

Design by Lambda Wolf Labs.

Drawing Number:

Lambda Wolf Labs (Lorne Chrones)

Sheet:

File: 555_Timer_Functional_Turing_Complete_Project.kicad_pcb

Title: 555 Timer Functional & Turing Complete Project

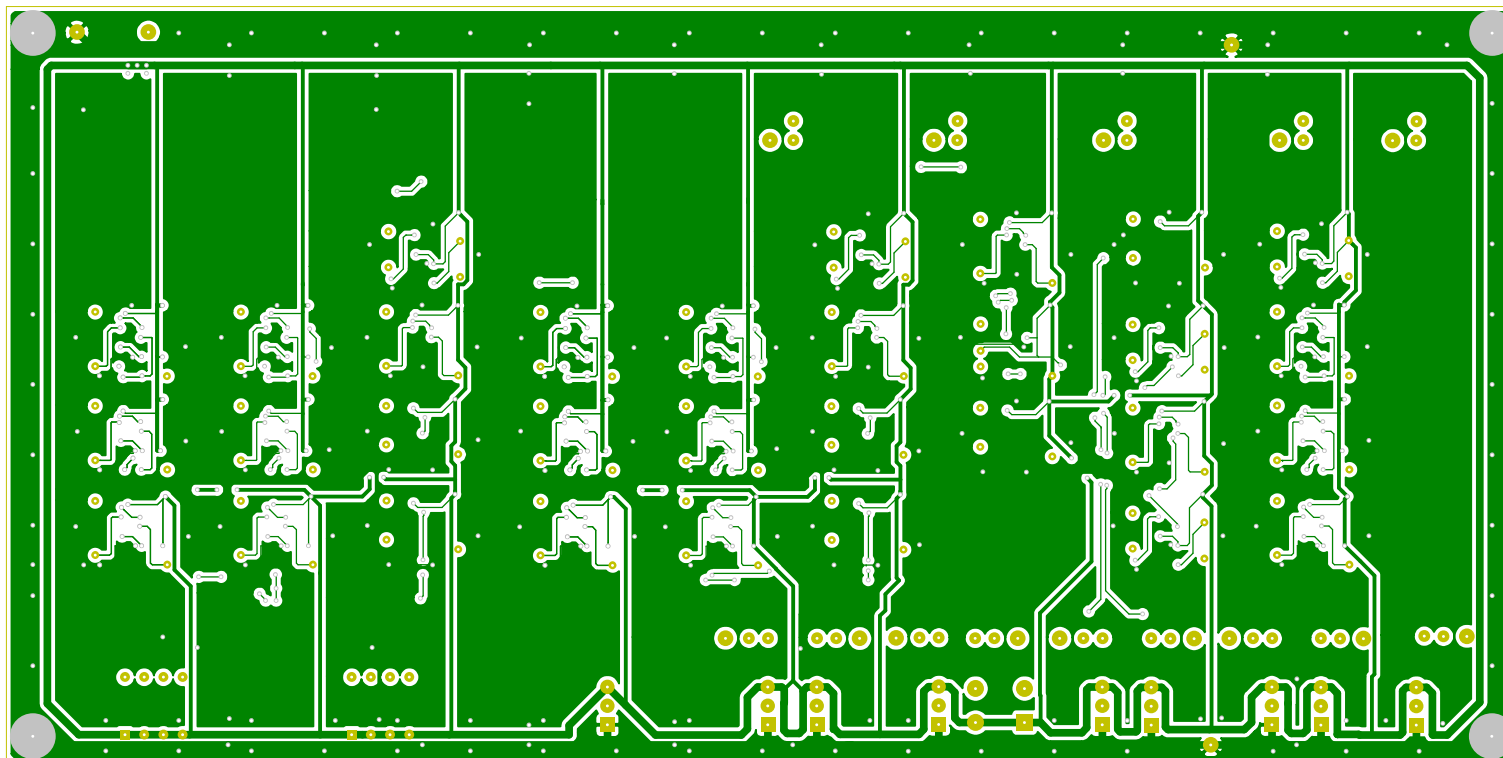
Size: A4

Date: 2021-12-24

Rev: A

KiCad E.D.A. kicad (5.1.2)-2

Id: 1/1



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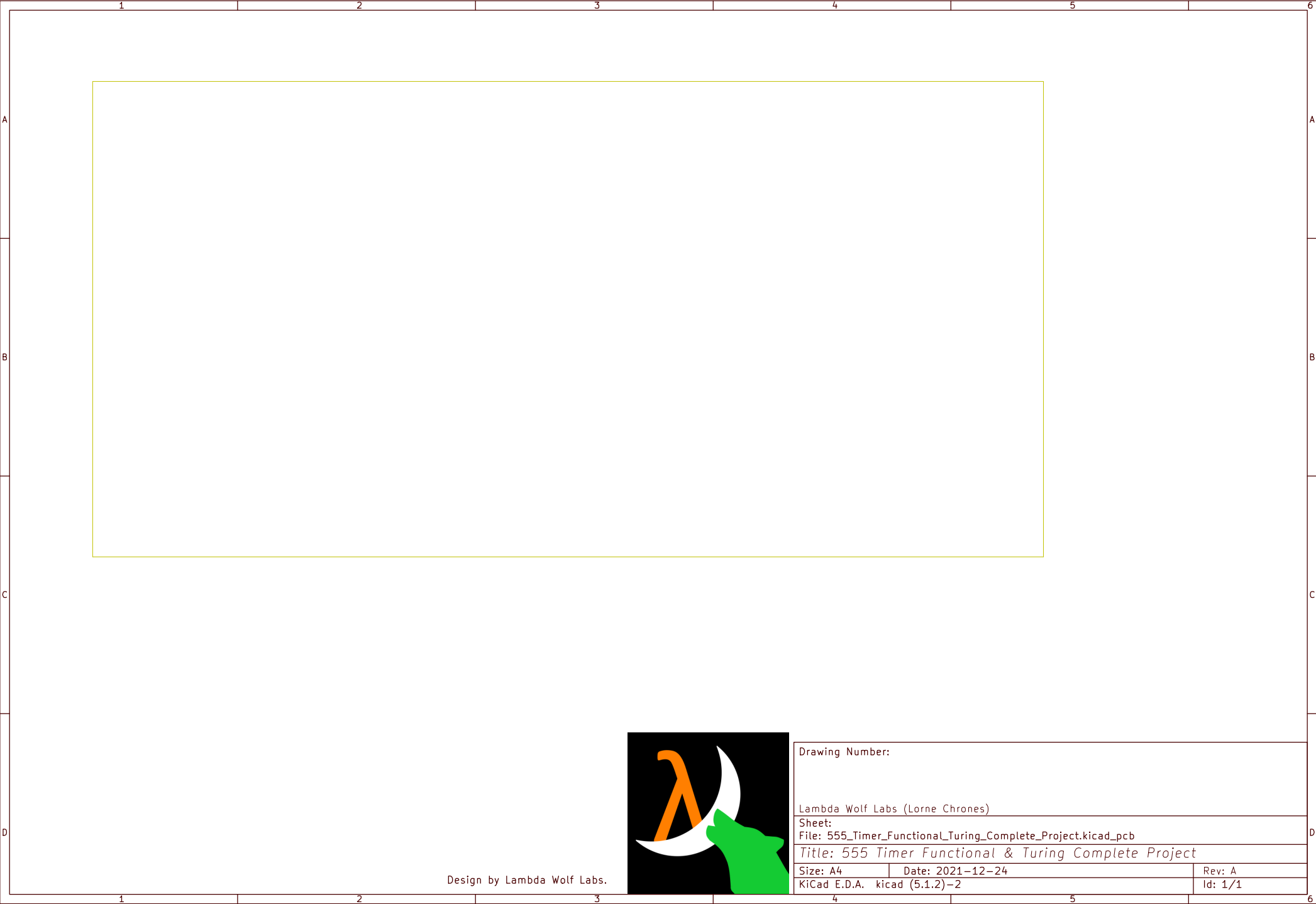
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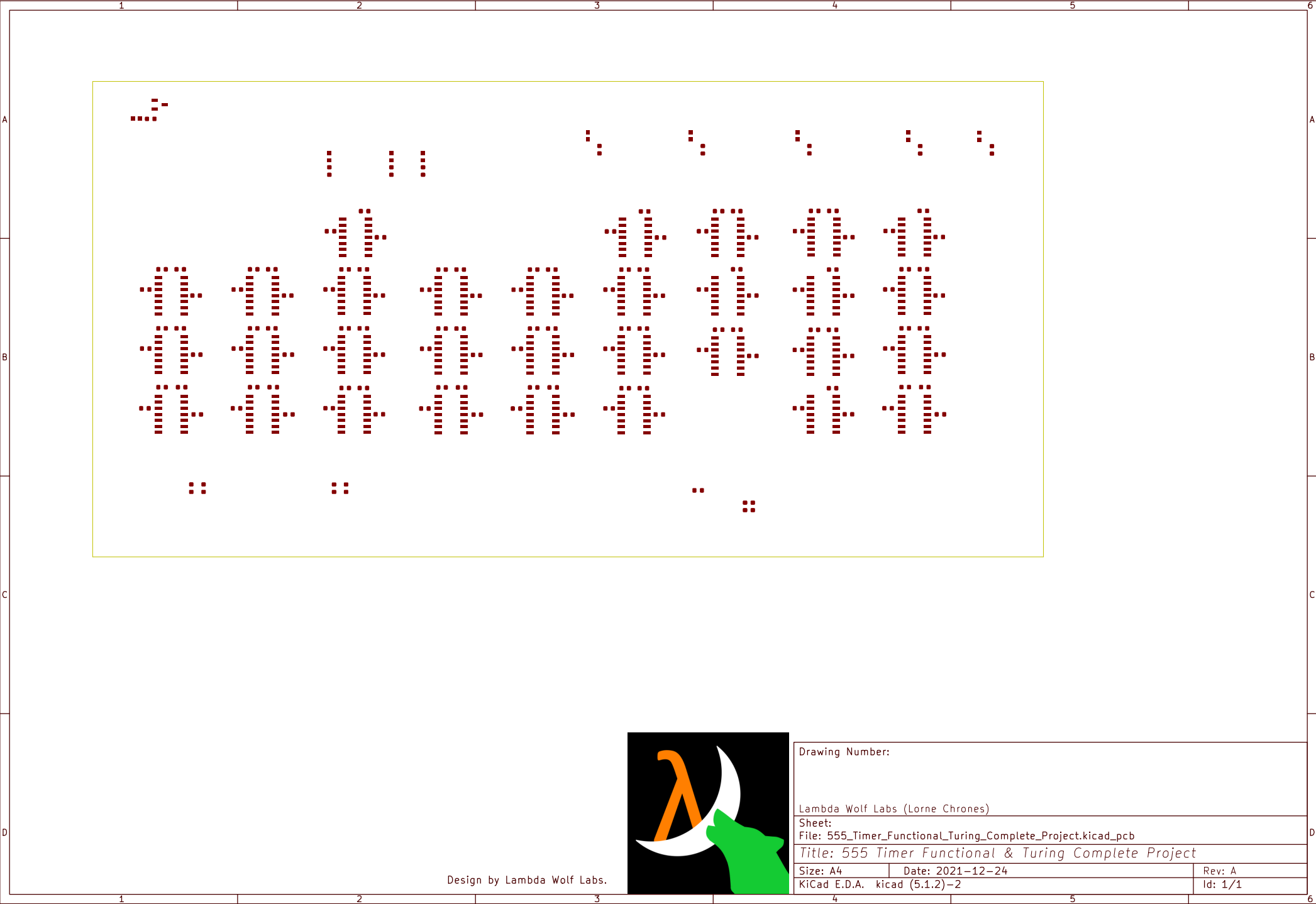
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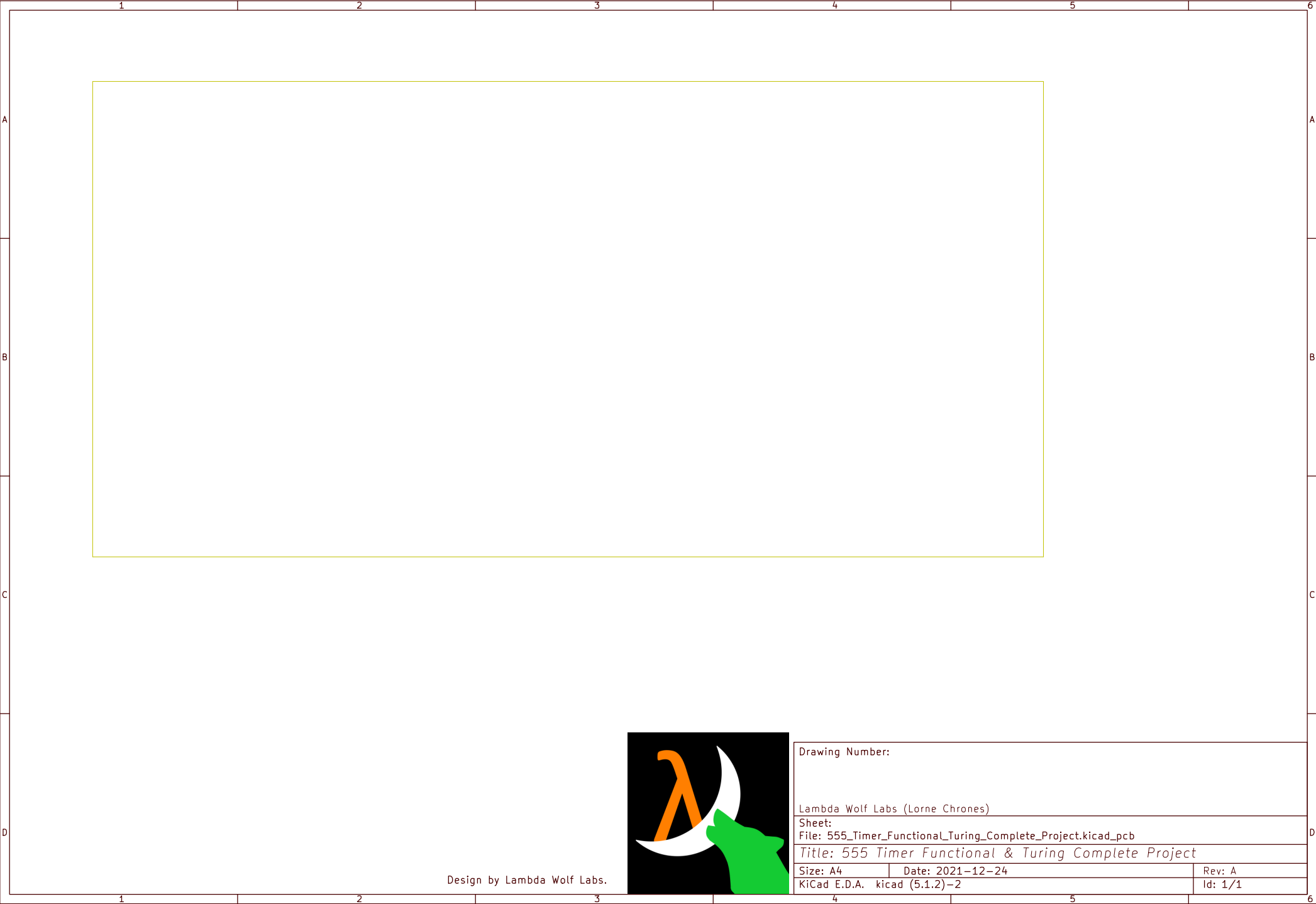
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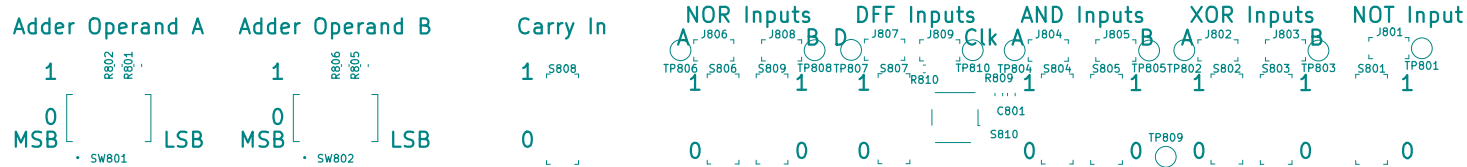
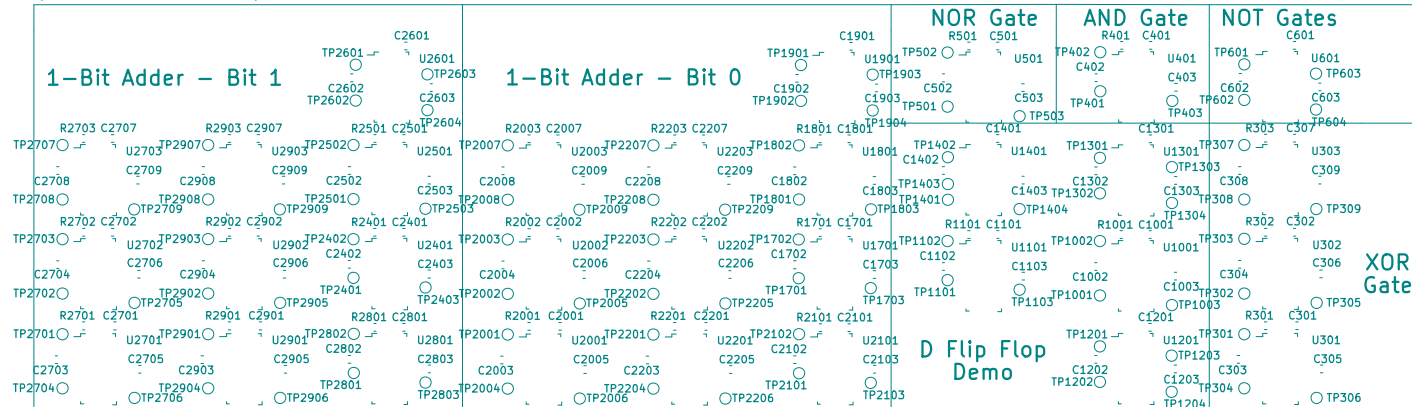
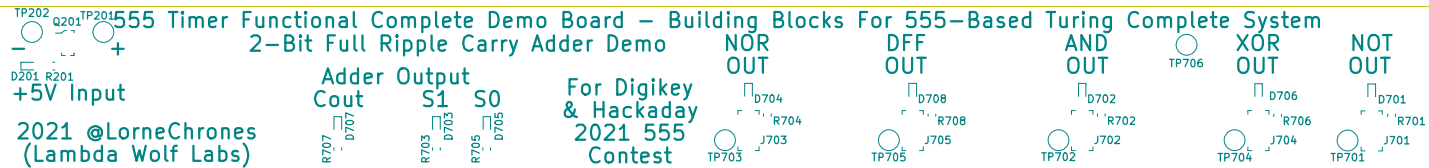
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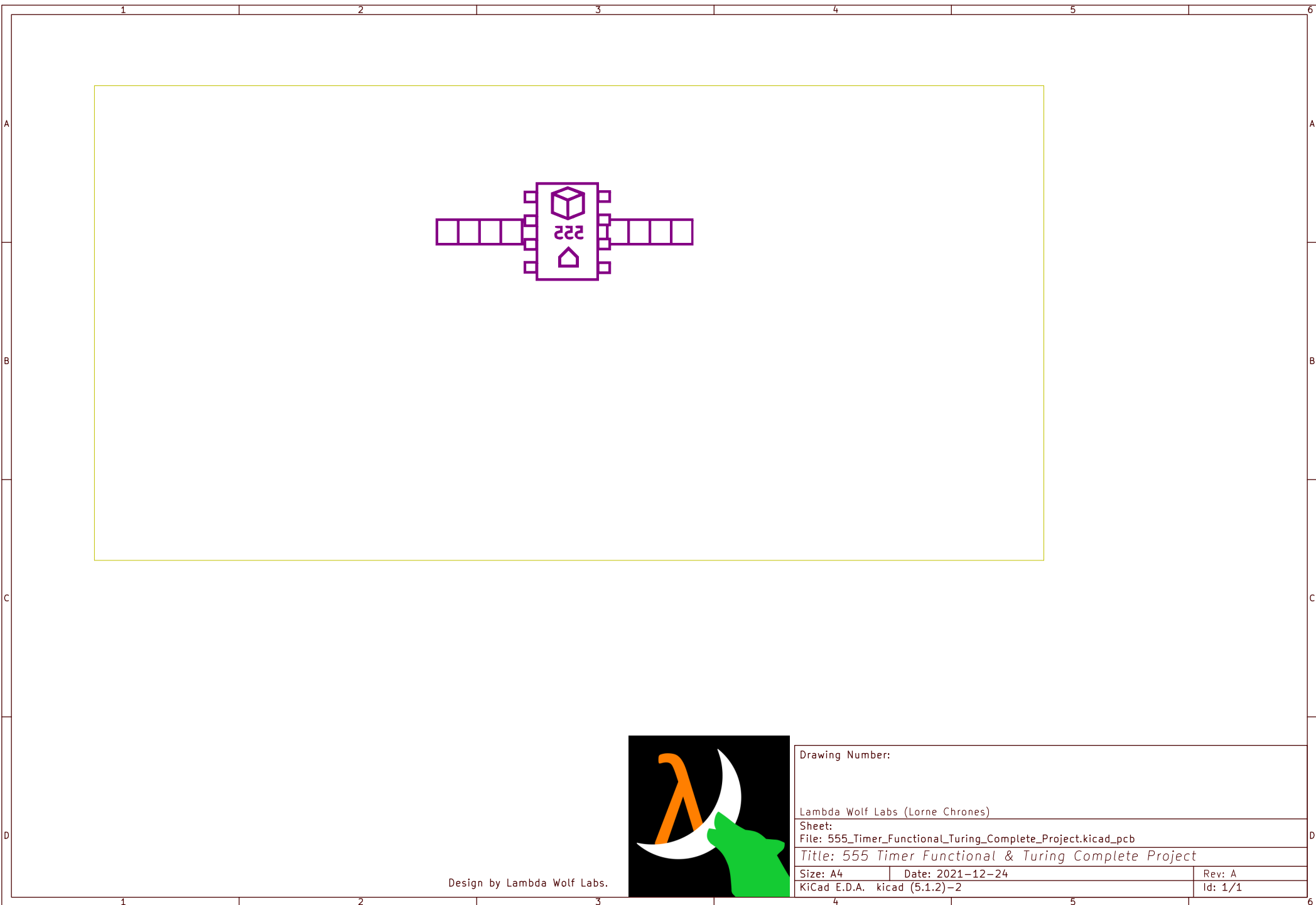
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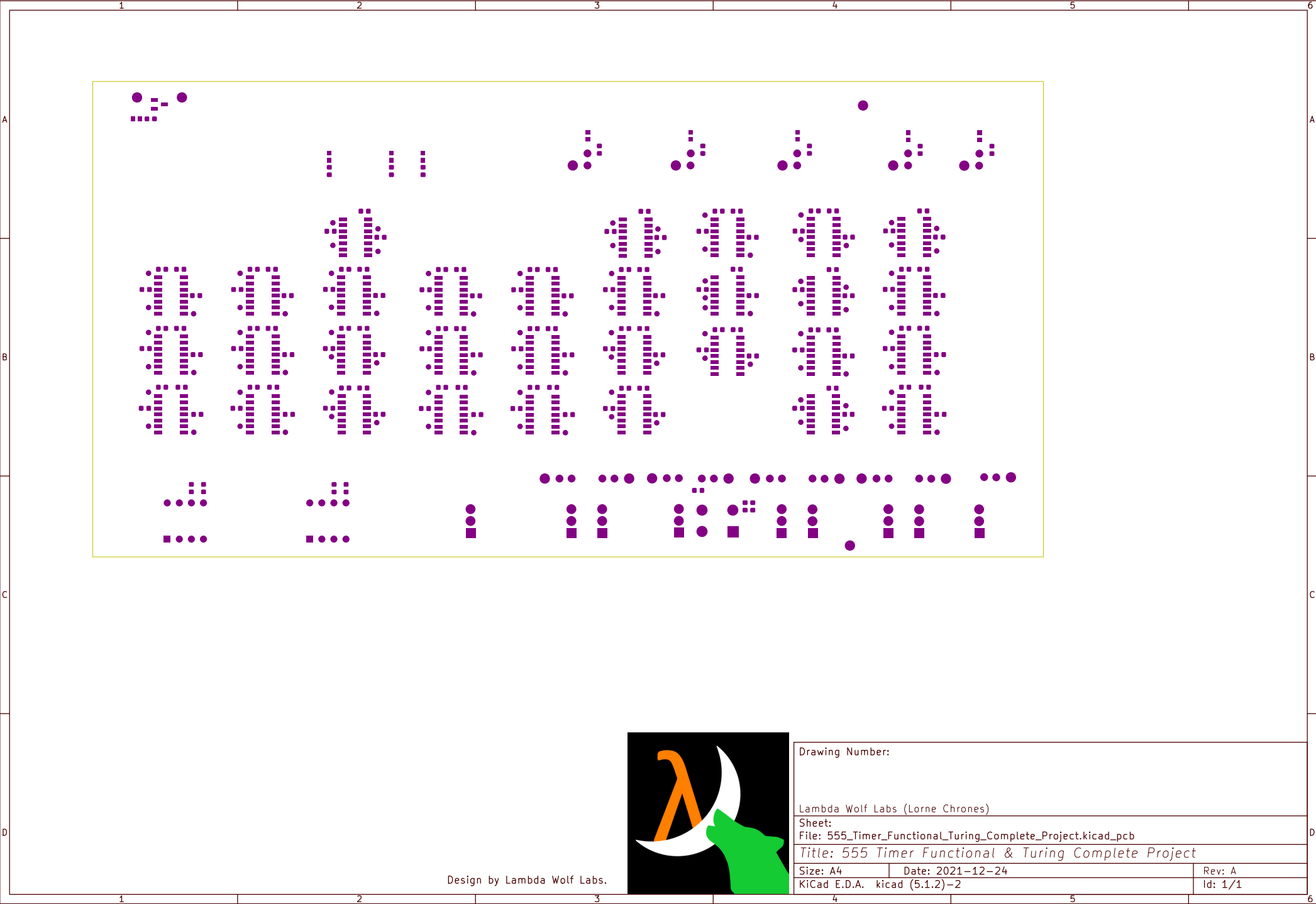
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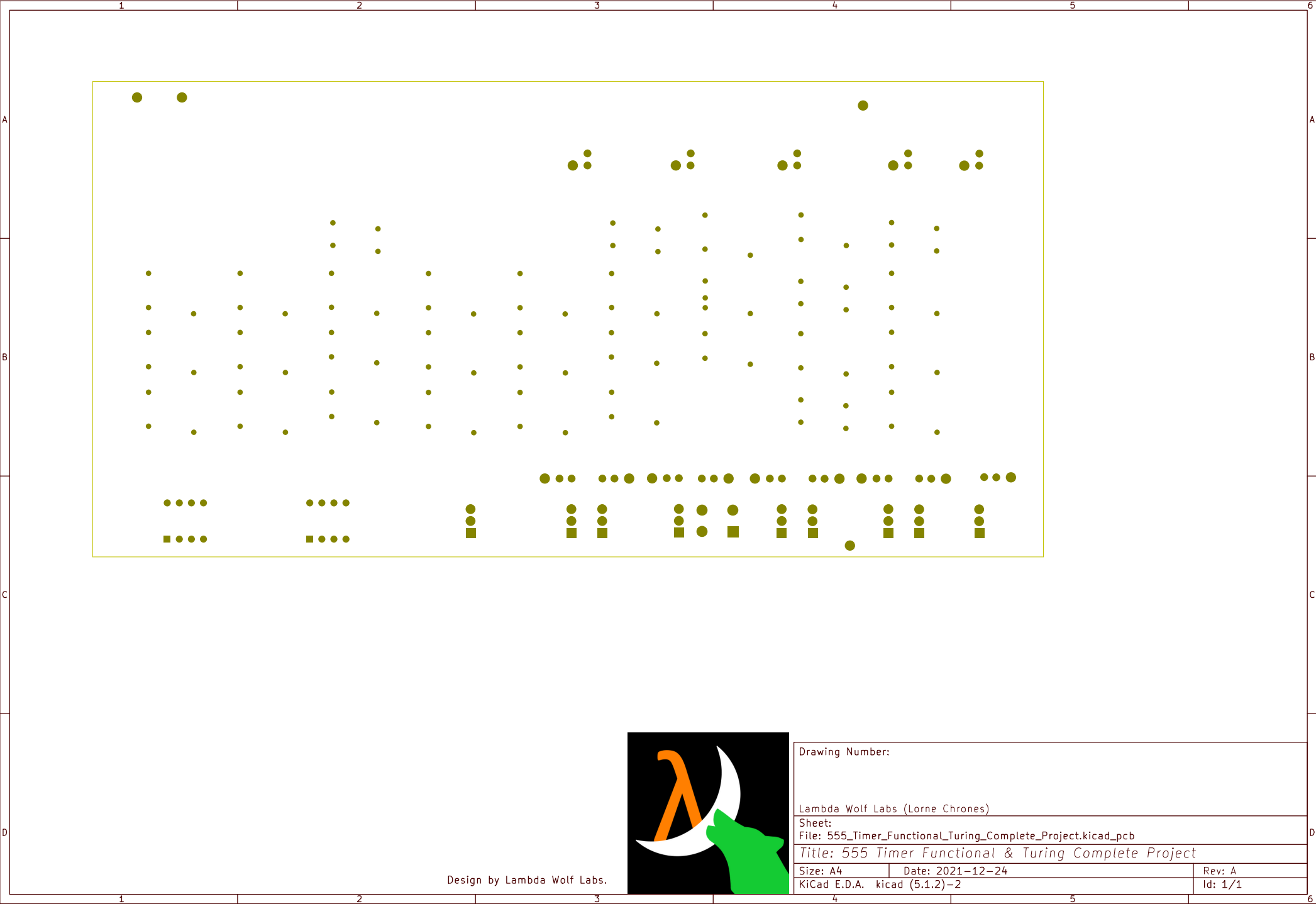
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A

B

C

D

General Notes

1. Fabricate per IPC-610-A Class 2, ANSI/IPC-A-600, IPC-QE-605, IPC-4101, IPC-4652 and IPC-SM-840 Specifications. Use of EU RoHS-compliant materials required. EU REACH compliance preferred but not required.

2. Materials: Base material laminated epoxy glass FR-4, nominal core thickness 0.062" / 1.54mm, color natural, nominal 1oz copper weight. Thickness 0.017" / 1.62mm max after plating and finishing, RoHS compliant per IPC-4101 slash sheets #26 or #83 or #99 with minimum Ig 135 Degree C or higher, Id 300 degree C or higher & Flame Rated UL 94V-0.

3. Soldermask both sides of board over bare copper with material per ANSI/IPC-SM-840. Color shall be green.

4. Apply solder plating (HASL) with hot-air leveling to exposed copper both sides. Lead-free HASL required.

5. Bottom side silkscreen available to apply markings such as manufacturer, UL marking, date-code, etc. Avoid modifying top side silkscreen.

6. Apply silkscreen to top side of board using non-conductive white epoxy Ink.

7. See fabrication files with same title or drawing number and revision as this drawing.

8. Dimensional tolerances are: 0.XX" = +/- 0.01", 0.XXX = +/- 0.005, angles = +/- 2 degrees.

9. Outline defined in separate gerber file with ".GML" file extension.

10. See separate drill file with ".DRL" file extension for hole locations. Selected hole locations in this drawing are for reference only.

11. Hole locations specified in the separate drill file take precedence over this drawing and artwork. Contact purchaser / engineer to resolve dimension conflicts between drawing and artwork, if any.

12. Hole sizes are specified as final dimensions after plating and finishing unless otherwise specified.

13. Vendor to plate holes and exposed pads.

14. After assembly, trim solder fillets and component leads to 0.06" (Max) beyond board surface on bottom side.

15. Design geometry minimum feature sizes & design rules:
Trace Width: 6mils
Hole-Hole: 25mils
Silkscreen Line Width: 6mils
Minimum Hole Size (Plated): 10mils
Board Edge-Copper: 15mils
Trace-Trace / Trace-Pad: 6mils
Pad-Pad: 6mils
Silkscreen-Bare Copper: 6mils
Maximum Hole Size (Unplated): 250mils

Stackup:

F.Silks - Top Silkscreen
F.Mask - Top Mask - 1mil thick max
F.Cu - Top Layer - 1oz Copper

FR-4 Dielectric 62mils

B.Cu - Bottom Layer - 1oz Copper
B.Mask - Bottom Mask - 1mil thick max
B.Silks - Bottom Silkscreen

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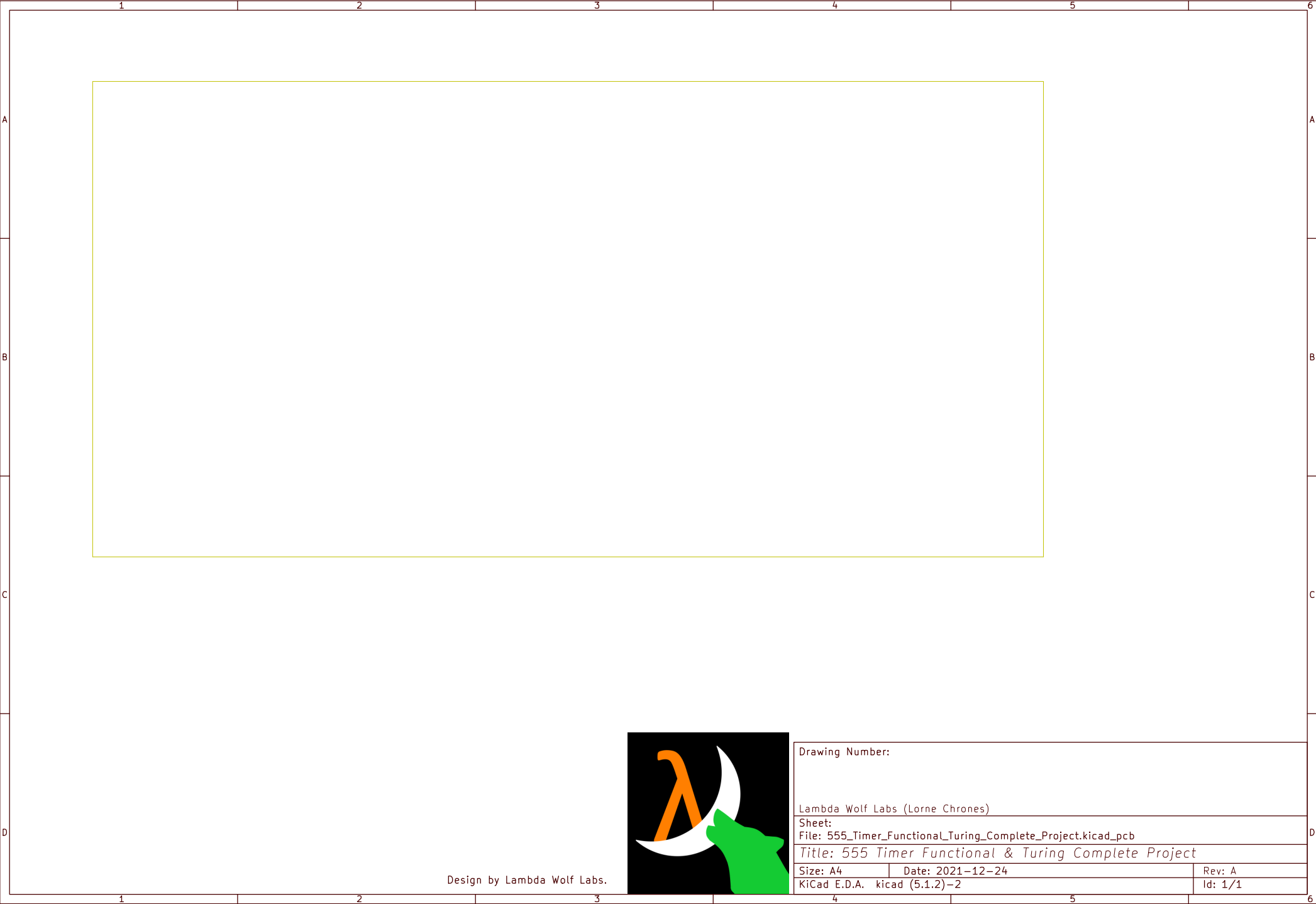
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Power In
Adder Output LEDs Misc Output LEDs

555 Adder Logic Misc 555 Gates

Adder User Input Misc User Input



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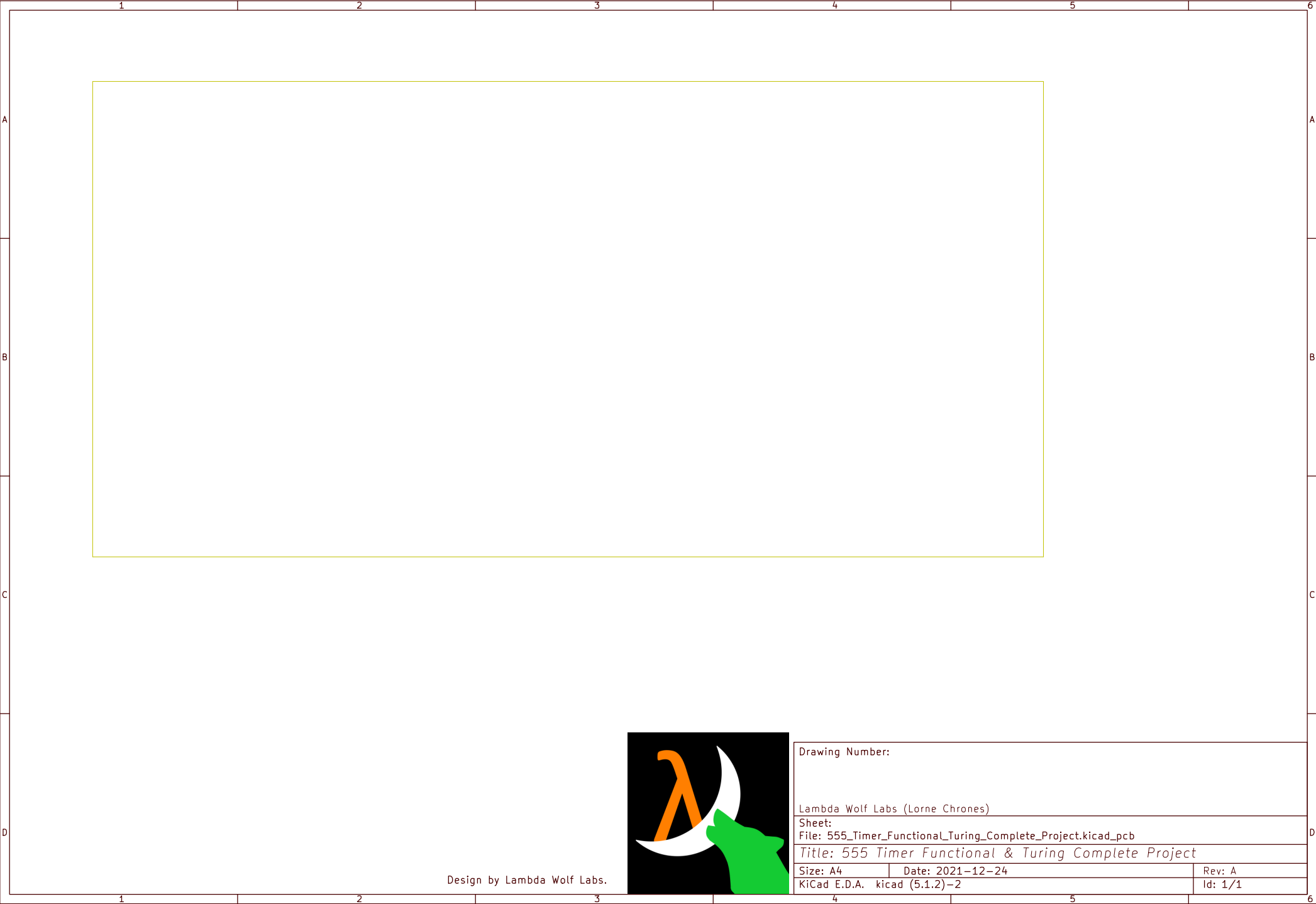
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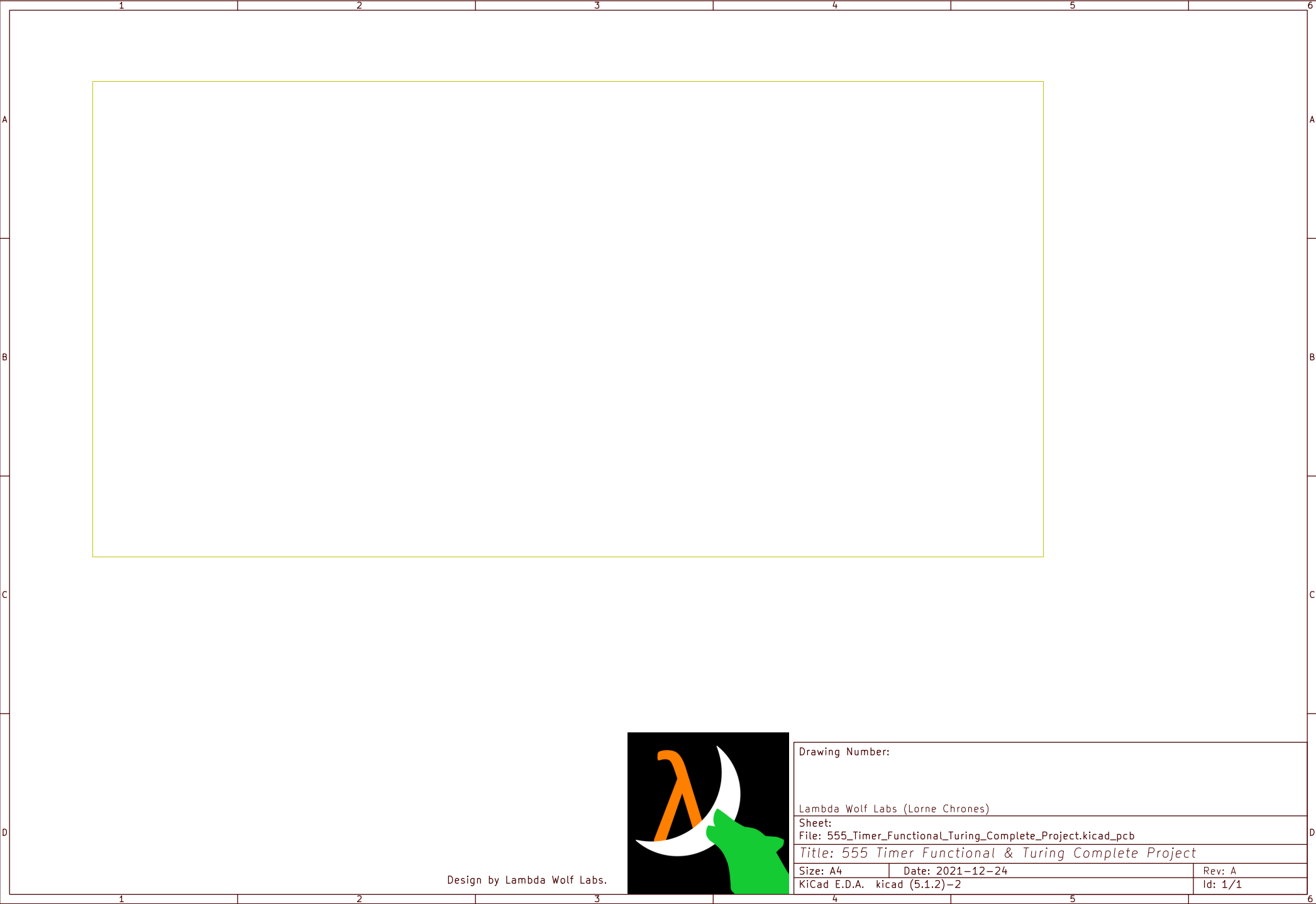
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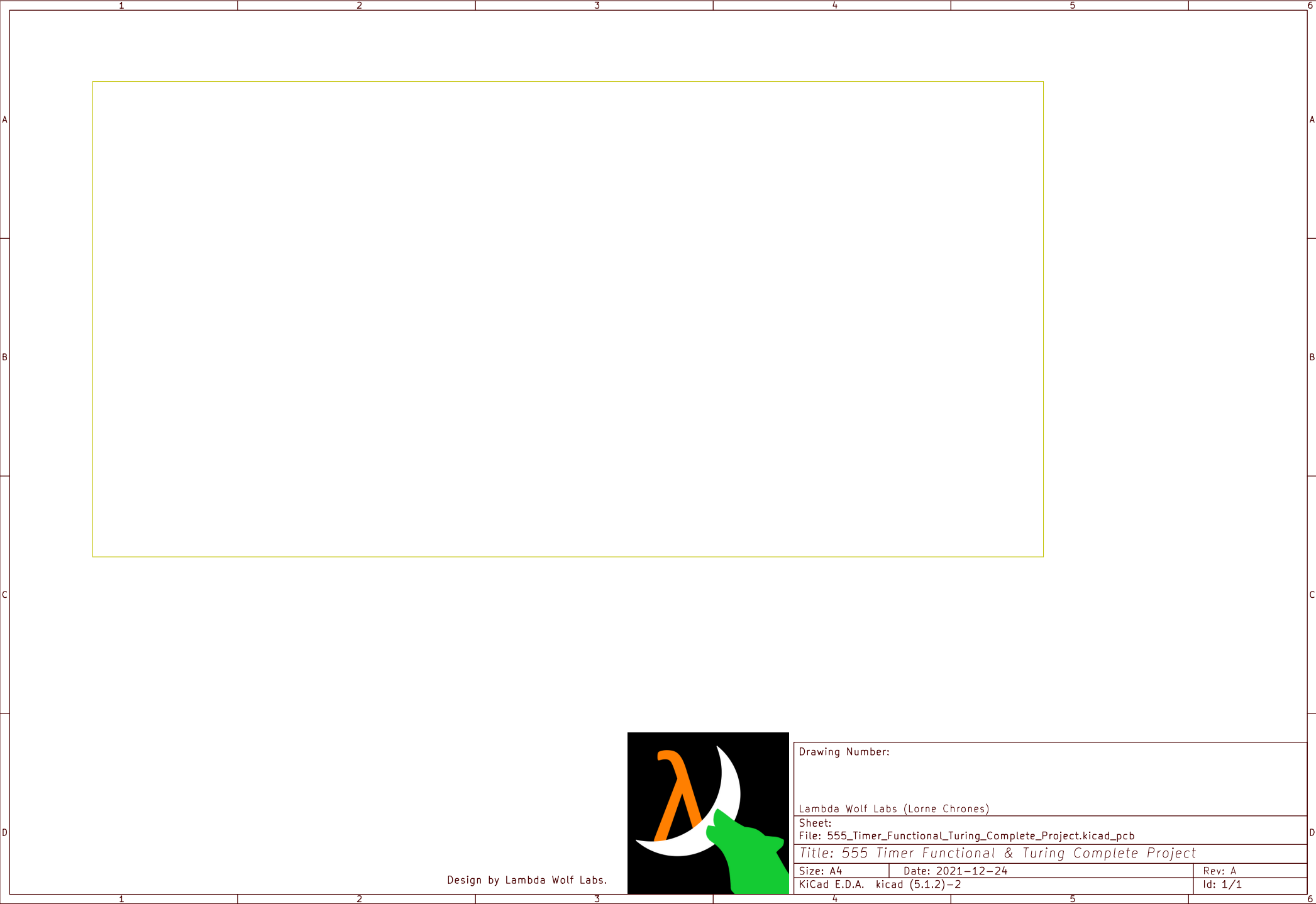
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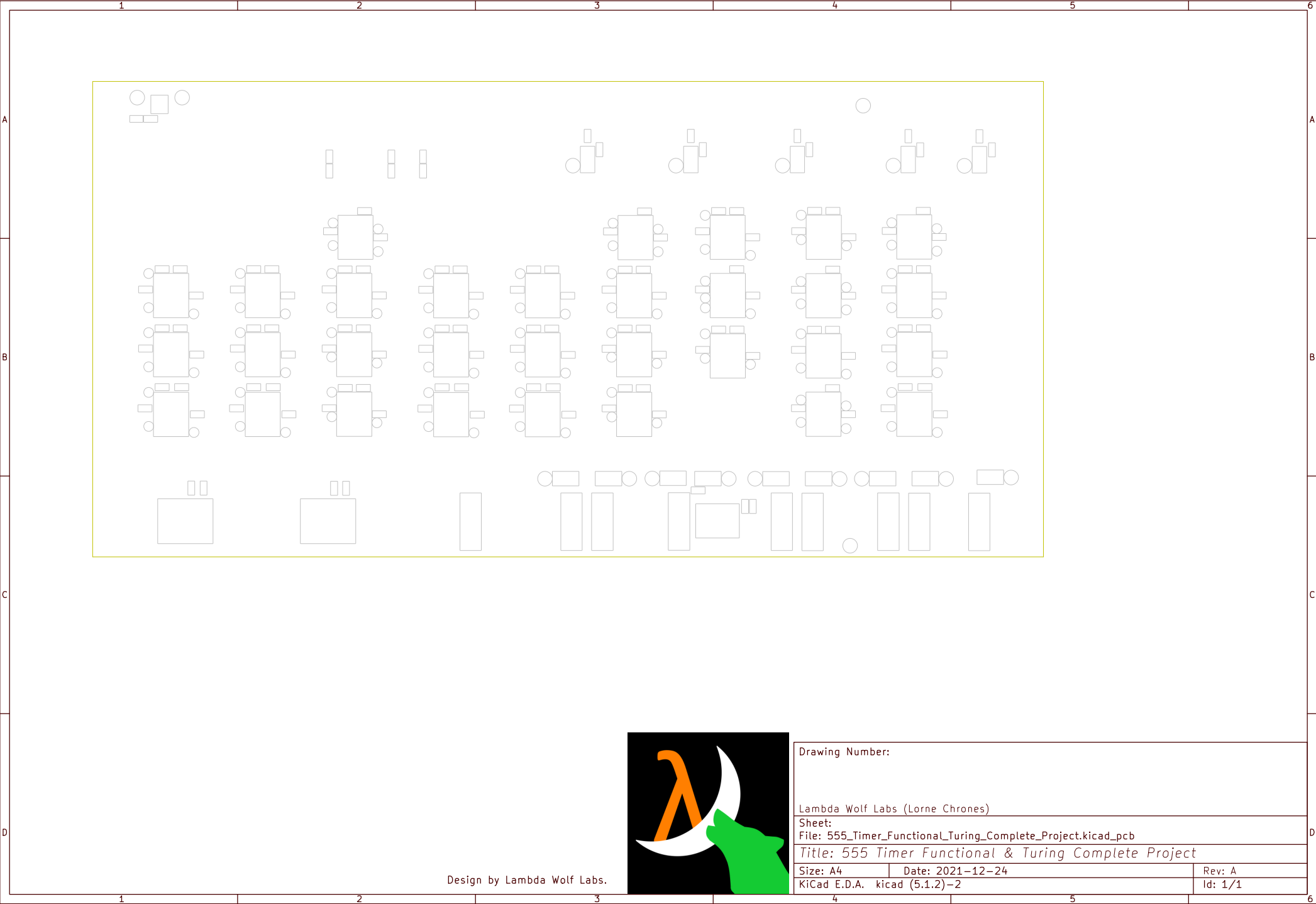
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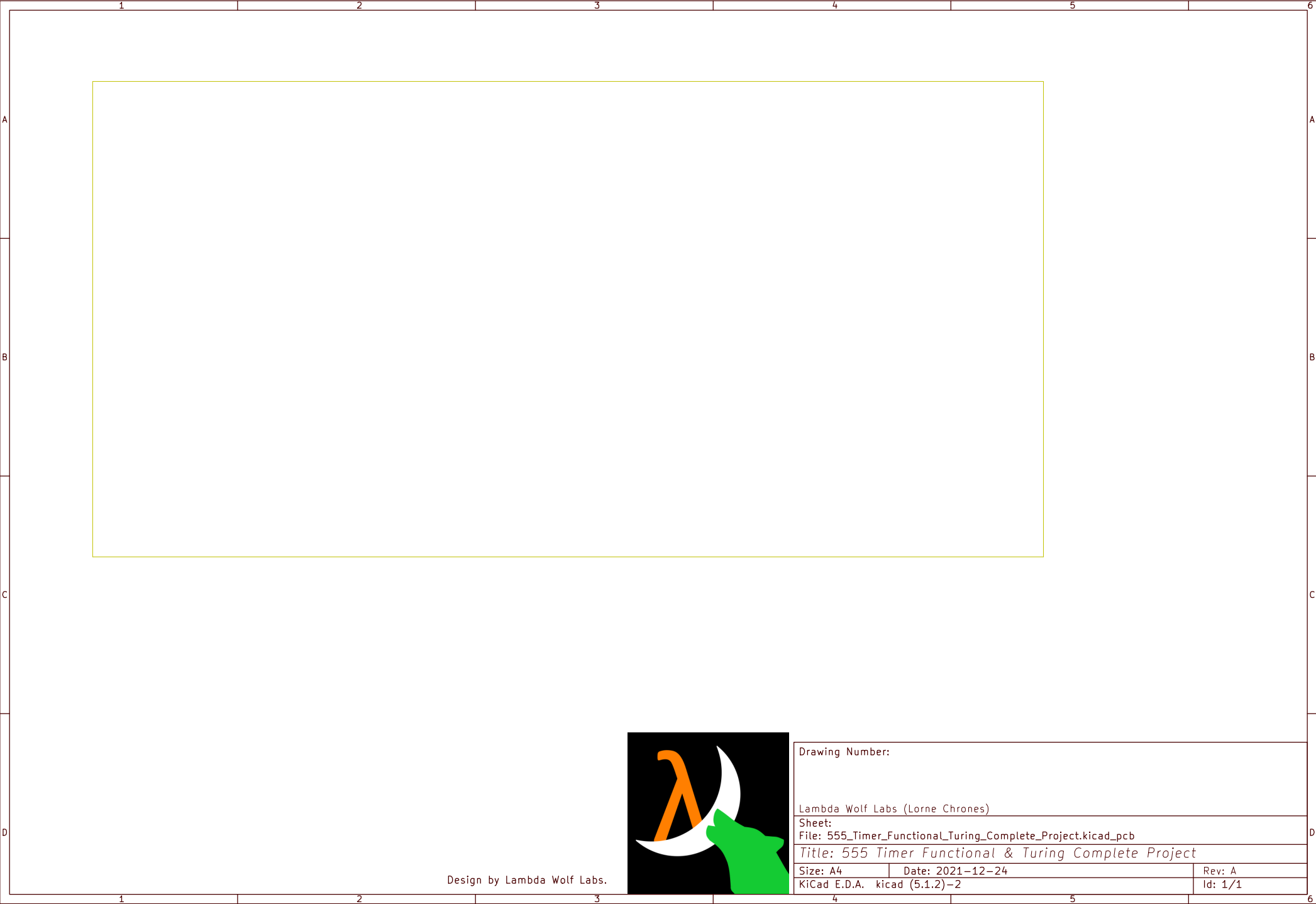


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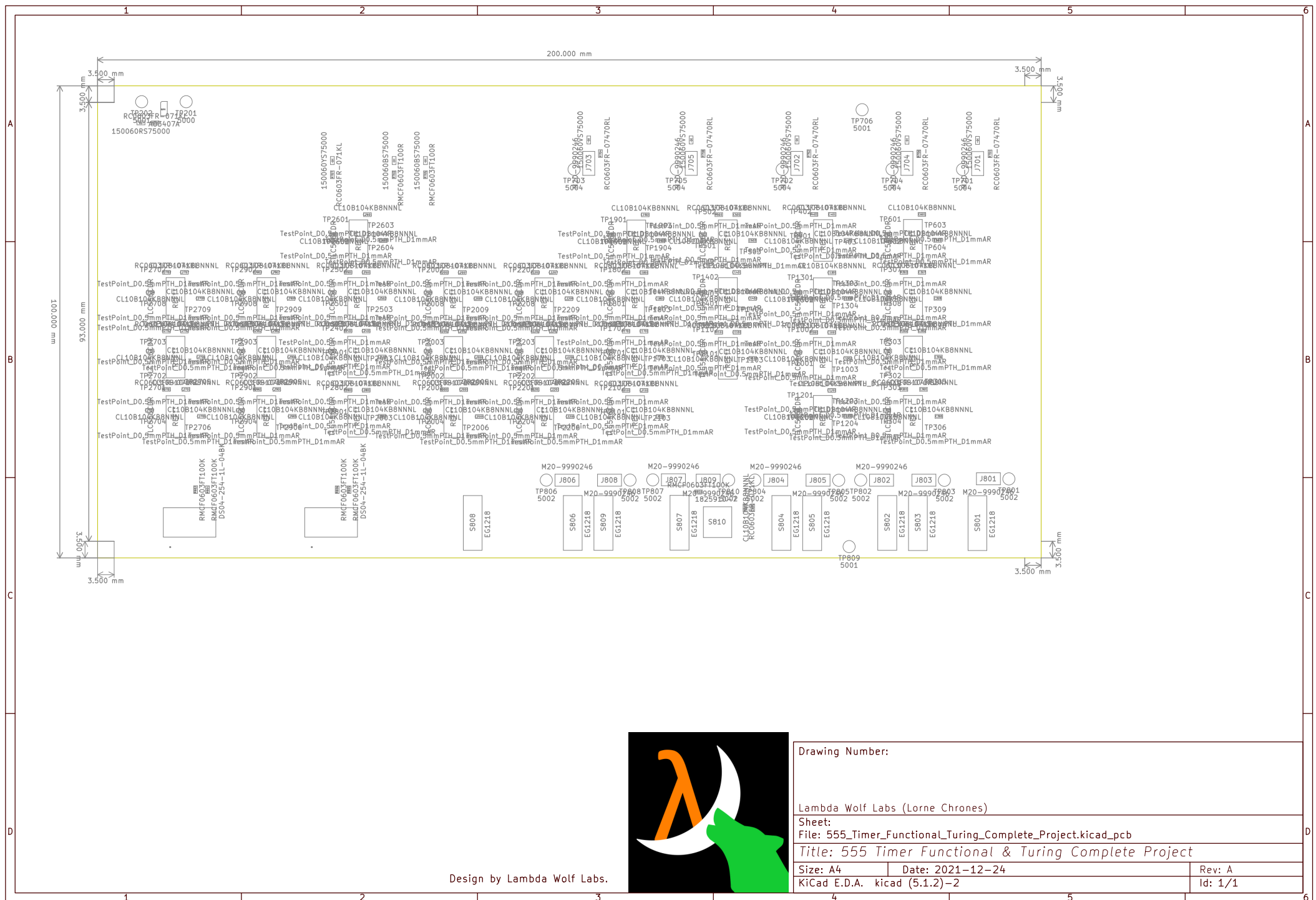




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