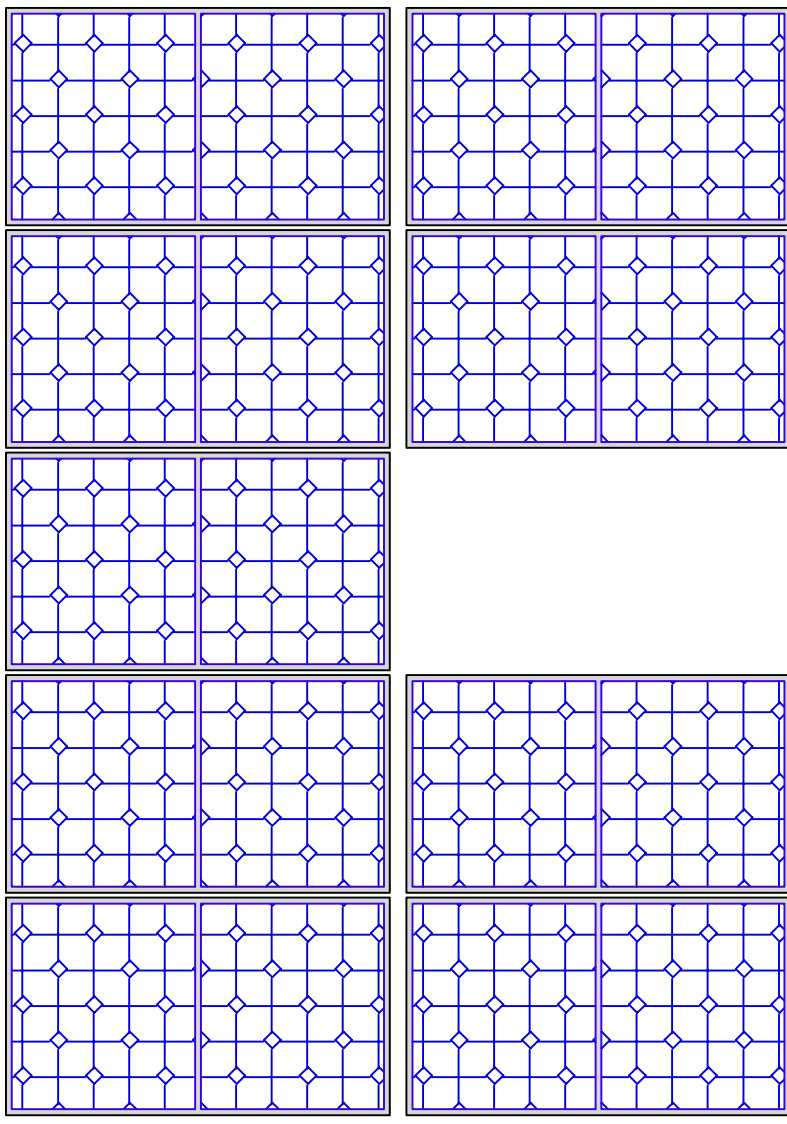


PLAN

# 1 BASE PLATE AND CONCRETE FOOTING - DETAILS STRUCTURE DETAILS

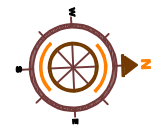


|                       |                      |
|-----------------------|----------------------|
| المشروع               | من النشاء الى الصمود |
| المسوق                | فوتو                 |
| البيوت - حضرموت - حجر |                      |
| التاريخ               | 2025                 |



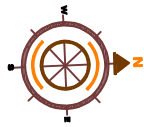
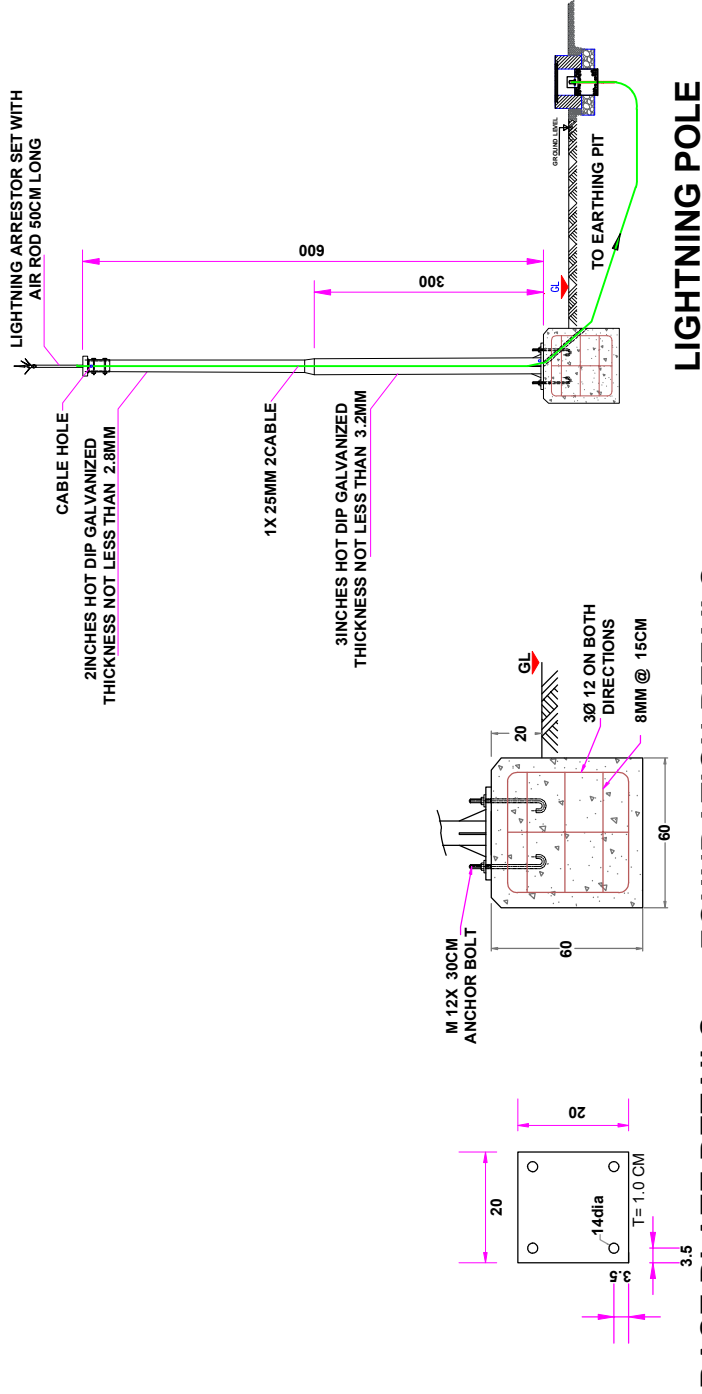
0.030

0.100



المشروع  
من القنطرة الى الصمود  
التمويل  
البنك - حثرتون - حجر  
التاريخ  
2025

# LIGHTNING SYSTEM

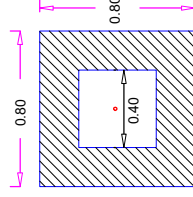


المسودع  
من النشاء الى الصمود: FuTure  
المسودع  
البنين - حضرموت - حجر  
التاريخي  
2025

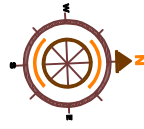
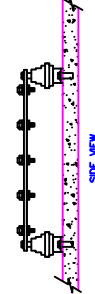
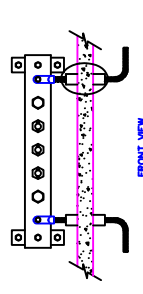
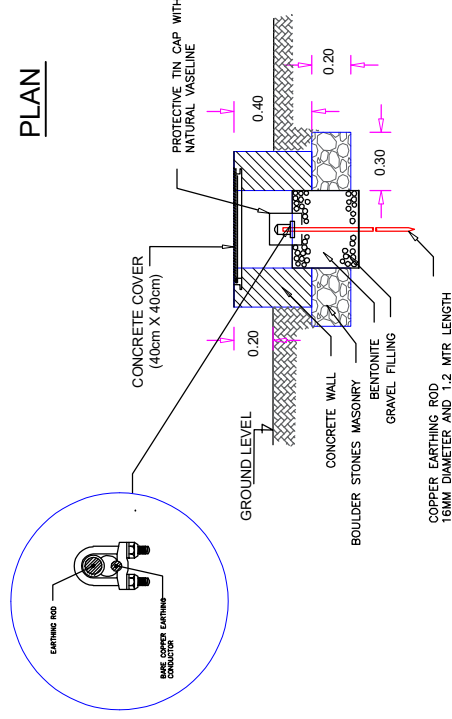
# EARTHING PIT DETAILS

Note:

- 1- The DC earthing system must be separated from AC earthing system.
- 2- Each lightning system shall have its own earthing system including its own earthing pit.
- 3- The minimum distance between each earthing pit shall be at least 6 m
- 4- Backfilling shall include Bentonite, soil, water, coal and salt layers.

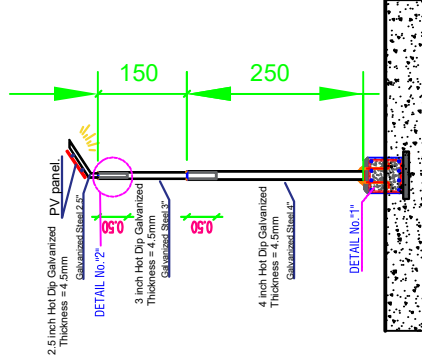
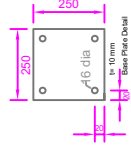
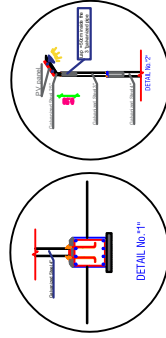
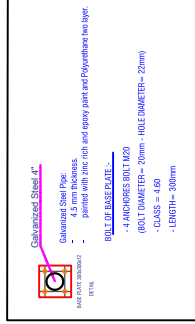
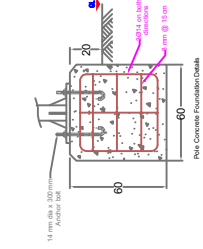


**PLAN**

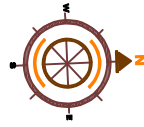


# STREET LIGHTING

Note:  
1- PV modules on the ground should not be shaded by street lighting lamp modules  
2- All dimensions are in cm.



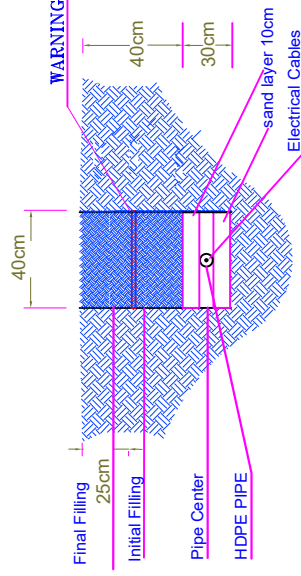
Street Lighting Pole



# UNDERGROUND CABLES

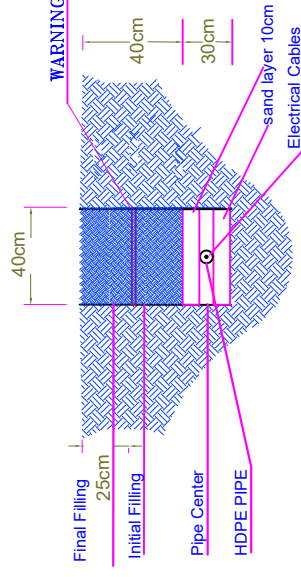
Note:

The fill factor of all pipes must be 40% - thus, 60% of pipes' inside area shall not be occupied



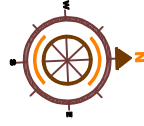
AC Cables From Inverter To Motor

## SECTION -A

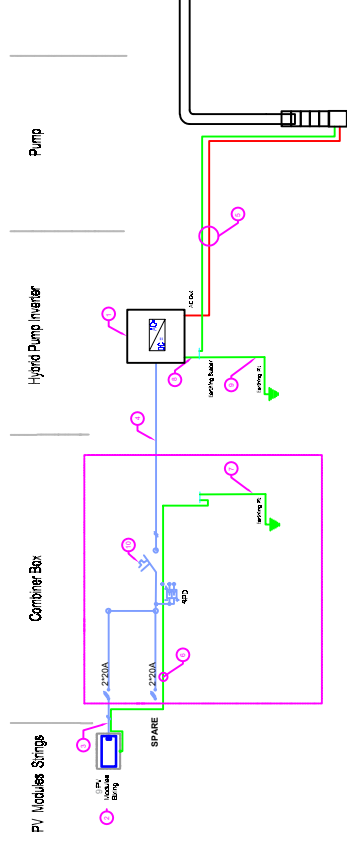


DC Cables From Combiner Box To Inverter  
DC Cables From PV Strings To Combiner Box

## SECTION-B

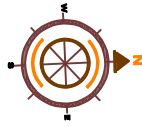


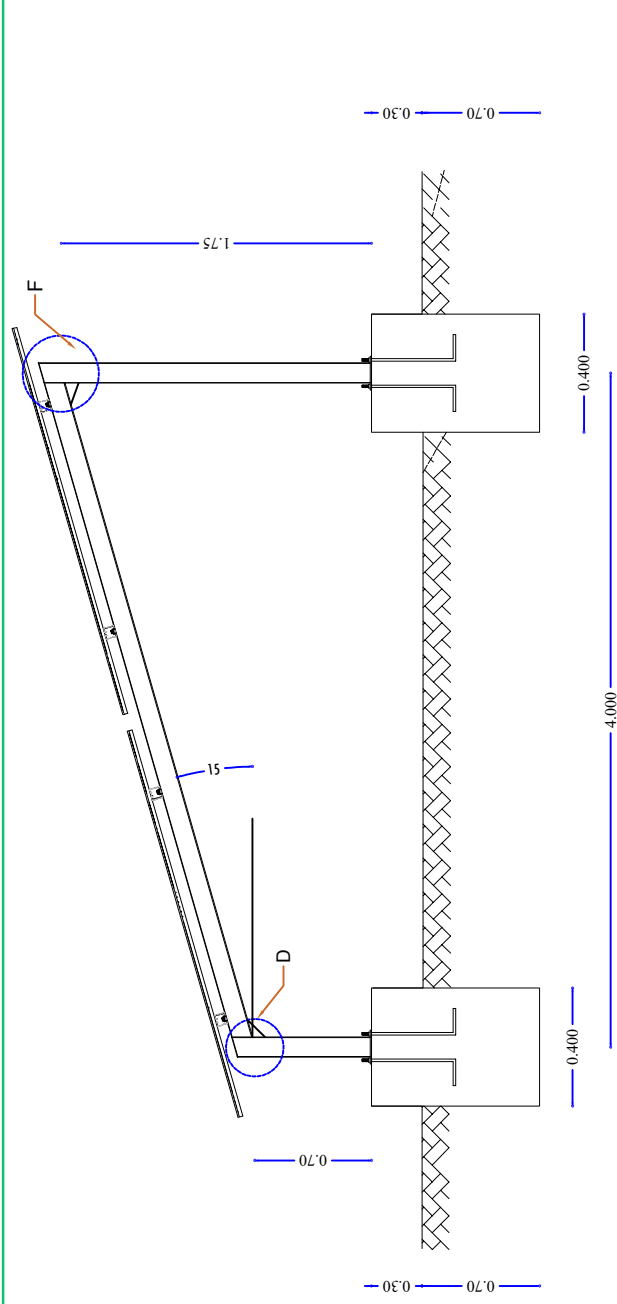
# SINGLE LINE DIAGRAM (SLD)



| Sn | Item                                                             | Size / Capacity        |
|----|------------------------------------------------------------------|------------------------|
| 1  | Inverter Power, KW                                               | 5.5                    |
| 2  | # of PV Strings                                                  | 1                      |
| 3  | DC cable between Arrays (mm <sup>2</sup> )                       | 6mm <sup>2</sup>       |
| 4  | DC cable between Combiner & Inverter (mm <sup>2</sup> )          | 6mm <sup>2</sup>       |
| 5  | Pump AC Cable (mm <sup>2</sup> )                                 | (3x6)+6mm <sup>2</sup> |
| 6  | Grounding Cable between PV strings and busbar (mm <sup>2</sup> ) | 1 x 6                  |
| 7  | Grounding Cable from bus bar to earthing pit (mm <sup>2</sup> )  | 1 x 16                 |

| Sn | Item                                                            | Size / Capacity |
|----|-----------------------------------------------------------------|-----------------|
| 8  | Grounding Cable from inverter to the bus bar                    | 1 x 6           |
| 9  | Grounding Cable from bus bar to earthing pit (mm <sup>2</sup> ) | 1 x 10          |
| 10 | COMBINDER DC CIRCUIT BREAKER SIZE MCB, A                        | 20              |





③ **SIDE ELEVATION**  
STRUCTURE DETAILS



Ⓒ **JOINT - DETAILS D**  
STRUCTURE DETAILS

Ⓓ **JOINT - DETAILS F**  
STRUCTURE DETAILS

