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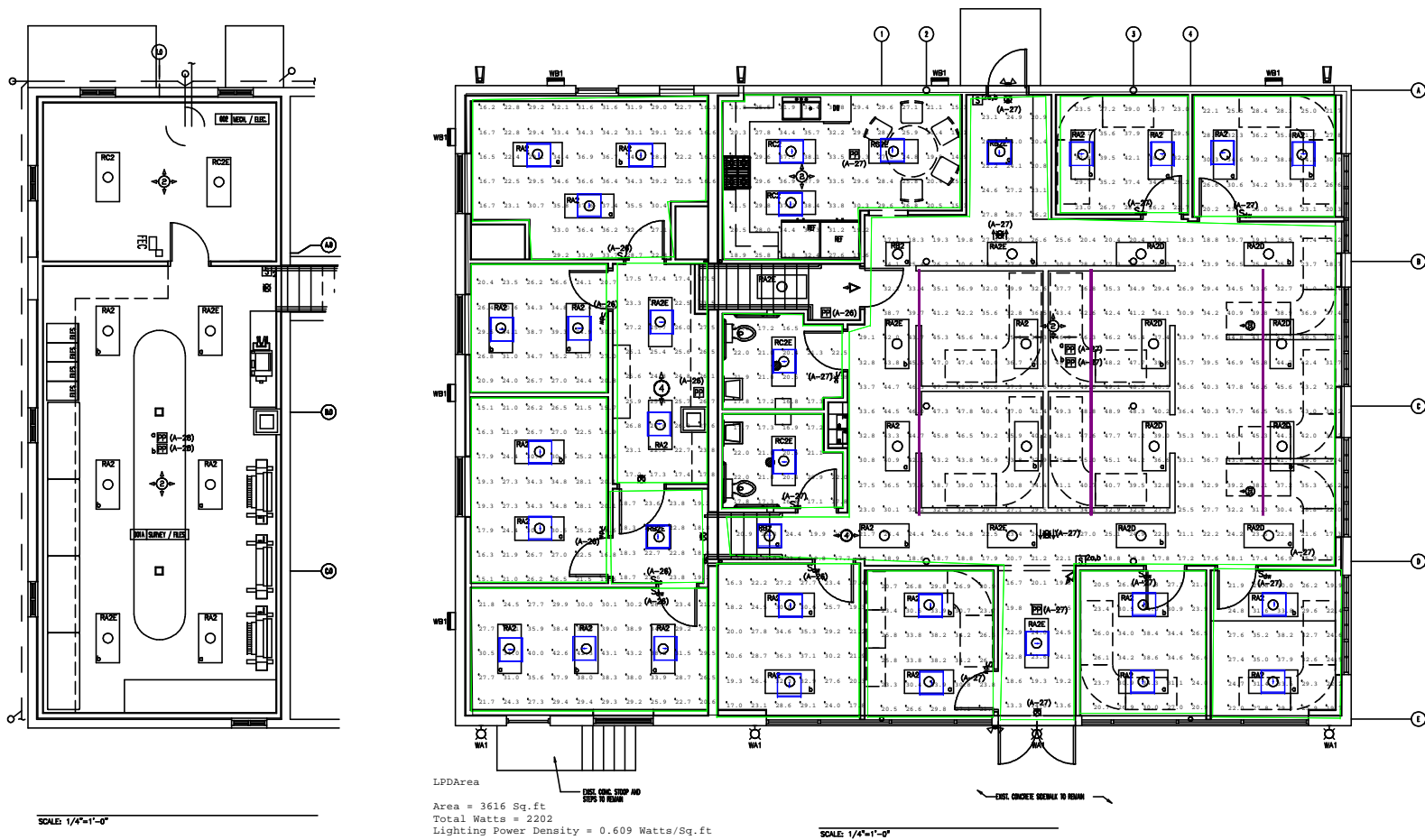
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Professional Certification: I
 hereby certify that these
 documents were prepared or
 approved by me, and that I
 am a duly licensed
 professional engineer under
 the laws of the State of
 Maryland. License No: 9554
 Expiration Date: 06/28/2024

RENOVATIONS TO
 10 SOUTH BENITZ STREET
 FOR CAS ENGINEERING
 10 SOUTH BENITZ STREET
 FREDERICK, MD. 21701

| REV | ISSUE |
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PROJECT NO: 1191
 DATE: 11-07-13
 BASEMENT & FIRST FLOOR PLAN
 - LIGHTING



| Symbol | Qty | Label | Arrangement | Total Lamp Lumens | LLF | Description |
|--------|-----|--------------------|-------------|-------------------|-------|---------------------------|
| □ | 33 | 2 BY 2 led Transom | SINGLE | N.A. | 0.900 | Fluxwerx Cat # TR122A35DM |
| ○ | 15 | Pendant | SINGLE | 3566 | 0.900 | Fluxwerx VU1 AC35 |

| Label | CalcType | Units | Avg | Max | Min | Avg/Min | Max/Min |
|-------------------|-------------|-------|-------|------|------|---------|---------|
| Room_1_Workplane | Illuminance | Fc | 23.66 | 34.8 | 15.1 | 1.57 | 2.30 |
| Room_10_Workplane | Illuminance | Fc | 29.02 | 39.2 | 20.2 | 1.44 | 1.94 |
| Room_11_Workplane | Illuminance | Fc | 31.00 | 42.1 | 22.7 | 1.37 | 1.85 |
| Room_12_Workplane | Illuminance | Fc | 19.27 | 22.0 | 16.8 | 1.15 | 1.31 |
| Room_13_Workplane | Illuminance | Fc | 19.71 | 22.8 | 16.5 | 1.19 | 1.38 |
| Room_14_Workplane | Illuminance | Fc | 28.50 | 37.6 | 16.2 | 1.76 | 2.32 |
| Room_15_Workplane | Illuminance | Fc | 27.30 | 38.4 | 14.9 | 1.83 | 2.58 |
| Room_2_Workplane | Illuminance | Fc | 28.75 | 39.3 | 20.4 | 1.41 | 1.93 |
| Room_3_Workplane | Illuminance | Fc | 25.66 | 37.1 | 16.3 | 1.57 | 2.28 |
| Room_4_Workplane | Illuminance | Fc | 20.99 | 23.8 | 18.3 | 1.15 | 1.30 |
| Room_5_Workplane | Illuminance | Fc | 23.45 | 27.6 | 17.2 | 1.36 | 1.60 |
| Room_6_Workplane | Illuminance | Fc | 28.37 | 38.2 | 20.5 | 1.38 | 1.86 |
| Room_7_Workplane | Illuminance | Fc | 28.55 | 38.6 | 20.5 | 1.39 | 1.88 |
| Room_8_Workplane | Illuminance | Fc | 28.33 | 38.2 | 19.7 | 1.44 | 1.94 |
| Room_9_Workplane | Illuminance | Fc | 32.38 | 49.5 | 13.2 | 2.45 | 3.75 |
| Room_Workplane | Illuminance | Fc | 31.52 | 43.2 | 20.6 | 1.53 | 2.10 |