

Electrical Service Design Lab (EEE 4418)

Report on Project

Submission by-

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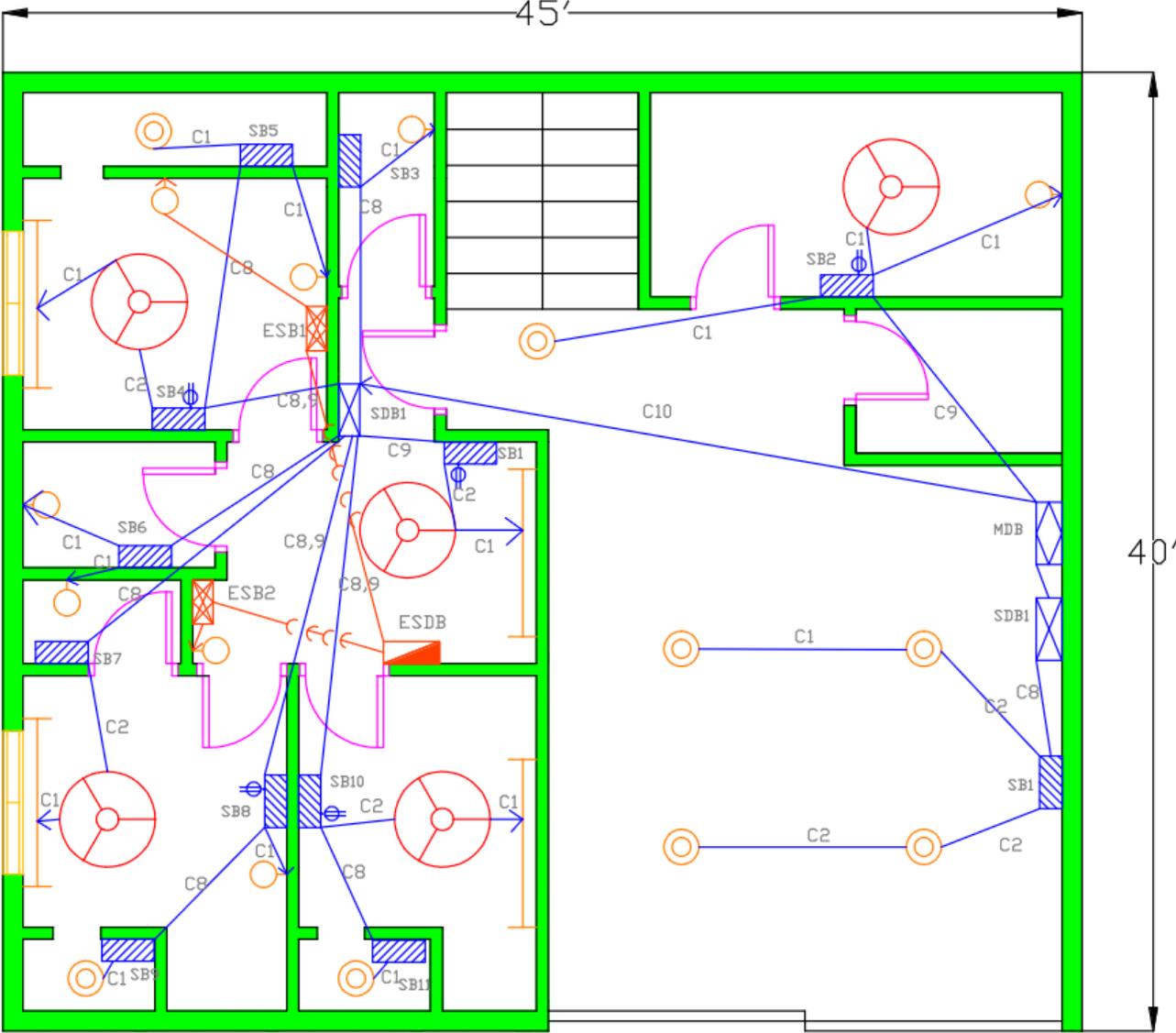
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Mahdi Kamal

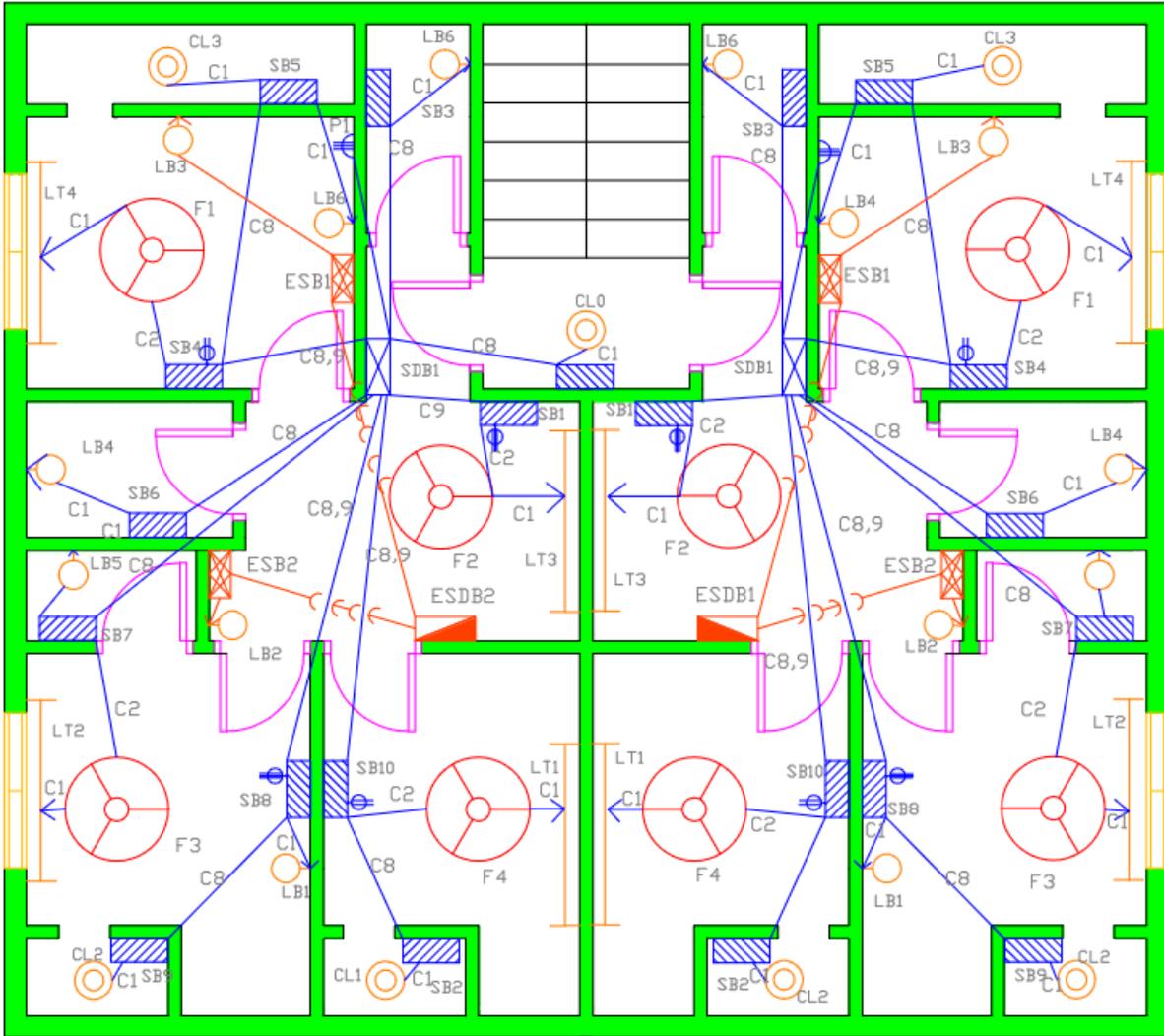
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Floor Plans (With Fittings and Fixtures and Conduit Layouts and Legends)

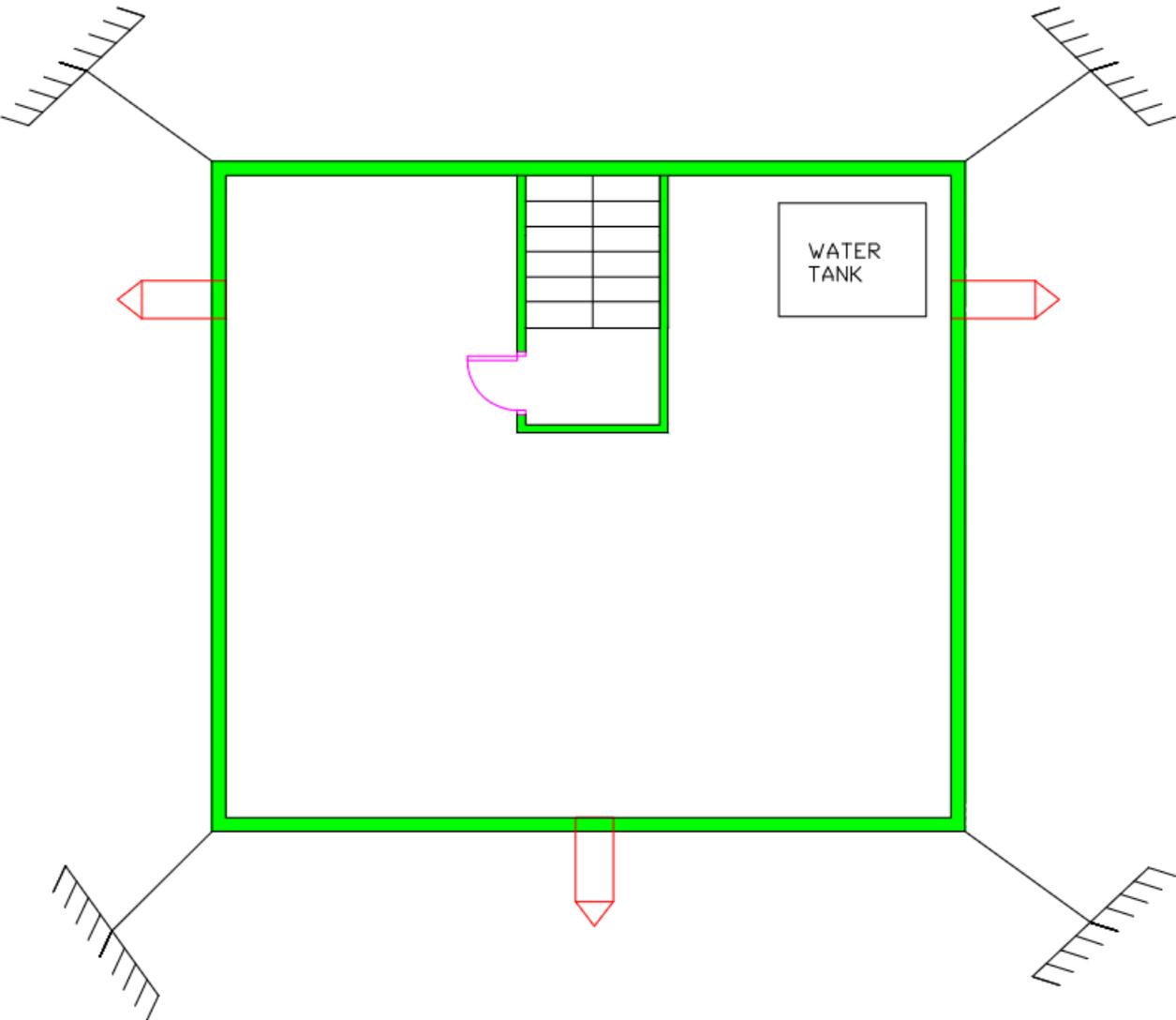
Ground Plan



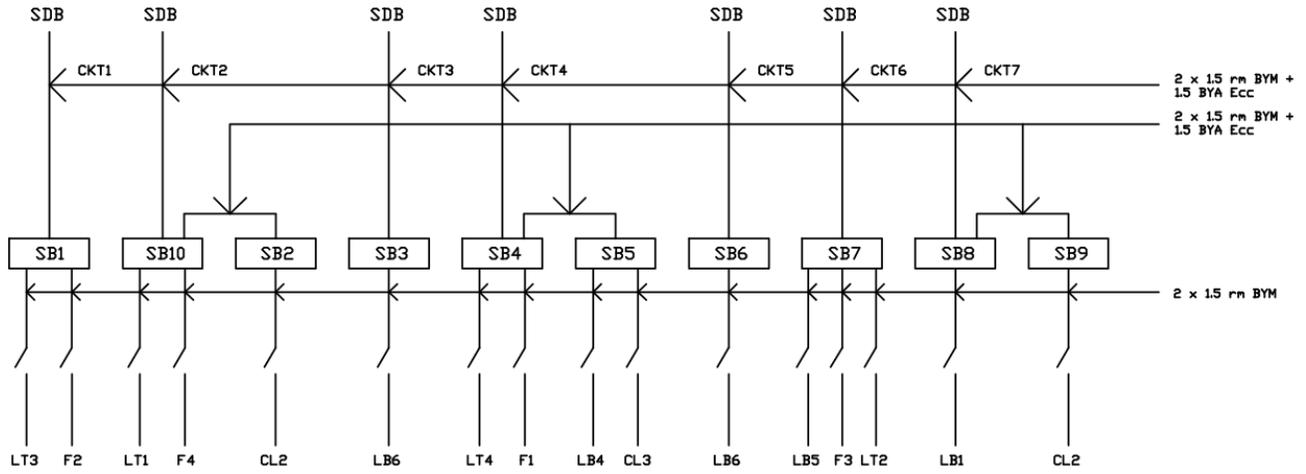
Floor 2-3 Plan



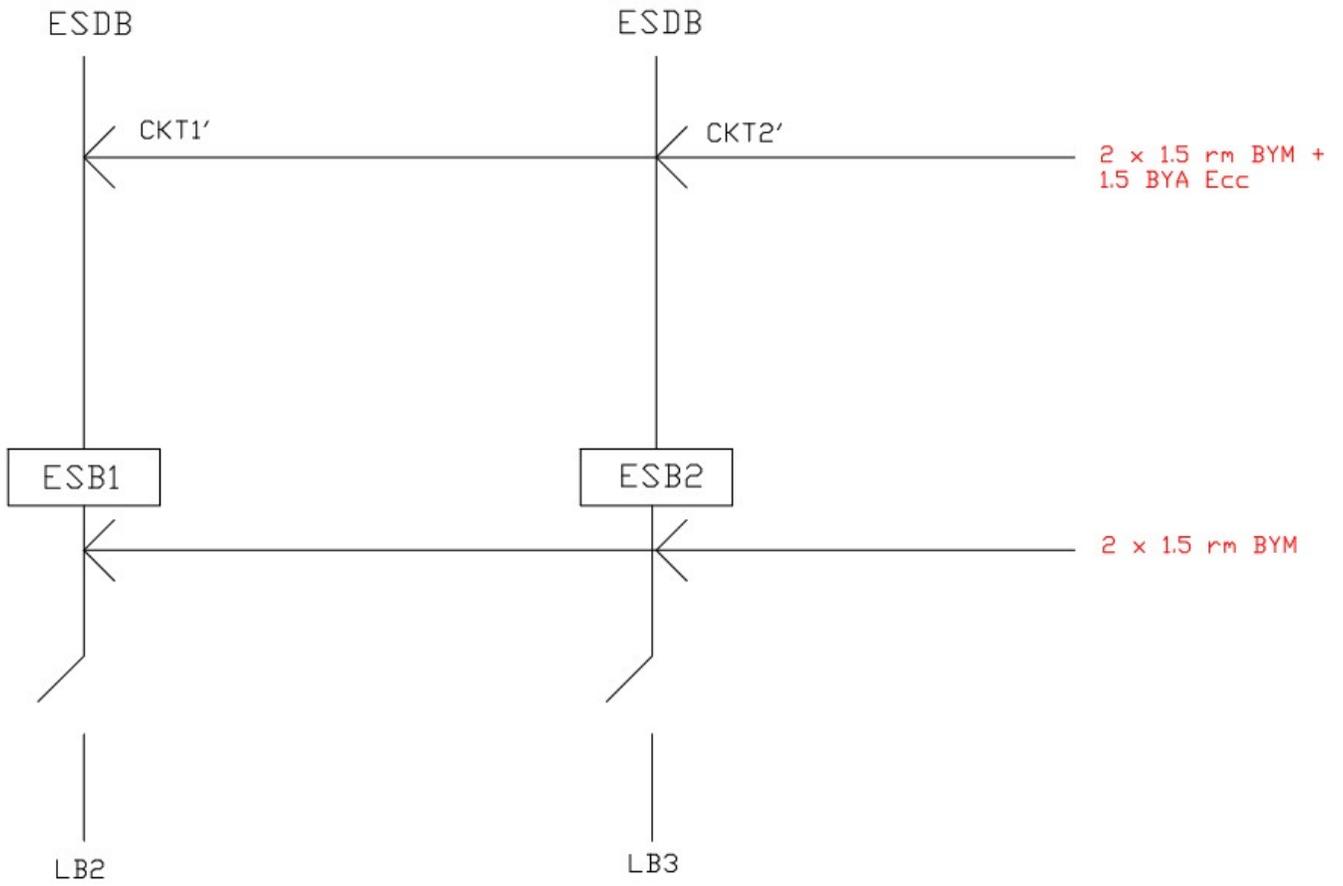
Roof Plan with Air Terminals



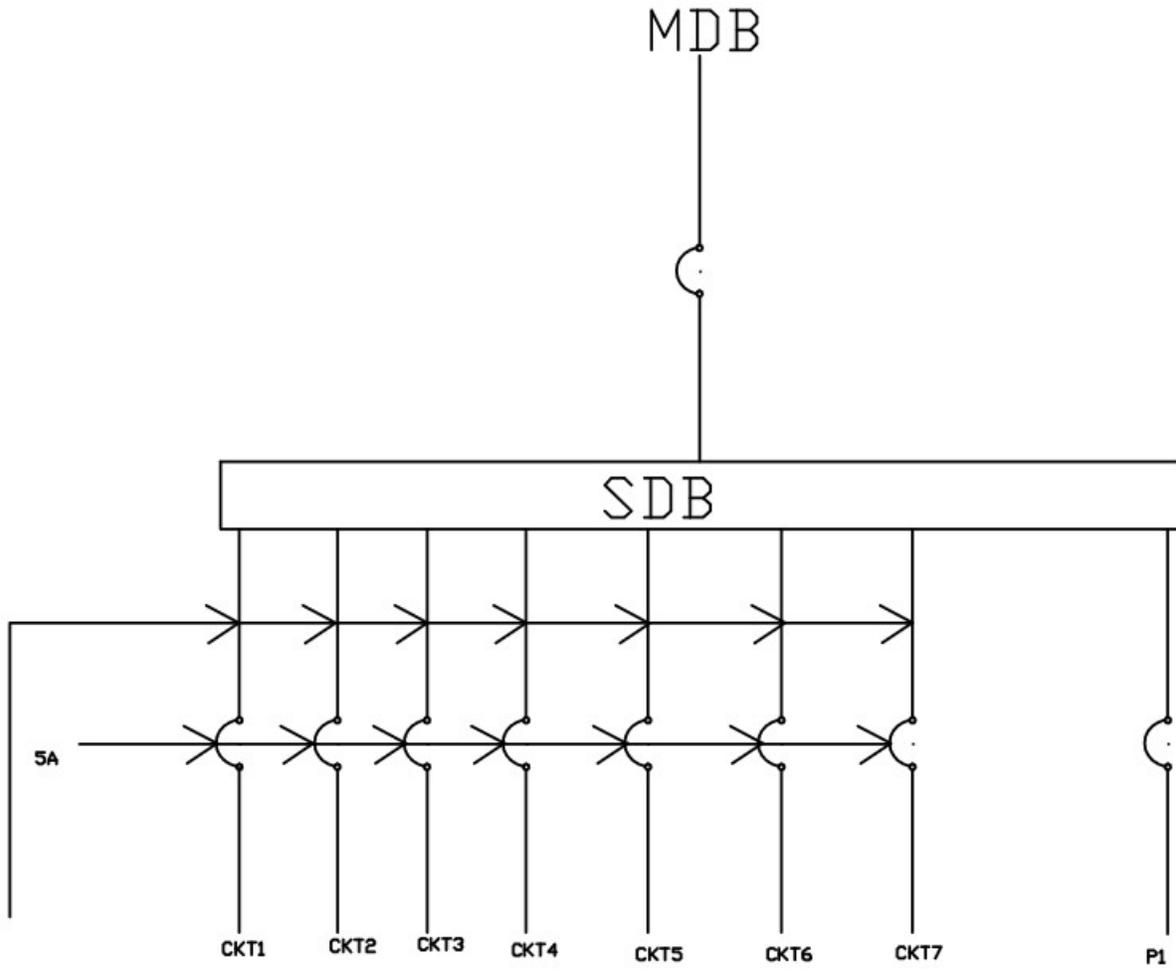
SDB Connection Diagram



ESDB Connection Diagram



MDB Connection Diagram



Calculations

No of Lights = $\frac{E \times A}{n \times F \times UF \times LLF} = 0.09290304 \times A$ (A in m²) = 0.0105 x A (A in sq ft)

No of Fans = 0.01 x A (A in sq ft)

Dining Room:

Area = 9' - 3" x 12' - 11" = 119.5 sq ft

No of Lights = 1.25 (1 Light Bulb, 1 Tube Light)

No of Fans = 1.2 ≈ 1

Bedroom A:

Area = 10' - 6" x 12' - 11" = 135.6 sq ft

No of Lights = 1.42 (1 Light Bulb, 1 Tube Light)

No of Fans = 1.35 ≈ 1

Bedroom B:

Area = 11' x 10' - 10" = 120 sq ft

No of Lights = 1.25 (1 Light Bulb, 1 Tube Light)

No of Fans = 1.2 ≈ 1

Drawing Room:

Area = 11' x 9' - 6" = 105 sq ft

No of Lights = 1.08 (1 Light Bulb, 1 Tube Light)

No of Fans = 1.05 ≈ 1

Veranda:

Area = 12' x 3' - 1" = 37

No of Lights = 0.37 (1 Light Bulb)