

Stopwatch

01. Table of Contents

02. +12V Power Input

03. +3.3V Power Supply

04. Oscillator

05. Status LEDs

06. Pushbuttons

07. Stage 1

08. Stage 2

09. Stage 3

10. Stage 4

11. Stage 5

12. Stage 6

13. Seconds Reset

14. Minutes Reset

15. Mechanical

+12V Power Input



File: POS12_Power_Input.kicad_sch

+3.3V Power Supply



File: POS3P3_Power_Supply.kicad_sch

Oscillator



File: Oscillator.kicad_sch

Status LEDs



File: Status_LEDs.kicad_sch

Pushbuttons



File: Pushbuttons.kicad_sch

Stage 01



File: Stage_01.kicad_sch

Stage 02



File: Stage_02.kicad_sch

Stage 03



File: Stage_03.kicad_sch

Stage 04



File: Stage_04.kicad_sch

Stage 05



File: Stage_05.kicad_sch

Stage 06



File: Stage_06.kicad_sch

Seconds Reset



File: seconds_reset.kicad_sch

Minutes Reset



File: minutes_reset.kicad_sch

Mechanical



File: Mechanical.kicad_sch

Drew Maatman

Sheet: /

File: Stopwatch.kicad_sch

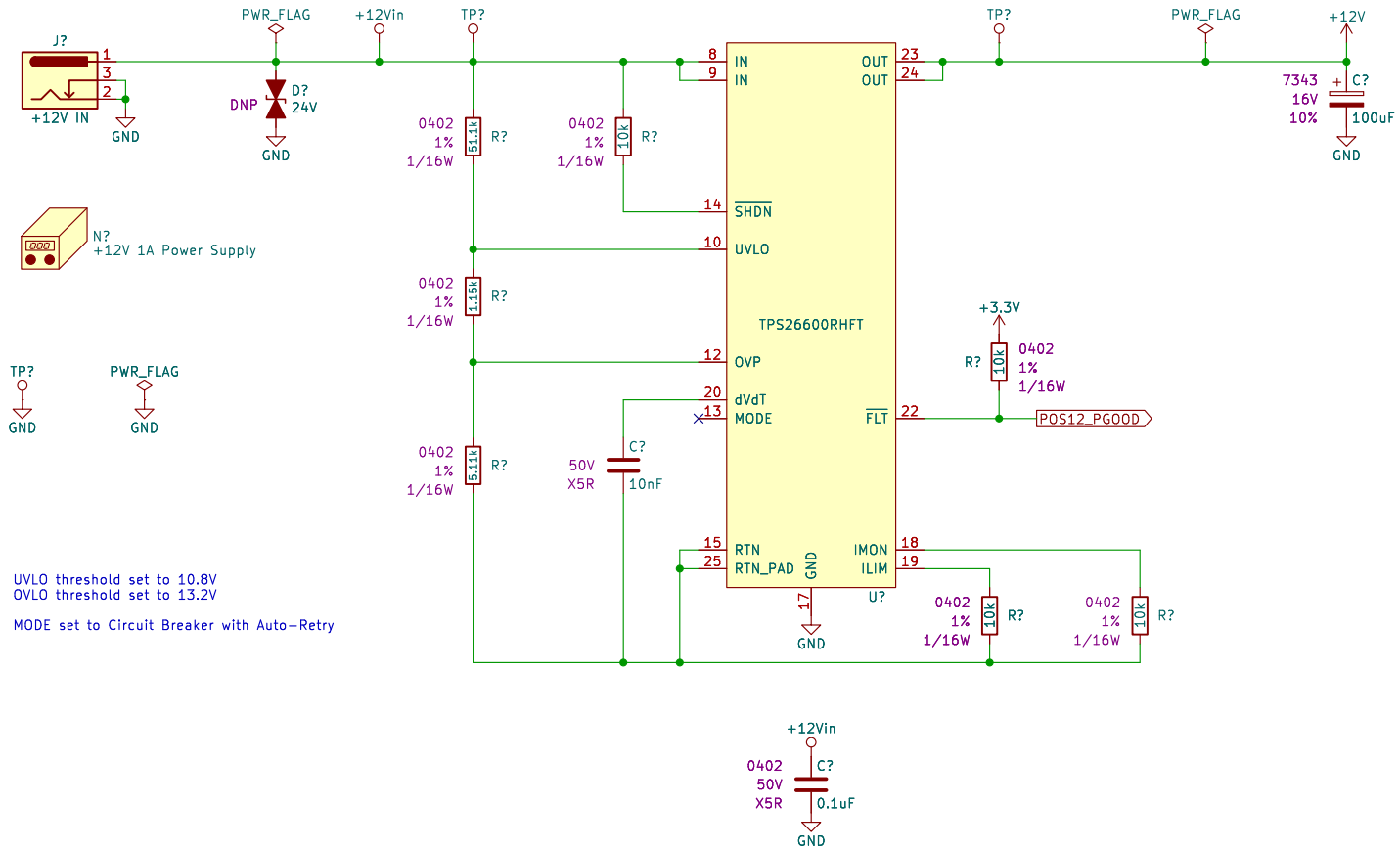
Title: Stopwatch

Size: A Date: 2024-01-11

KiCad E.D.A. kicad 7.0.1

Rev: A

Id: 1/15



UVLO threshold set to 10.8V
 OVLO threshold set to 13.2V
 MODE set to Circuit Breaker with Auto-Retry

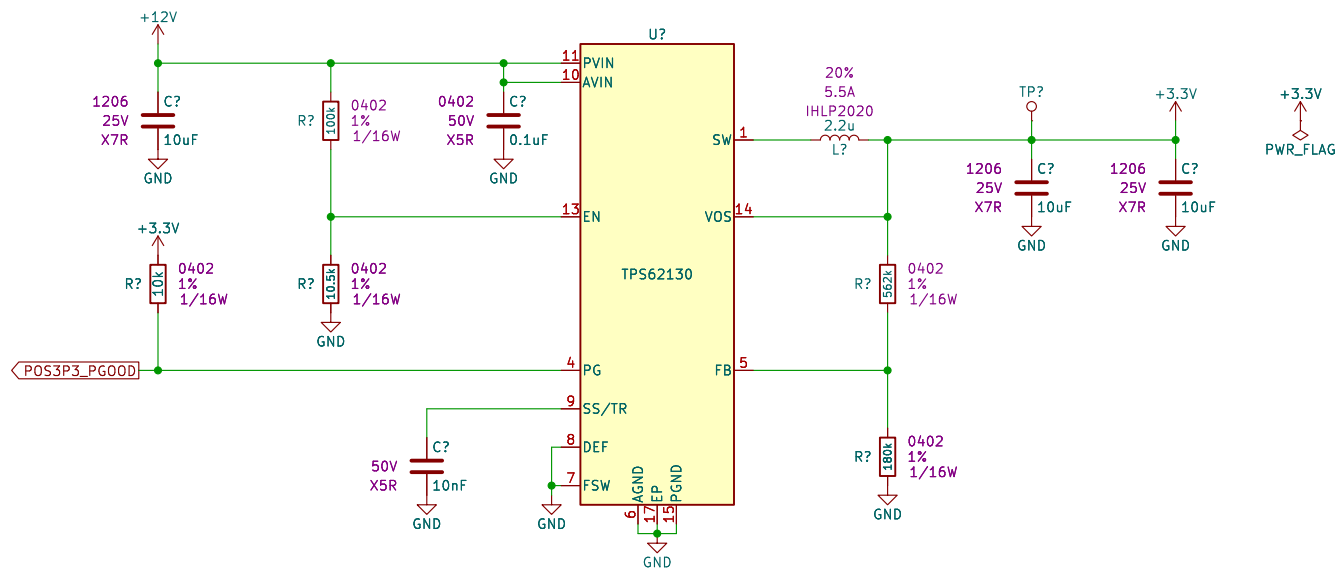
Drew Maatman

Sheet: /+12V Power Input/
 File: POS12_Power_Input.kicad_sch

Title: Stopwatch

Size: A Date: 2024-01-11
 KiCad E.D.A. kicad 7.0.1

Rev: A
 Id: 2/15



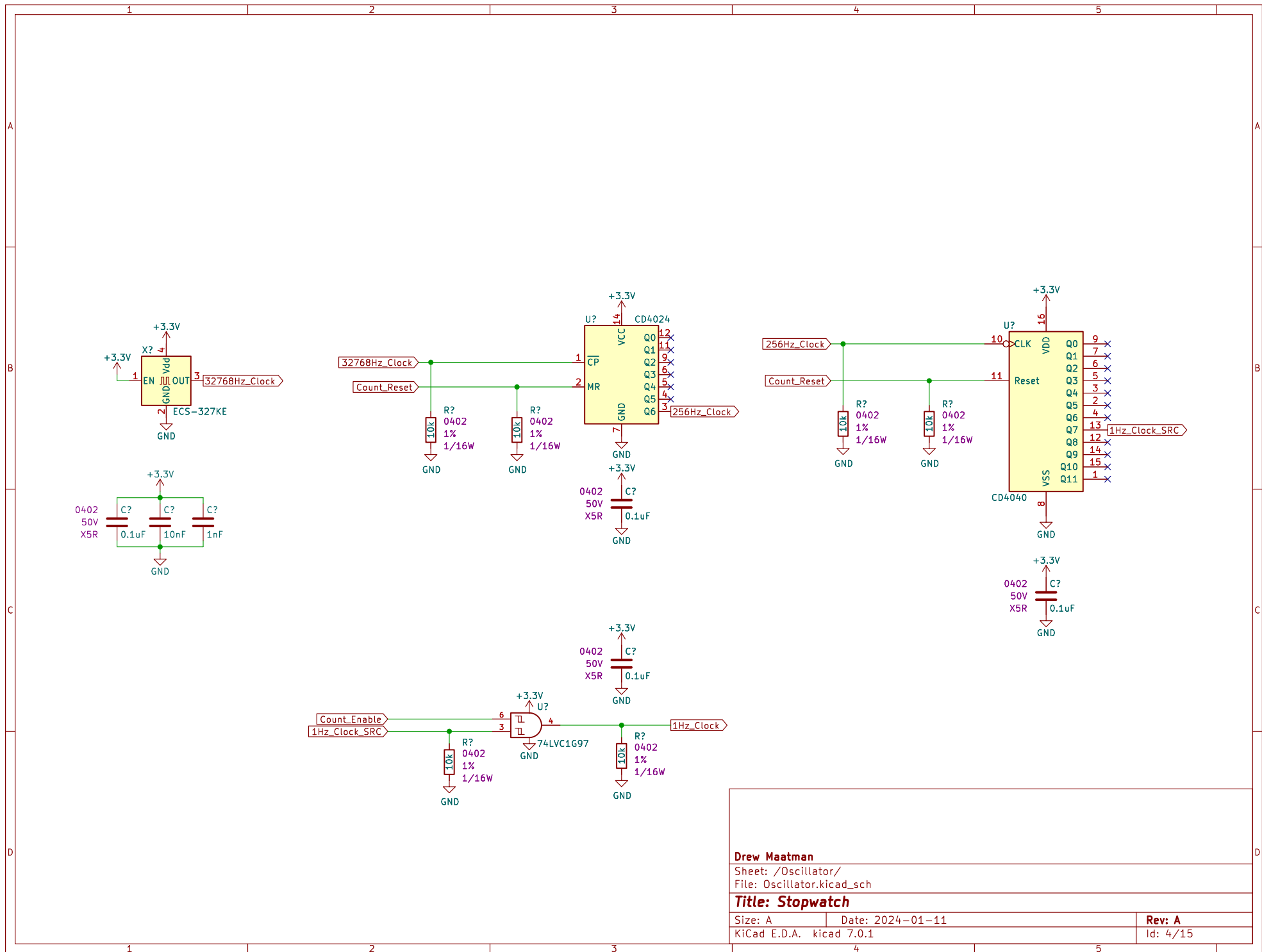
Drew Maatman

Sheet: /+3.3V Power Supply/
File: POS3P3_Power_Supply.kicad_sch

Title: Stopwatch

Size: A Date: 2024-01-11
KiCad E.D.A. kicad 7.0.1

Rev: A
Id: 3/15



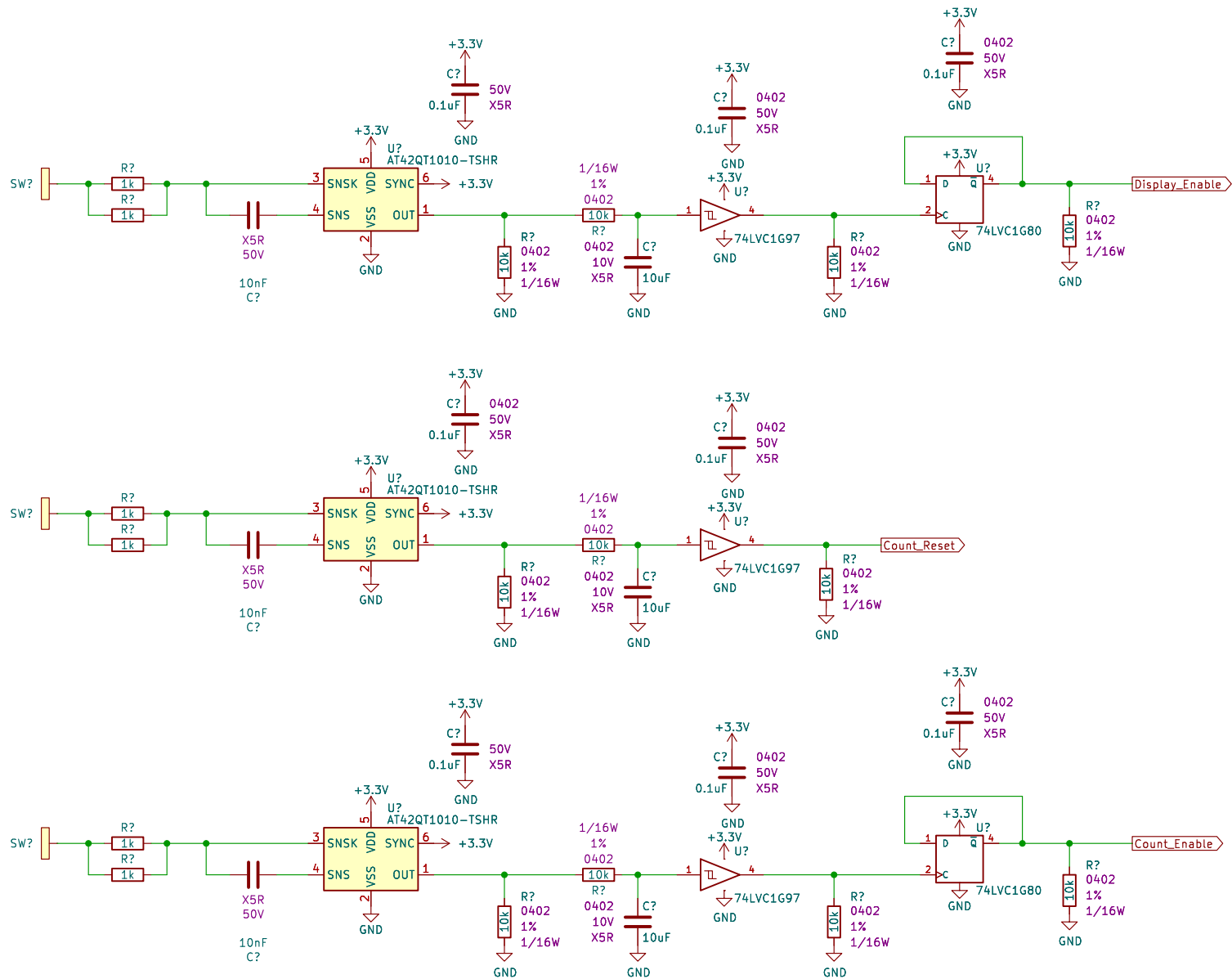
Drew Maatman

Sheet: /Oscillator/
File: Oscillator.kicad_sch

Title: Stopwatch

Size: A Date: 2024-01-11
KiCad E.D.A. kicad 7.0.1

Rev: A
Id: 4/15



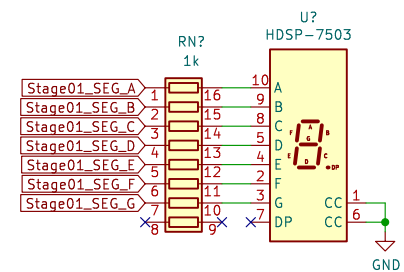
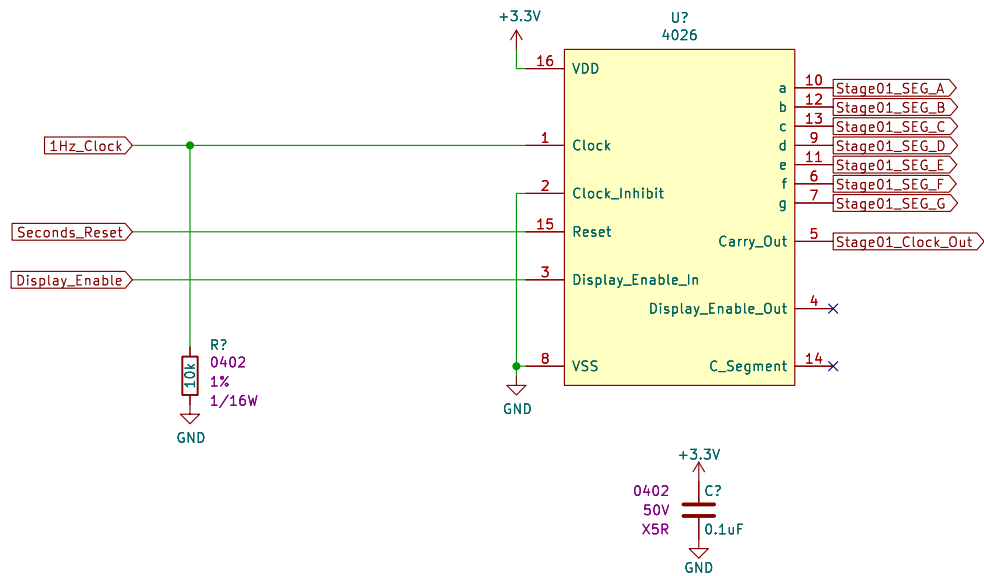
Drew Maatman

Sheet: /Pushbuttons/
File: Pushbuttons.kicad_sch

Title: Stopwatch

Size: A Date: 2024-01-11
KiCad E.D.A. kicad 7.0.1

Rev: A
Id: 6/15



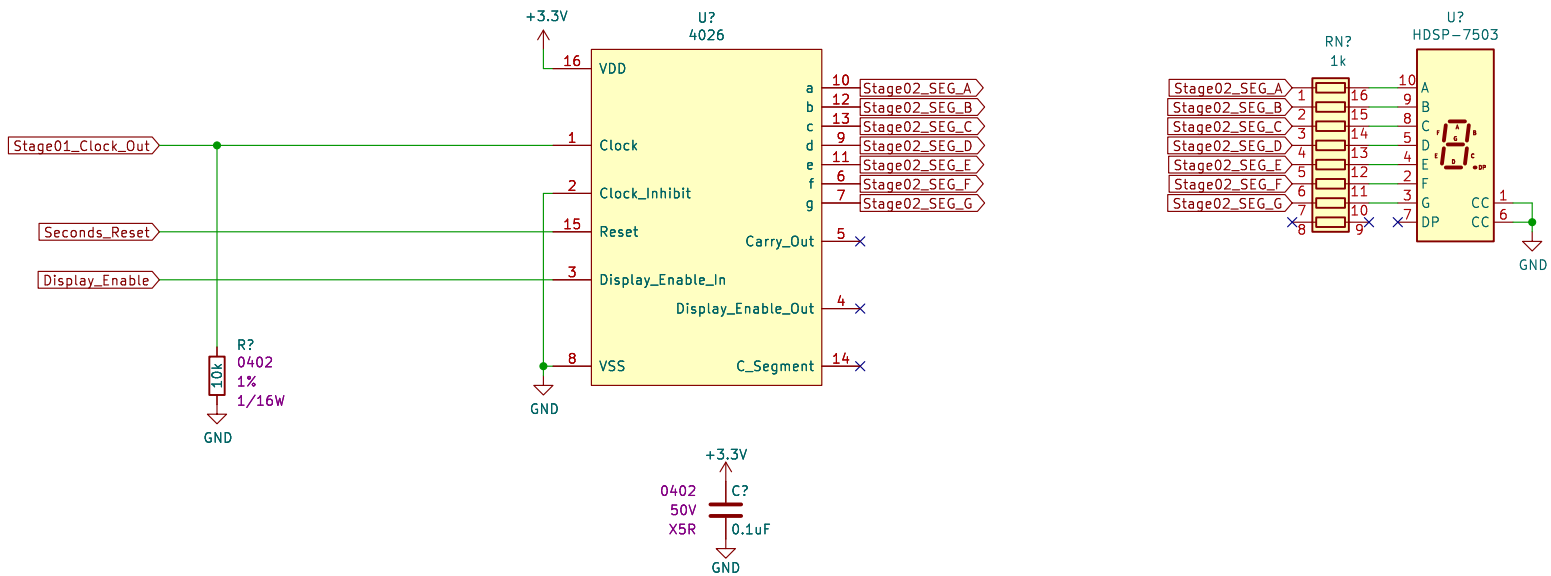
Drew Maatman

Sheet: /Stage 01/
File: Stage_01.kicad_sch

Title: Stopwatch

Size: A Date: 2024-01-11
KiCad E.D.A. kicad 7.0.1

Rev: A
Id: 7/15



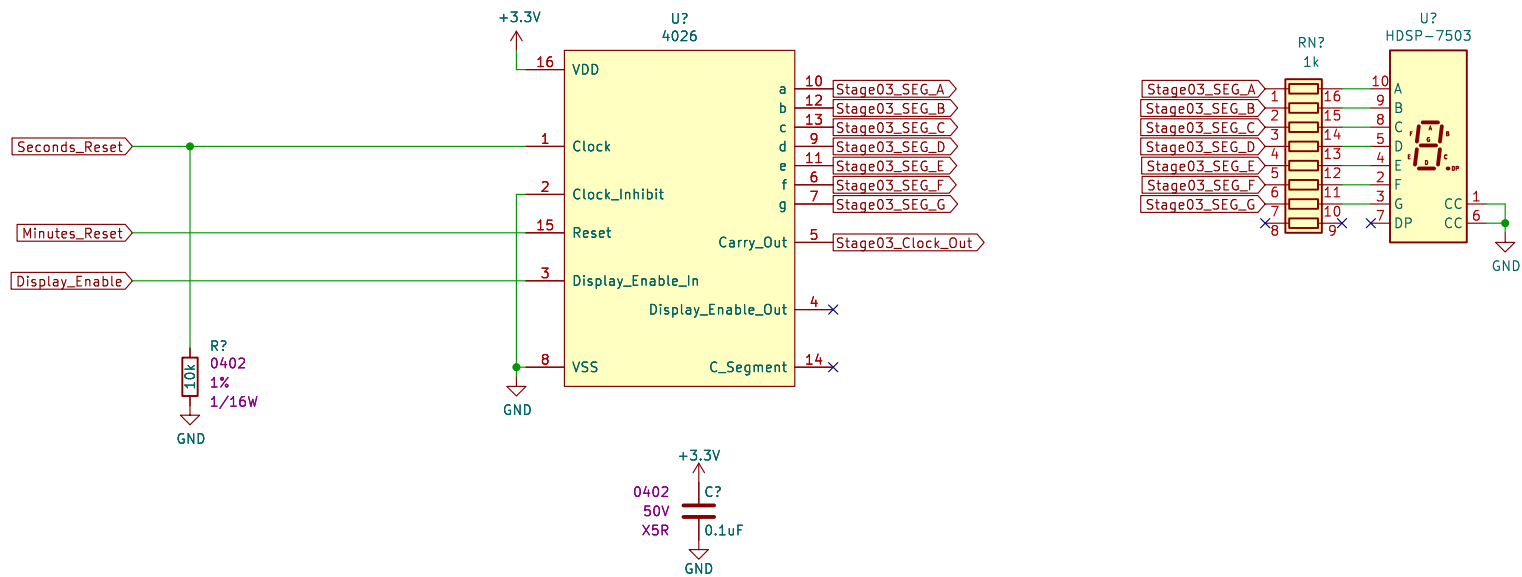
Drew Maatman

Sheet: /Stage 02/
File: Stage_02.kicad_sch

Title: Stopwatch

Size: A Date: 2024-01-11
KiCad E.D.A. kicad 7.0.1

Rev: A
Id: 8/15



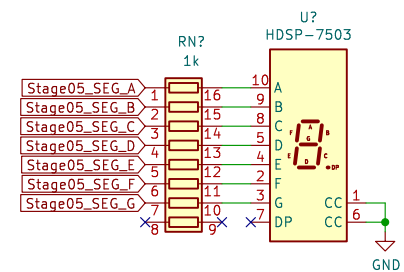
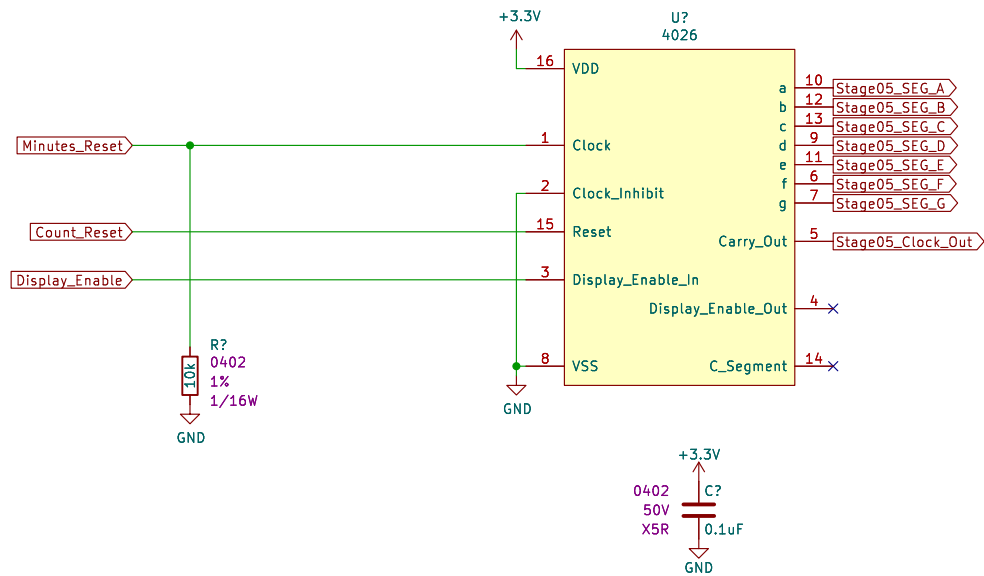
Drew Maatman

Sheet: /Stage 03/
File: Stage_03.kicad_sch

Title: Stopwatch

Size: A Date: 2024-01-11
KiCad E.D.A. kicad 7.0.1

Rev: A
Id: 9/15



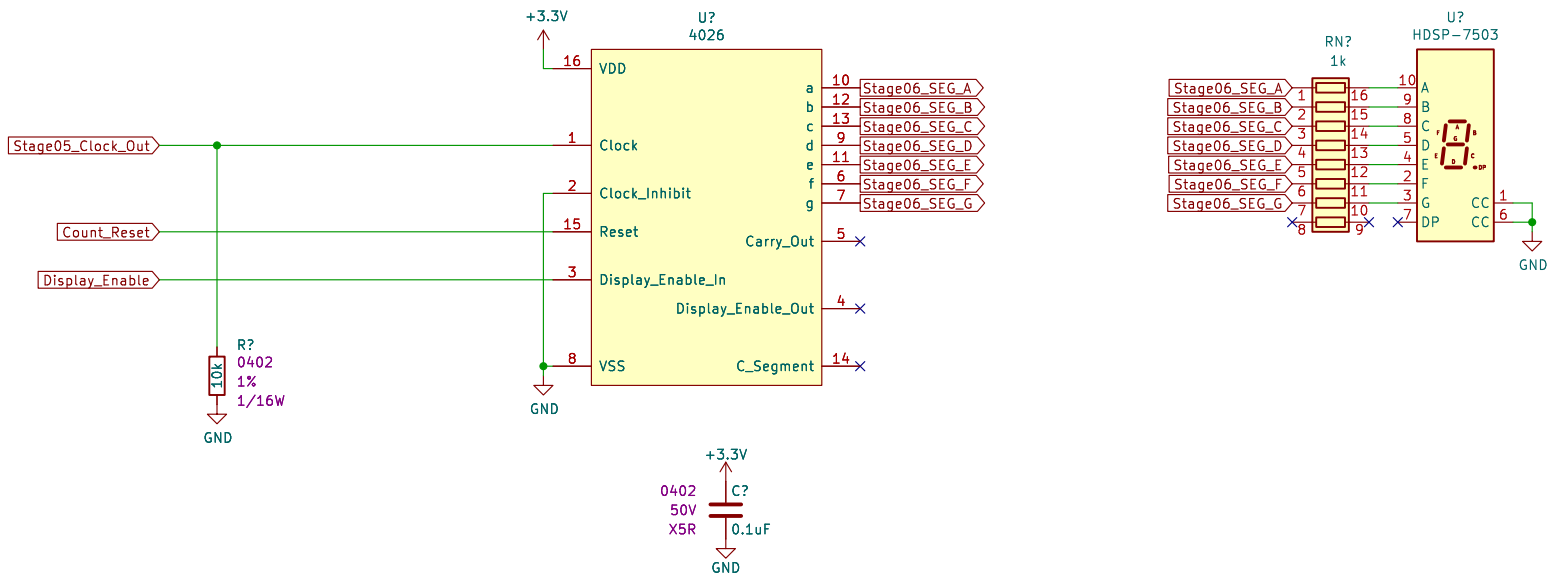
Drew Maatman

Sheet: /Stage 05/
File: Stage_05.kicad_sch

Title: Stopwatch

Size: A Date: 2024-01-11
KiCad E.D.A. kicad 7.0.1

Rev: A
Id: 11/15



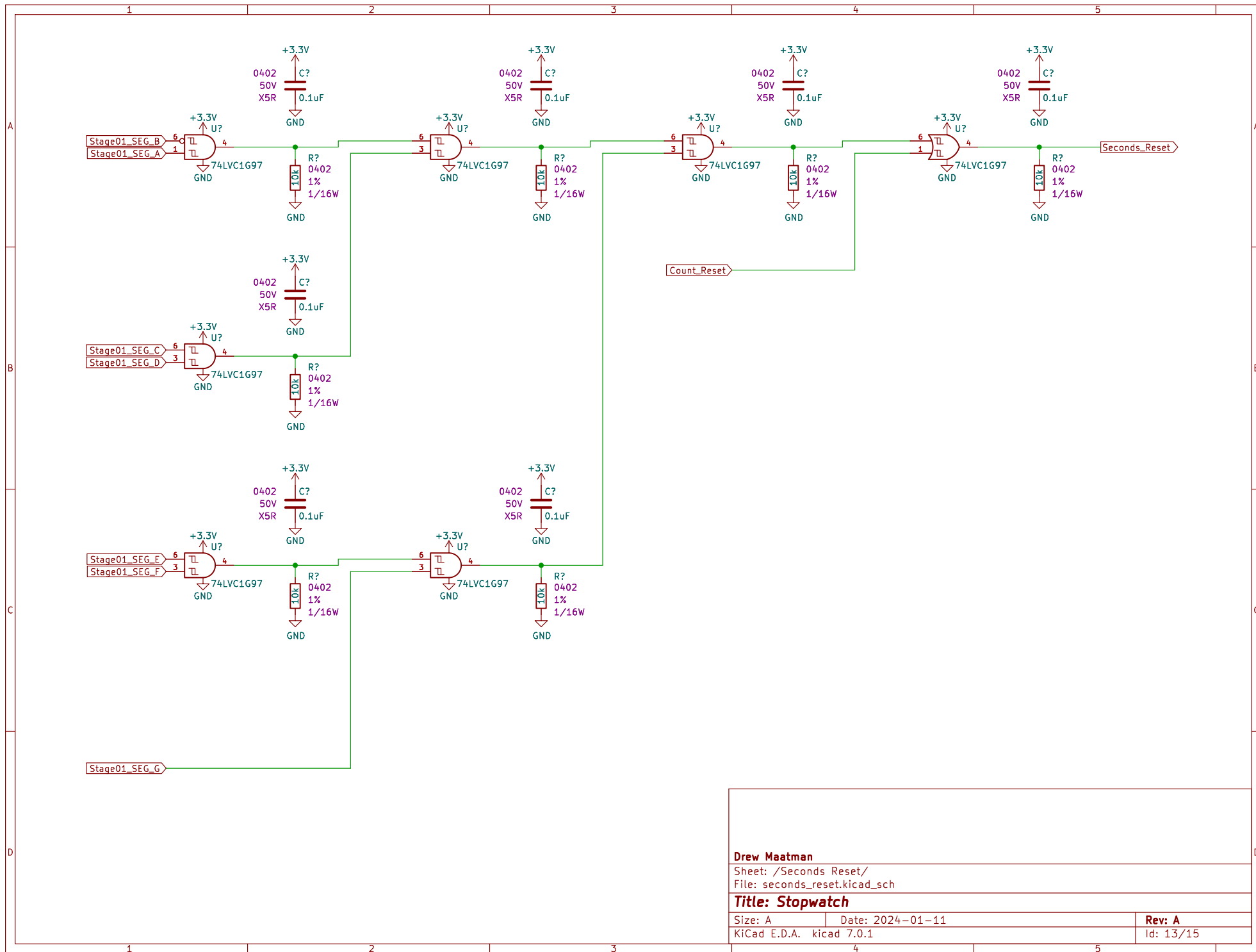
Drew Maatman

Sheet: /Stage 06/
File: Stage_06.kicad_sch

Title: Stopwatch

Size: A Date: 2024-01-11
KiCad E.D.A. kicad 7.0.1

Rev: A
Id: 12/15



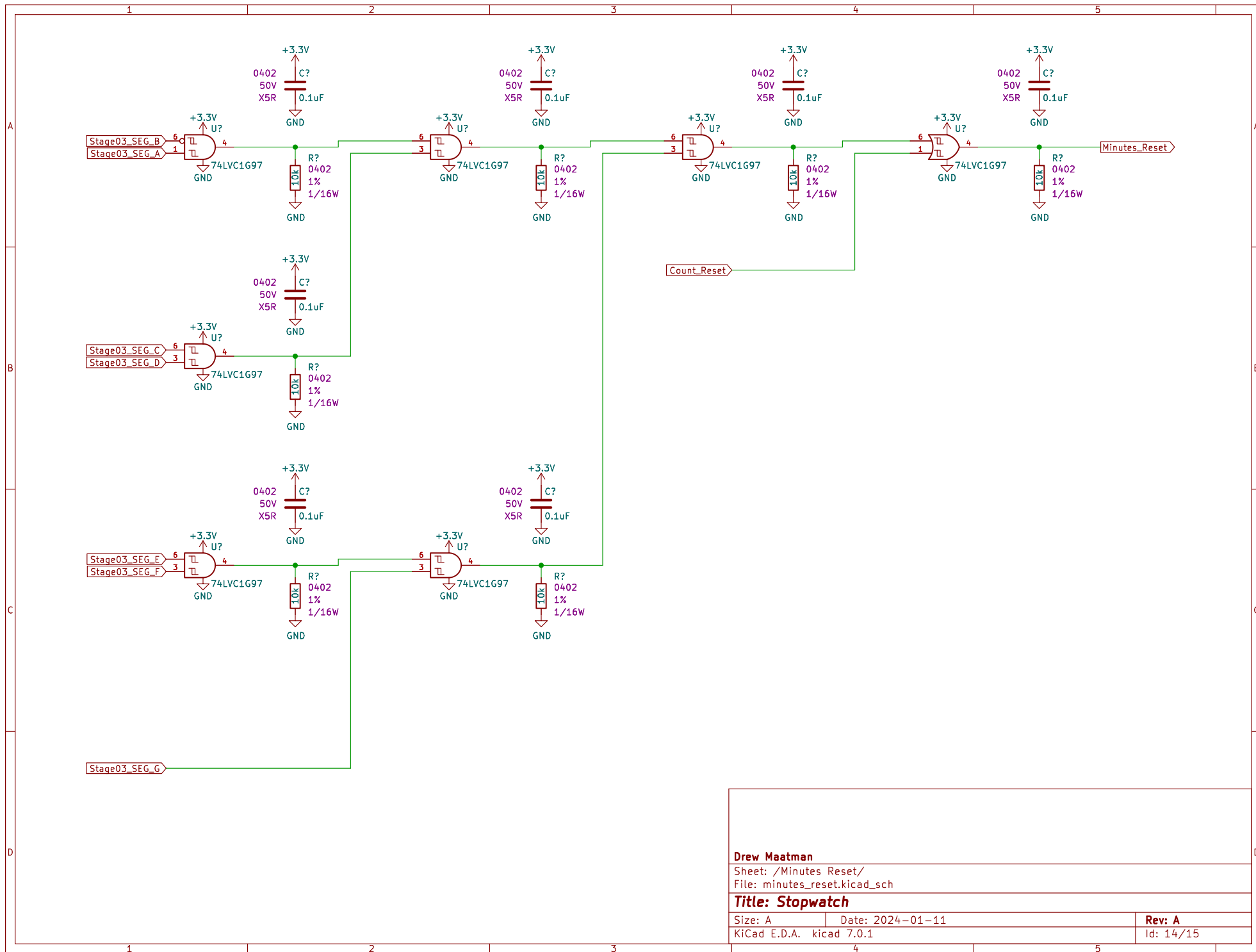
Drew Maatman

Sheet: /Seconds Reset/
File: seconds_reset.kicad_sch

Title: Stopwatch

Size: A Date: 2024-01-11
KiCad E.D.A. kicad 7.0.1

Rev: A
Id: 13/15



Drew Maatman

Sheet: /Minutes_Reset/
File: minutes_reset.kicad_sch

Title: Stopwatch

Size: A Date: 2024-01-11
KiCad E.D.A. kicad 7.0.1

Rev: A
Id: 14/15

