

Experiment 7: Drafting Foundation and Roof Drainage Plans with Annotations

Objective:

Draft foundation layout and roof drainage plans for a building.

Software/Tools Required:

- AutoCAD
- Laptop/PC

Theory:

Provide theoretical background relevant to the task, including commands and standards.

Procedure:

1. Draw foundation using rectangles or polylines as per the design.
2. Mark foundation type (isolated, combined, strip, raft).
3. Provide dimensions and footing details.
4. For roof drainage, show slopes, rainwater pipes, outlets.
5. Clearly annotate all pipelines and flow directions.
6. Save as “Foundation_and_Drainage.dwg”.

Results:

Attach a printout of the completed drawing here.

Conclusion:

Summarize the skills learned and their applications in civil engineering.