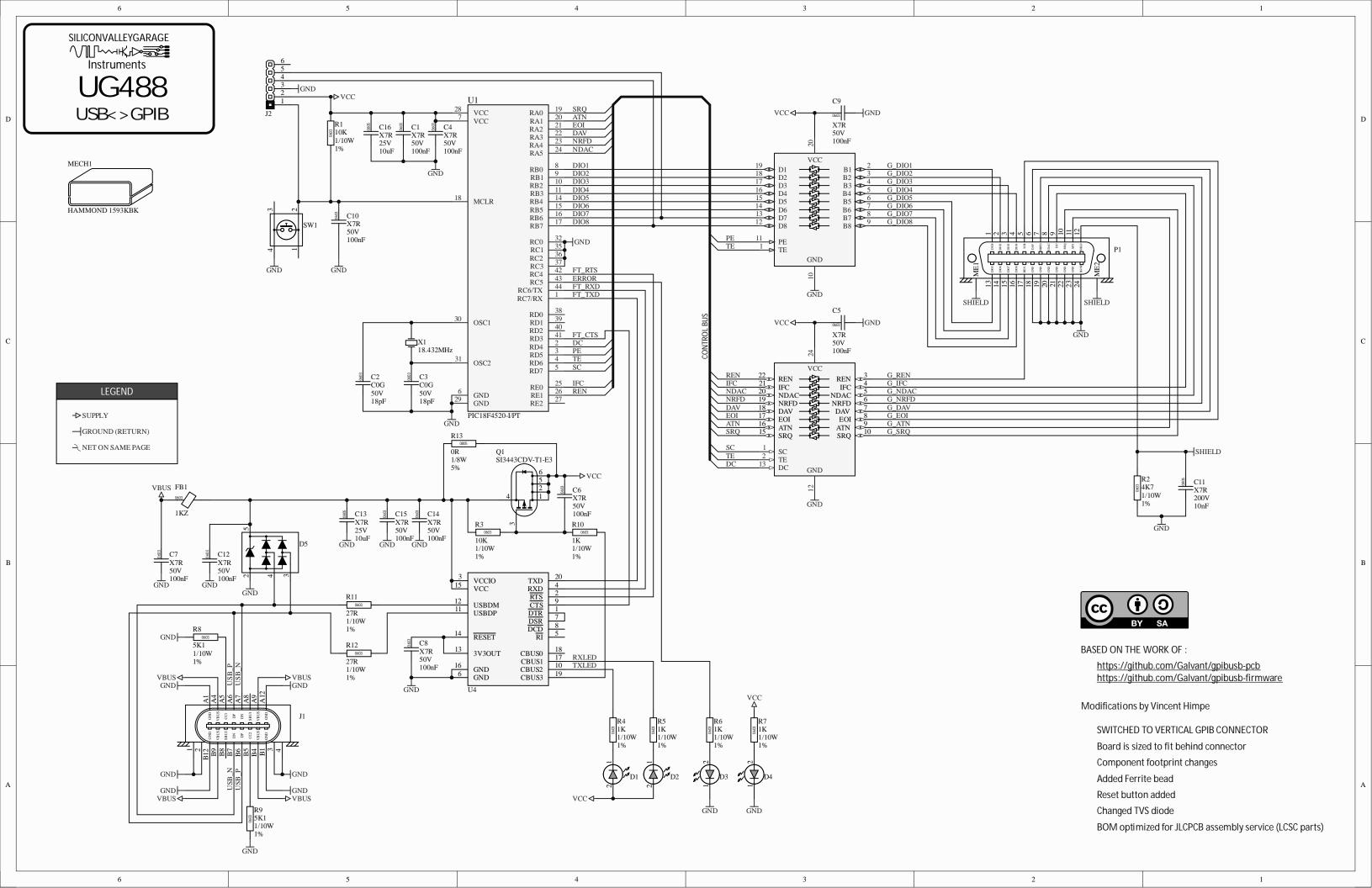
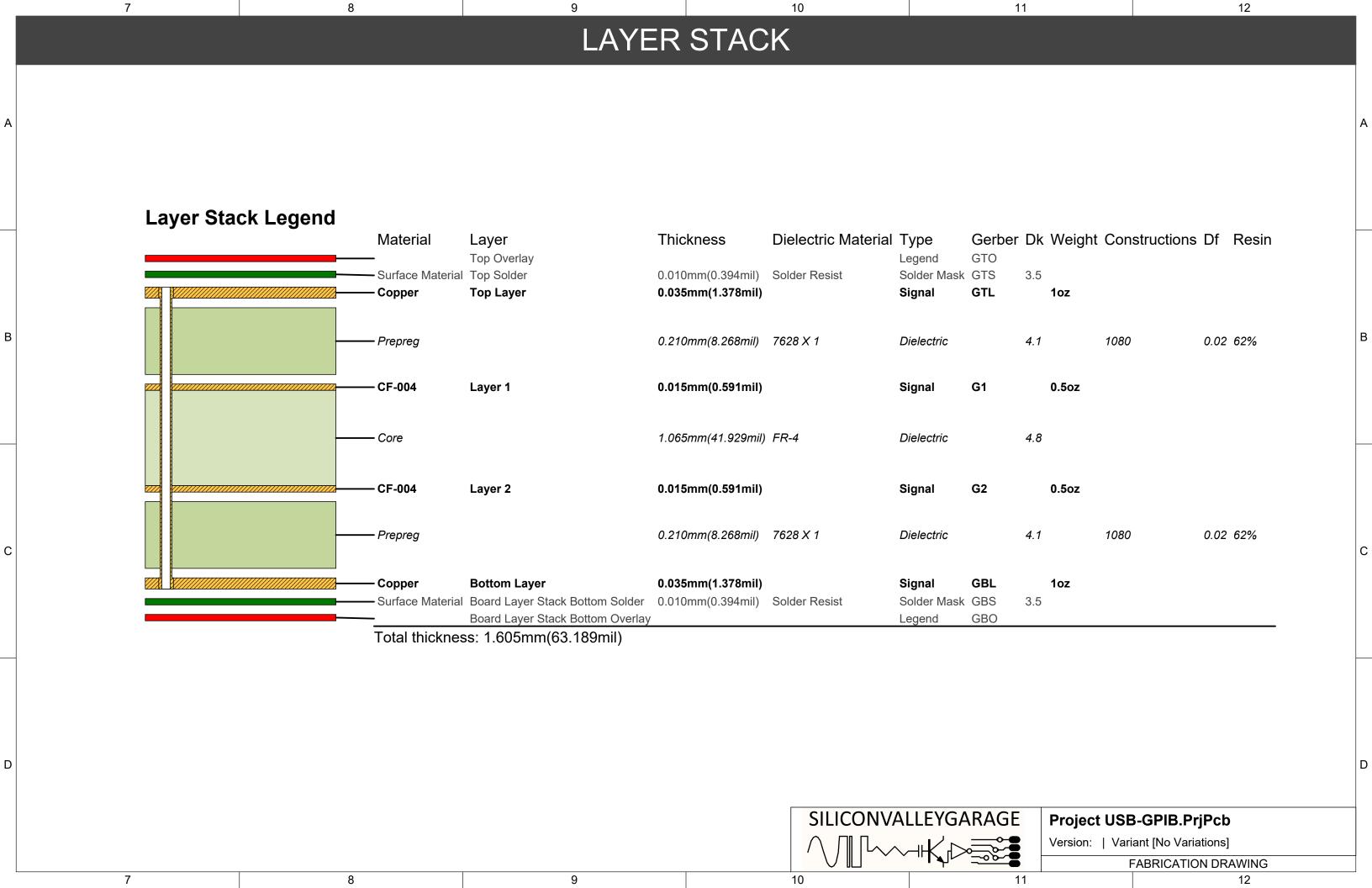
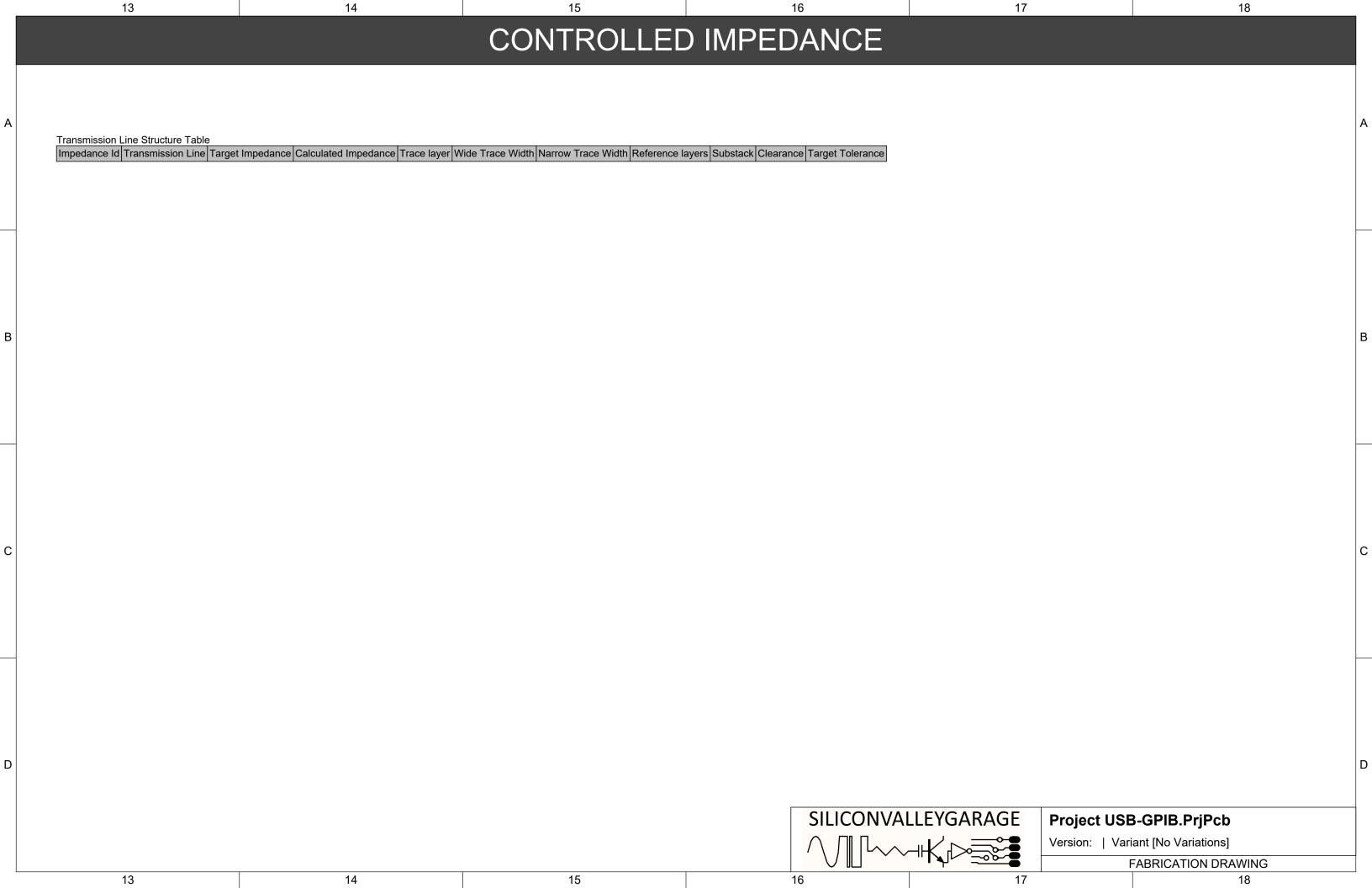
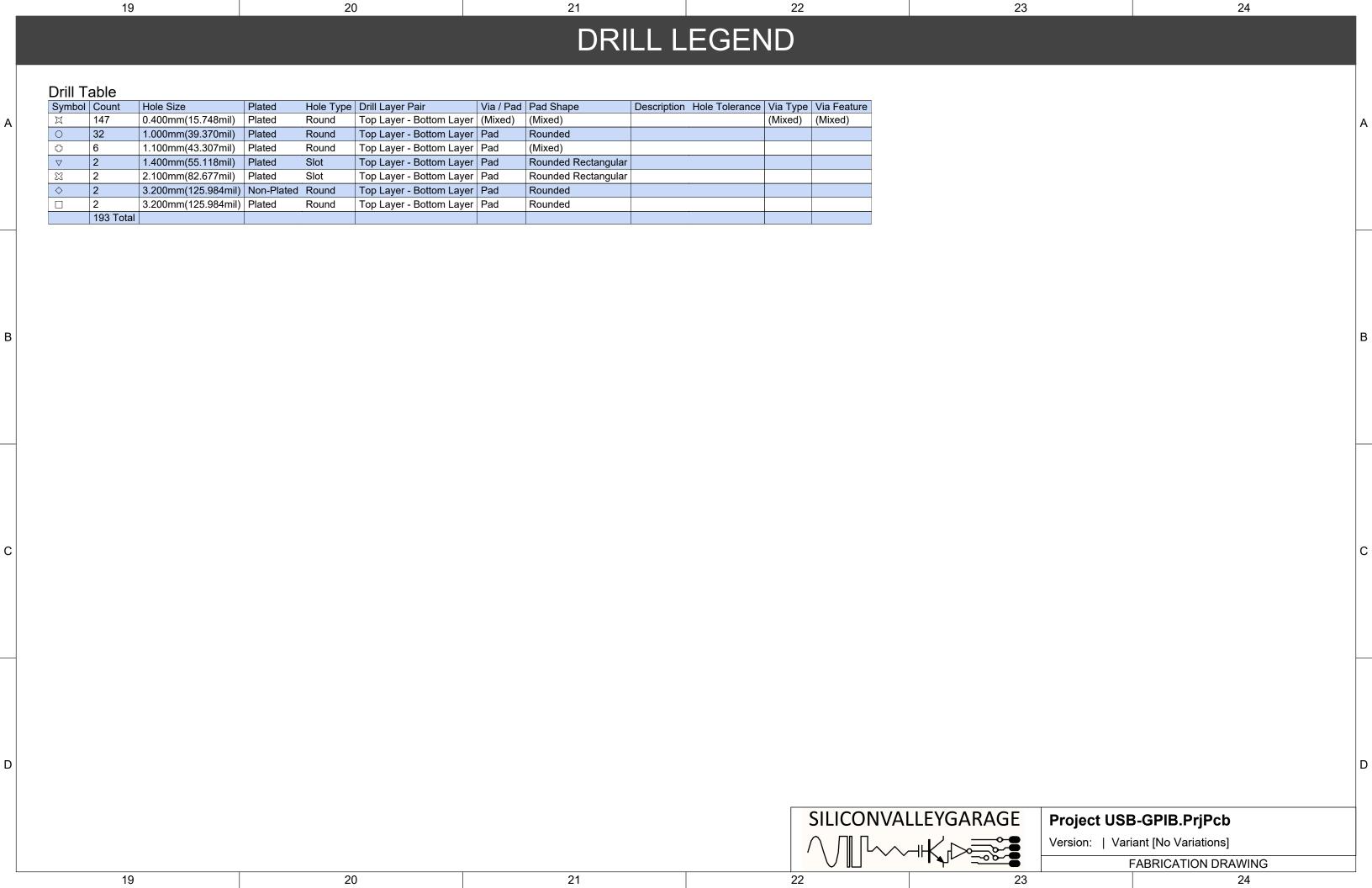
2 USB-GPIB.PrjPcb UG488 USB GPIB Adapter Document Creation Date: 9/25/2025 Design: Vincent Himpe SILICONVALLEYGARAGE

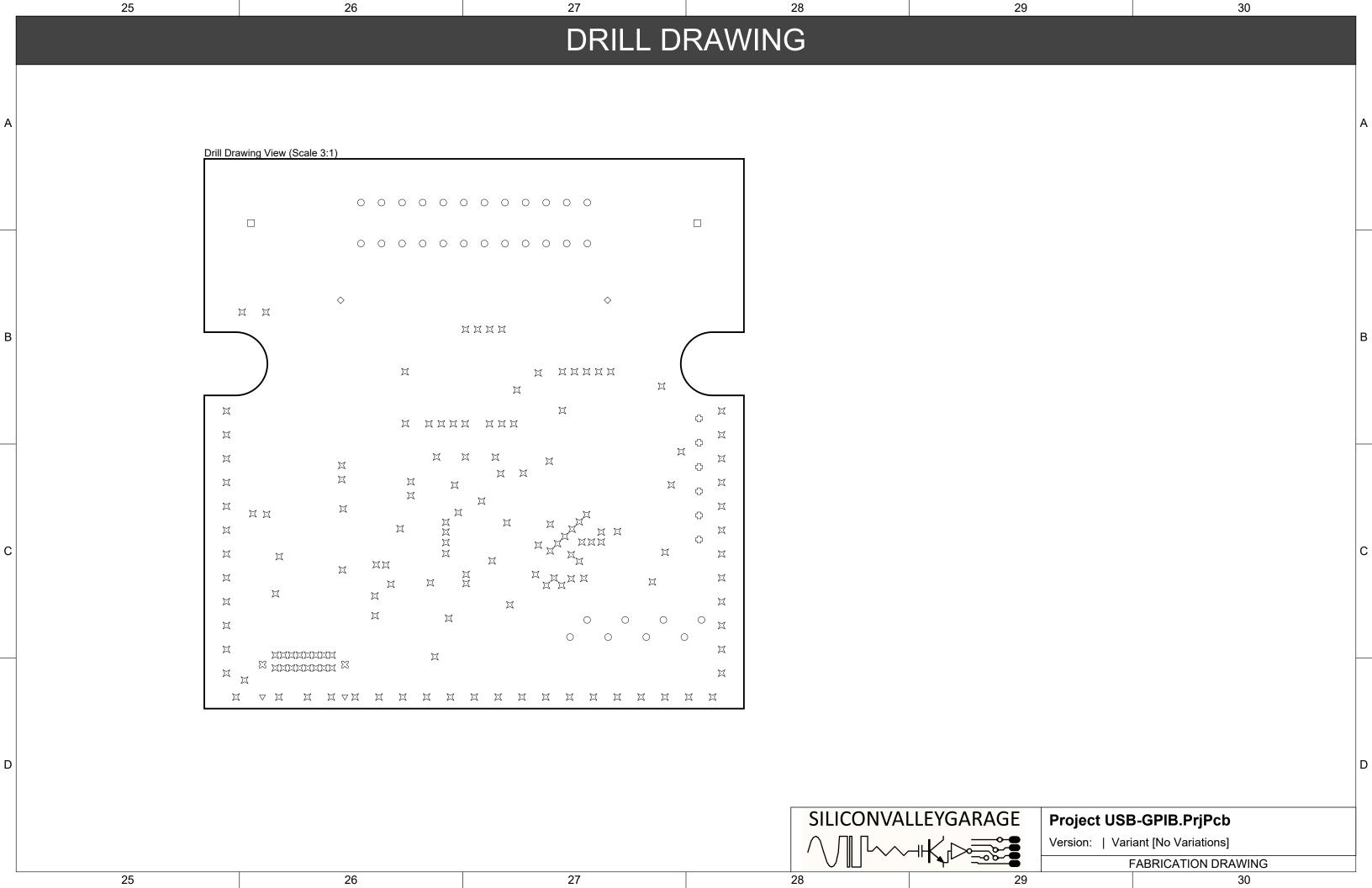


2 3 5 **GENERAL GENERAL** 1. DO NOT ALTER SUPPLIED COPPER OR DRILL DATA 2. NO COPPER BALANCING OR REMOVAL OF UNUSED PADS ALLOWED. 3. SILKSCREEN MAY BE CLIPPED / TRIMMED TO EXPOSE COPPER 4. PCB DESIGN AND ACCEPTANCE CRITERIA SHALL FOLLOW THE REQUIREMENTS OF IPC-2221, IPC-2222, AND IPC-6012 CLASS 2 5. ALL SPECIFICATIONS SHALL BE THE LATEST STANDARDS, UNLESS OTHERWISE NOTED 6. ALL MODIFICATIONS MUST BE COMMUNICATED AND APPROVED IN WRITING. **MATERIALS** 7. MATERIALS SHALL BE ACCORDING TO THE STACKUP DRAWING IN THIS DOCUMENT. 8. MATERIAL SHALL HAVE A FLAMABILITY RATING OF UL 94V-0 OR BETTER 9. SURFACE FINISH: HASL 10. SOLDER MASK COLOR: BLACK 11. SOLDERMASK MAX REGISTRATION ERROR: 0.05mm 12. SILKSCREEN COLOR: WHITE STACKUP / IMPEDANCE CONTROL 13. THICKNESS LISTED IN LAYER STACK LEGEND REPRESENT FINAL PRESSED VALUES FOR THE PREPREG 14. IMPEDANCE CONTROL, IF ANY, SHALL BE PER LISTED TABLE WITH A MAX TOLERANCE OF +/-10% **QA, ELECTRICAL TEST AND MARKINGS** 15. PCB SHALL BE 100% ELECTRICALLY TESTED FOR SHORTS AND CONTINUITY SILICONVALLEYGARAGE Project USB-GPIB.PrjPcb Version: | Variant [No Variations] **FABRICATION DRAWING**



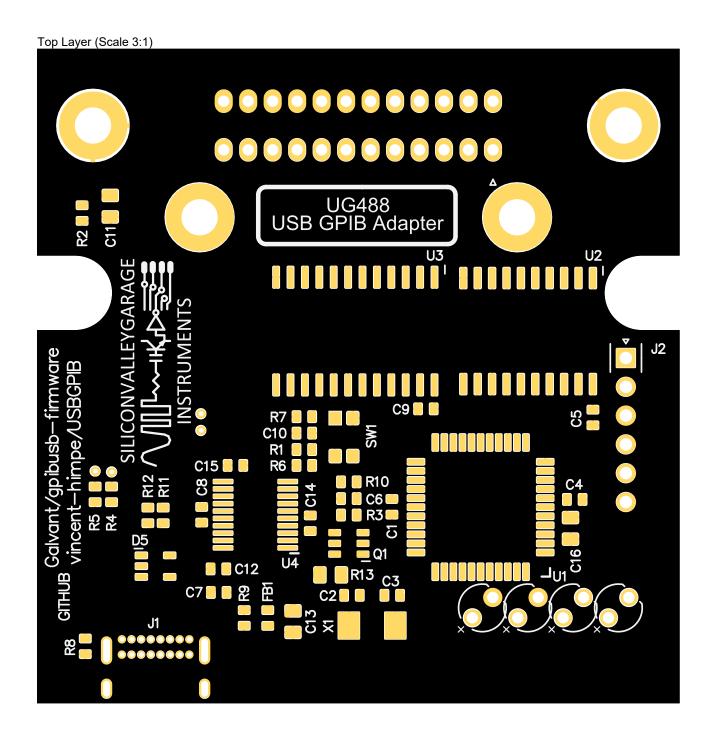






31 32 33 34 35 36

COMPOSITE VIEW FRONT

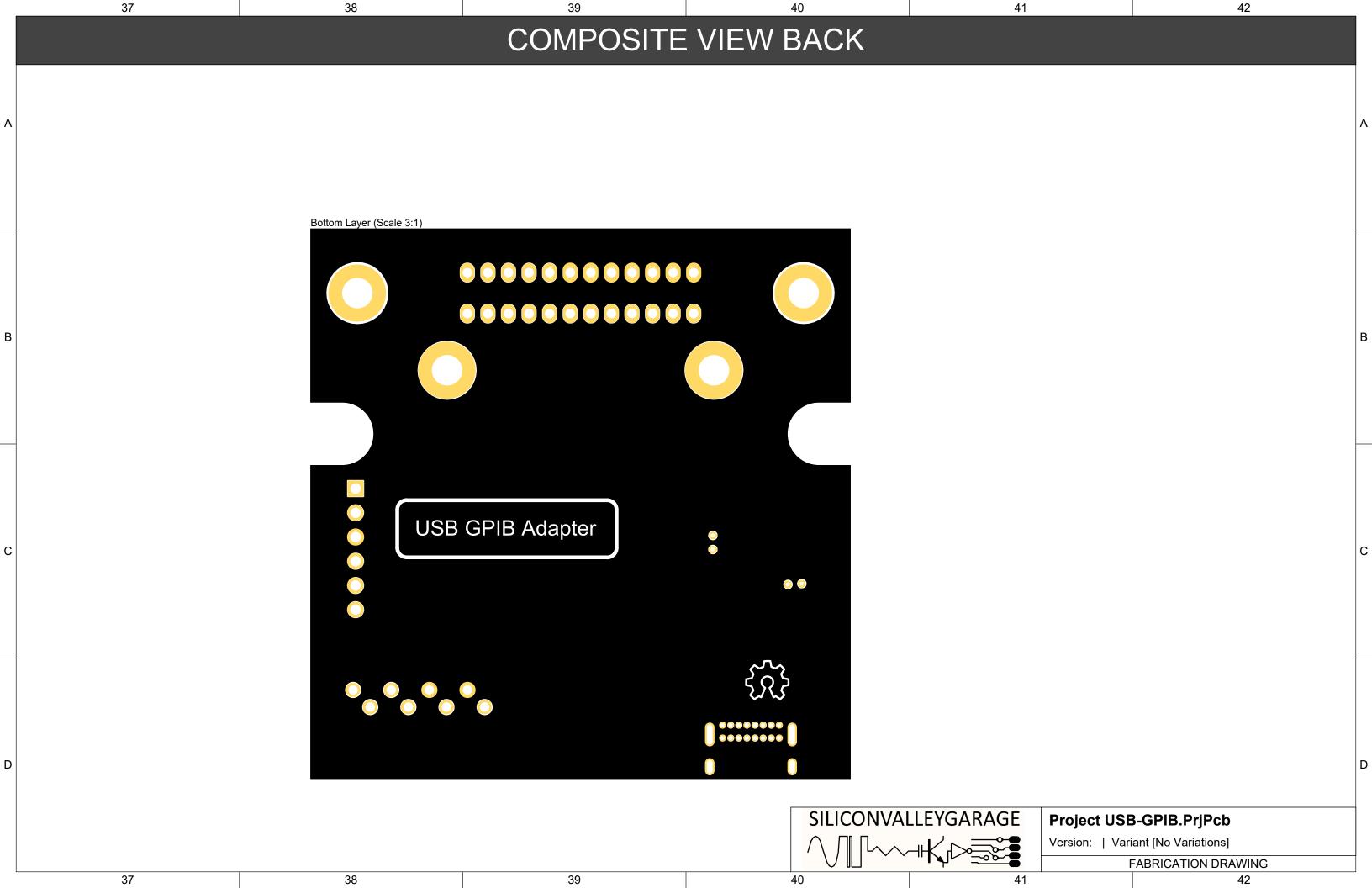


SILICONVALLEYGARAGE

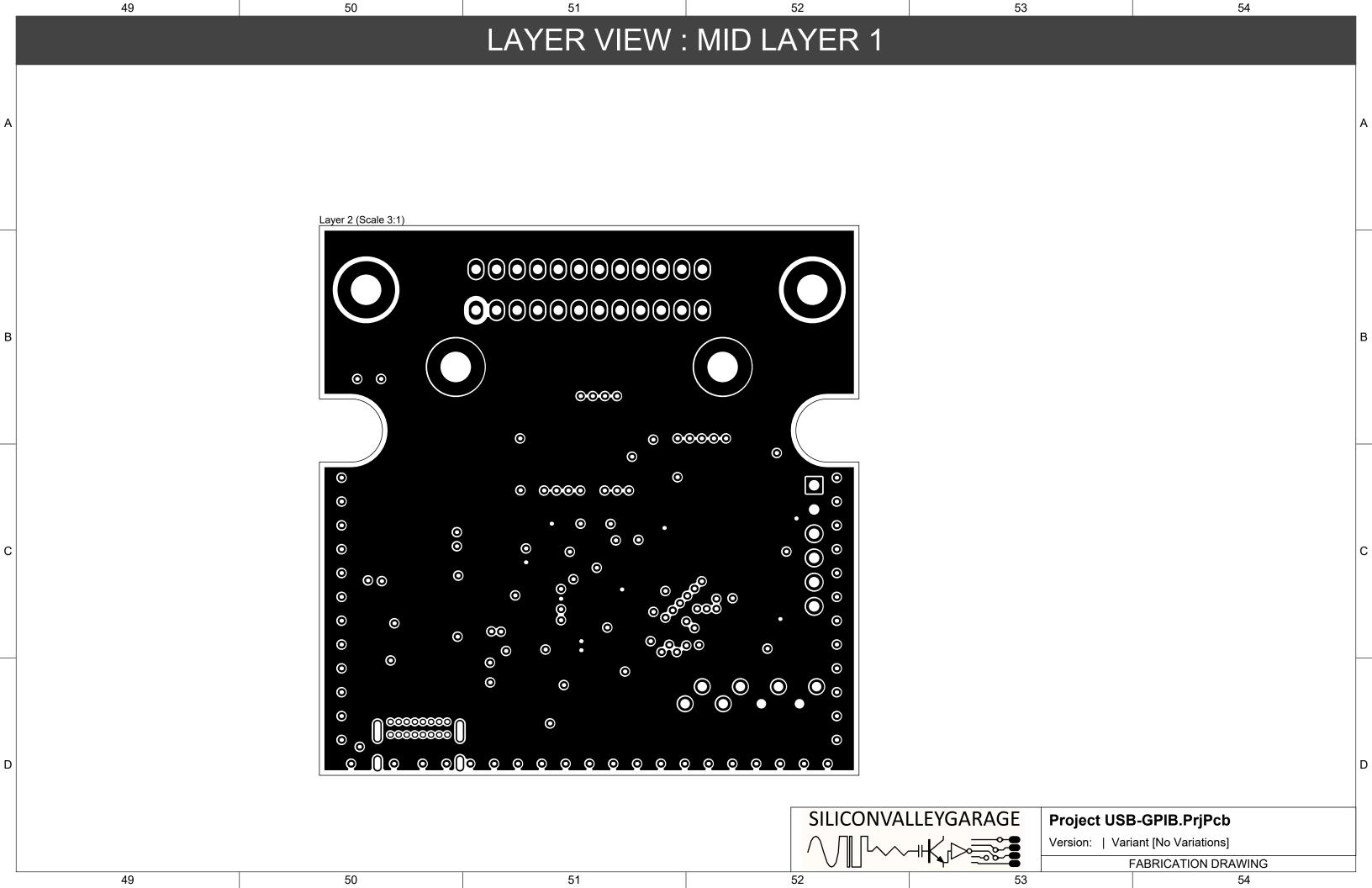
Version: | Variant [No Variations]

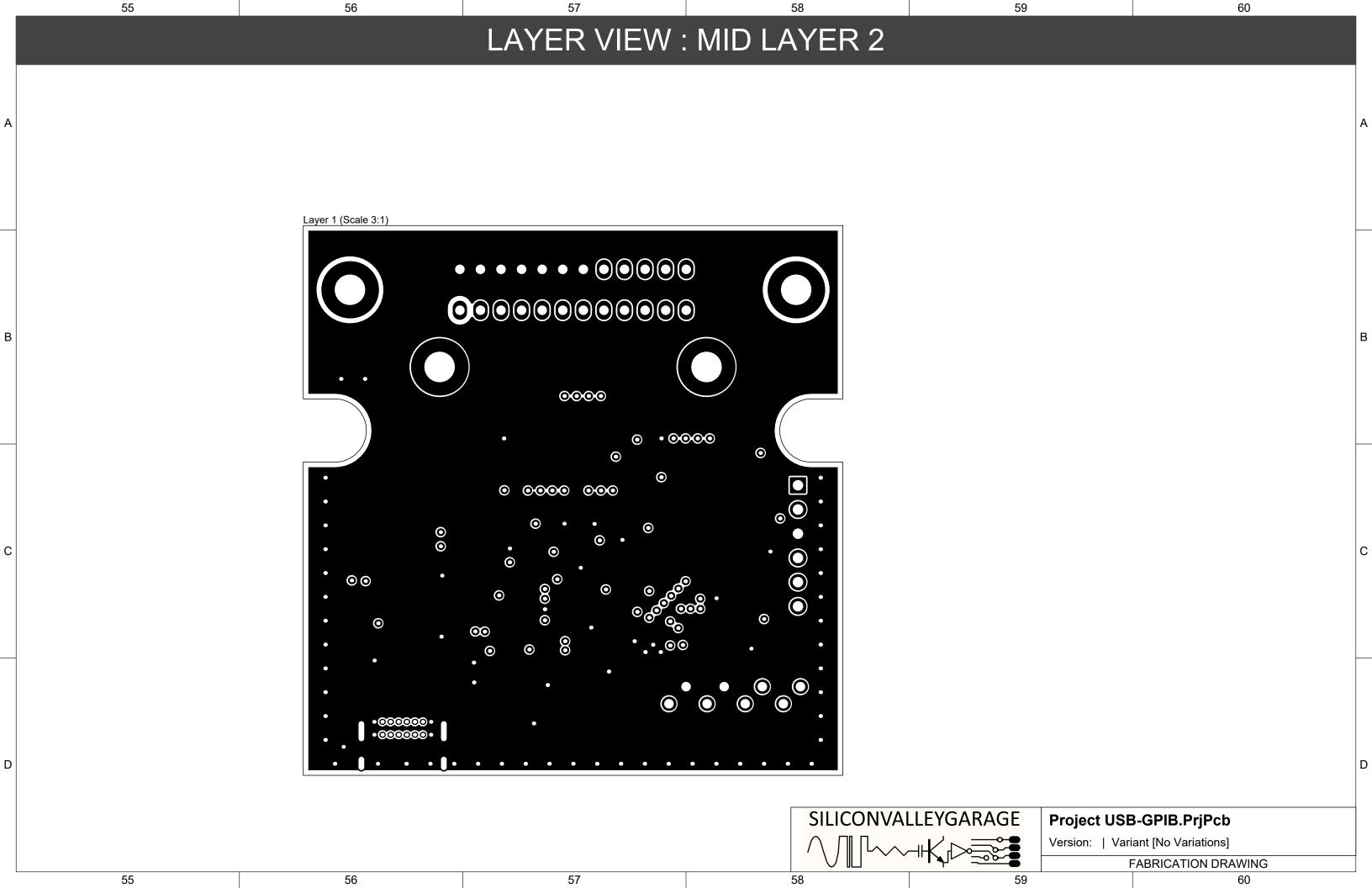
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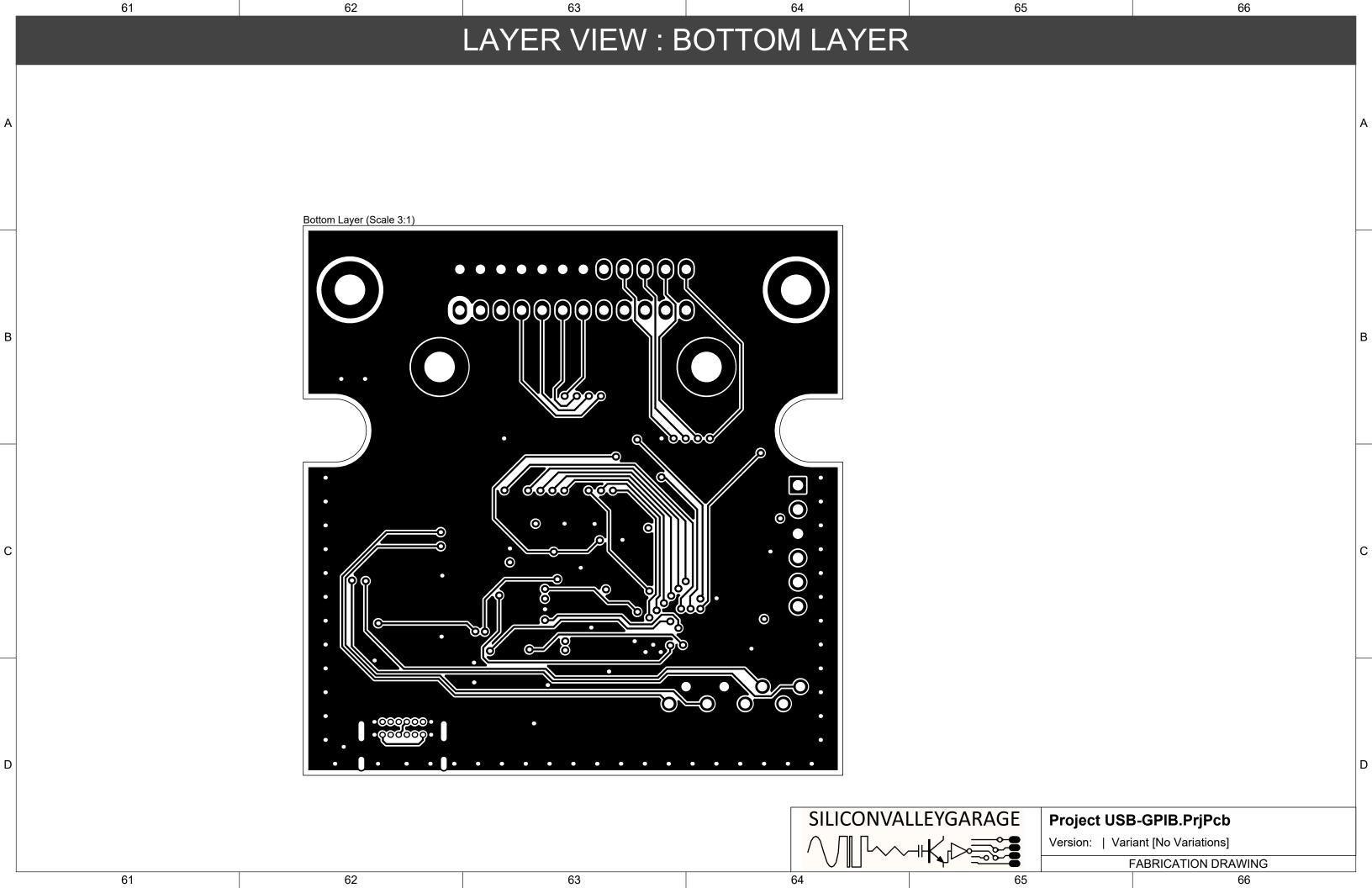
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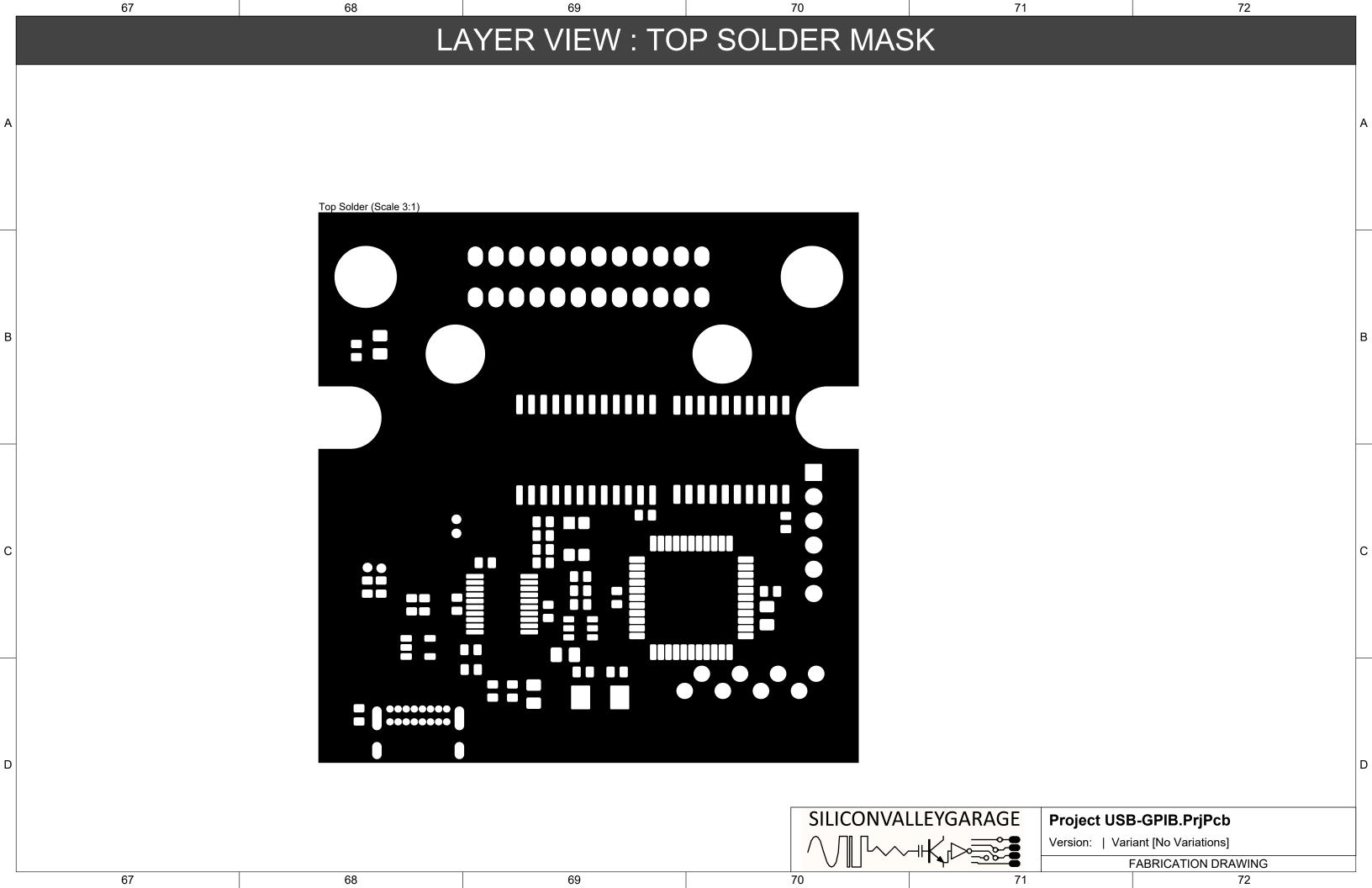


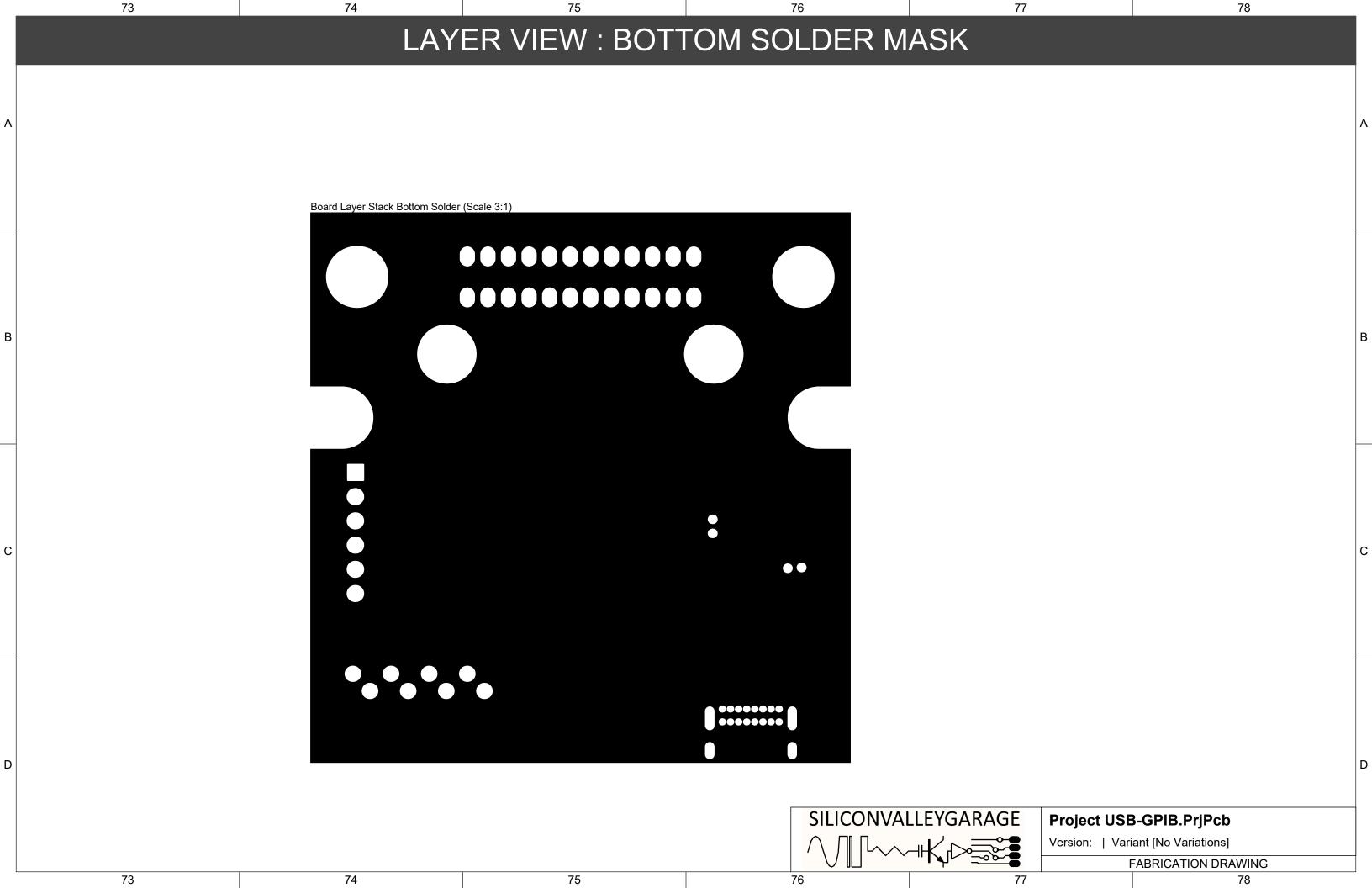
LAYER VIEW: TOP LAYER Top Layer (Scale 3:1) SILICONVALLEYGARAGE Project USB-GPIB.PrjPcb Version: | Variant [No Variations] **FABRICATION DRAWING**

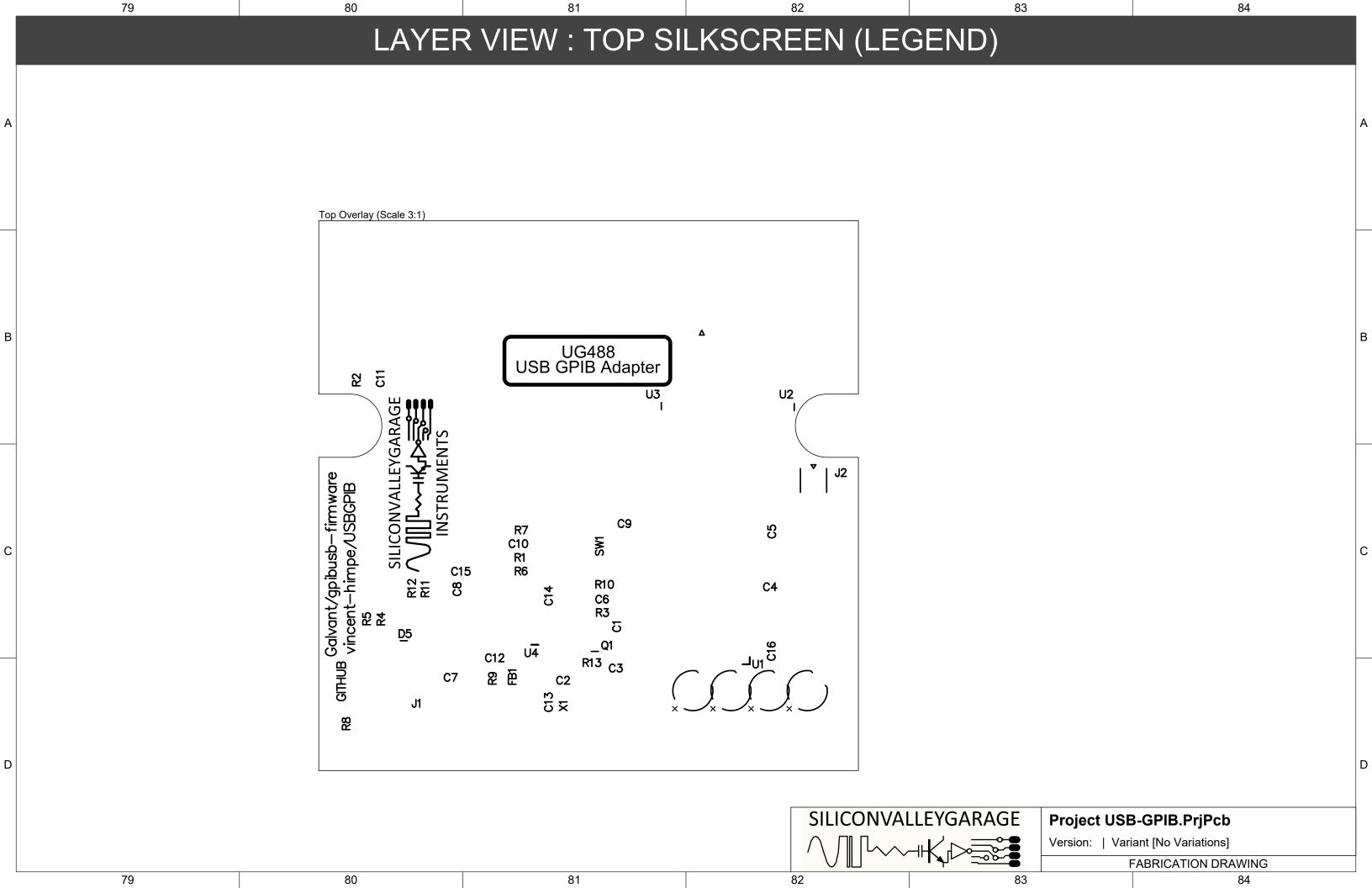


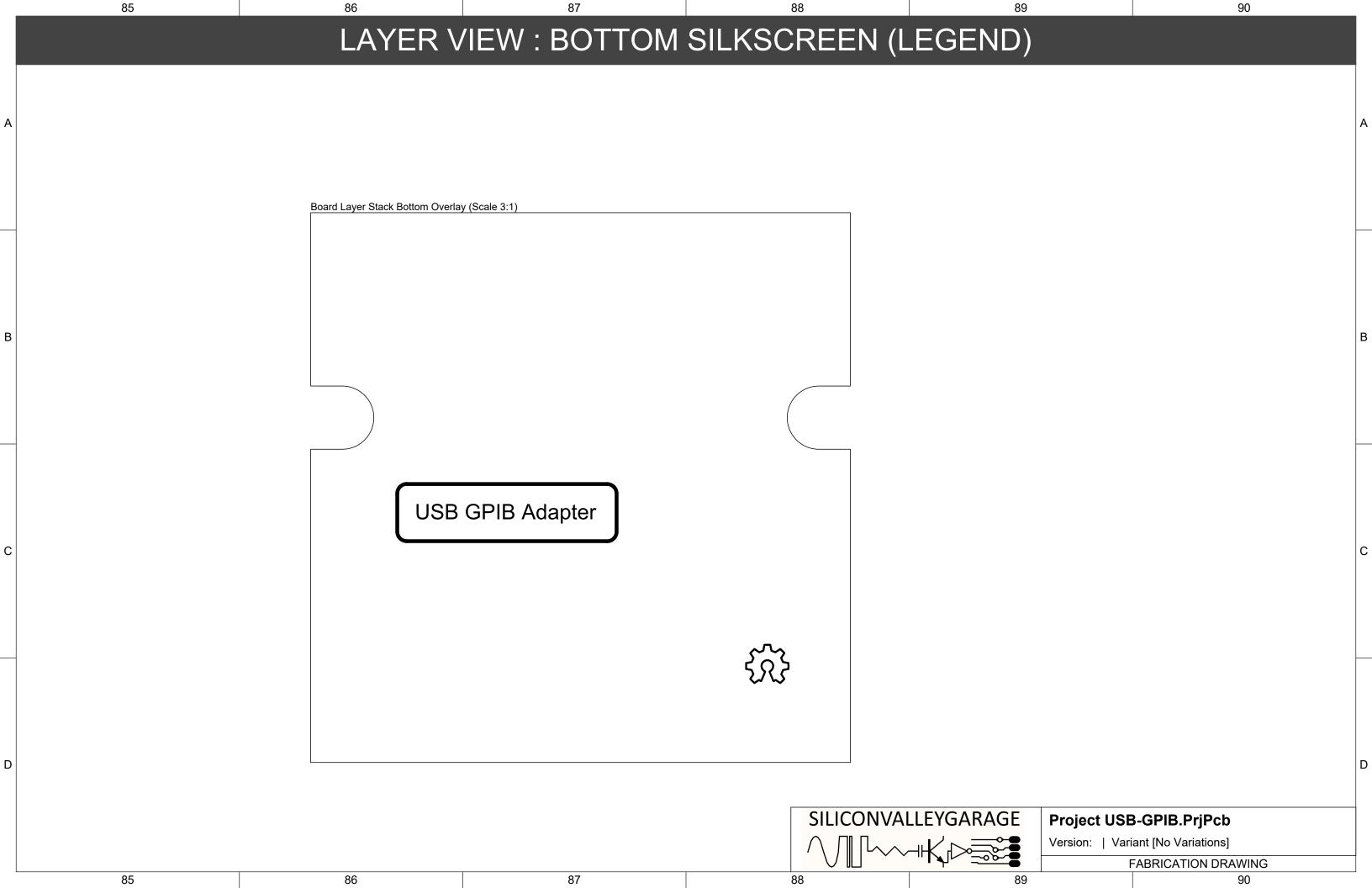


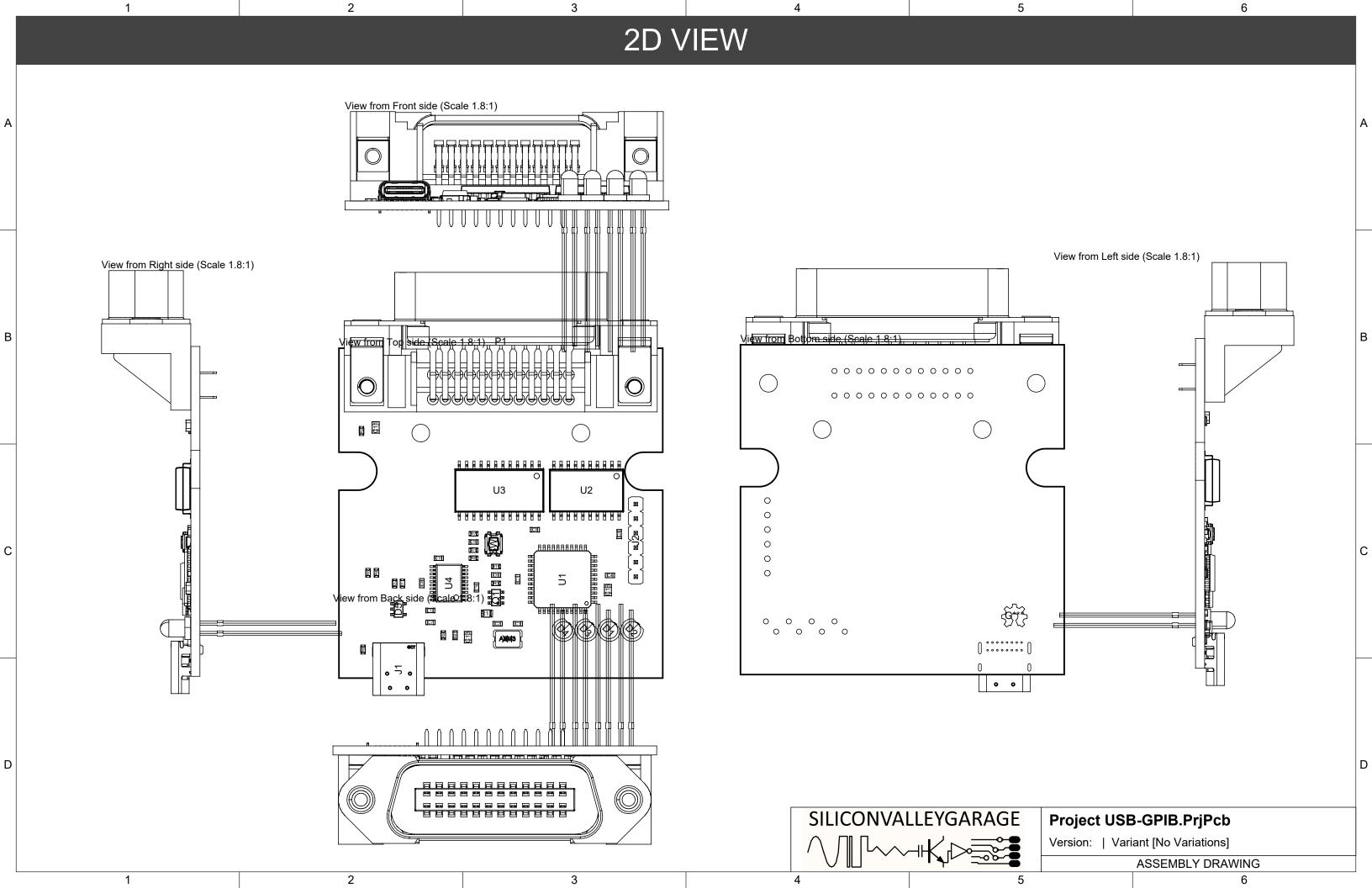


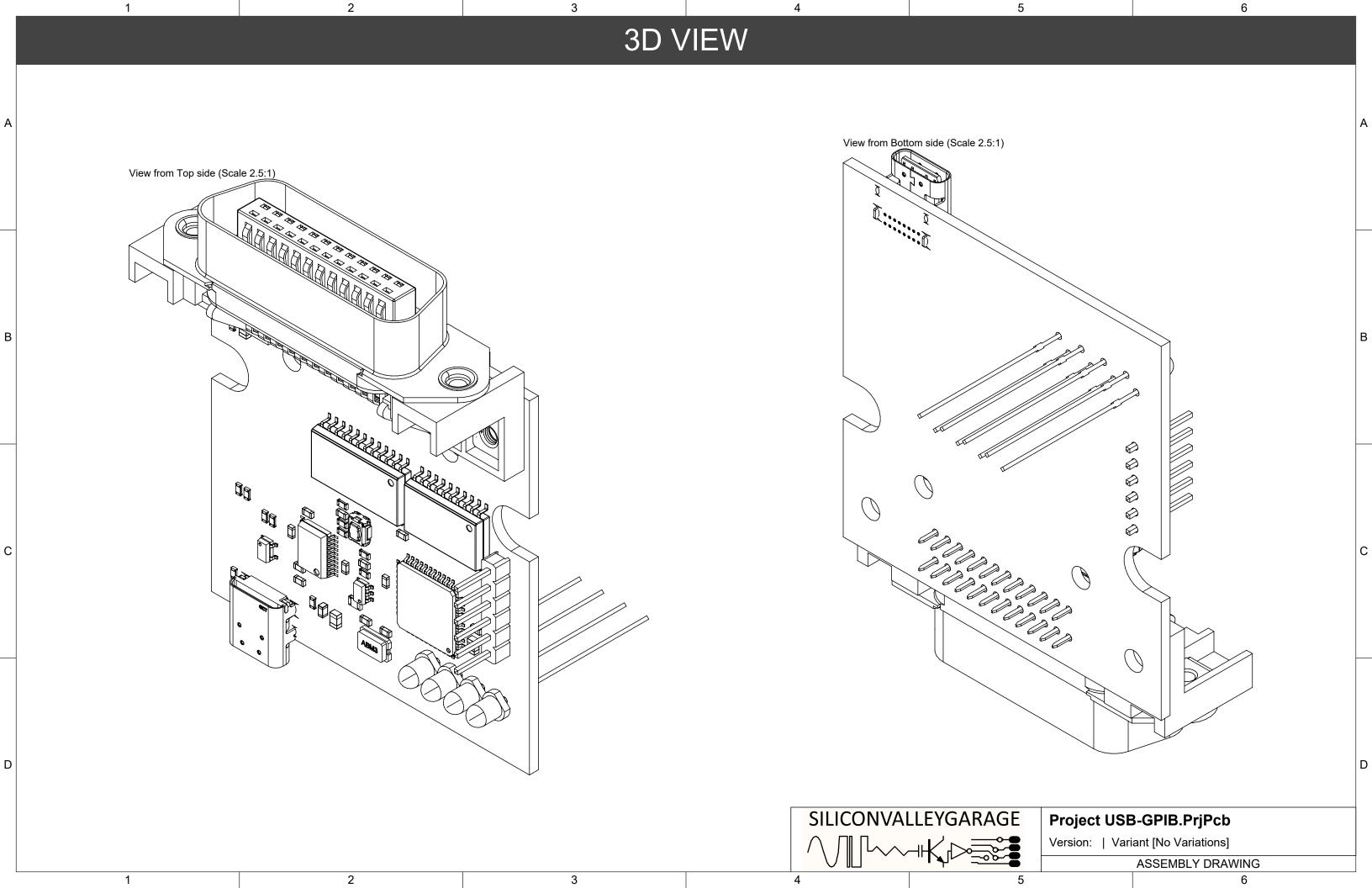












Bill Of Materials

Quantity	Designator	Description	LCSC	MOUSER
11	C1, C4, C5, C6, C7, C8, C9, C10, C12, C14, C15	CAPACITOR,CERAMIC,100nF,50V,X7R,0603	C127833	80-C0603C104K5R
2	C2, C3	CAPACITOR,CERAMIC,18pF,50V,C0G,0603	C2169518	80-C0603C180K5G
1	C11	CAPACITOR,CERAMIC,10nF,200V,X7R,0805,ESD	C36911368	80-C0805C103K2RECAUT
2	C13, C16	CAPACITOR,CERAMIC,10uF,25V,X5R,0805	C3039694	187-CL21B106KAYQNNE
4	D1, D2, D3, D4	LED,TH,GREEN,42mCd,3MM		78-VLMPG33N1P2
1	D5	DIODE,TVS,DUAL,UNIDIRECTIONAL,USB	C22358704	710-824011
1	FB1	FERRITE,1KZ@100MHz,0R2DC,0603	C160982	81-BLM18KG102SN1D
1	J1	CONN,USB-C,16P,RA,TH,8.94X9.17	C7095263	640-USB4085-GF-A
1	J2			
1	MECH1	ENCLOSURE,ABS,GRAY,HAMMOND, 1593KBK		546-1593KBK
1	P1	CONN,GPIB,24P,RIGHT ANGLE,TH		636-112-024-113R001
1	Q1	XSTR,PMOS,20V,5.97A,VISHAY,SI3443,SOT26	C727385	781-SI3443CDV-GE3
2	R1, R3	RESISTOR,10K,1%,100mW,0603 (1608)	C98220	603-RC0603FR-0710KL
1	R2	RESISTOR,4K7,1%,100mW,0603 (1608)	C99782	603-RC0603FR-074K7L
5	R4, R5, R6, R7, R10	RESISTOR,1K,1%,100mW,0603 (1608)	C22548	603-RC0603FR-071KL
2	R8, R9	RESISTOR,5K1,1%,100mW,0603 (1608)	C105580	603-RC0603FR-075K1
2	R11, R12	RESISTOR,27R,1%,100mW,0603 (1608)	C137753	603-RC0603FR-0727RL
1	R13	RESISTOR,0R,JUMPER	C96345	603-RC0805JR-070RL
1	SW1	SW,SMD,TACT,4PIN,2.9X3.5,4PIN	C483888	667-EVP-AA202K
1	U1	IC,CPU,MICROCHIP,PIC18F4520,TQFP44	C9734	579-PIC18F4520-I/PT
1	U2	IC,XCVR,GPIB,DATA.TI,SN75160DW,SO20W	C882412	595-SN75160BDW
1	U3	IC,XCVR,GPIB,CONTROL,TI,SN75162DW,SO24W	C2863933	595-SN75162BDWR
1	U4	IC,XCVR,USB UART,FTDI,FT231XS-R,TSSOP20	C132160	895-FT231XS-R
1	X1	XTAL,18.432MHz,ABRACON ABM3,SMD5032	C1985331	815-ABM3-18.43-D2Y-T

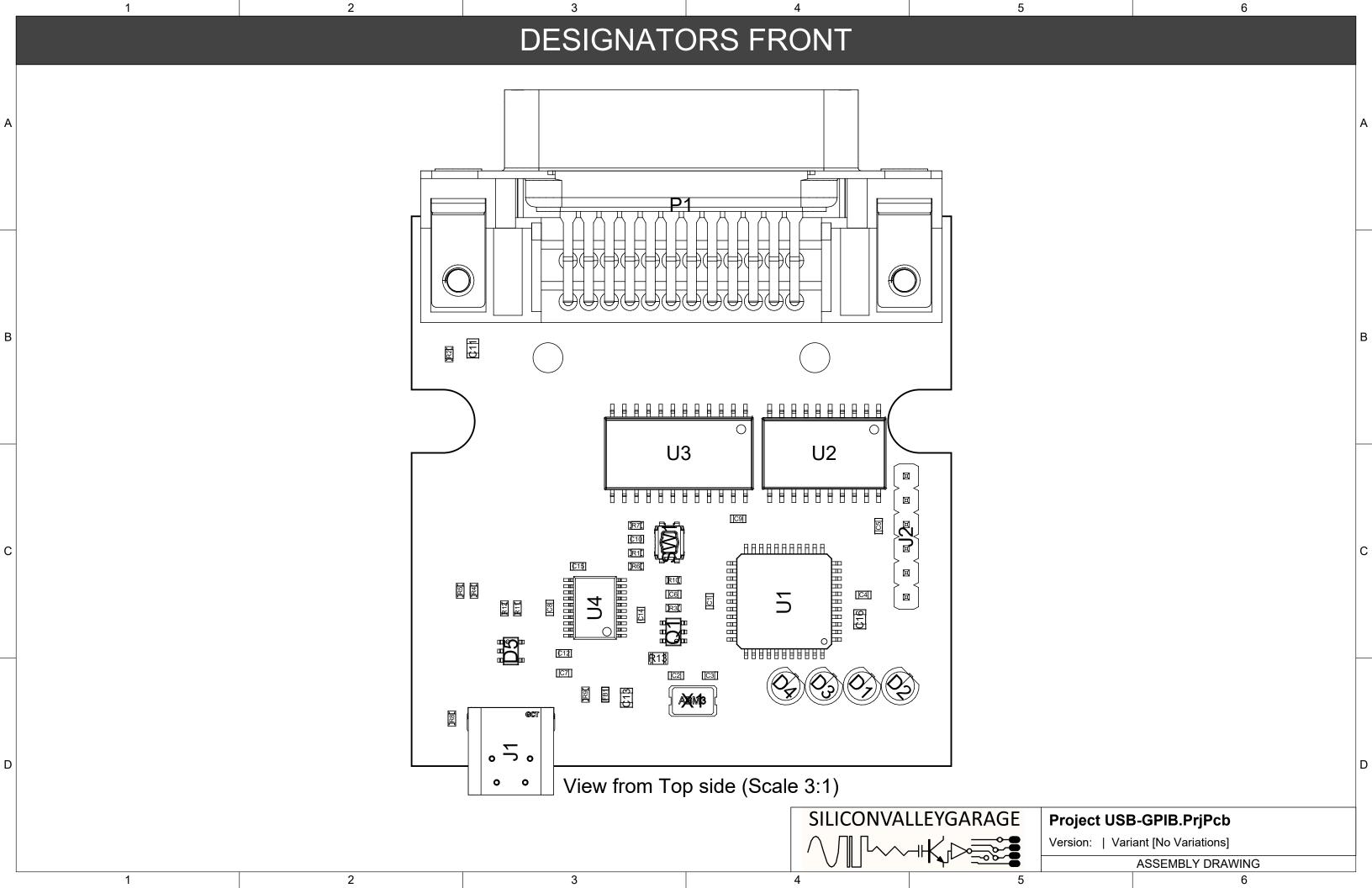
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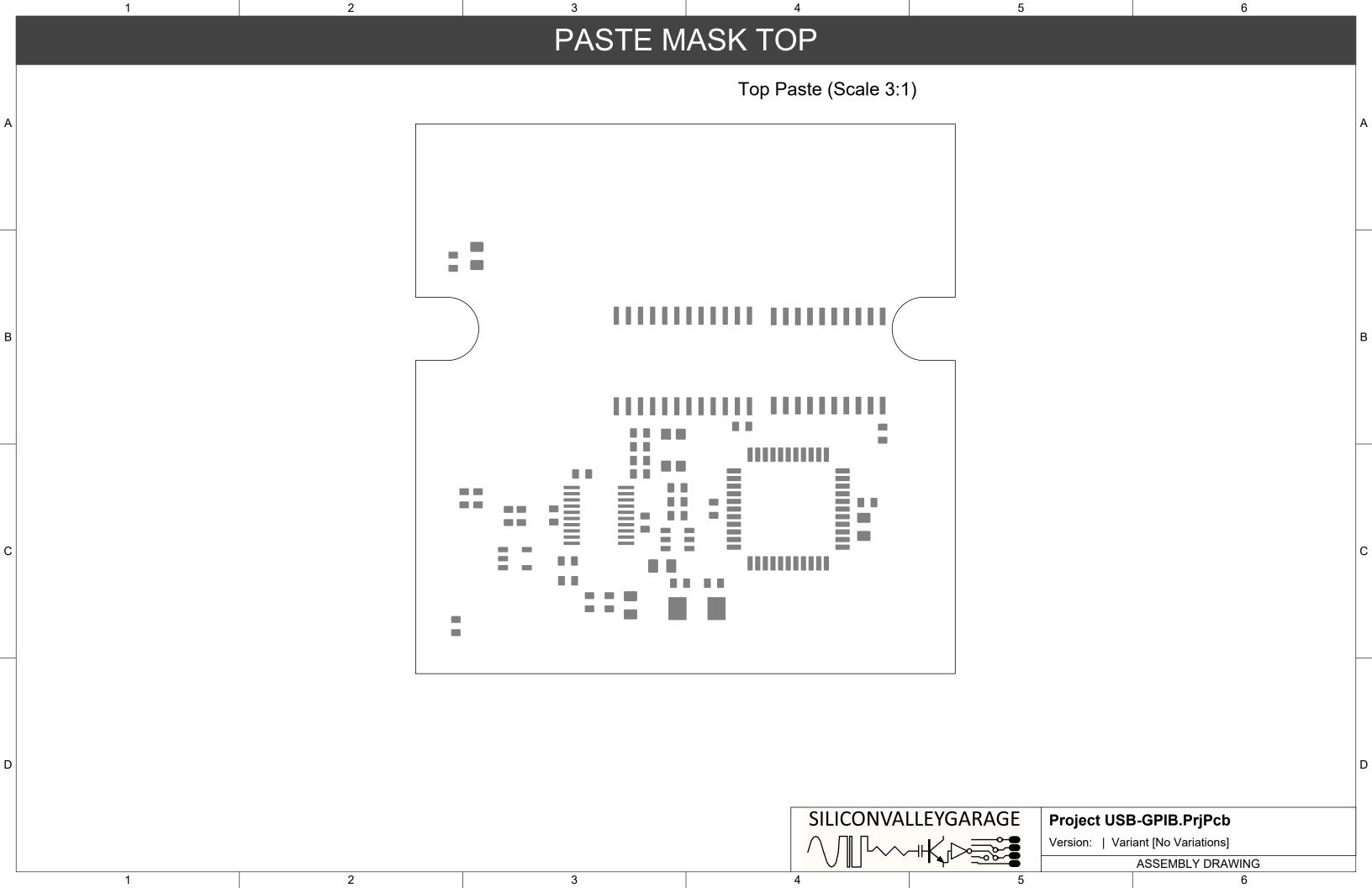
Project USB-GPIB.PrjPcb

Version: | Variant [No Variations]

ASSEMBLY DRAWING

1 2 3 4 5





2 3 5 **GENERAL GENERAL** 1. DO NOT ALTER SUPPLIED COPPER OR DRILL DATA 2. NO COPPER BALANCING OR REMOVAL OF UNUSED PADS ALLOWED. 3. SILKSCREEN MAY BE CLIPPED / TRIMMED TO EXPOSE COPPER 4. PCB DESIGN AND ACCEPTANCE CRITERIA SHALL FOLLOW THE REQUIREMENTS OF IPC-2221, IPC-2222, AND IPC-6012 CLASS 2 5. ALL SPECIFICATIONS SHALL BE THE LATEST STANDARDS, UNLESS OTHERWISE NOTED 6. ALL MODIFICATIONS MUST BE COMMUNICATED AND APPROVED IN WRITING. **MATERIALS** 7. MATERIALS SHALL BE ACCORDING TO THE STACKUP DRAWING IN THIS DOCUMENT. 8. MATERIAL SHALL HAVE A FLAMABILITY RATING OF UL 94V-0 OR BETTER 9. SURFACE FINISH: HASL 10. SOLDER MASK COLOR: BLACK 11. SOLDERMASK MAX REGISTRATION ERROR: 0.05mm 12. SILKSCREEN COLOR: WHITE STACKUP / IMPEDANCE CONTROL 13. THICKNESS LISTED IN LAYER STACK LEGEND REPRESENT FINAL PRESSED VALUES FOR THE PREPREG 14. IMPEDANCE CONTROL, IF ANY, SHALL BE PER LISTED TABLE WITH A MAX TOLERANCE OF +/-10% **QA, ELECTRICAL TEST AND MARKINGS** 15. PCB SHALL BE 100% ELECTRICALLY TESTED FOR SHORTS AND CONTINUITY SILICONVALLEYGARAGE Project USB-GPIB.PrjPcb Version: | Variant [No Variations] **FABRICATION DRAWING**

