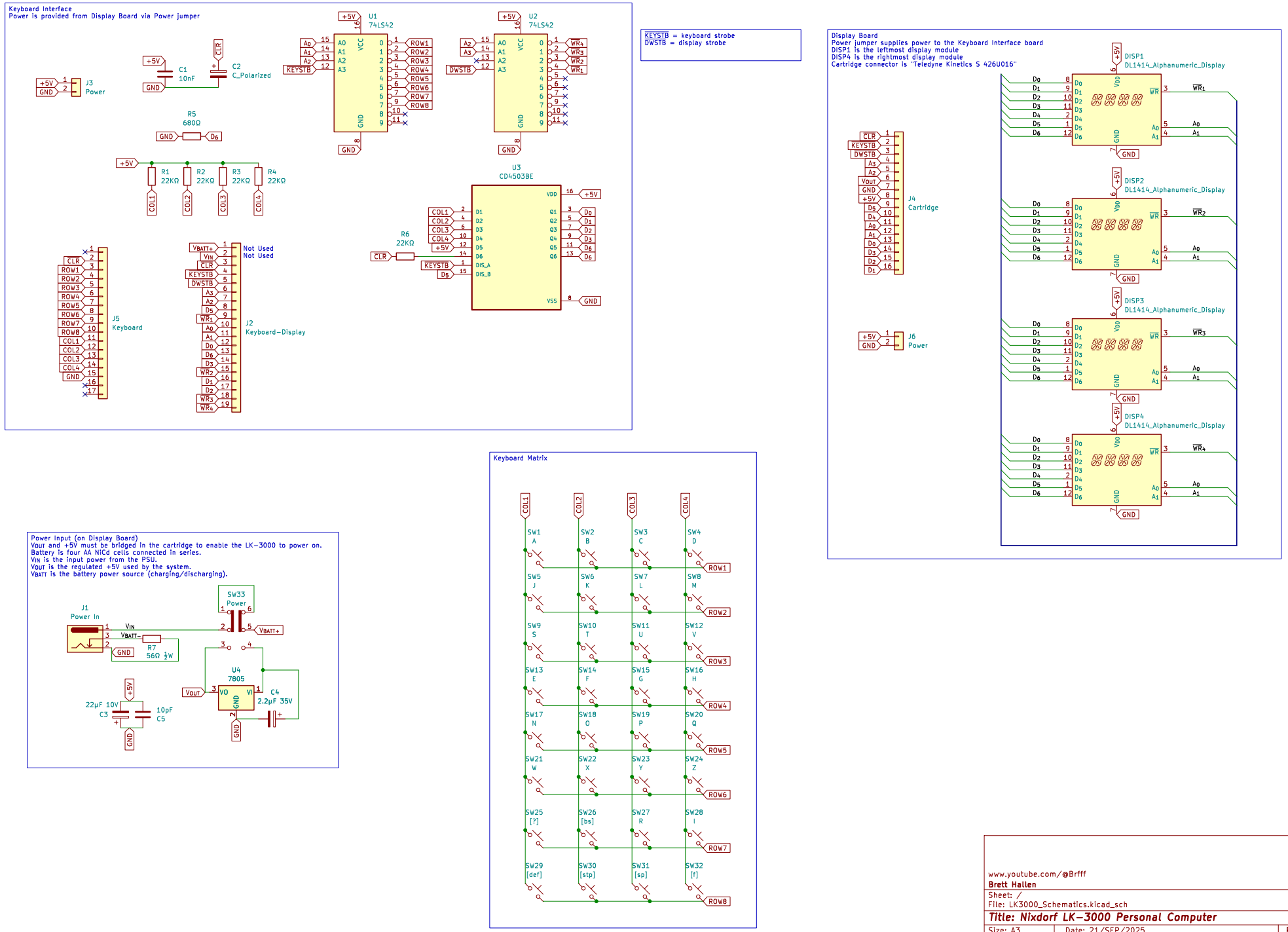
Keyboard Interface
Power is provided from Display Board via Power jumper
U1
74LS42
U2
74LS42
U3
CD4503BE
J3
Power
C1
10nF
C2
C_Polarized
R5
680Ω
R1
22KΩ
R2
22KΩ
R3
22KΩ
R4
22KΩ
R6
22KΩ
J5
Keyboard
J2
Keyboard-Display
Not Used
Not Used
KEYSTB = keyboard strobe
DWSTB = display strobe
Display Board
Power jumper supplies power to the Keyboard Interface board
DISP1 is the leftmost display module
DISP4 is the rightmost display module
Cartridge connector is "Teledyne Kinetics S 426U016"
DISP1
DL1414_Alphanumeric_Display
DISP2
DL1414_Alphanumeric_Display
DISP3
DL1414_Alphanumeric_Display
DISP4
DL1414_Alphanumeric_Display
J4
Cartridge
J6
Power
Power Input (on Display Board)
VOUT and +5V must be bridged in the cartridge to enable the LK-3000 to power on.
Battery is four AA NiCd cells connected in series.
VIN is the input power from the PSU.
VOUT is the regulated +5V used by the system.
VBATT is the battery power source (charging/discharging).
J1
Power In
SW33
Power
R7
56Ω ½W
U4
7805
C4
2.2µF 35V
C3
22µF 10V
C5
10pF
Keyboard Matrix
SW1 A
SW2 B
SW3 C
SW4 D
SW5 J
SW6 K
SW7 L
SW8 M
SW9 S
SW10 T
SW11 U
SW12 V
SW13 E
SW14 F
SW15 G
SW16 H
SW17 N
SW18 O
SW19 P
SW20 Q
SW21 W
SW22 X
SW23 Y
SW24 Z
SW25 [?]
SW26 [bs]
SW27 R
SW28 I
SW29 [def]
SW30 [stp]
SW31 [sp]
SW32 [f]
www.youtube.com/@Brfff
Brett Hallen
Sheet: /
File: LK3000_Schematics.kicad_sch
Title: Nixdorf LK-3000 Personal Computer
Size: A3
Date: 21/SEP/2025
KiCad E.D.A. 9.0.4
Rev: WORK IN PROGRESS
Id: 1/1