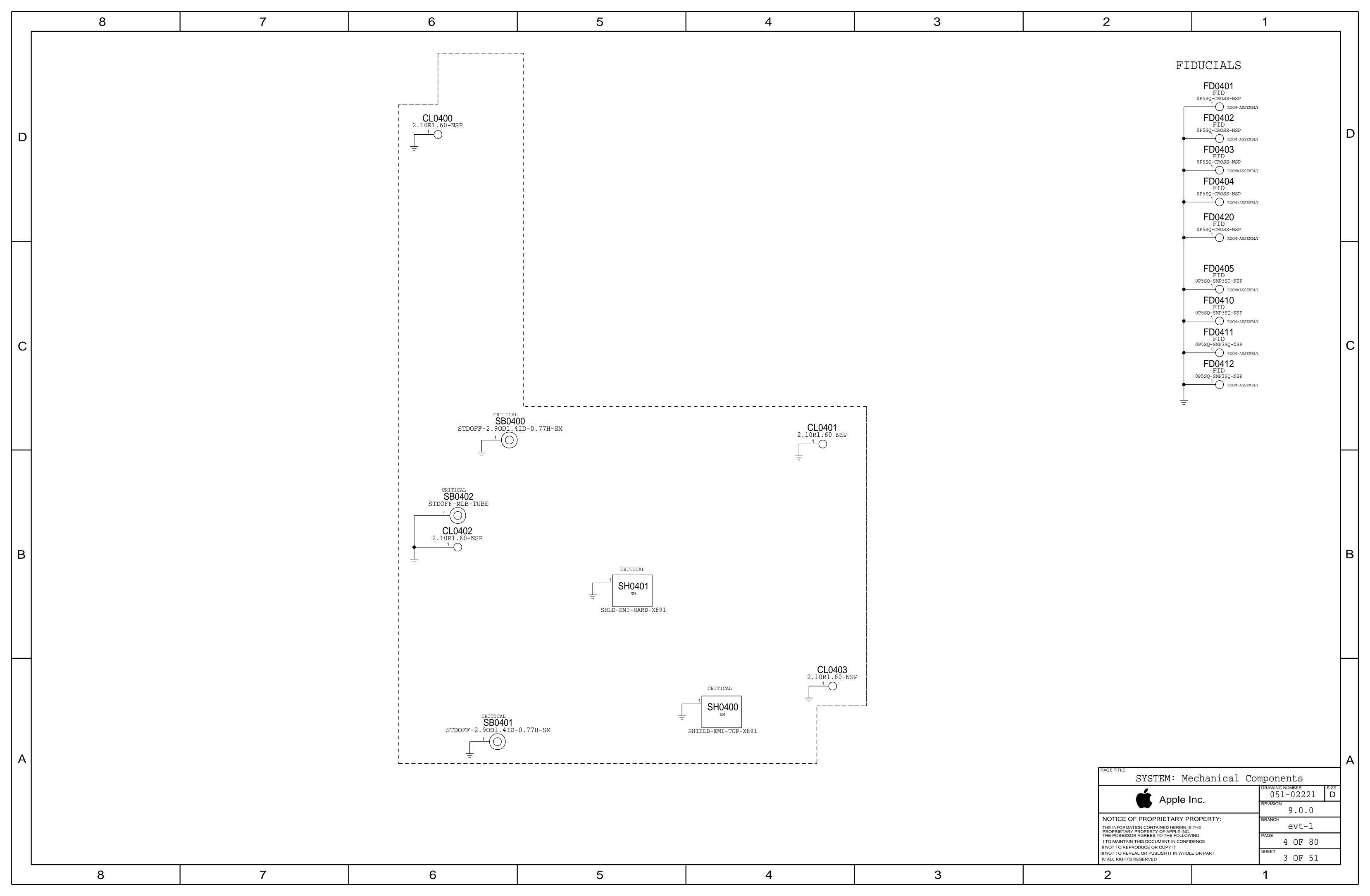
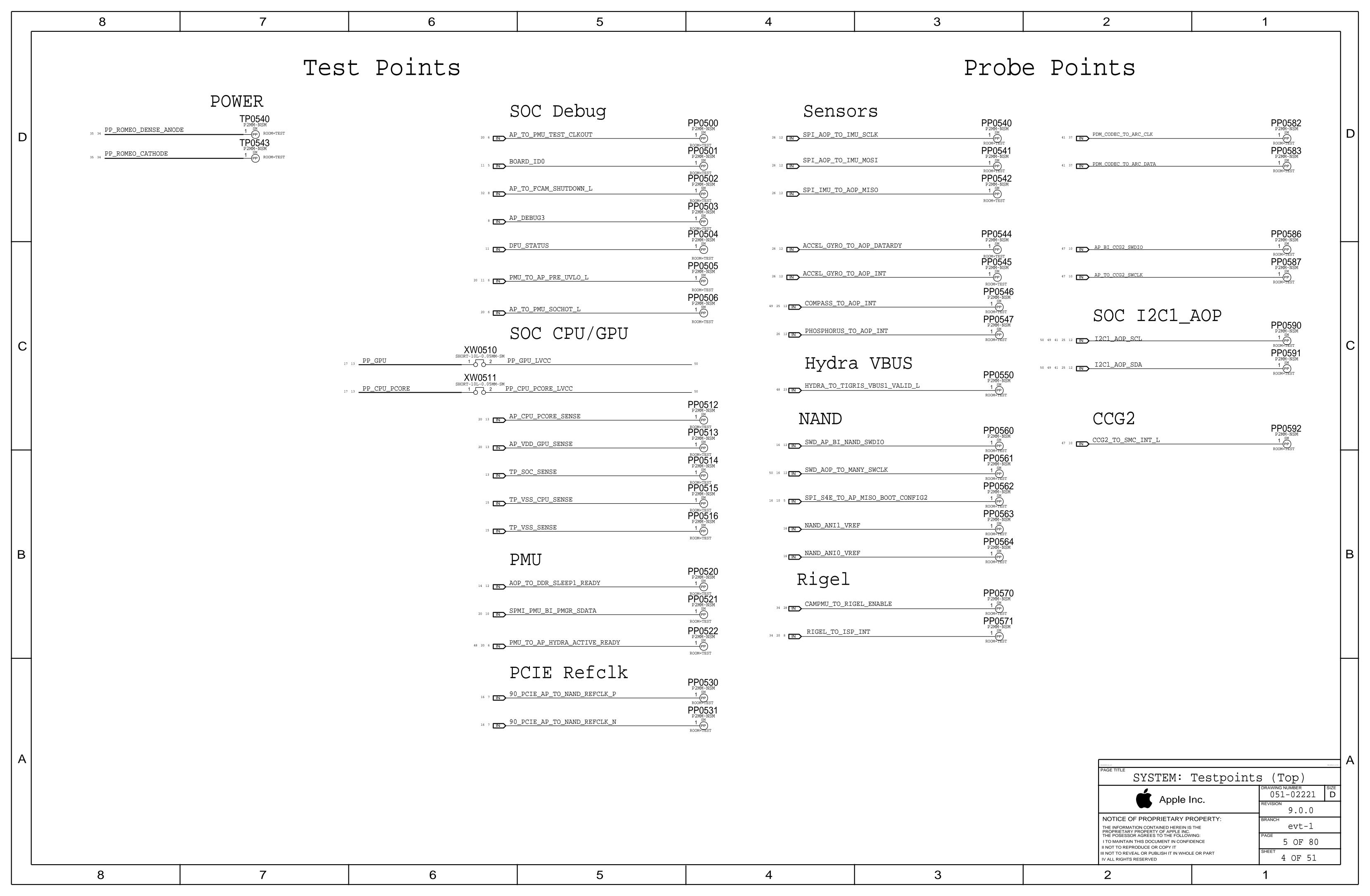
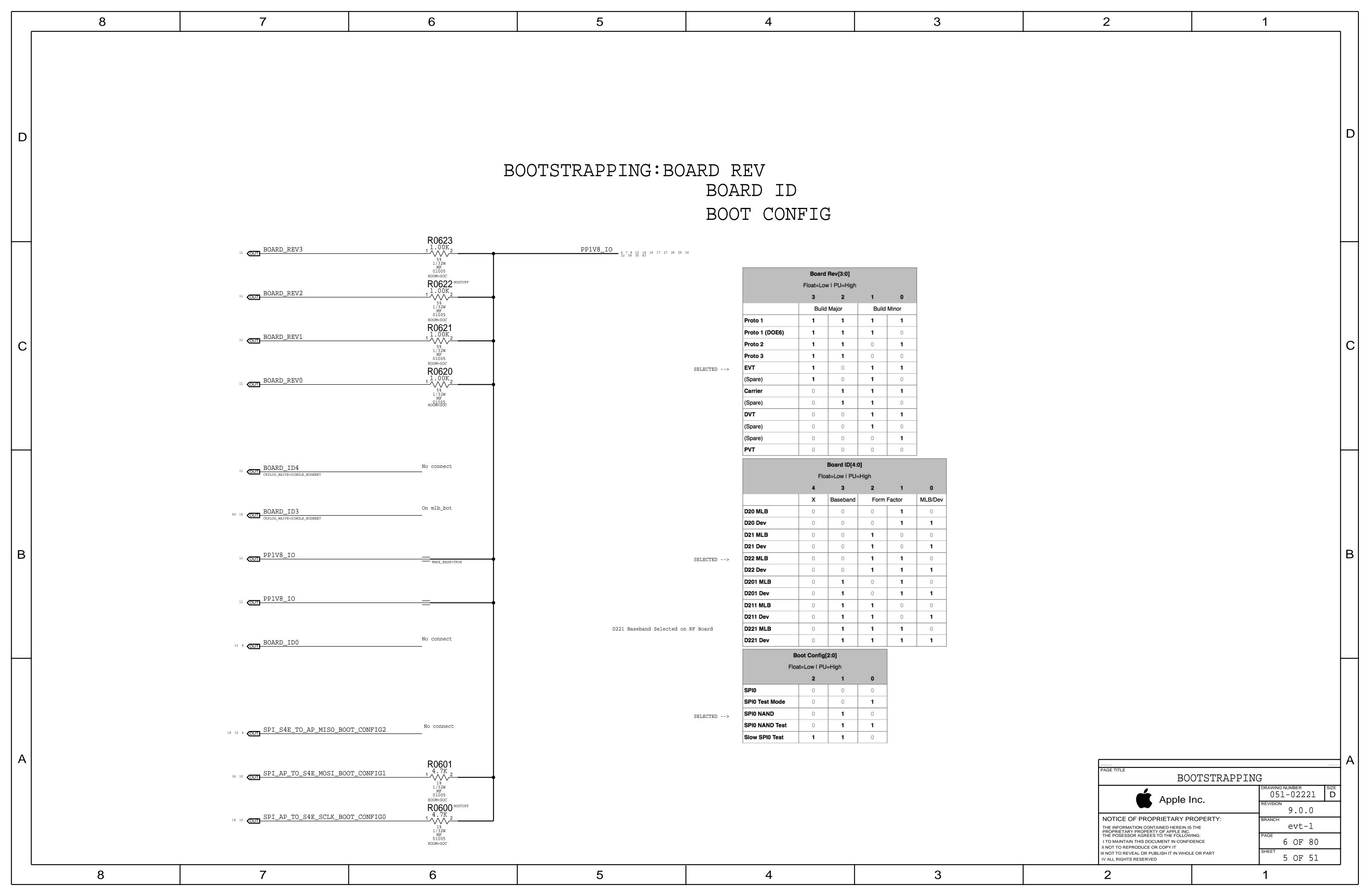
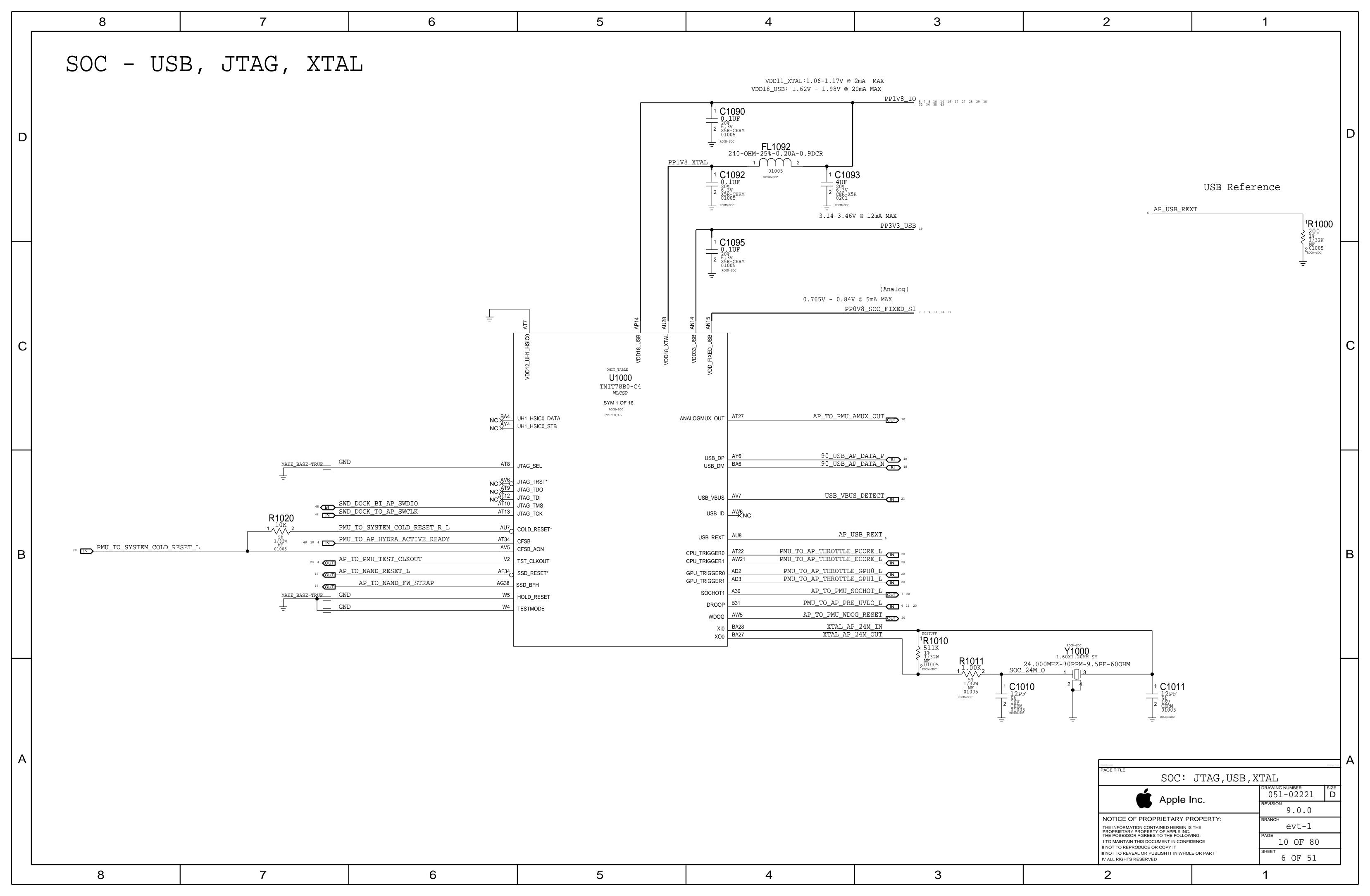
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|-------------------------------------|--|---|---------------------------------------|----------------------|-----------------------|--------------|-------------------------------|----------|---|---------------------------------------|---|-------------------------|--------------------|------|
| | 1. ALL RESISTANCE VALUES ARE IN OHMS, 0.1 | 1 WATT +/- 5%. | | | | | | | | R | EV ECN | DESCRIPTION OF REVISION | CK APPD | |
| | 2. ALL CAPACITANCE VALUES ARE IN MICROF. 3. ALL CRYSTALS & OSCILLATOR VALUES ARE | | | | | | | | | _ | | | DATE | - I |
| | | | | | | | | | | ı | 9 0008409760 | ENGINEERING RELEASED | 2017-04-05 | |
| | X891/X8 | 93 MLB To | n: FMT | | | | | | | | | | | |
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| ر | | PAGE CSA CONTENT | | SYNC | DATE | | CONTENTS |)ale | | | ATE | | | |
| | | 1 1 TABLE OF 2 SYSTEM:BO | | test_mlb | 10/13/2016 | | I/O: Accessory B I/O: USB PD | BUCK | | | 0/17/2016 0/13/2016 | | | |
| | | | Mechanical Components | | 10/12/0016 | | I/O: Hydra | | | | 0/13/2016 | | | |
| | | 4 5 SYSTEM: 1 5 6 BOOTSTRAP | Pestpoints (Top) PPING | test_mlb test_mlb | 10/13/2016 | | I/O: B2B Dock I/O: Interposer | (Bottom) | | | 0/13/2016 0/13/2016 | | | |
| | | | ,USB,XTAL | test_mlb | 10/17/2016 | 51 80 | RADIOS | | | 0 | 6/04/2015 | | | |
| | | 7 11 SOC: PCIE 8 12 SOC: MIPI | | test_mlb test_mlb | 10/17/2016 10/13/2016 | | | | | | | | | |
| | | 9 13 SOC: LPDP | | test_mlb | 10/13/2016 | | | | | | | | | |
| | | 10 14 SOC: Seri 11 15 SOC: GPIO | | test_mlb test_mlb | 10/17/2016 | | | | | | | | | |
| | | 12 16 SOC: AOP | | test_mlb | 10/17/2016 | | | | | | | | | |
| | | 13 17 SOC: Powe 14 18 SOC: Powe | | test_mlb test_mlb | 10/17/2016 | | | | | | | | | |
| | | 15 19 SOC: Powe | | test_mlb | 10/17/2016 | | | | | | | | | |
| $ \begin{bmatrix} 1 \end{bmatrix} $ | | 16 26 NAND 17 27 SYSTEM PO | OWER: PMU Bucks (1/4) | test_mlb test_mlb | 10/13/2016 | | | | | | | | | |
| | | | WER: PMU Bucks (2/4) | test_mlb | 10/13/2016 | | | | | | | | | |
| | | | OWER: PMU LDOs (3/4) OWER: PMU (4/4) | test_mlb test_mlb | 10/13/2016 | | | | | | | | | |
| | | | WER: Boost | test_mlb | 10/13/2016 | | | | | | | | | |
| | | | OWER: B2B Battery | test_mlb | 10/13/2016 | | | | | | | | | |
| | | - | WER: Charger WER: Iktara | test_mlb | 10/13/2016 | | | | | | | | | |
| | | | WER: B2B Cyclone + Button | test_mlb | 10/13/2016 | | | | | | | | | |
| | | 26 36 SENSORS 27 37 CAMERA: P | PMU (1/2) | test_mlb test_mlb | 10/13/2016 | | | | | | | | | |
| | | 28 38 CAMERA: P | PMU (2/2) | test_mlb | 10/13/2016 | | | | | | | | | |
| | | 29 39 CAMERA: B 30 40 CAMERA: B | 32B Wide (WY) 32B Tele (MT) | test_mlb test_mlb | 10/13/2016 | | | | | | | | | |
| | | 31 41 CAMERA: S | Strobe Drivers | test_mlb | 10/13/2016 | | | | | | | | | |
| | | 32 42 CAMERA: B 33 43 CAMERA: B | 32B FCAM 32B Strobe + Hold Button | test_mlb test_mlb | 10/13/2016 | | | | | | | | | |
| $\mathbf{a} \mid$ | | 34 44 PEARL: Po | | test_mlb | 10/13/2016 | | | | | | | | | В |
| ر | | | B Romeo + Juliet B Rosaline + Misc | test_mlb | 10/13/2016 | | | | | | | | | |
| | | 36 46 PEARL: B2 37 47 AUDIO: CO | | test_mlb test_mlb | 10/13/2016 | | | | | | | | | |
| | | 38 48 AUDIO: CO | | test_mlb | 10/13/2016 | | | | | | | | | |
| | | | peaker Amp Bottom Deaker Amp Top | | 08/25/2015 08/25/2015 | | | | | | | | | |
| | | 41 51 ARC: Driv | | test_mlb | 10/13/2016 | | | | | | | | | |
| | | 42 56 CG: Power 43 57 CG: B2B D | Supplies - Touch & Display Display | test_mlb test_mlb | 10/13/2016 | | | | | | | | | |
| | | | orb & Touch | | 08/25/2015 | | | | | | | | | |
| | | 45 59 I/O: Over | voltage Cut-Off Circuit | sync | 01/10/2017 | | | | | | | | | |
| | | | | | | | | | | | | | | |
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| <u>م</u> | BOM:639-04583 (Ultimate) | | | | | | | | | TABLE OF CONTENTS | | $ _{A} $ | | |
| | BOM:639-03409 (Extreme) MCO:056-04077 | | | | | | | | | | RAWING TITLE | CH,MLB,TOP,X891 | | |
| | | | | | | | | | | | | DRAWING | SIZE NUMBER SIZE D | |
| | | | Sale (, Mai | | | | | | | | | ppie inc. | | |
| | PART# QTY DESCRIPTION 051-02221 1 SCH,MLB_TOP,X891 | REFERENCE DESIGNATOR(S) CRITICAL BOM OPTIO SCH NO COMMON | DN market | | | | | | | | NOTICE OF PROPRIE THE INFORMATION CONTAINE PROPRIETARY PROPERTY OF THE POSESSOR AGREES TO | | evt-1 | |
| | 820-00863 1 PCB,MLB_TOP,X891 | PCB NO COMMON | Mat.(, 700 | | | | | | | 1 | TO MAINTAIN THIS DOCUME NOT TO REPRODUCE OR CO | NT IN CONFIDENCE PY IT | 1 OF 80 |] |
| | Г | | | T | | | | | T | • • • • • • • • • • • • • • • • • • • | NOT TO REVEAL OR PUBLISH / ALL RIGHTS RESERVED | HIT IN WHOLE OR PART | 1 OF 51 |] |
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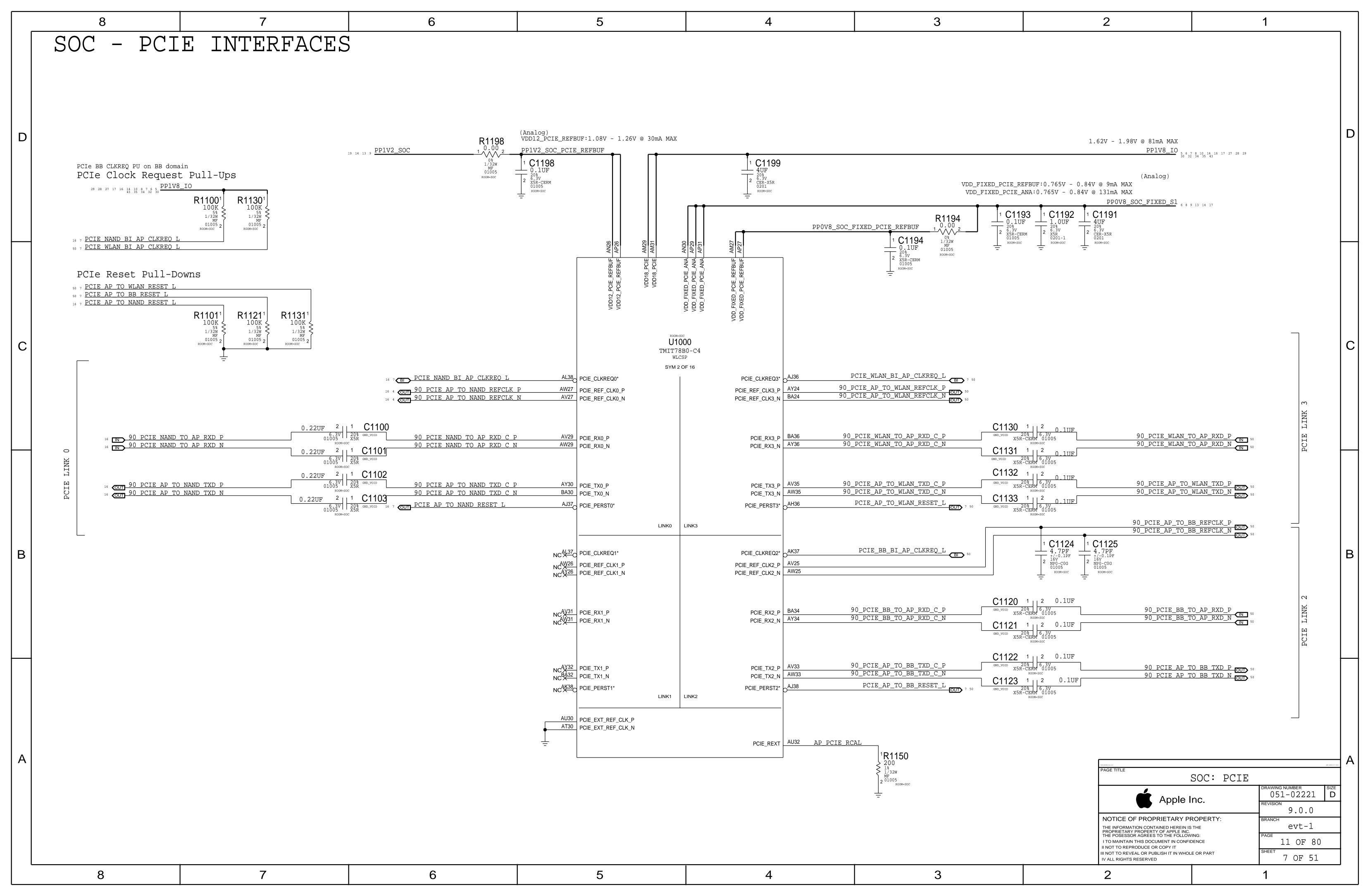
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|---|--|--|--|--|--|--|
| EEEE Codes PART# QTY DESCRIPTION REFERENCE DESIGNATOR(S) CRITICAL BOM OPTION 825-7691 1 EEEE FOR (MLB_TOP,639-04583,ULTIMATE) EEEE_J2WJ NO ULTIMATE 825-7691 1 EEEE FOR (MLB_TOP,639-03409,EXTREME) EEEE_HP26 NO EXTREME | Global Ferr PART NUMBER ALTERNATE FOR PART NUMBER BOM OPTION REF DE 155800194 15580610 BOM_TABLE_ALTS ALL 155800200 15580610 BOM_TABLE_ALTS ALL | ES COMMENTS: CRITICAL PART# COMMEN | NT D, 1500HM, 01005 | Agnes Input | REFERENCE DESIGNATOR(S) SUBBOM_CAP CRITICAL | BOM OPTION COMMON BOM OPTION |
| D SOC PART# QTY DESCRIPTION REFERENCE DESIGNATOR(S) CRITICAL BOM OPTION 339S00358 1 SKYE+3GB, BO, M, DEV U1000 CRITICAL COMMON | Global R/C I | teat, at color | Nimes | 138S00159 4 CAP, SOFT-TERM, 2.2UF, 6.3V, 0201, KYOCERA 138S0831 4 CAP, TYPICAL, 2.2UF, 6.3V, 0201, MURATA Agnes Output PART# QTY DESCRIPTION 138S00159 9 CAP, SOFT-TERM, 2.2UF, 6.3V, 0201, KYOCERA | C2970,C2971,C2980,C2981 CRITICAL REFERENCE DESIGNATOR(S) CRITICAL | SOFT_CAP TYPICAL_CAP BOM OPTION SOFT_CAP |
| PART NUMBER ALTERNATE FOR PART NUMBER BOM OPTION REF DES COMMENTS: 339S00359 339S00358 BOM_TABLE_ALTS U1000 DDR-H, 3G, B0 339S00360 339S00358 BOM_TABLE_ALTS U1000 DDR-S-20, 3G, B0 339S00361 339S00358 BOM_TABLE_ALTS U1000 DDR-S-18, 3G, B0 | PART NUMBER ALTERNATE FOR PART NUMBER BOM OPTION REF DEPART NUMBER 118S0764 118S0717 BOM_TABLE_ALTS ALL 138S0648 138S0652 BOM_TABLE_ALTS ALL 138S0739 138S0706 BOM_TABLE_ALTS ALL 132S0436 132S0400 BOM_TABLE_ALTS ALL 138S00049 138S0831 BOM_TABLE_ALTS ALL | CRITICAL PART# COMMEN RES, 3.92K, 0.1%, 0201 118S0717 RES, 3. CAP, X5R, 4.7UF, 6.3V, 0.65NM, 0402, TAIYO CAP, CER, X5R, 0.22UF, 20%, 6.3V, 20% CAP, CER, X5R, 0.22UF, 20%, 6.3V, 01005 CAP, CER, X5R, 0.22UF, 20%, 6.3V, 01005 CAP, CER, X5R, 0.22UF, 20%, 6.3V, 01005 | NT .92K, 0.1%, 0201 .92K, 0.000 .9 | 138S0831 9 CAP, TYPICAL, 2.2UF, 6.3V, 0201, MURATA Sensors PART# QTY DESCRIPTION 138S00159 2 CAP, SOFT-TERM, 2.2UF, 6.3V, 0201, KYOCERA 138S0831 2 CAP, TYPICAL, 2.2UF, 6.3V, 0201, MURATA | REFERENCE DESIGNATOR(S) CRITICAL C3602,C3622 CRITICAL | TYPICAL_CAP BOM OPTION SOFT_CAP TYPICAL_CAP |
| NAND Ultimate PART# QTY DESCRIPTION REFERENCE DESIGNATOR(S) CRITICAL BOM OPTION 335500287 1 HYNIX, 3DV3, ULTIMATE U2600 CRITICAL ULTIMATE | Global Indu PART NUMBER ALTERNATE FOR PART NUMBER BOM OPTION REF DE 152S00710 152S00617 BOM_TABLE_ALTS ALL | CTOTS ES COMMENTS: CRITICAL PART# COMMENT | Total (Allinon, Allin | RCAM B2Bs PART# QTY DESCRIPTION 138S00159 3 CAP, SOFT-TERM, 2.2UF, 6.3V, 0201, KYOCERA 138S0831 3 CAP, TYPICAL, 2.2UF, 6.3V, 0201, MURATA Strobe B2B | C3909,C3925,C4025 CRITICAL C3909,C3925,C4025 CRITICAL | BOM OPTION SOFT_CAP TYPICAL_CAP |
| PART NUMBER ALTERNATE FOR PART NUMBER BOM OPTION REF DES COMMENTS: 335S00284 335S00287 BOM_TABLE_ALTS U2600 TOSHIBA, 1Z, ULTIMATE 335S00285 335S00287 BOM_TABLE_ALTS U2600 TOSHIBA, BICS3, ULTIMATE 335S00286 335S00287 BOM_TABLE_ALTS U2600 SANDISK, BICS3, ULTIMATE 335S00288 335S00287 BOM_TABLE_ALTS U2600 SANDISK, BICS3, ULTIMATE | 152800712 152800620 BOM_TABLE_ALTS ALL 152800713 152800621 BOM_TABLE_ALTS ALL 152800714 152800622 BOM_TABLE_ALTS ALL 152800716 152800626 BOM_TABLE_ALTS ALL 152800717 152800631 BOM_TABLE_ALTS ALL 152800718 152800632 BOM_TABLE_ALTS ALL 152800720 152800640 BOM_TABLE_ALTS ALL | IND, MLD, 1.0UH, 20%, 3.5A, 53MO, H=.65, 2012 IND, MLD, 1.0UH, 20%, 2.1A, 100MO, H=.65, 2012 IND, MLD, 1.5UH, 20%, 1.1A, 160MO, H=.65, 2012 IND, MLD, 1.5UH, 20%, 1.1A, 160MO, H=.65, 2012 IND, MLD, 1.0UH, 20%, 2.5A, 78MO, H=0.8, 2012 IND, MLD, 1.0UH, 20%, 3.2A, 60MO, H=0.8, 2016 IND, MLD, 1.0UH, 20%, 3.2A, 60MO, H=0.8, 2016 IND, MLD, 1.0UH, 20%, 3.2A, 60MO, H=0.8, 2016 IND, MLD, 1.0UH, 20%, 3.2A, 60MO, H=0.8, 2016 | .1UH, 20%, 7.2A, 17MOHM, H=0.8, 2012 .47UH, 20%, 3.5A, 53MO, H=.65, 2012 .0UH, 20%, 2.1A, 100MO, H=.65, 2012 .5UH, 20%, 1.1A, 160MO, H=.65, 2012 .0UH, 20%, 2.5A, 78MO, H=0.8, 2012 .0UH, 20%, 3.2A, 60MO, H=0.8, 2016 | 138S00159 1 CAP, SOFT-TERM, 2.2UF, 6.3V, 0201, KYOCERA 138S0831 1 CAP, TYPICAL, 2.2UF, 6.3V, 0201, MURATA Audio | C4303 CRITICAL C4303 CRITICAL REFERENCE DESIGNATOR(S) CRITICAL C4809,C4805 CRITICAL | BOM OPTION SOFT_CAP TYPICAL_CAP BOM OPTION SOFT_CAP TYPICAL_CAP |
| PART# QTY DESCRIPTION REFERENCE DESIGNATOR(S) CRITICAL BOM OPTION 335S00240 1 HYNIX, 3DV3, EXTREME U2600 CRITICAL EXTREME PART NUMBER ALTERNATE FOR BOM OPTION REF DES COMMENTS: | 152S00721 152S00641 BOM_TABLE_ALTS ALL 152S00715 152S00623 BOM_TABLE_ALTS ALL 152S00653 152S00651 BOM_TABLE_ALTS ALL 152S00649 152S00650 BOM_TABLE_ALTS L3340,L33 | IND, MLD, 0.47UH, 4A, 48MO, H=0.8MM, 2012 IND, MLD, 1UH, 3.6A, 60MO, H=0.8MM, 2016 IND, 1.2UH, 3A, 2016, 0.65Z IND, 0.47UH, 6.6A, 3225, 0.8Z IND, 0.47UH, 6.6A, 3225, 0.8Z IND, 0.47UH, 6.6A, 3225, 0.8Z | .47UH, 4A, 48MO, H=0.8MM, 2012 UH, 3.6A, 60MO, H=0.8MM, 2016 Total AMERICA, 2004 TOTAL AME | Pearl B2B | REFERENCE DESIGNATOR(S) CRITICAL C4613 CRITICAL | BOM OPTION SOFT_CAP TYPICAL_CAP |
| B BOM_TABLE_ALTS U2600 TOSHIBA, BICS3, EXTREME 335S00247 335S00240 BOM_TABLE_ALTS U2600 SANDISK, BICS3, EXTREME 335S00276 335S00240 BOM_TABLE_ALTS U2600 SAMSUNG, 3DV4, EXTREME Capacitors PART NUMBER ALTERNATE FOR BOM OPTION REF DES COMMENTS: CRITICAL PART# COMMENT | PART NUMBER ALTERNATE FOR PART NUMBER BOM OPTION REF DE 19780612 19780446 BOM_TABLE_ALTS Y1000 | ES COMMENTS: CRITICAL PART# COMMENT | Mar (2000), 700 | PART# QTY DESCRIPTION 138S00160 2 CAP,SOFT-TERM,10UF,10V,0402,MURATA 138S0979 2 CAP,TYPICAL,10UF,10V,0402,MUR/KYO CODEC PART# QTY DESCRIPTION 138S00160 2 CAP,SOFT-TERM,10UF,10V,0402,MURATA | C5641,C5653 CRITICAL C5641,C5653 CRITICAL REFERENCE DESIGNATOR(S) CRITICAL | BOM OPTION SOFT_CAP TYPICAL_CAP BOM OPTION SOFT_CAP |
| PART NUMBER ALTERNATE FOR PART NUMBER BOM OPTION REF DES COMMENTS: CRITICAL PART# COMMENT | Multi-Vendo CRITICAL PART# COMMENT 377S0106 SUPPR, TRANS, VARISTOR, 12V, 33PF, 01005 197S0446 XTAL, 24MHZ, 30PPM, 9.5PF, 60 OHM MAX, 1612 | CRITICAL PART# COMMENT 132S0288 | | 138S0979 2 CAP, TYPICAL, 10UF, 10V, 0402, MUR/KYO Ansel PART# QTY DESCRIPTION 138S00160 1 CAP, SOFT-TERM, 10UF, 10V, 0402, MURATA 138S0979 1 CAP, TYPICAL, 10UF, 10V, 0402, MUR/KYO | REFERENCE DESIGNATOR(S) CRITICAL C3710 CRITICAL | TYPICAL_CAP BOM OPTION SOFT_CAP TYPICAL_CAP |
| 138S00143 138S00144 BOM_TABLE_ALTS ALL 0402,16uF@1V, Kyocera 138S00163 138S00144 BOM_TABLE_ALTS ALL 0402,16uF@1V, Taiyo PART NUMBER ALTERNATE FOR PART NUMBER BOM OPTION REF DES COMMENTS: 138S00138 138S00139 BOM_TABLE_ALTS ALL 0201,3uF@1V, Kyocera 138S00164 138S00139 BOM_TABLE_ALTS ALL 0201,3uF@1V, Taiyo | 155S0576 FERR BD,10 OHM,50%,750MA,0.07 DCR,01005 155S00168 FLTR,NOISE,65 OHMZ,3.4OHM,0.7-2GHZ,0605 138S0979 CAP,CER,X5R,10UF,20%,10V,0402,H=0.65MM 138S0692 CAP,CER,X5R,1UF,20%,6.3V,0201 138S0683 CAP,CER,X5R,1UF,10%,25V,0402 138S0652 CAP,CER,X5R,4.7UF,20%,6.3V,H=0.65MM,0402 | 132S0249 | | PART NUMBER | TOES COMMENTS: SUBBOM, MLB, TOP, CAP, SOFT, X891 | |
| PART NUMBER ALTERNATE FOR PART NUMBER BOM OPTION REF DES COMMENTS: | 138S00070 | 131S0804 CAP, CER, 27PF, 5%, COG, 25V, 0201 131S0307 CAP, CER, NPO/COG, 100PF, 5%, 16V, 01005 131S0225 CAP, CER, NPO/COG, 15PF, 5%, 16V, 01005 131S0223 CAP, CER, NPO/COG, 27PF, 5%, 16V, 01005 131S0220 CAP, CER, NPO/COG, 12PF, 5%, 16V, 01005 131S0216 CAP, CER, NPO/COG, 47PF, 5%, 16V, 01005 | | PAGE TITLE | | - CONSIDERATION |
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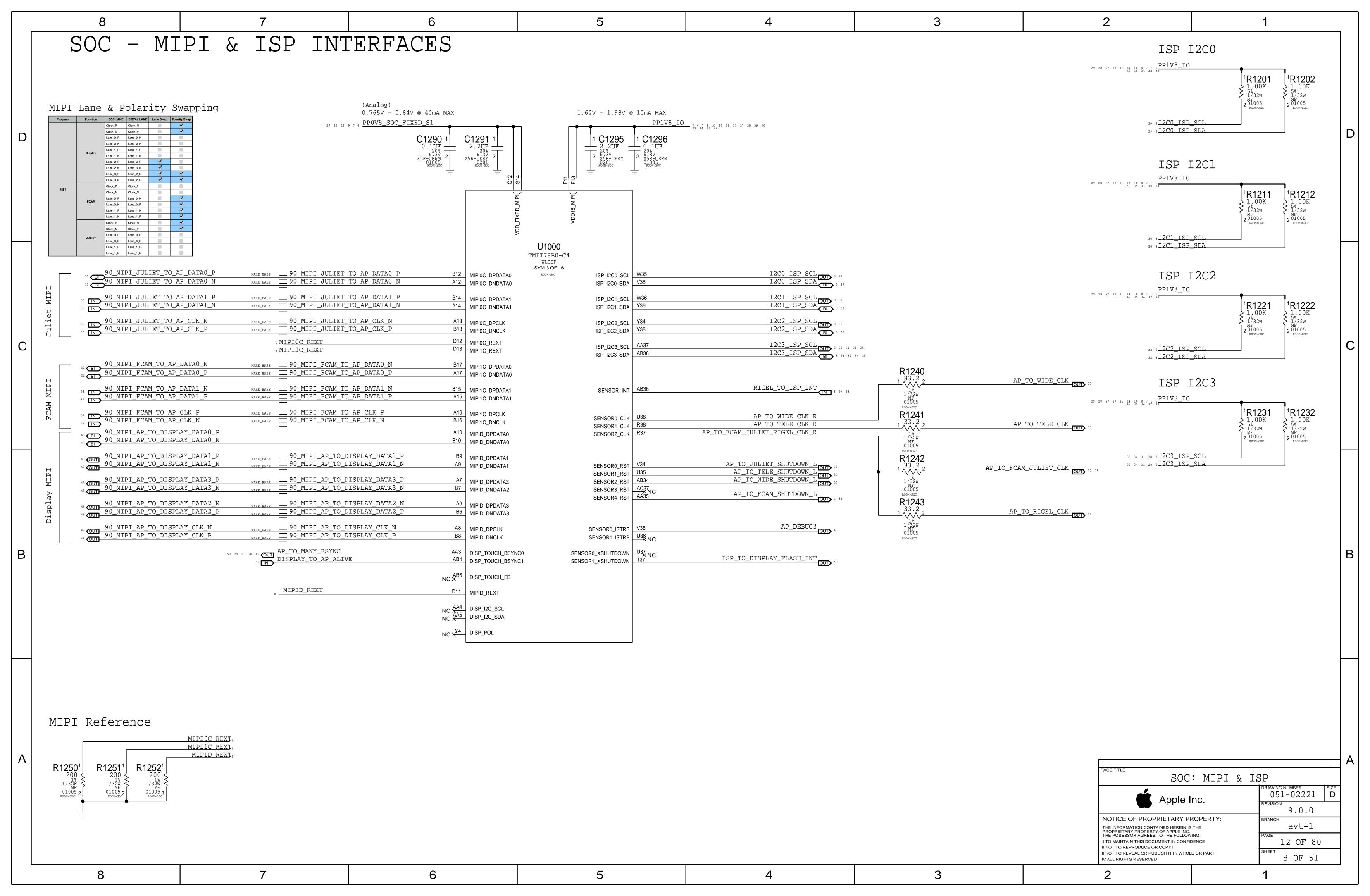


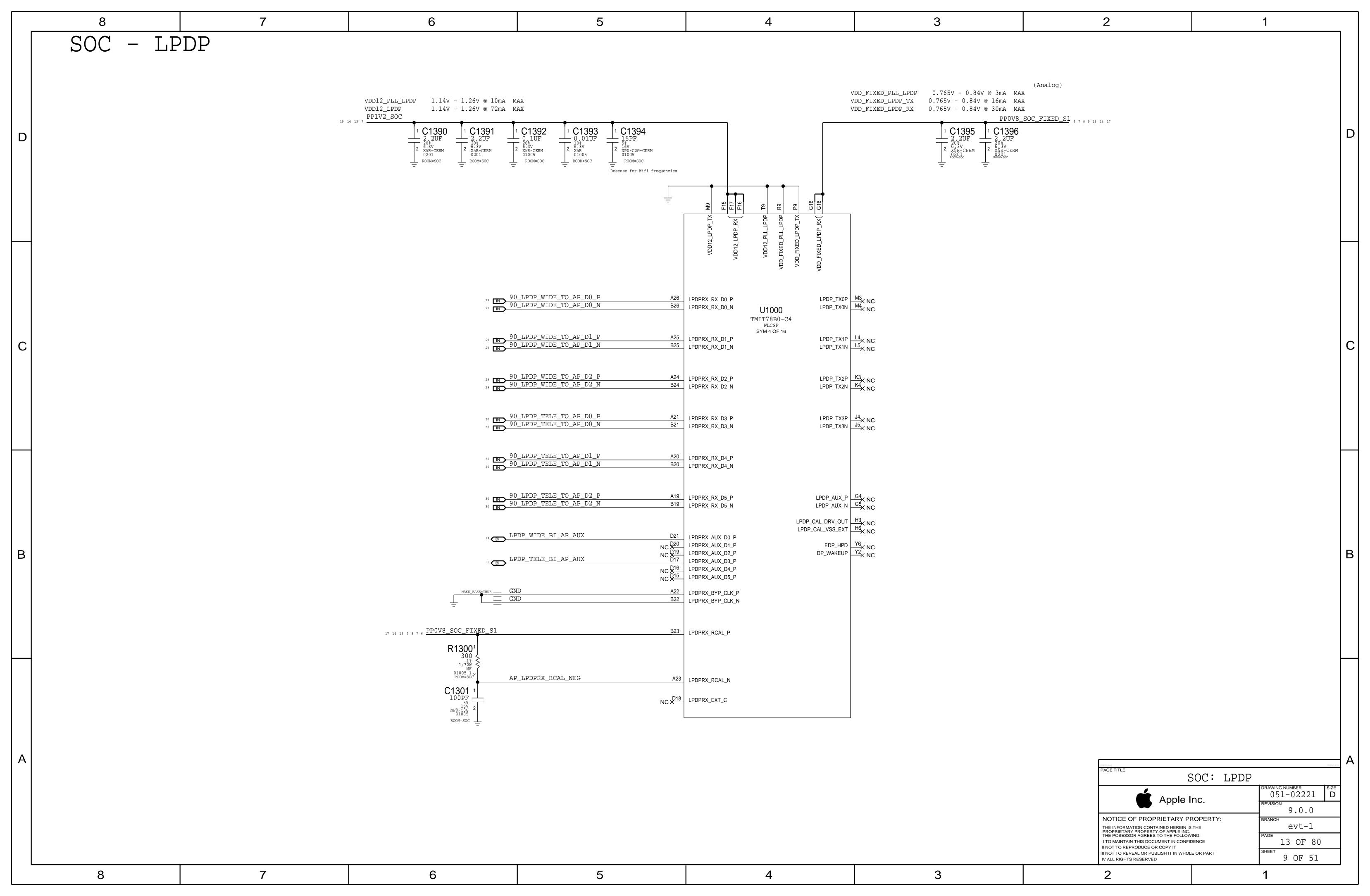


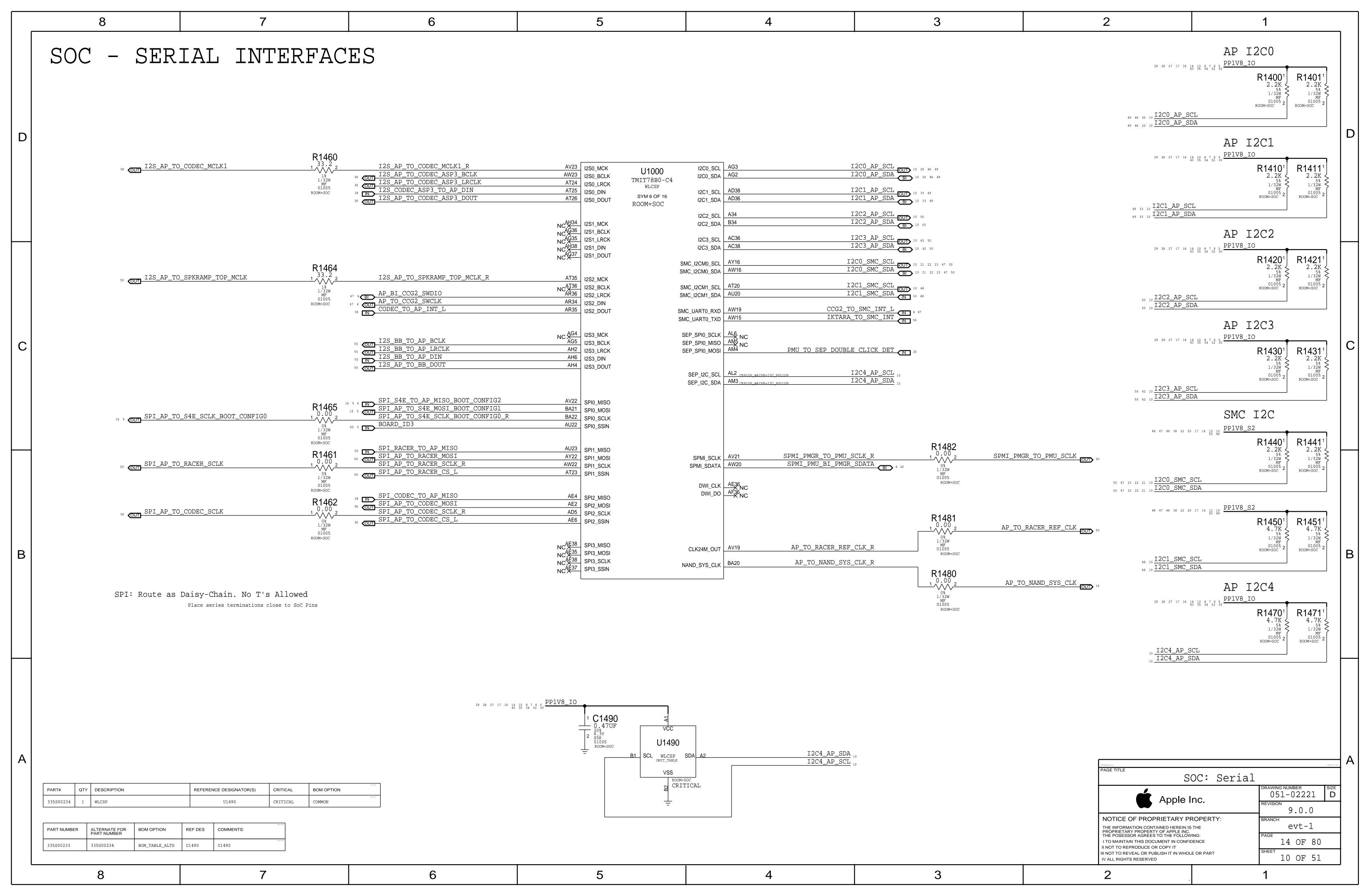


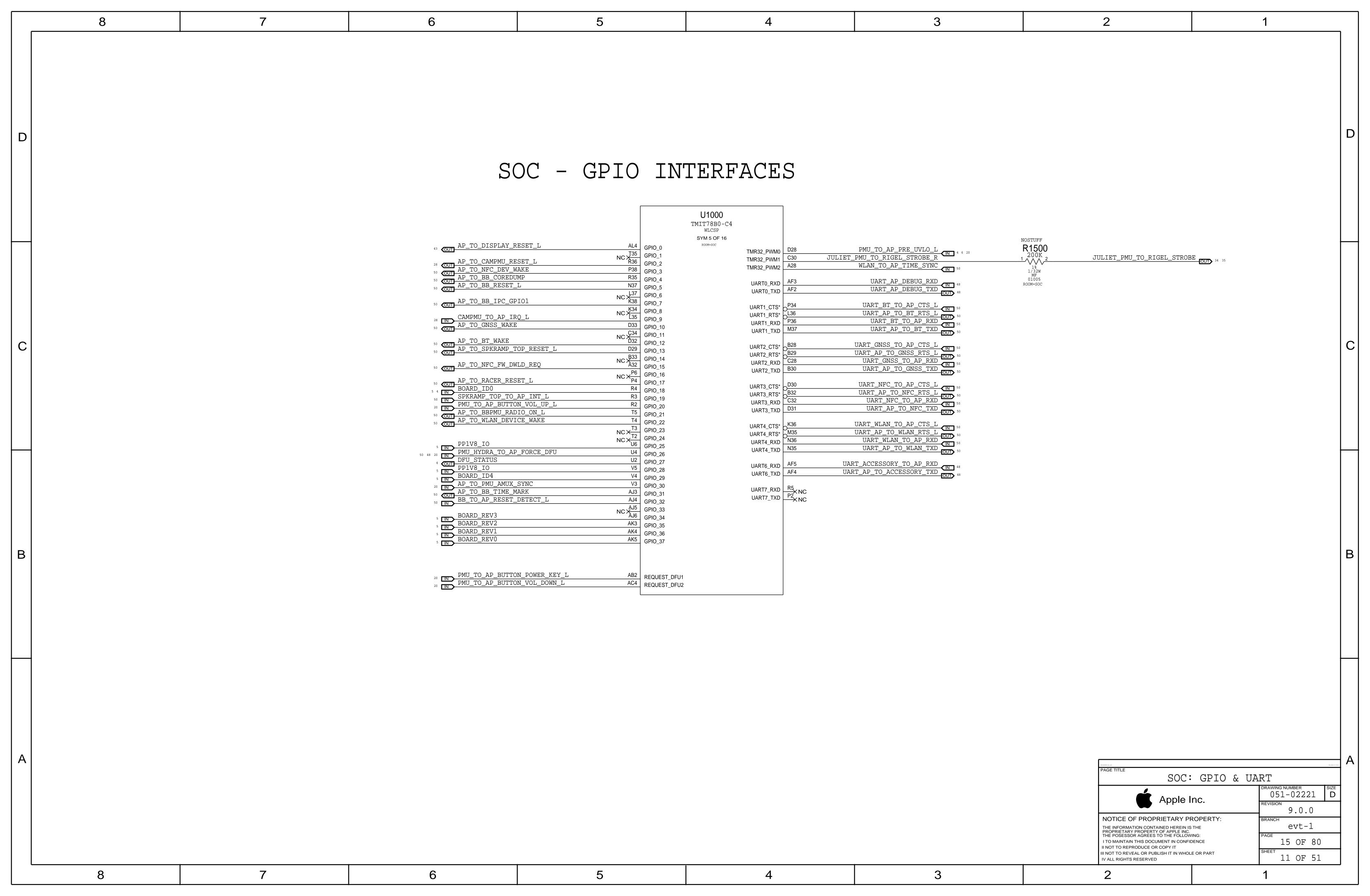


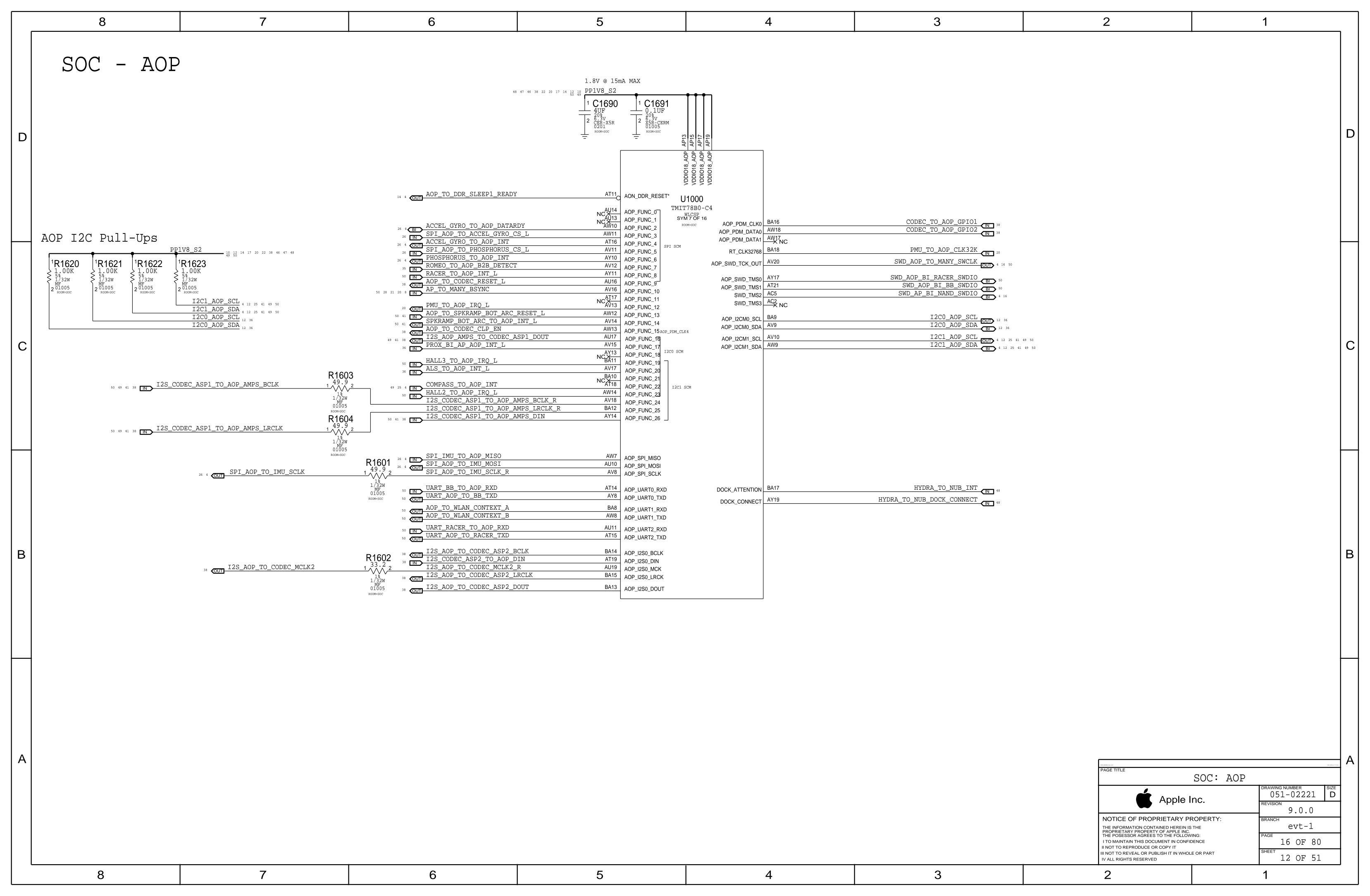


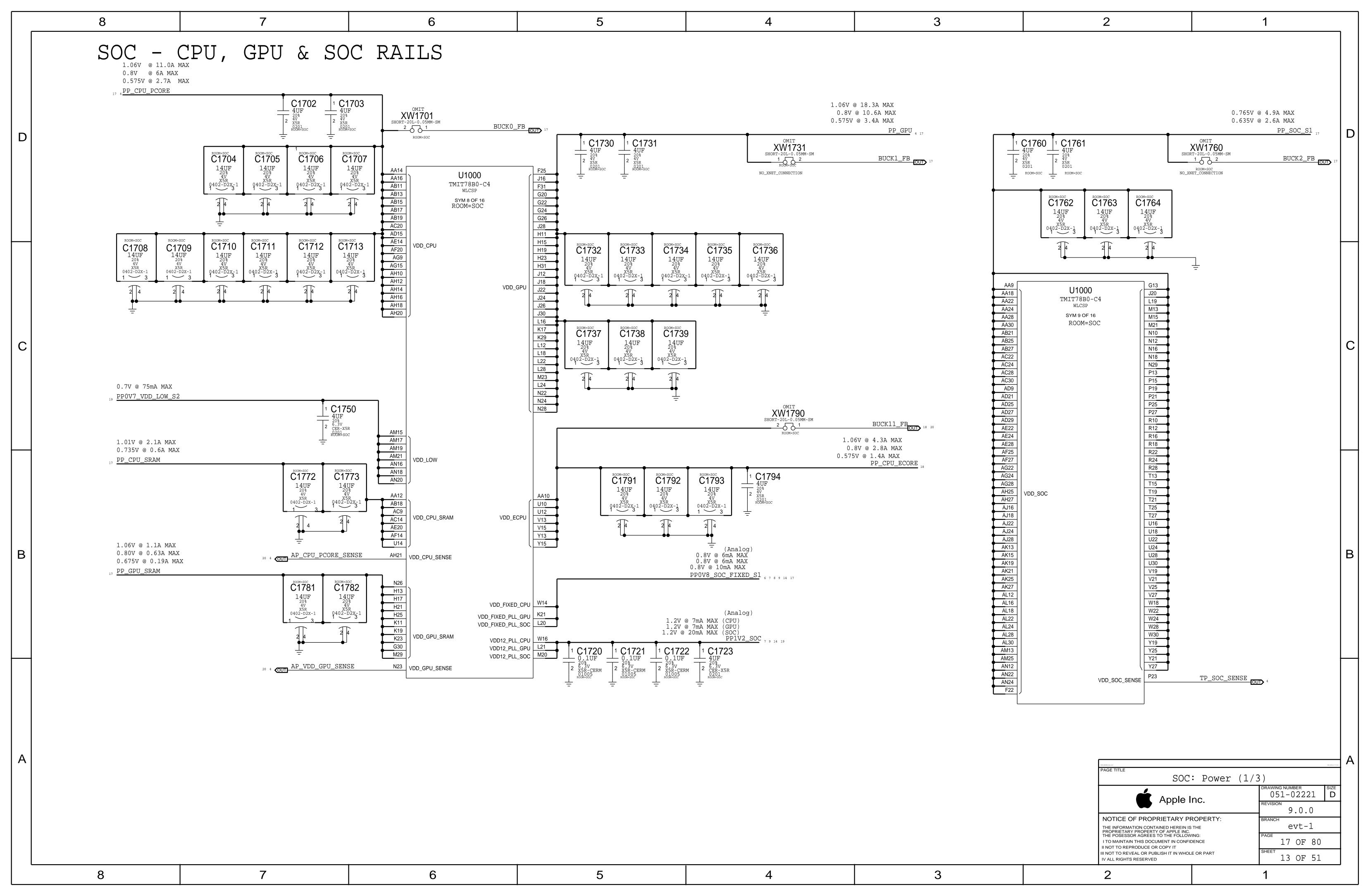


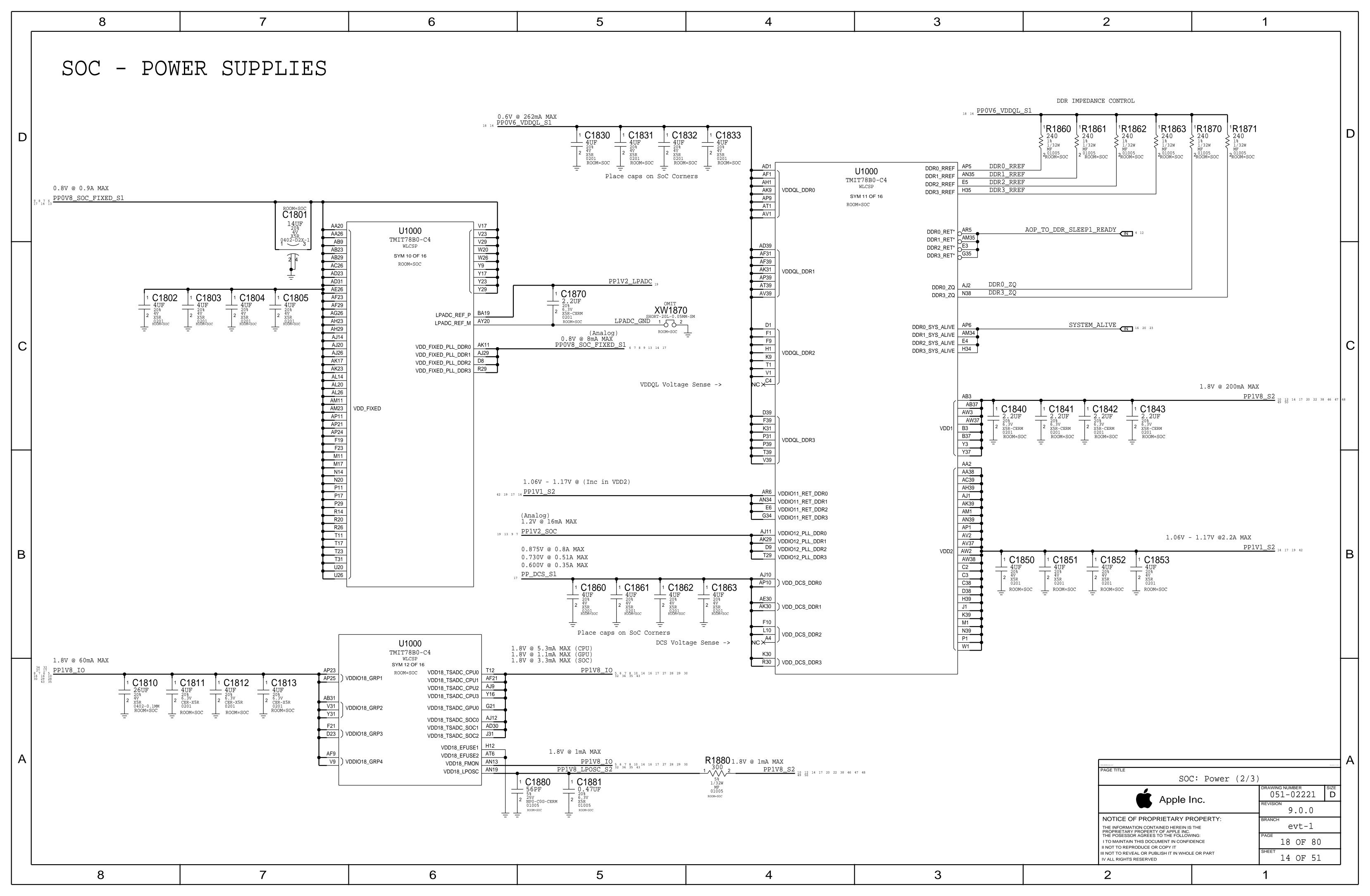


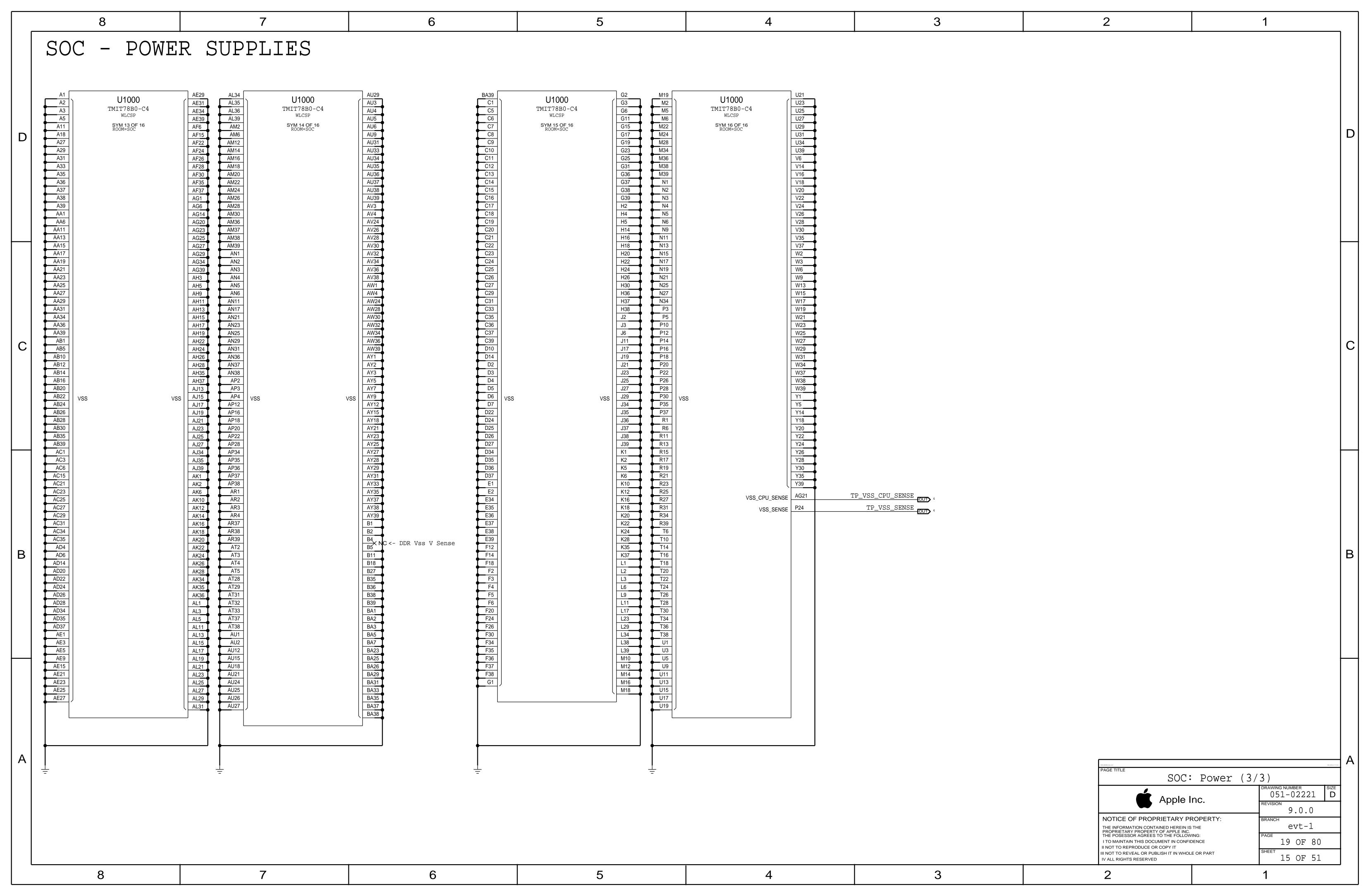


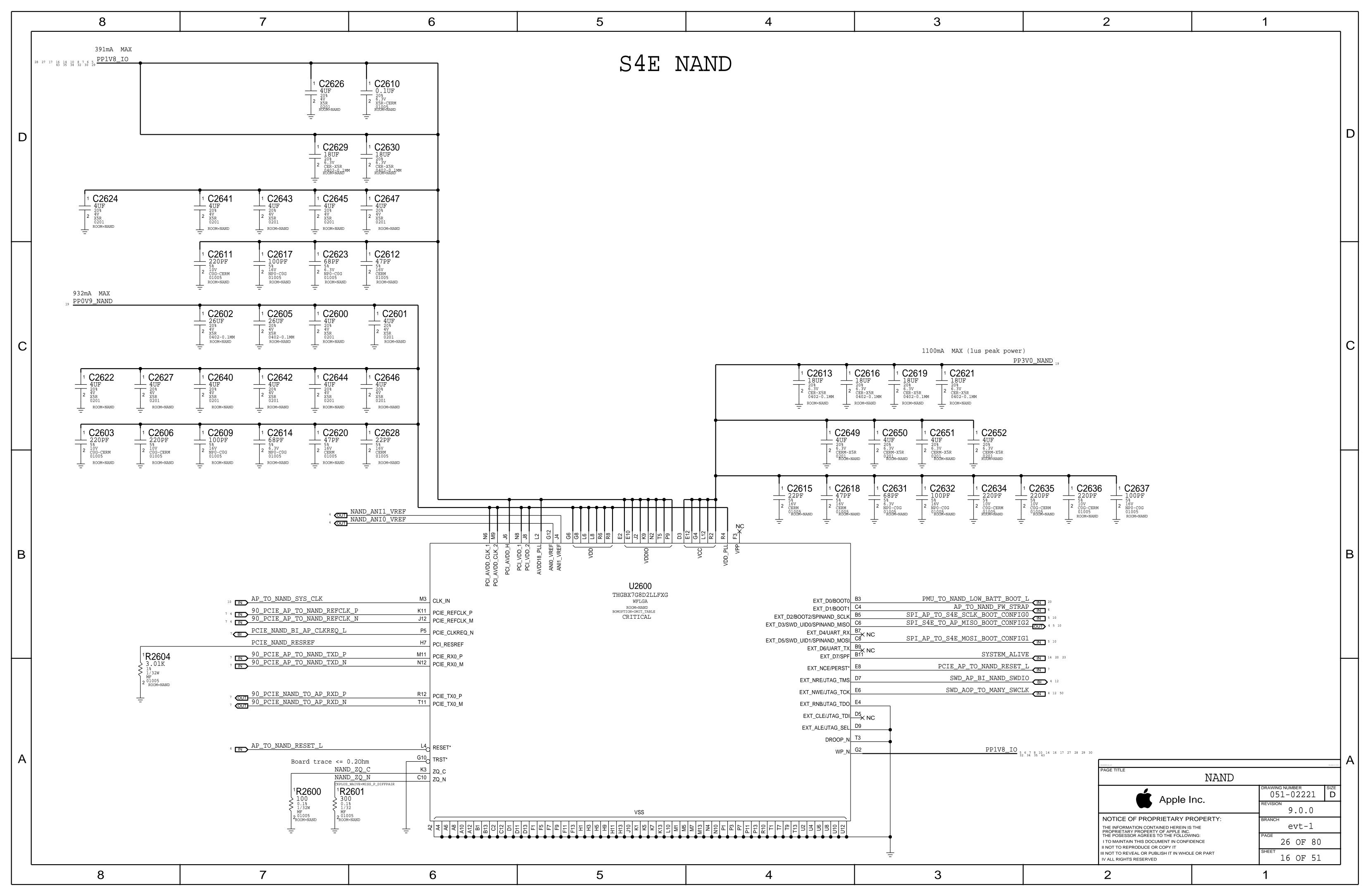


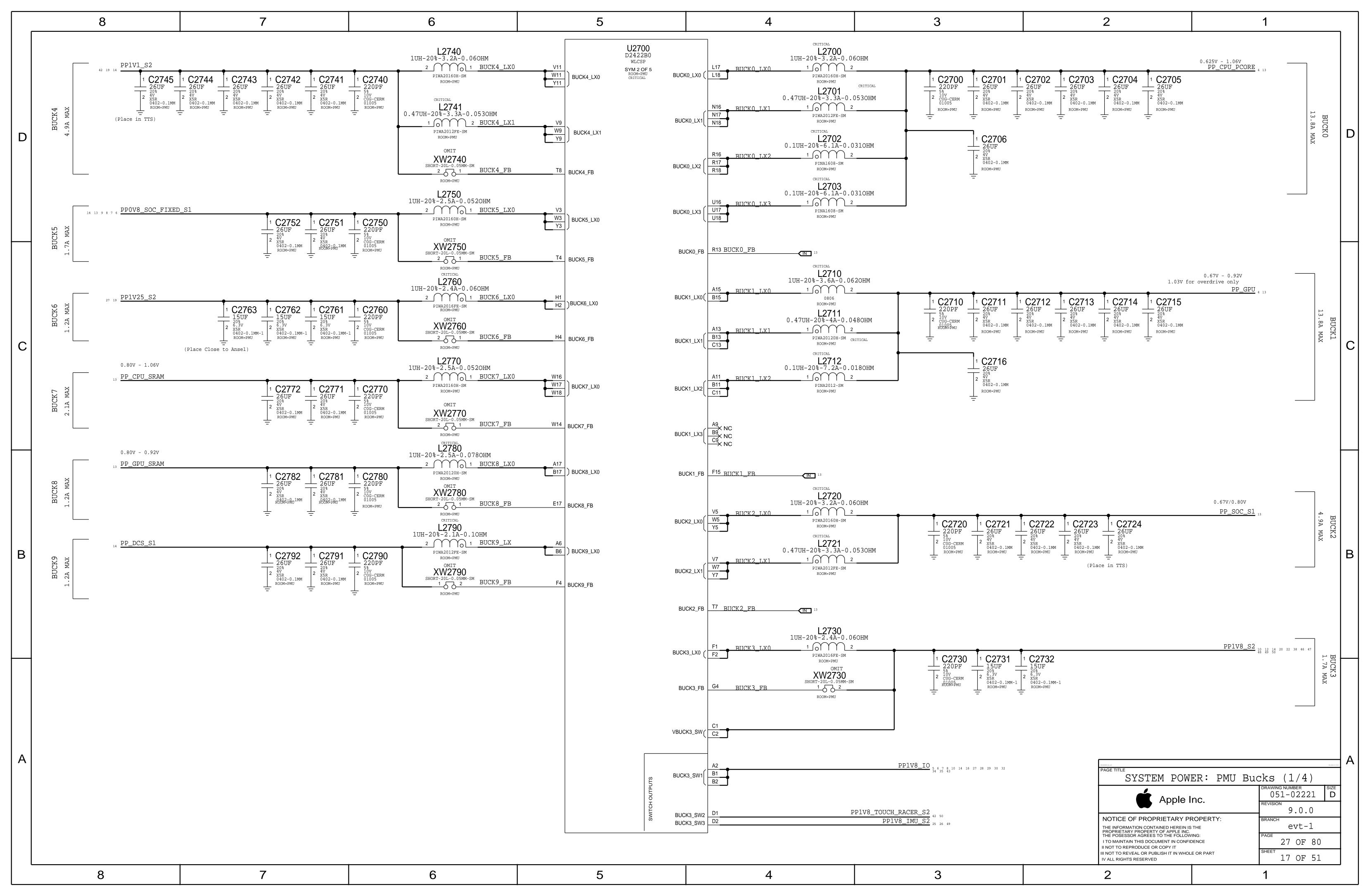


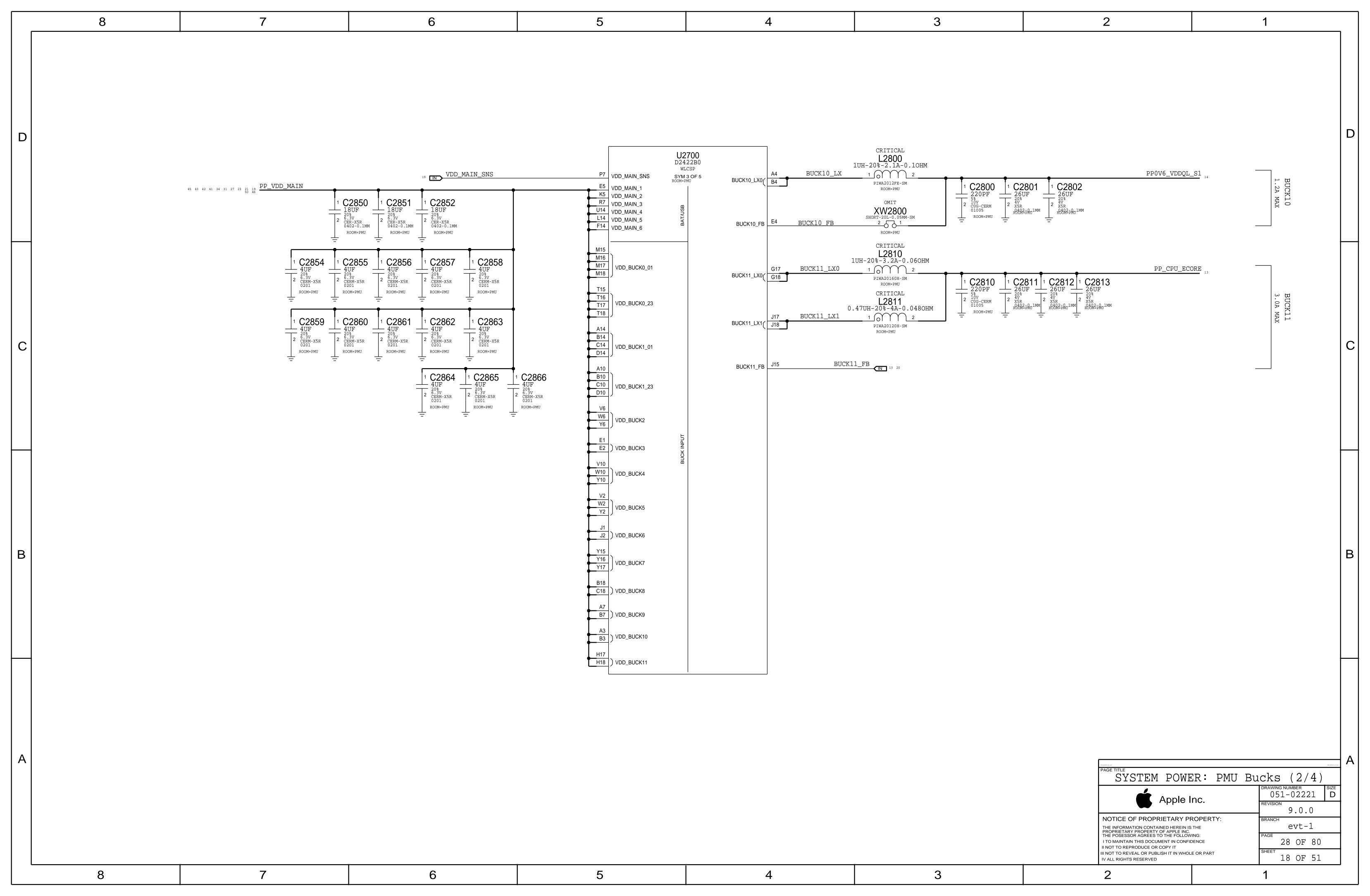


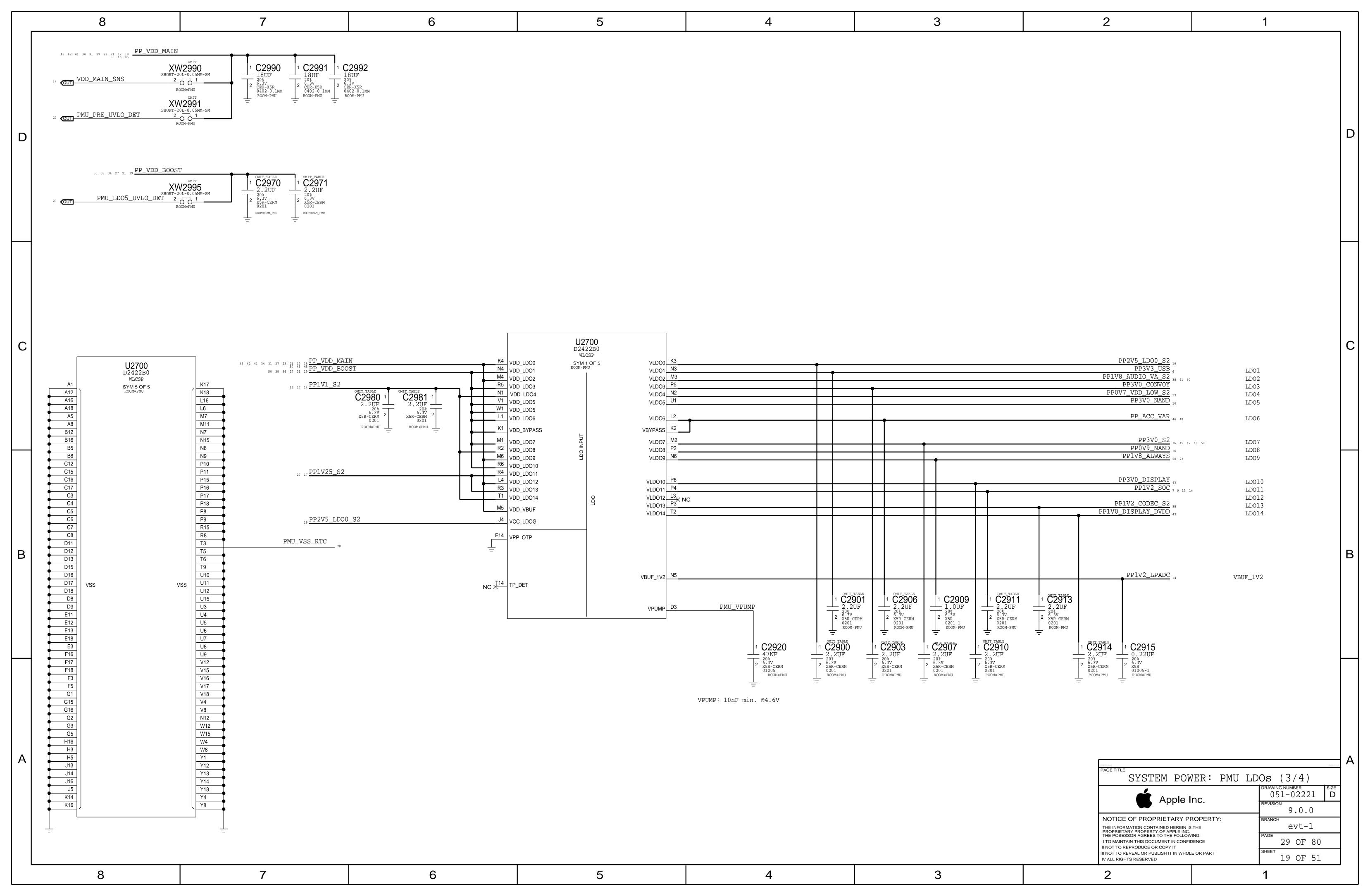


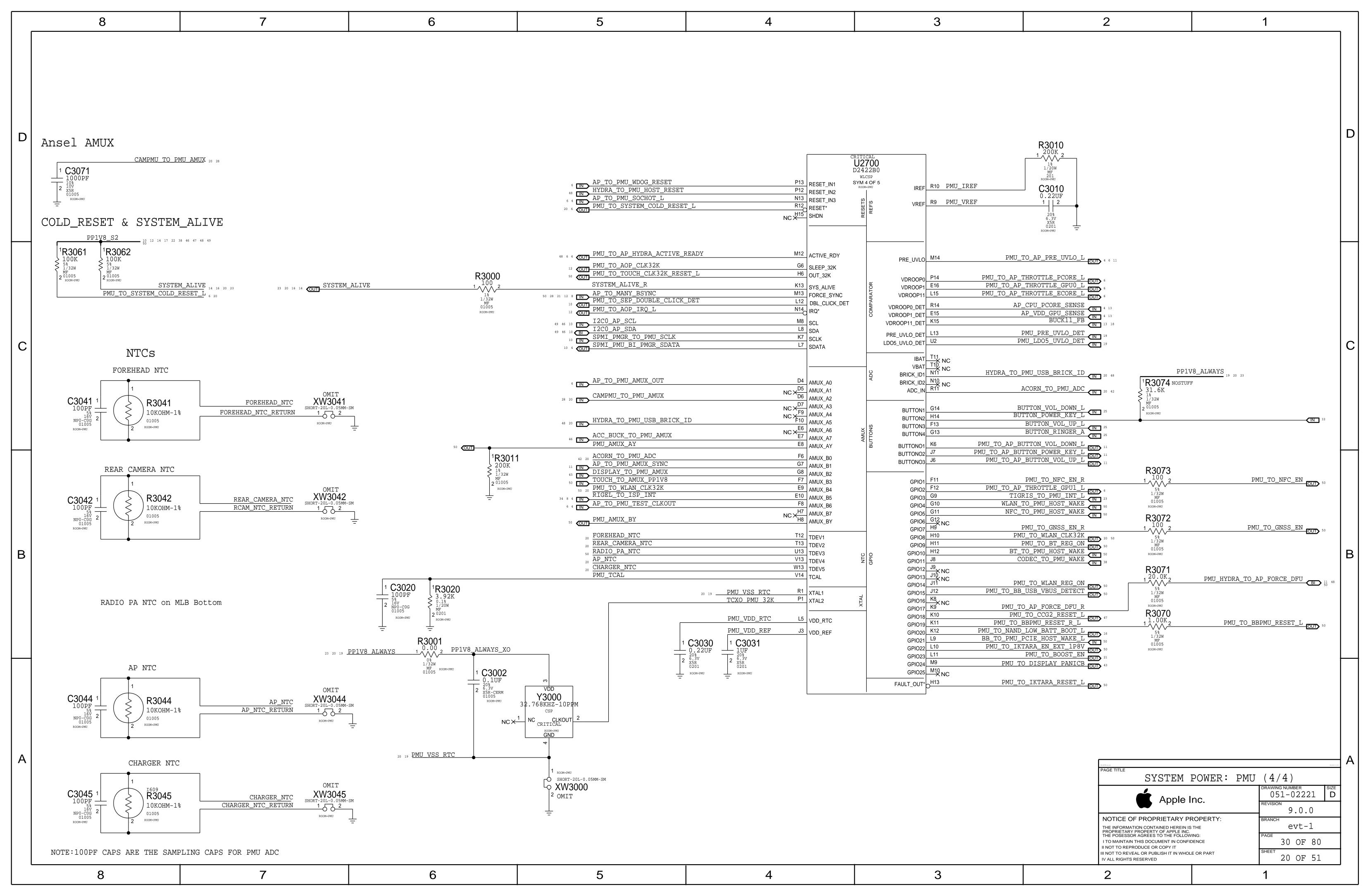


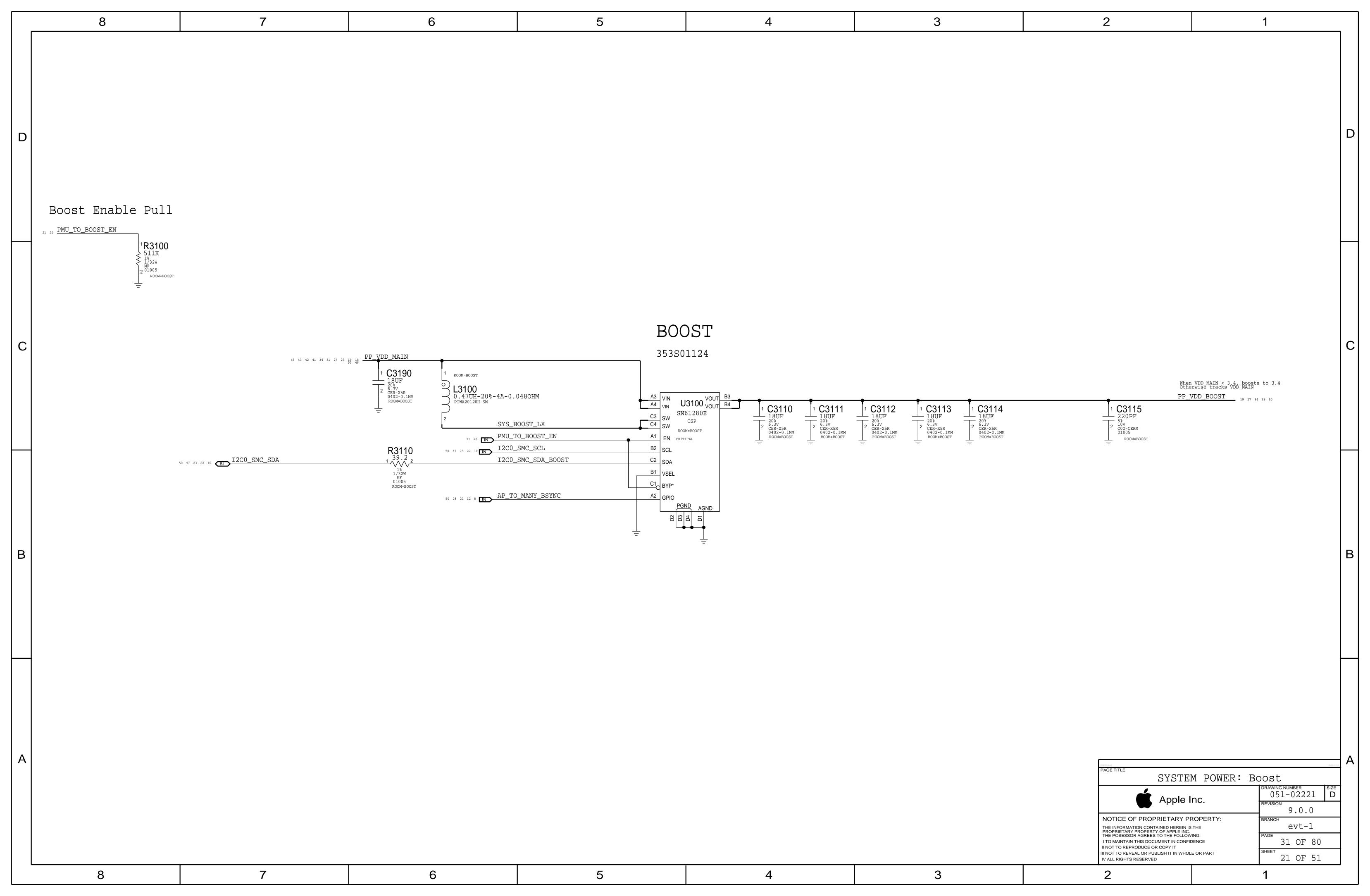


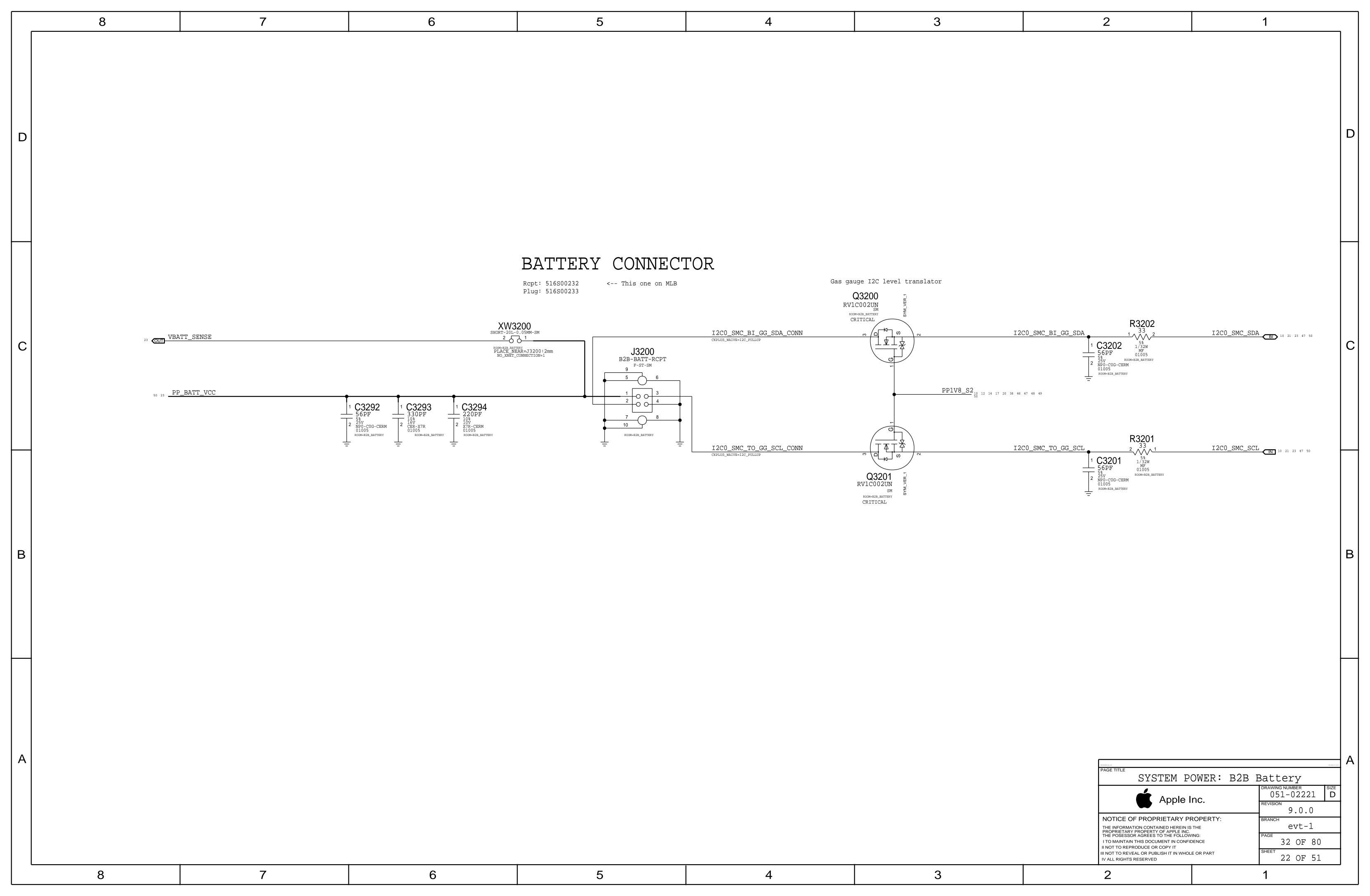


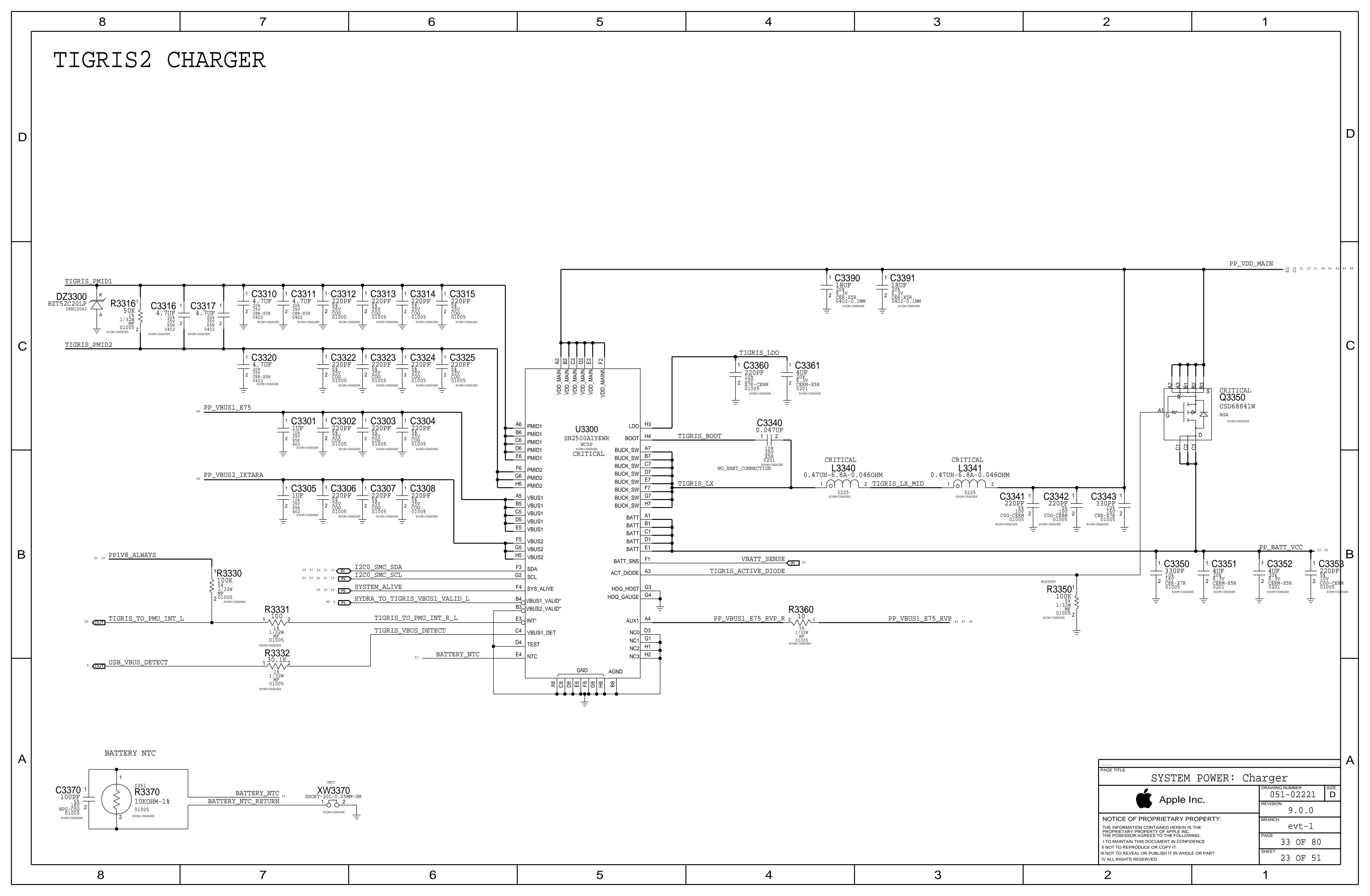


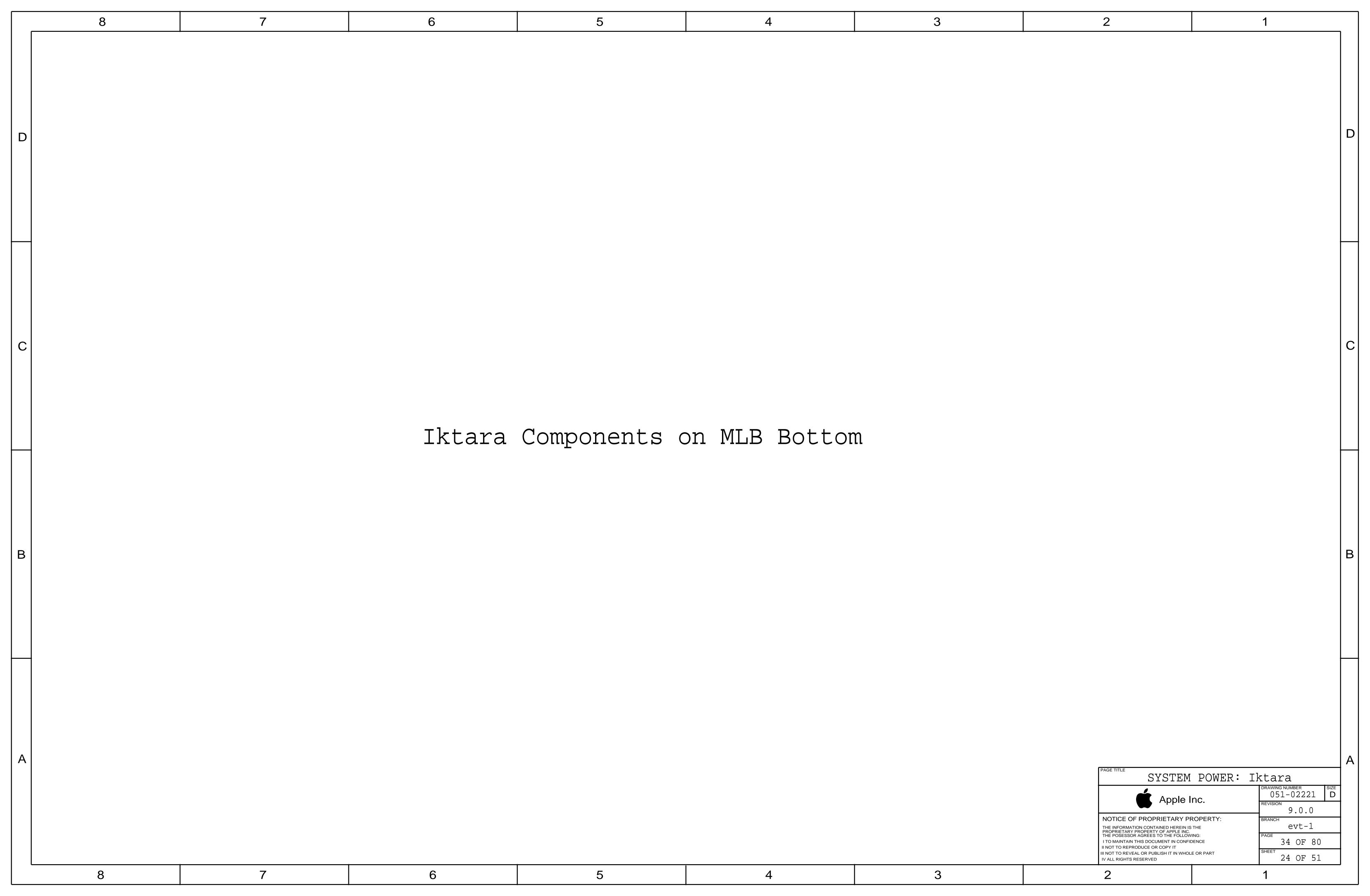


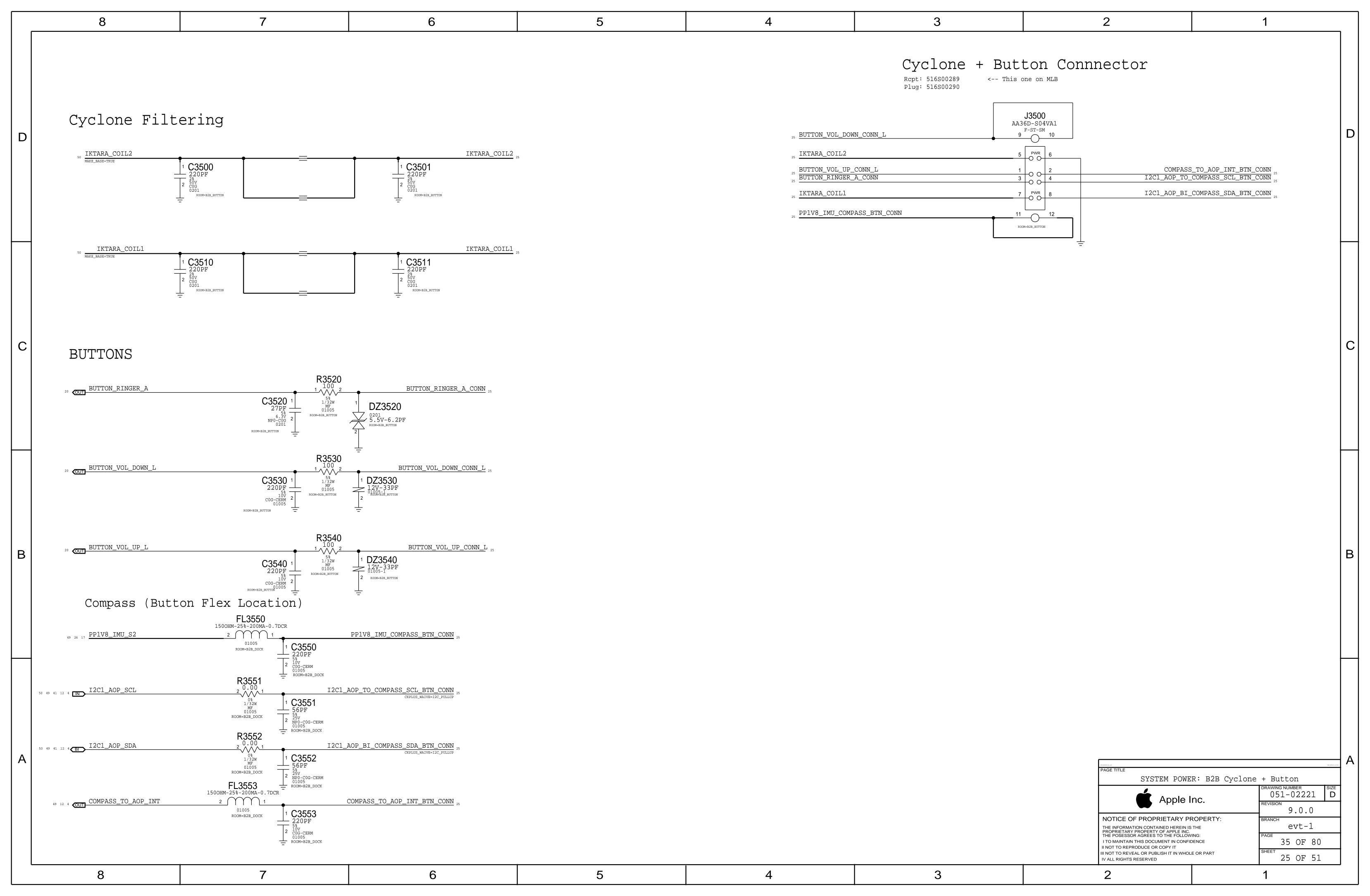


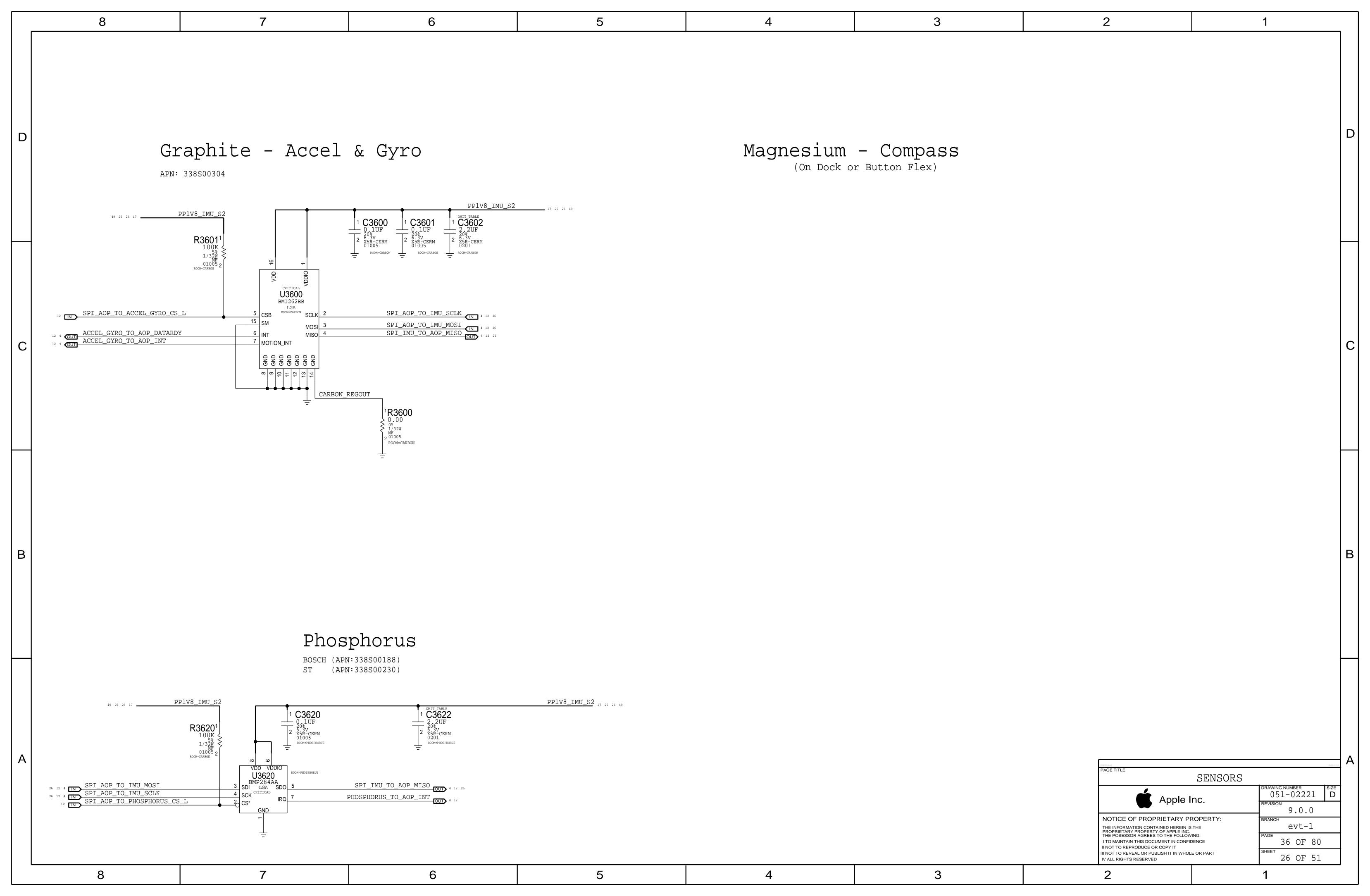


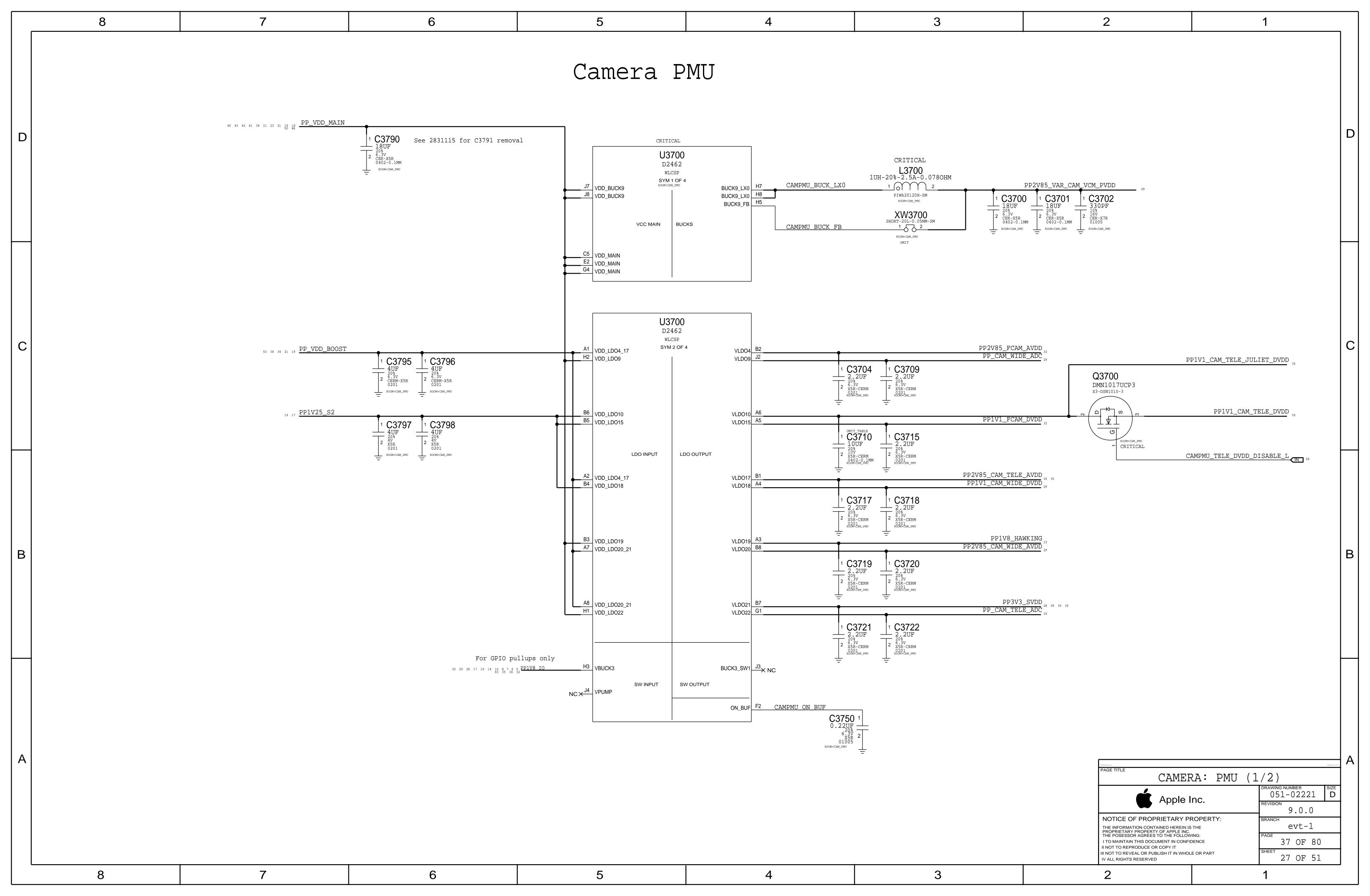


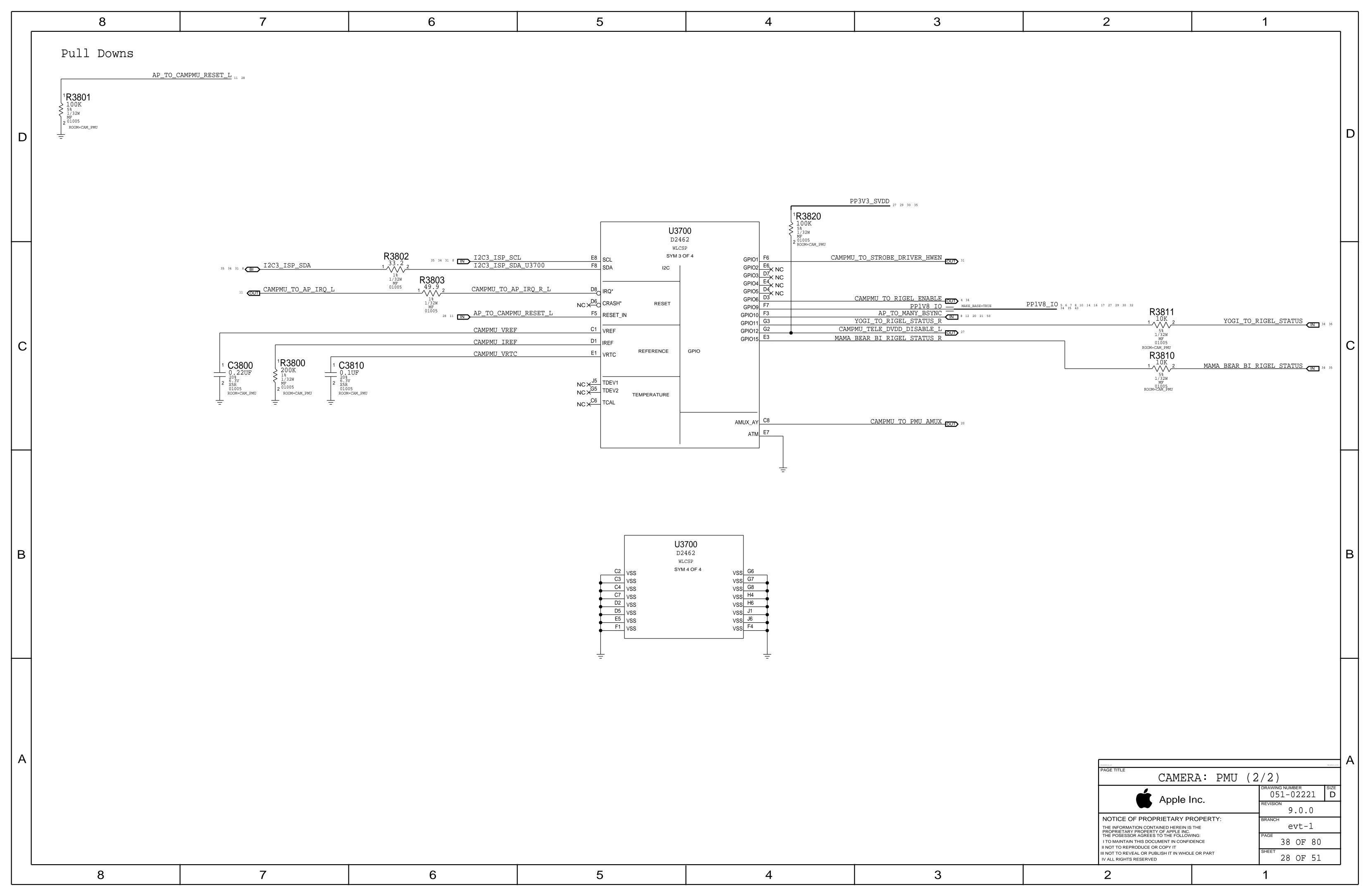


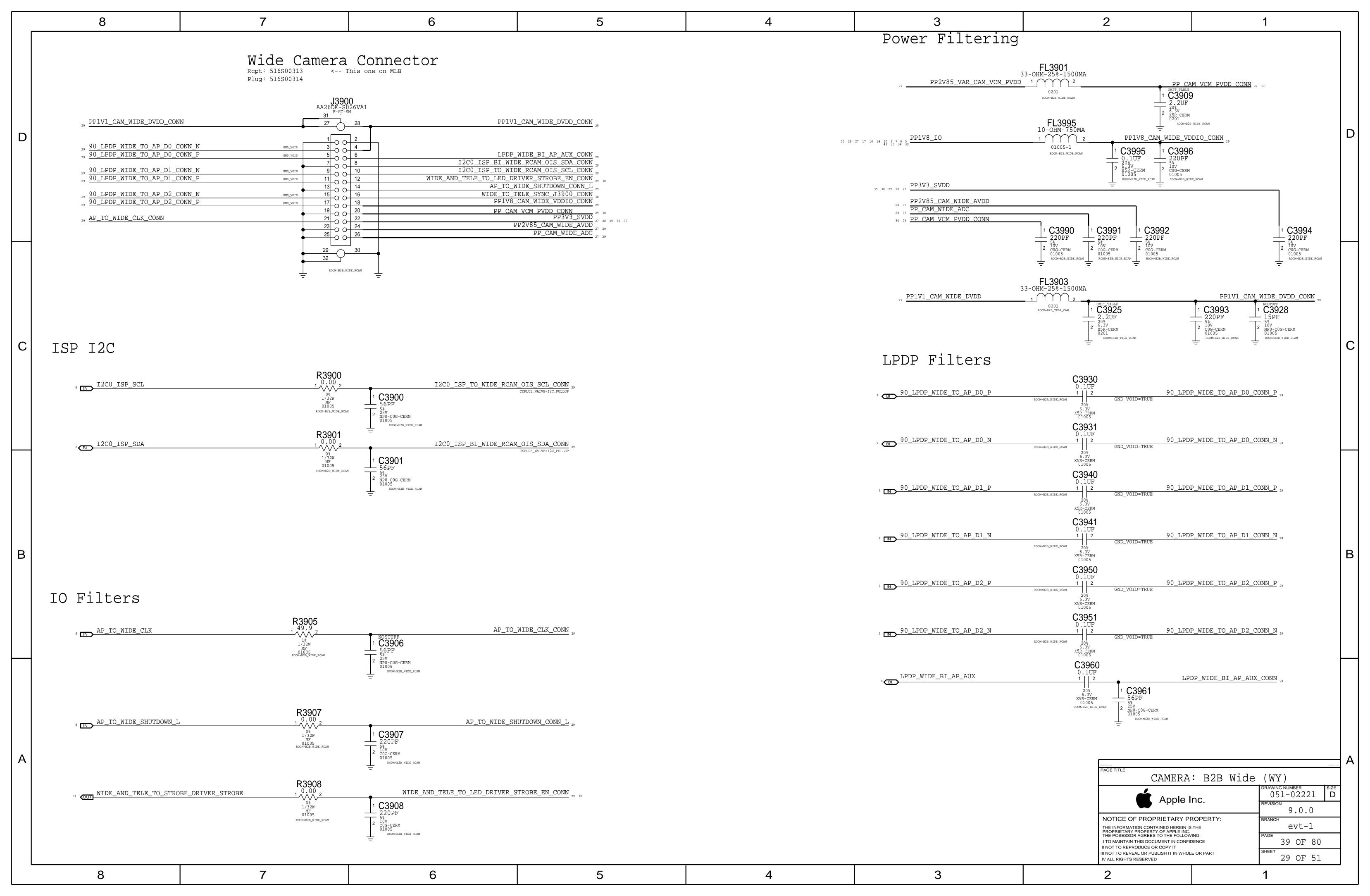


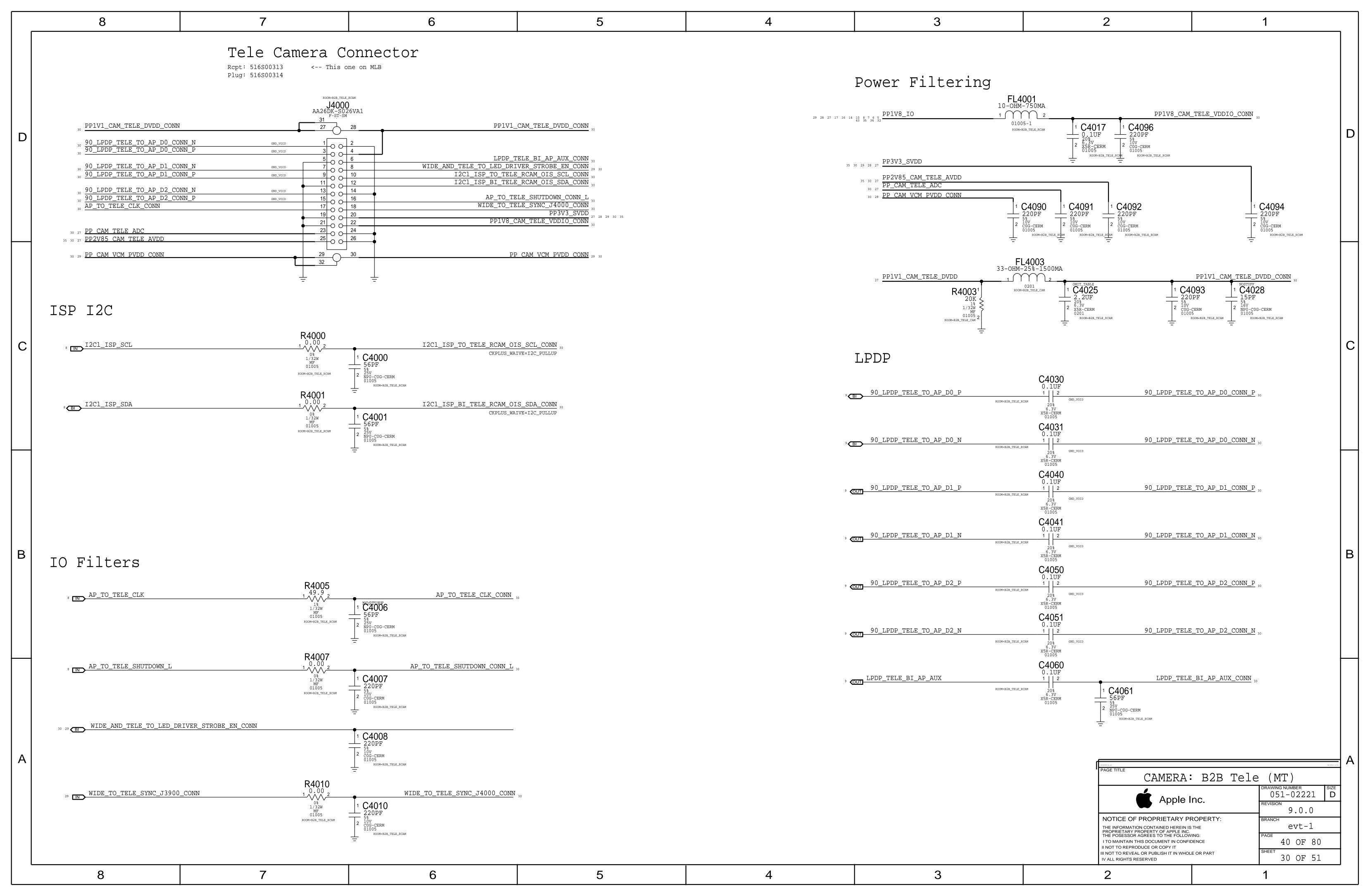


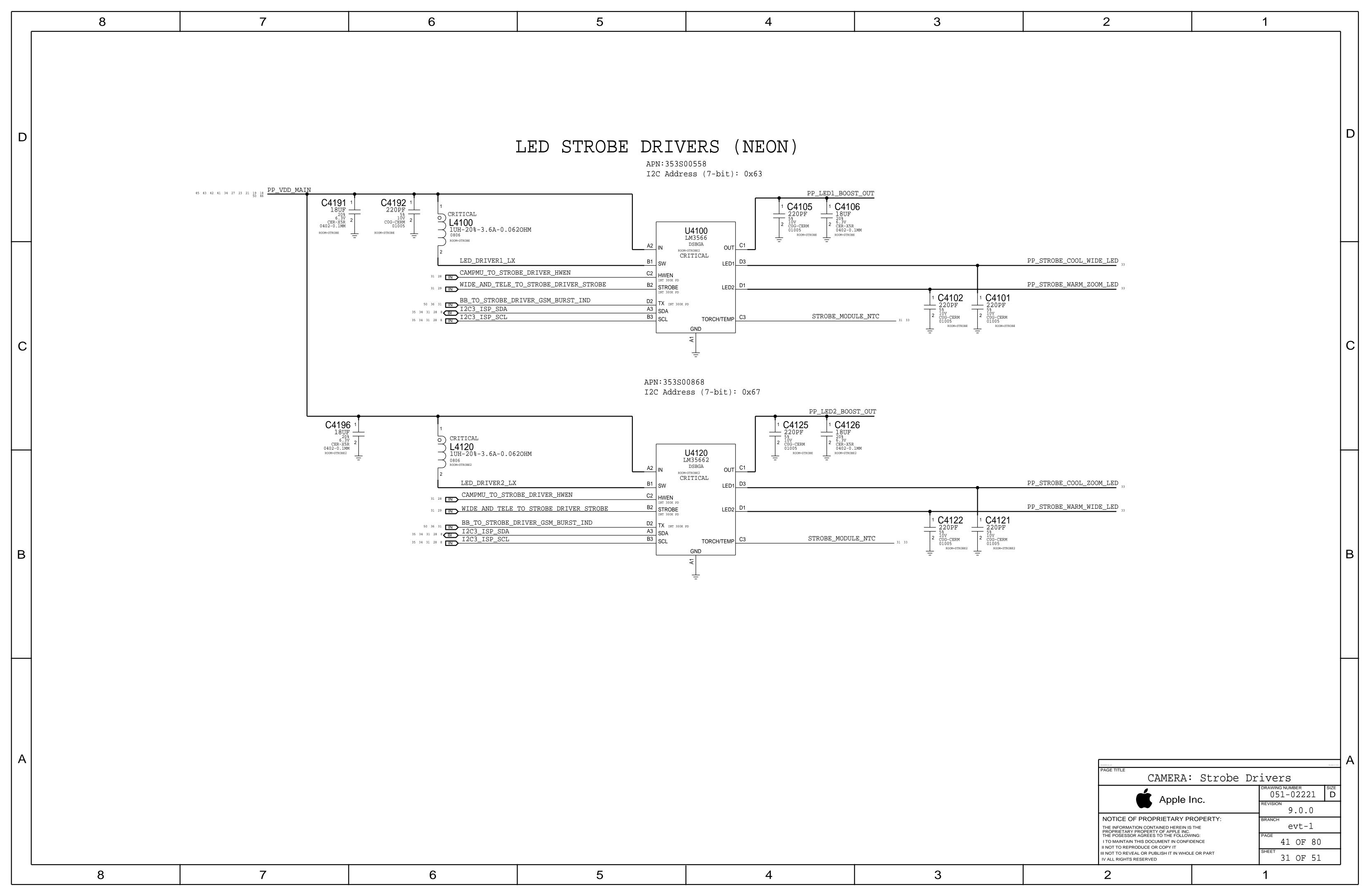


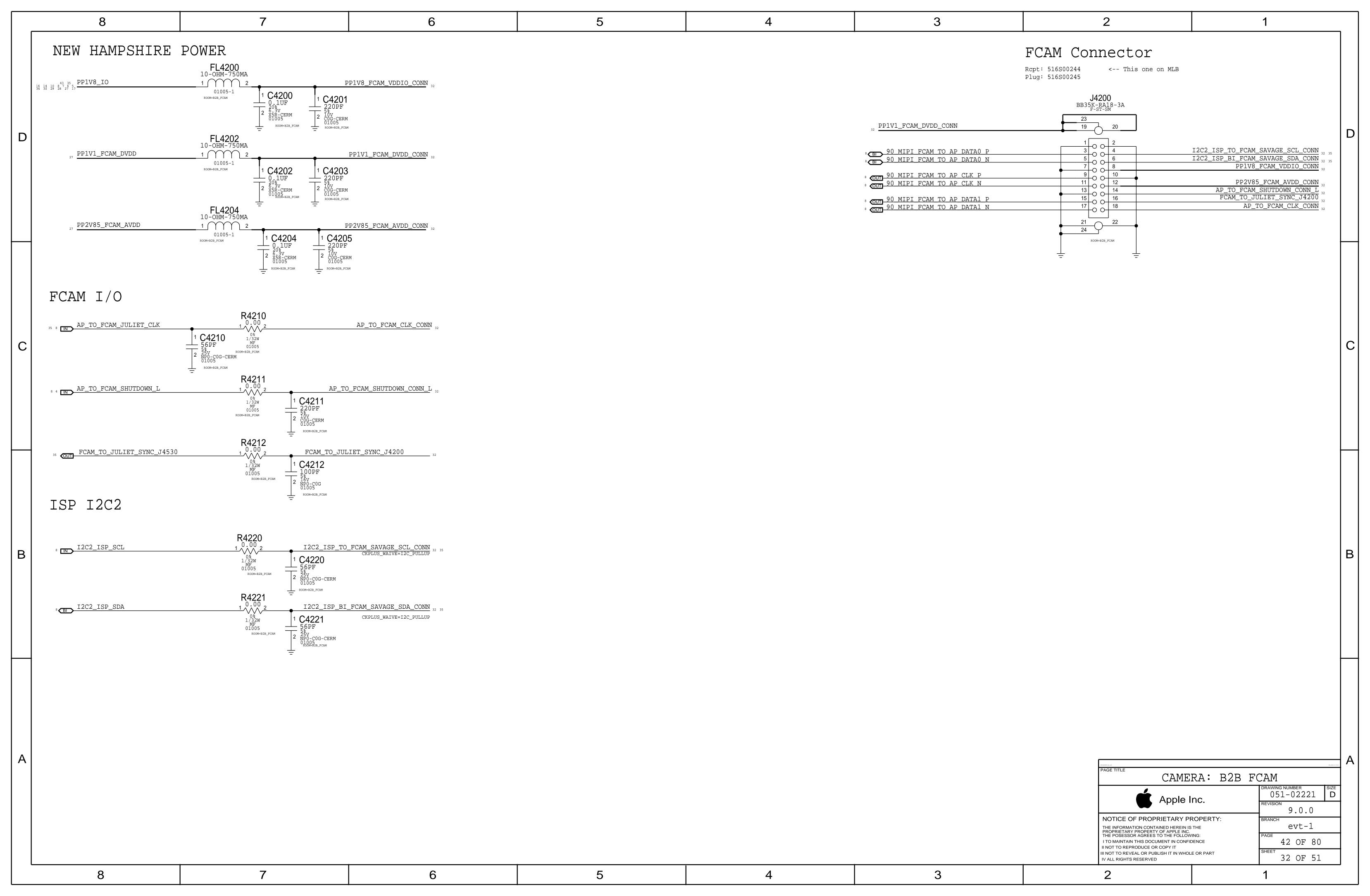


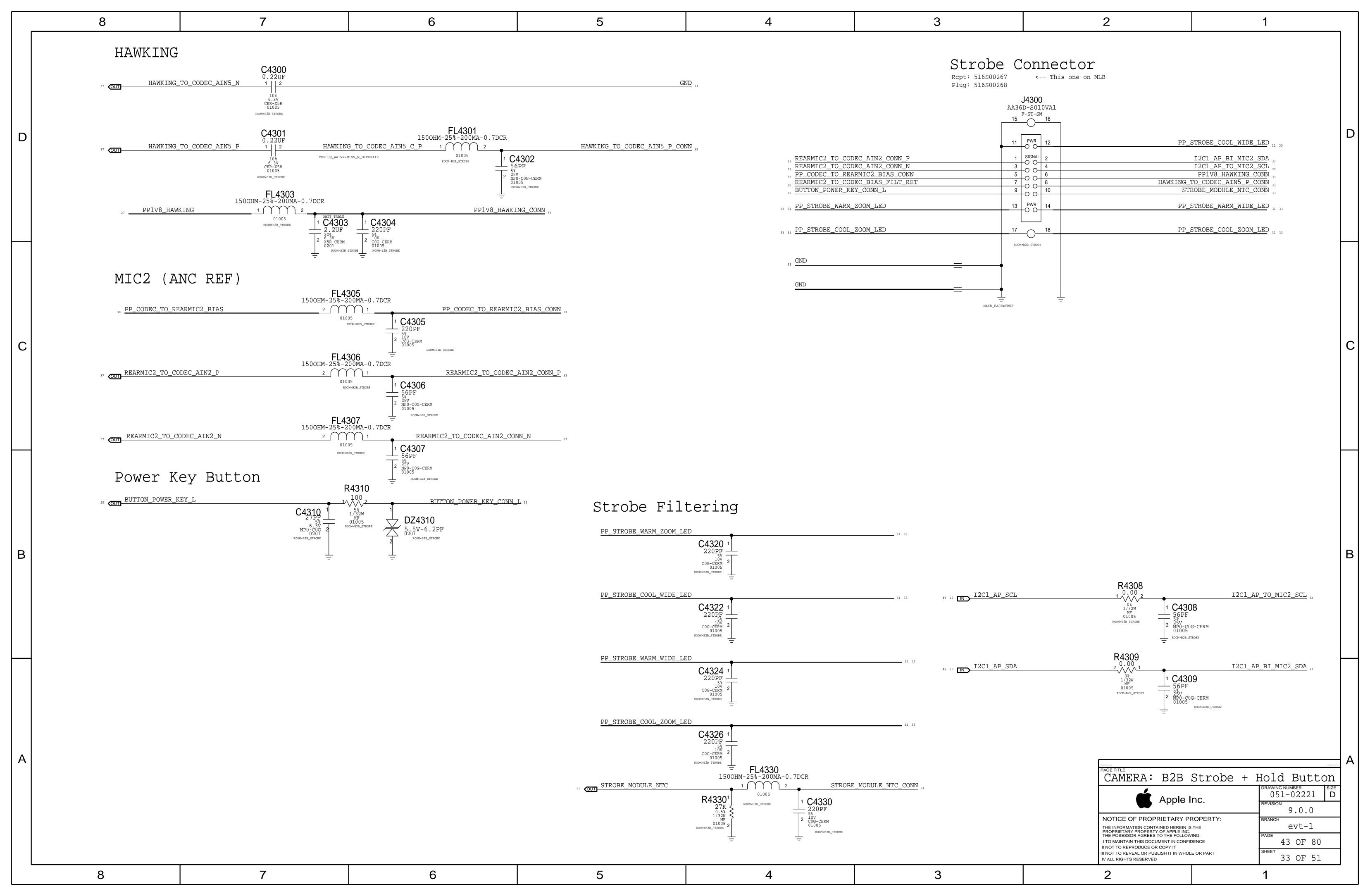


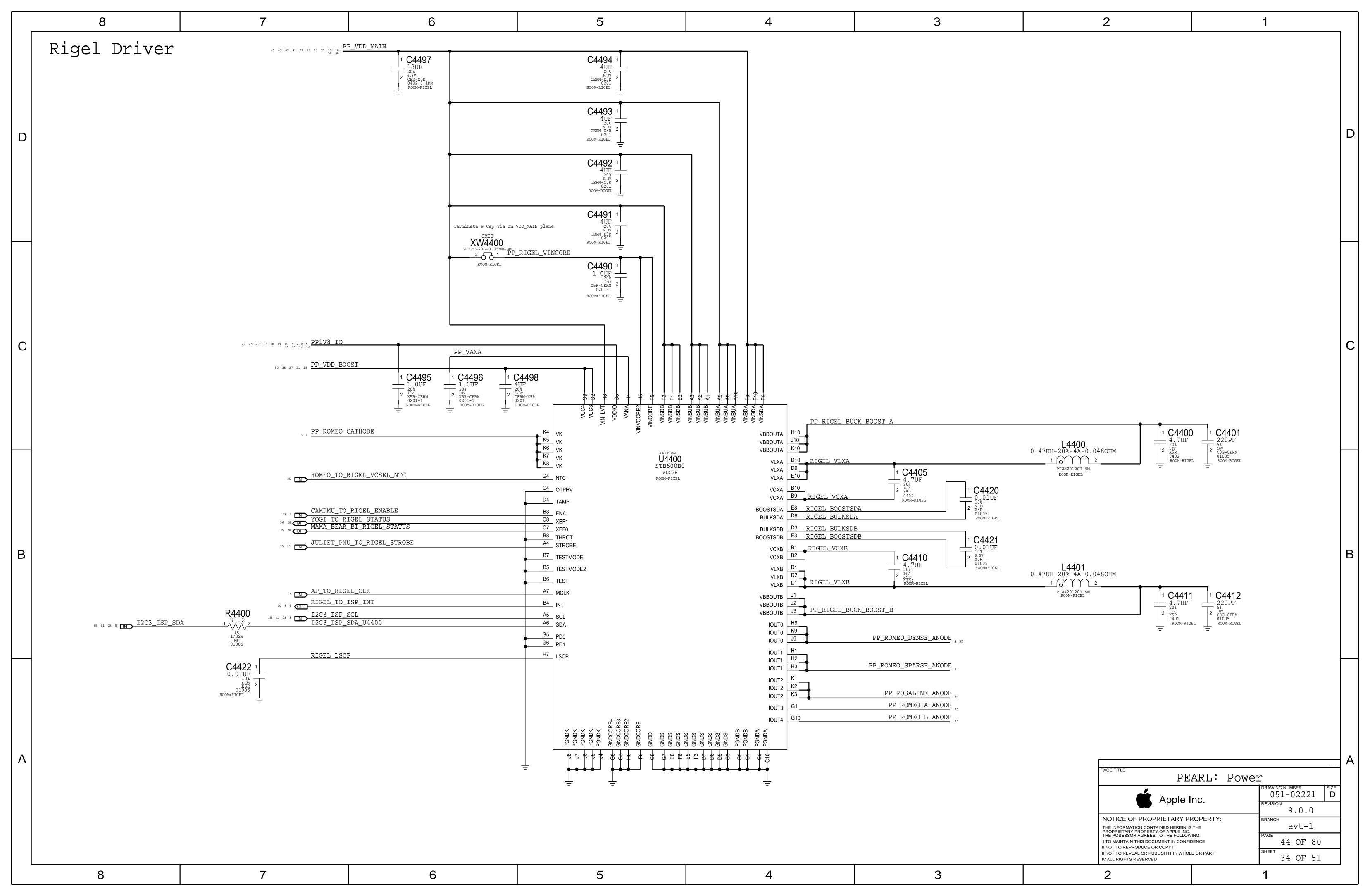


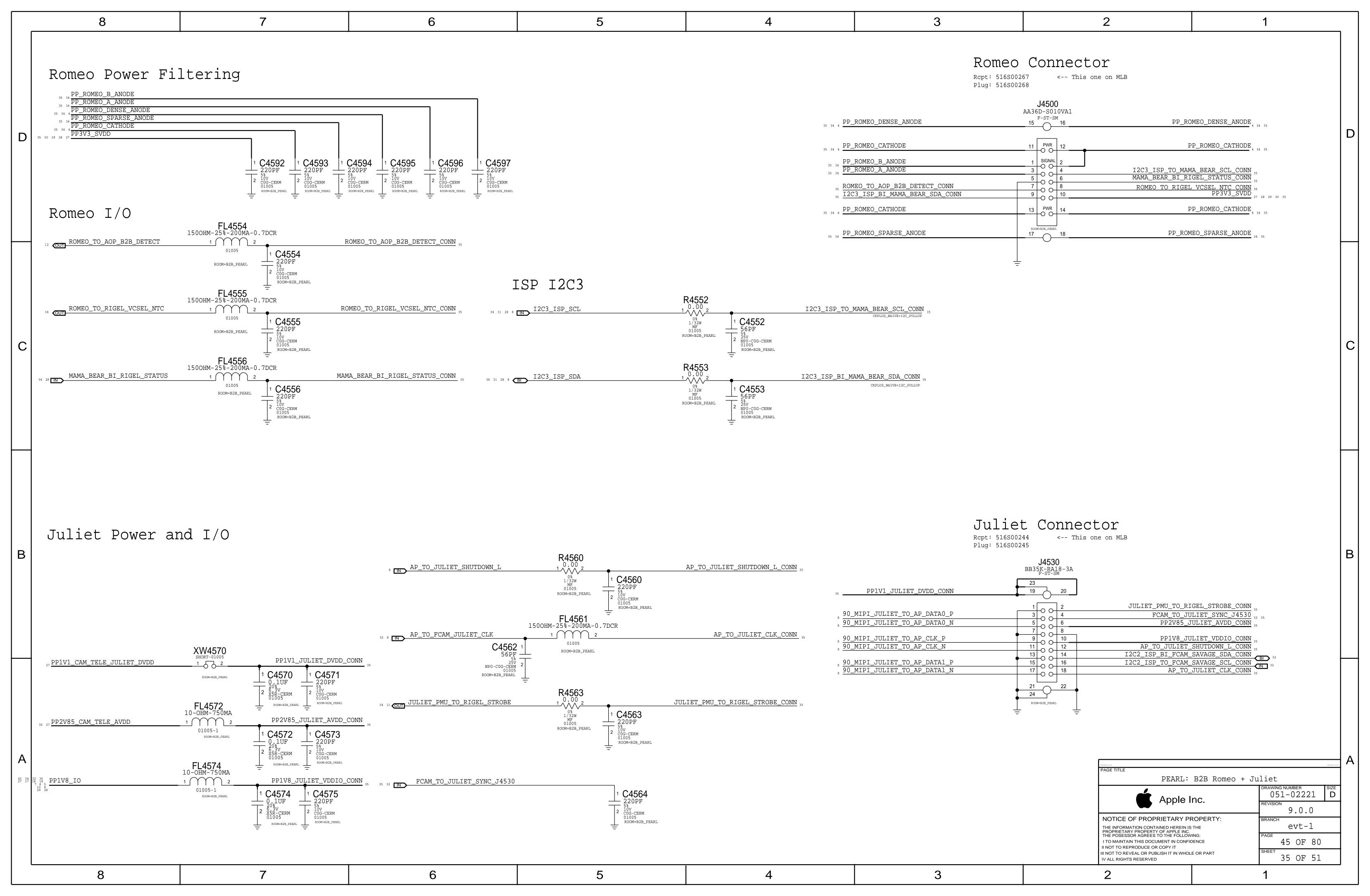


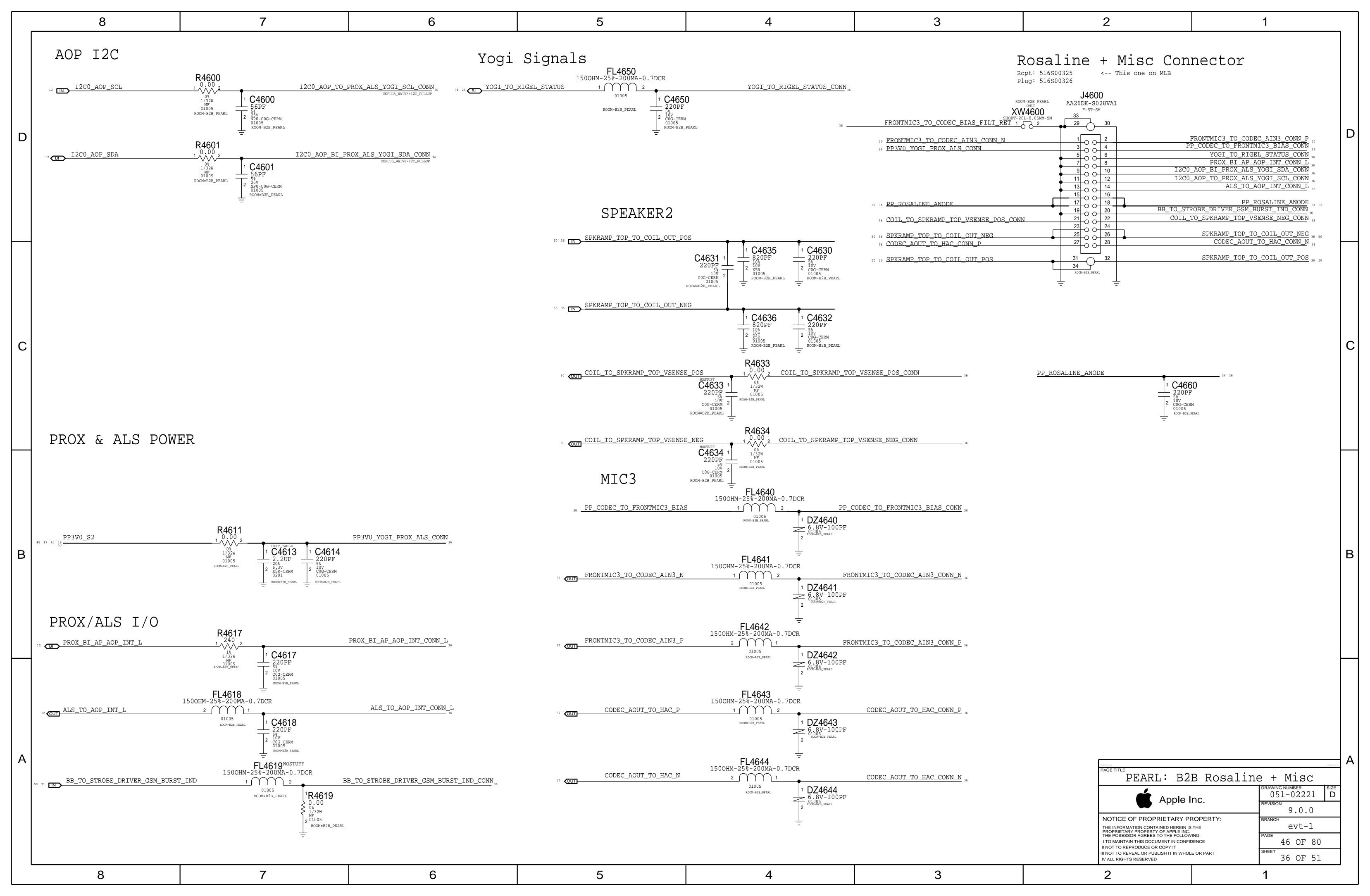


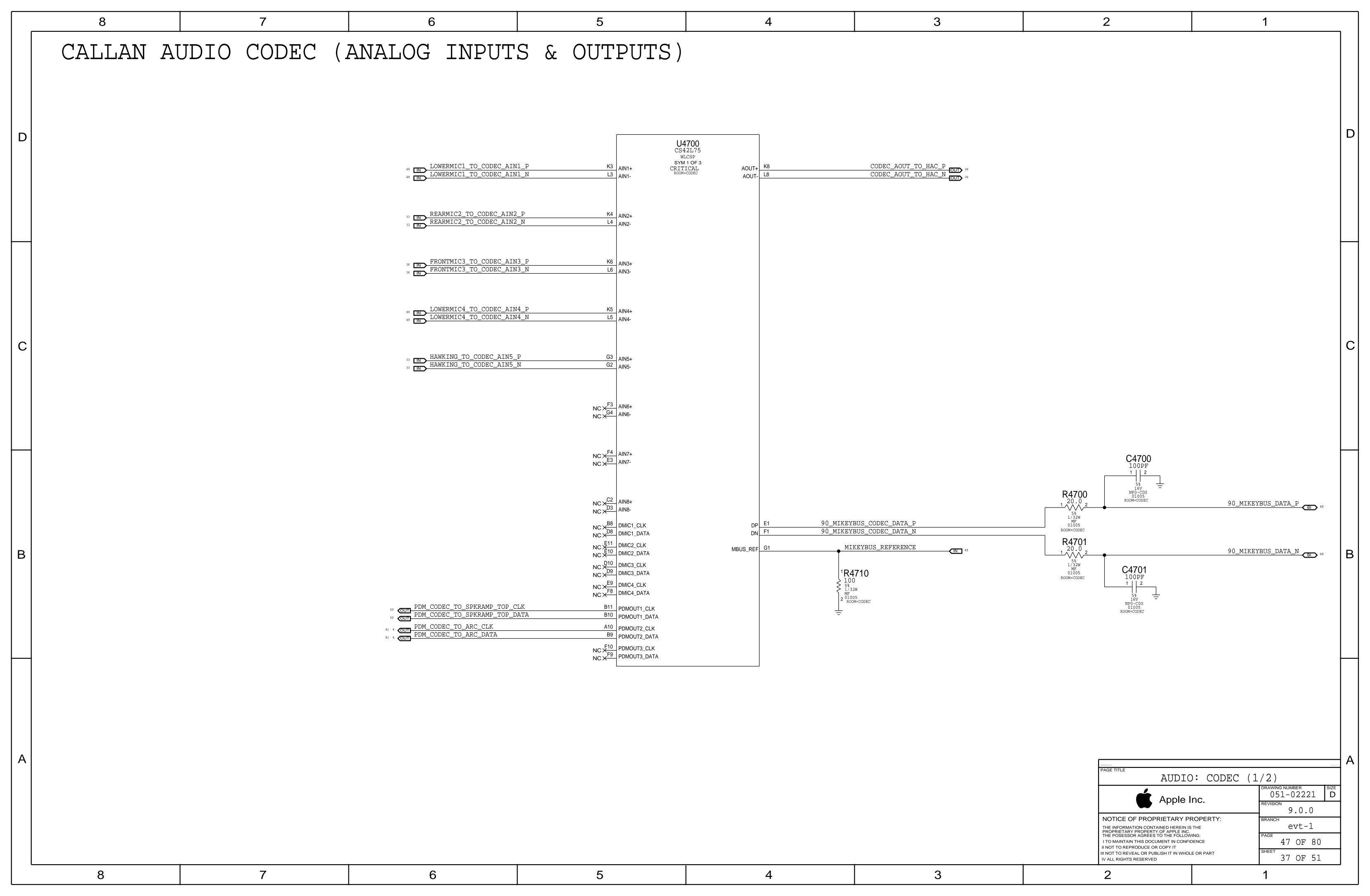


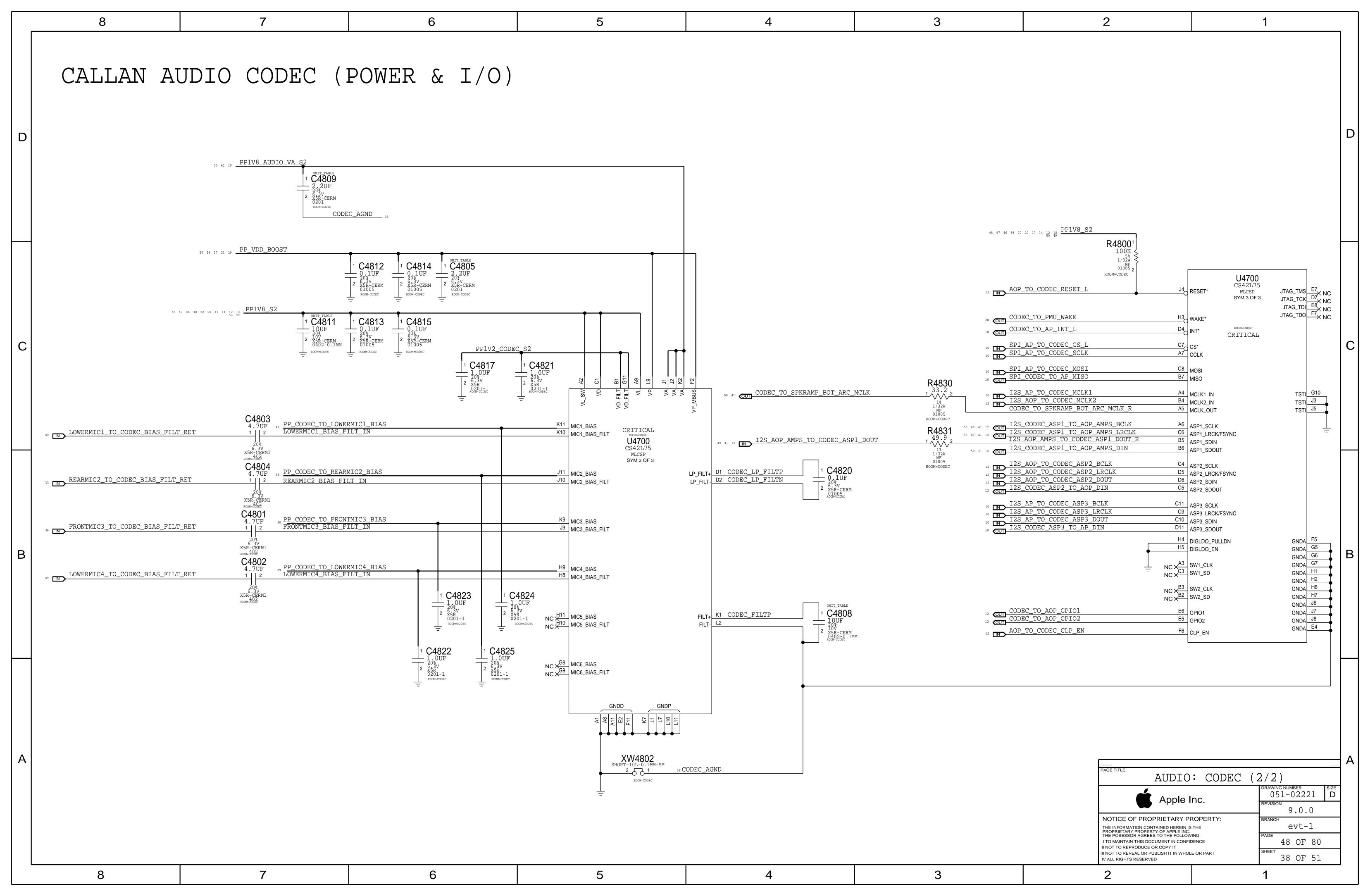


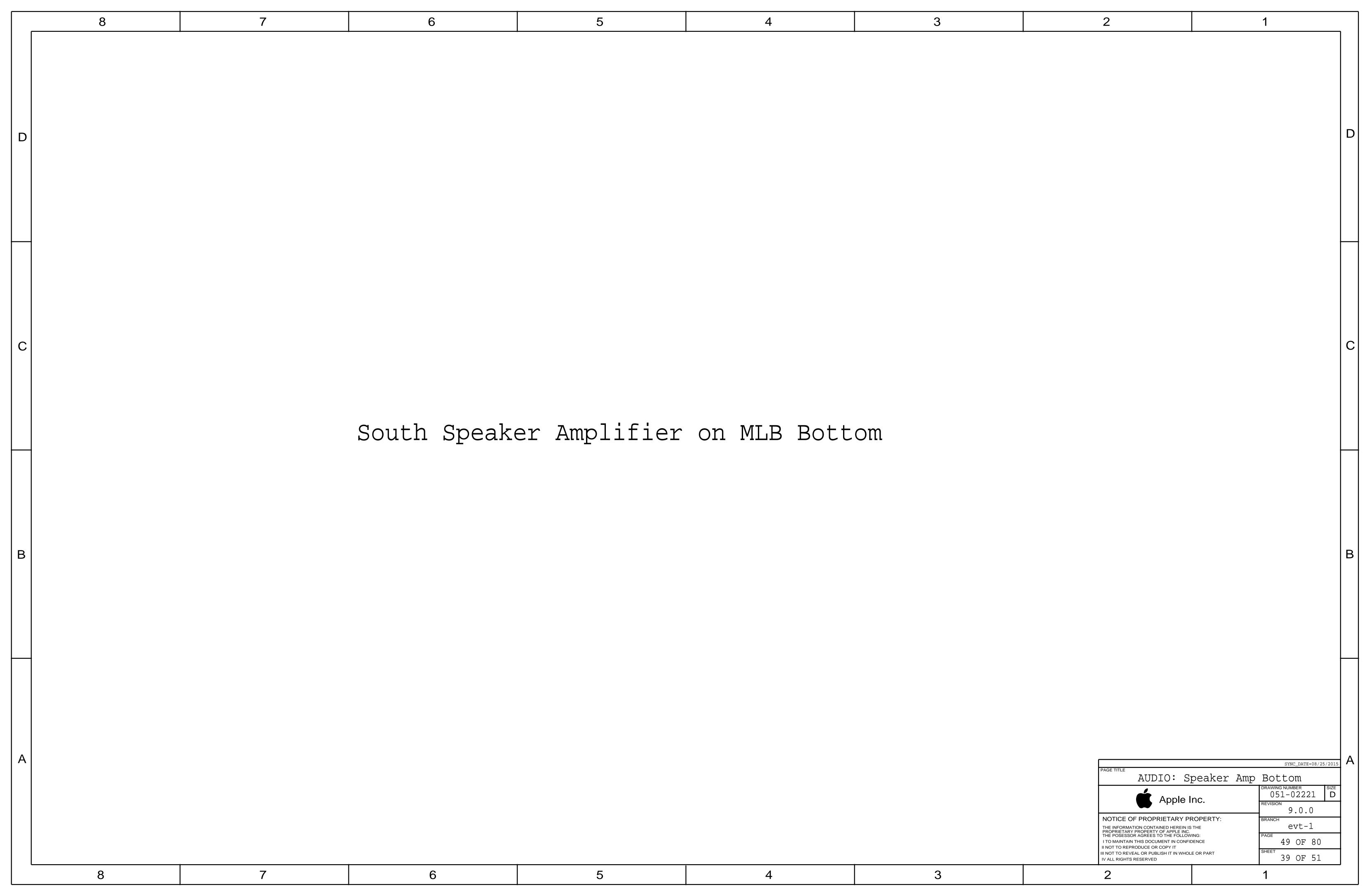


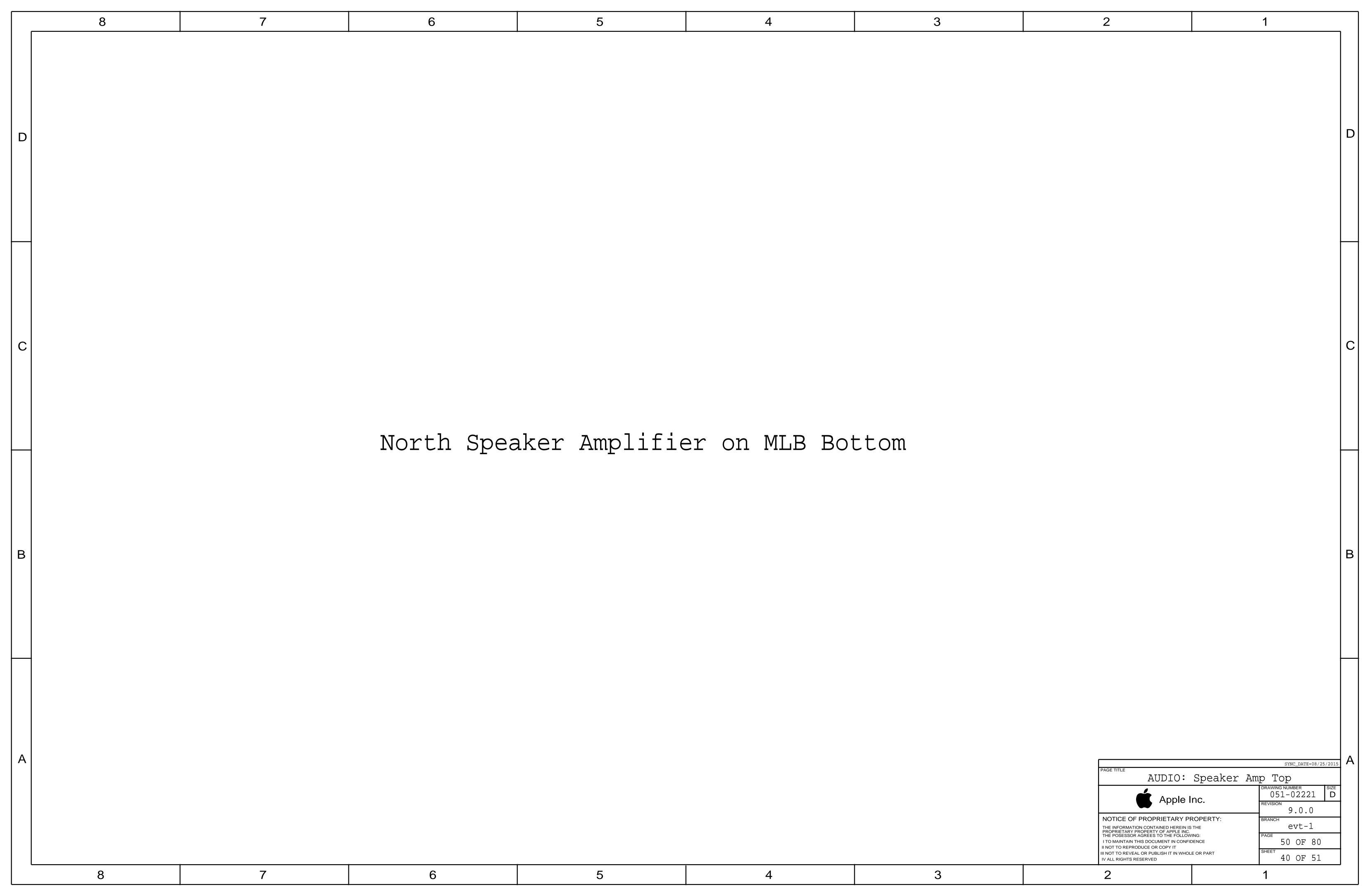


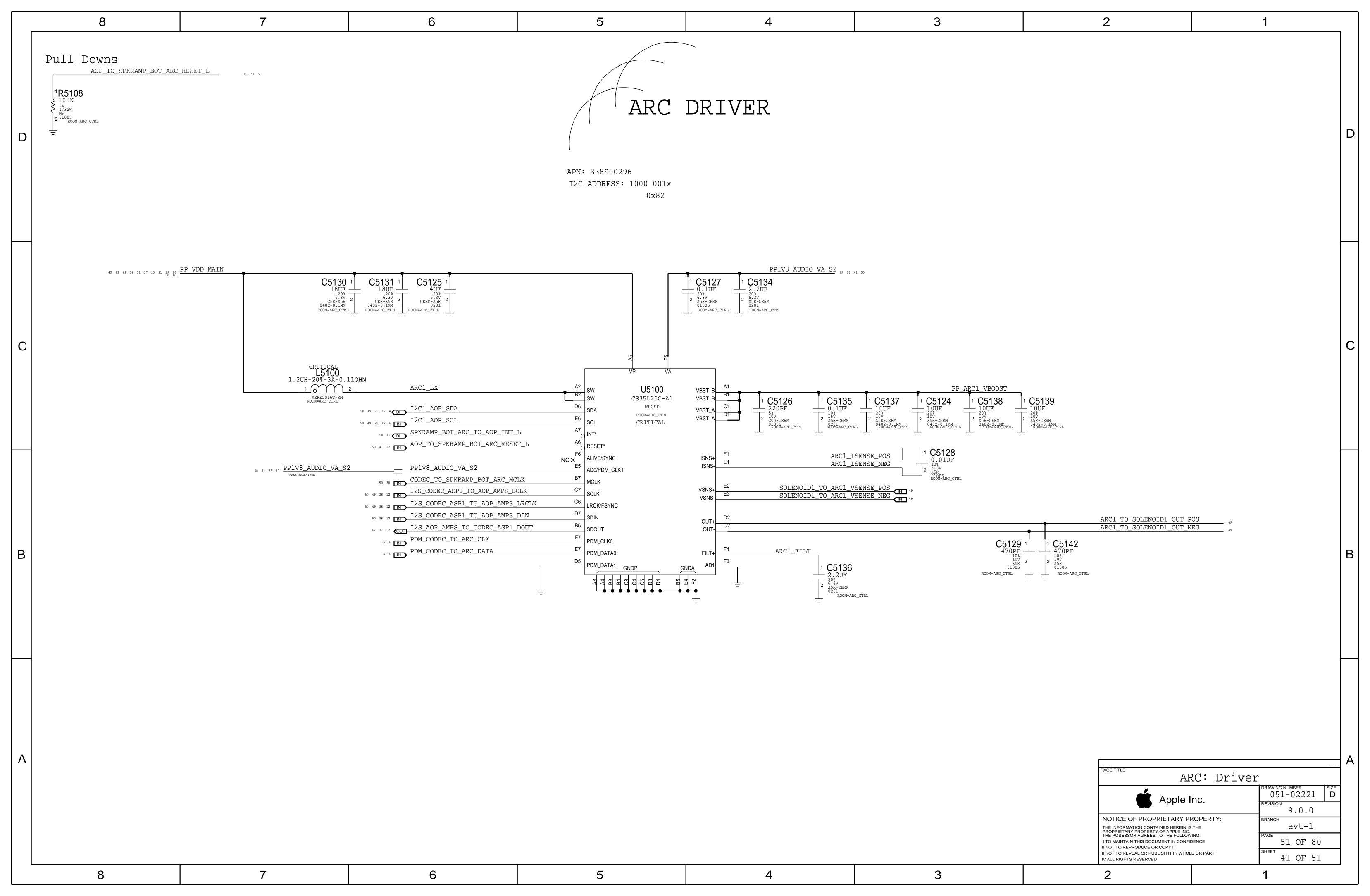


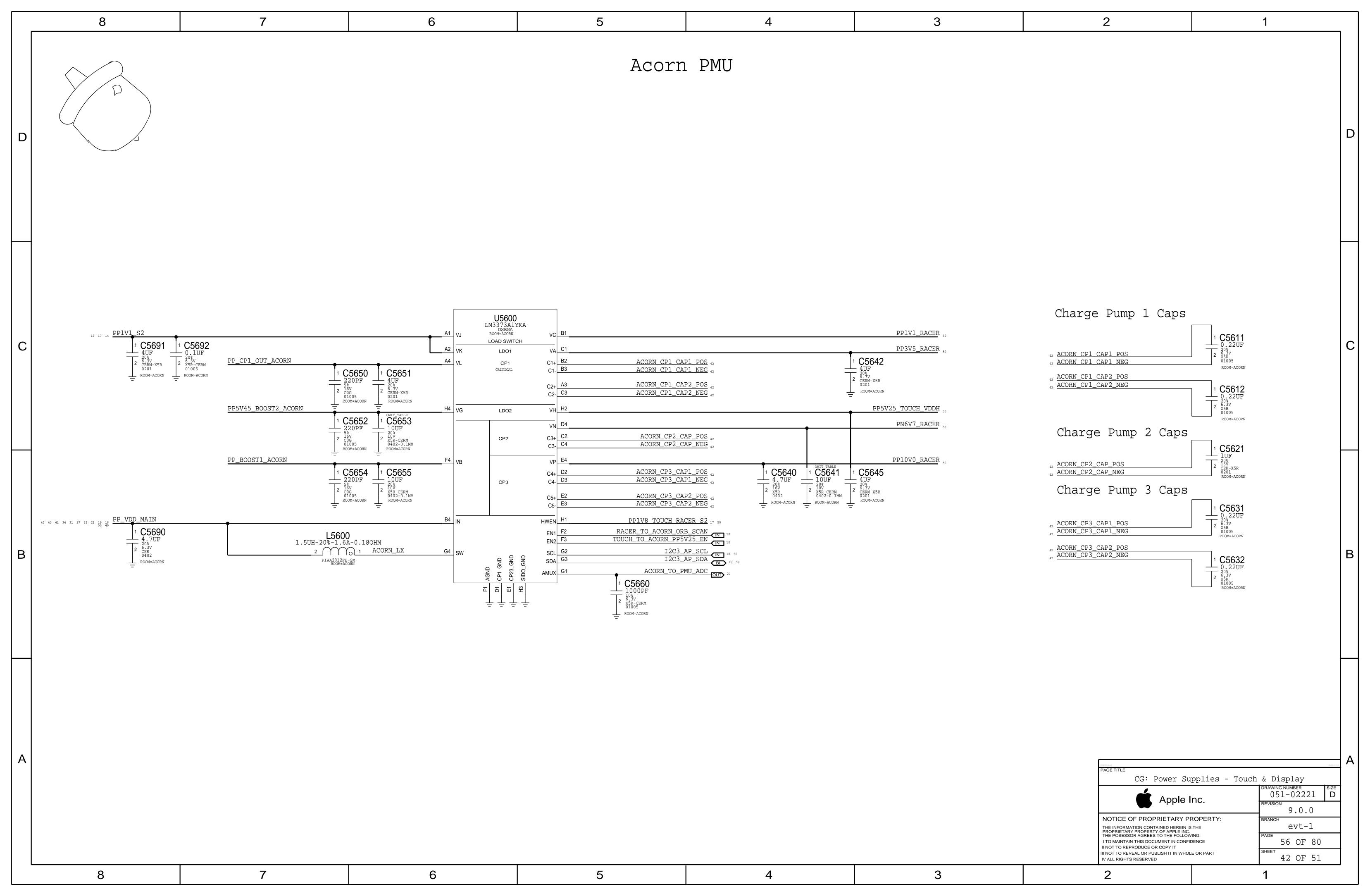


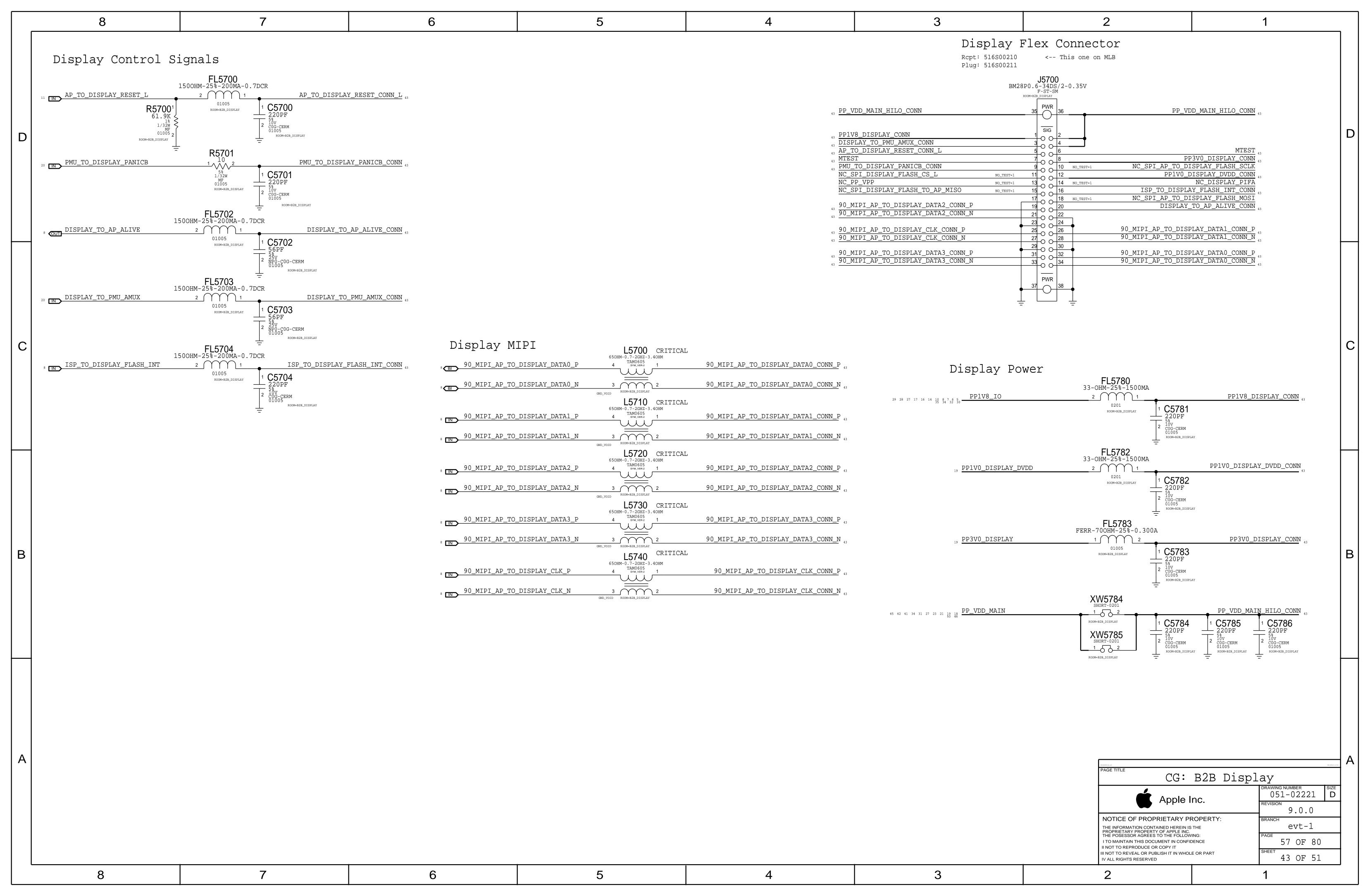


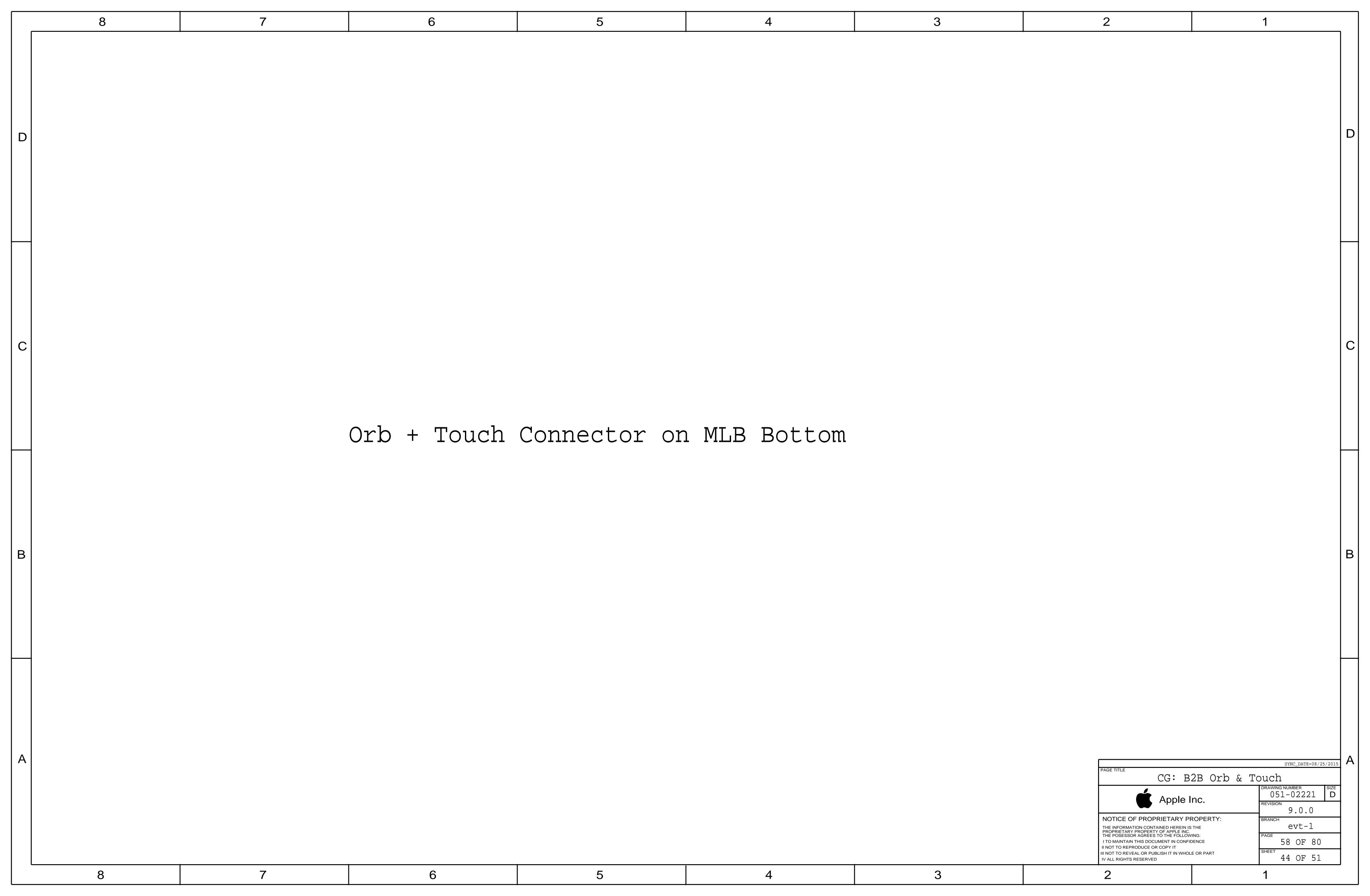


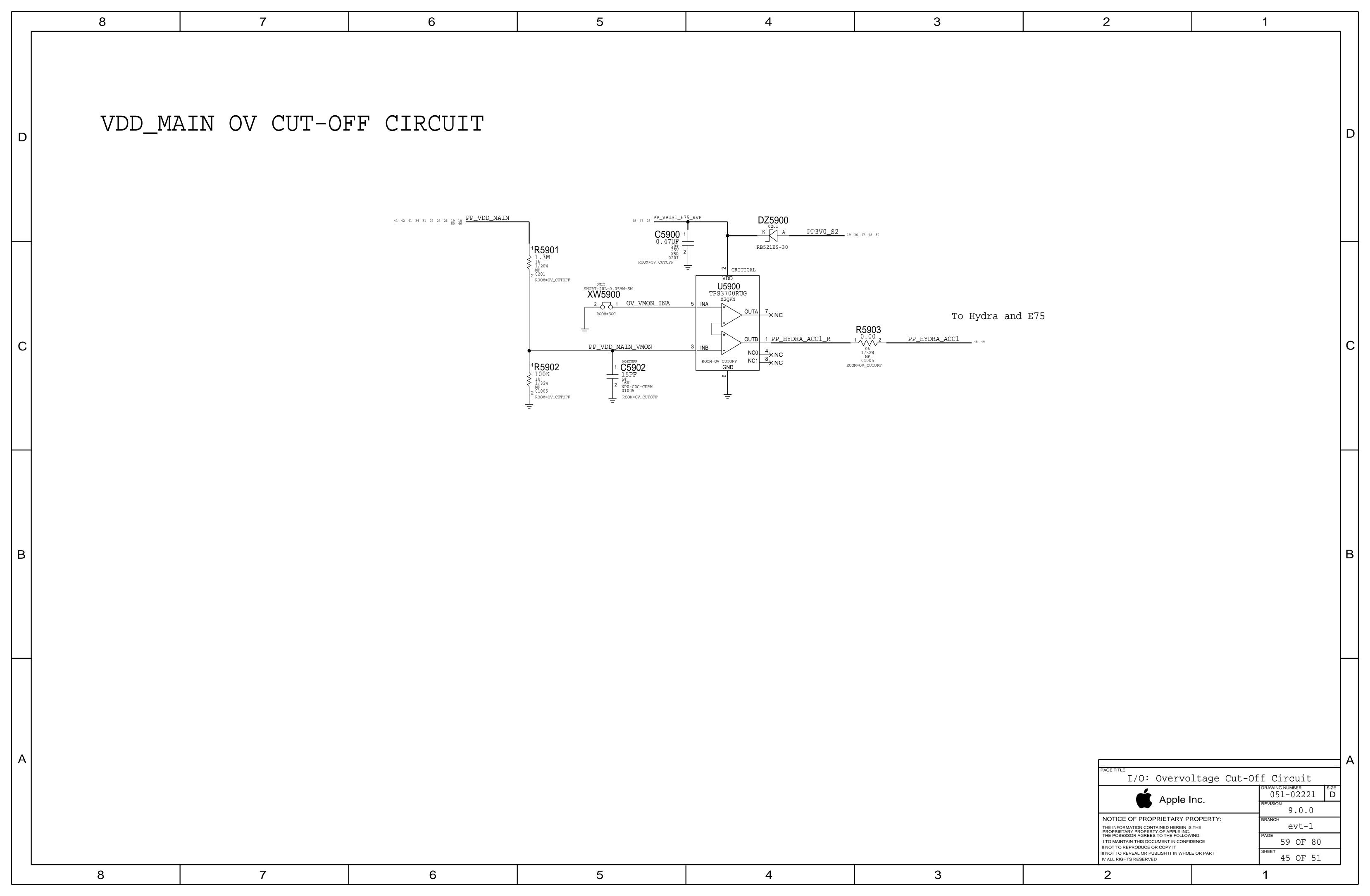


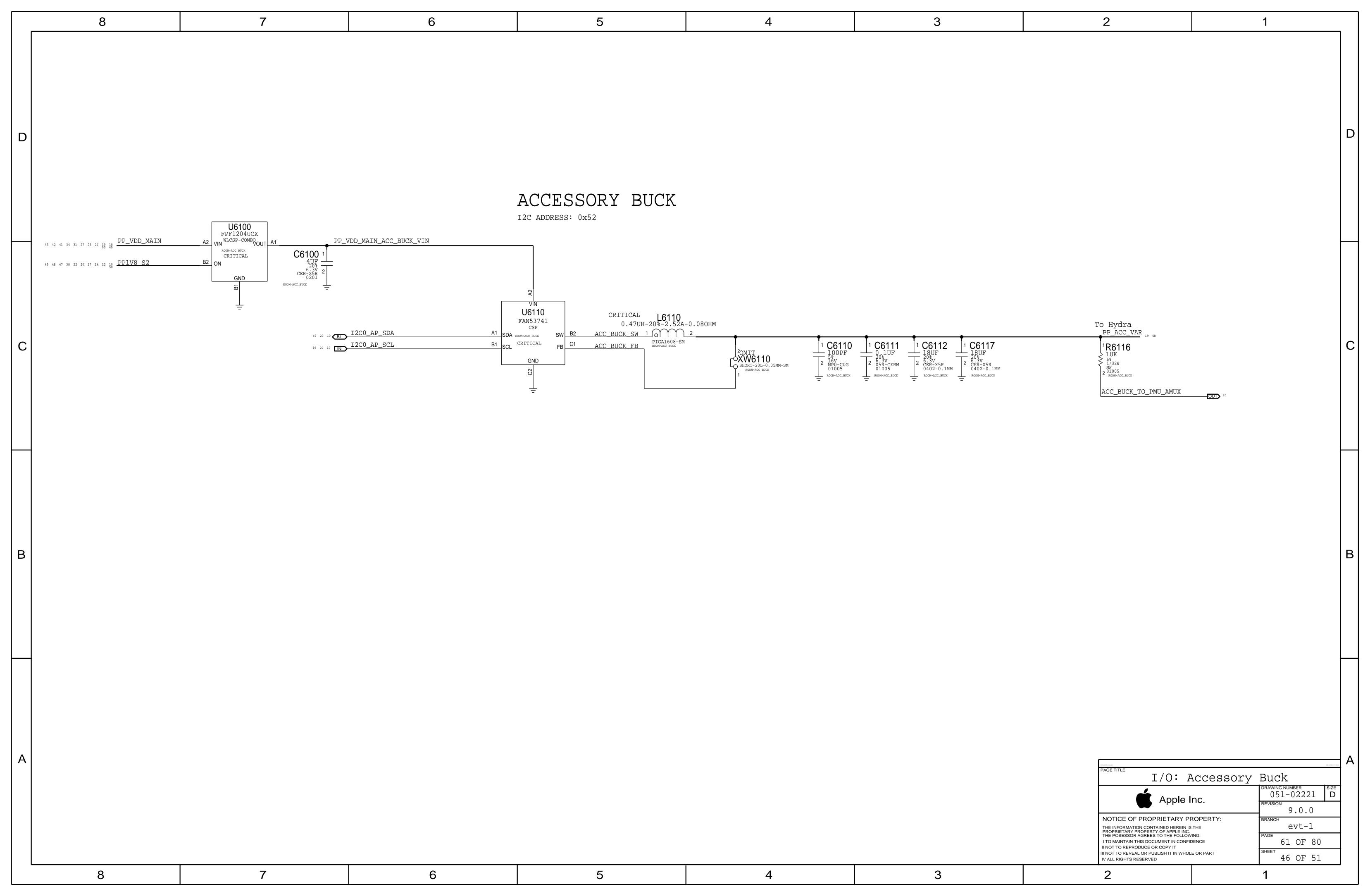


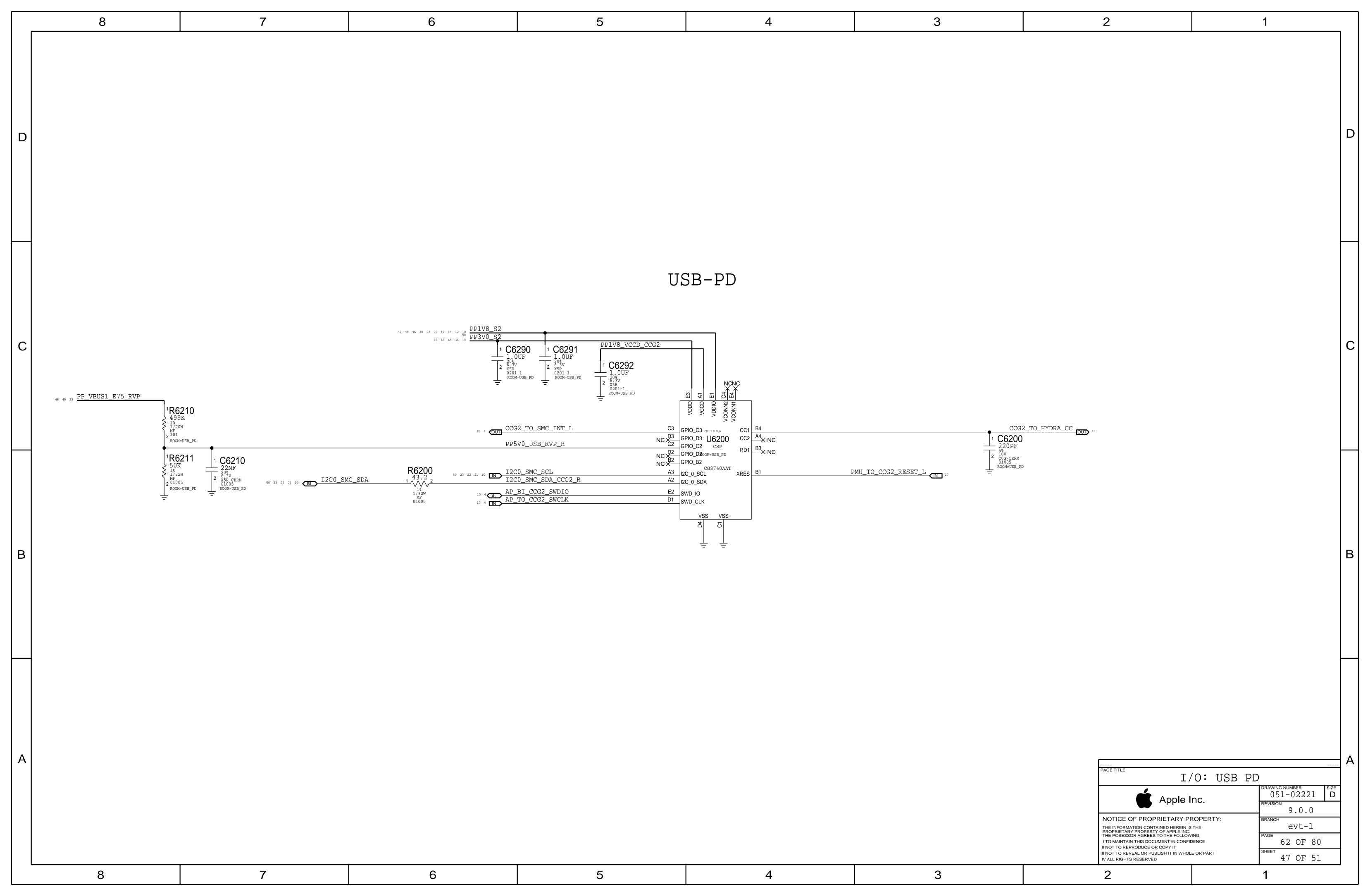


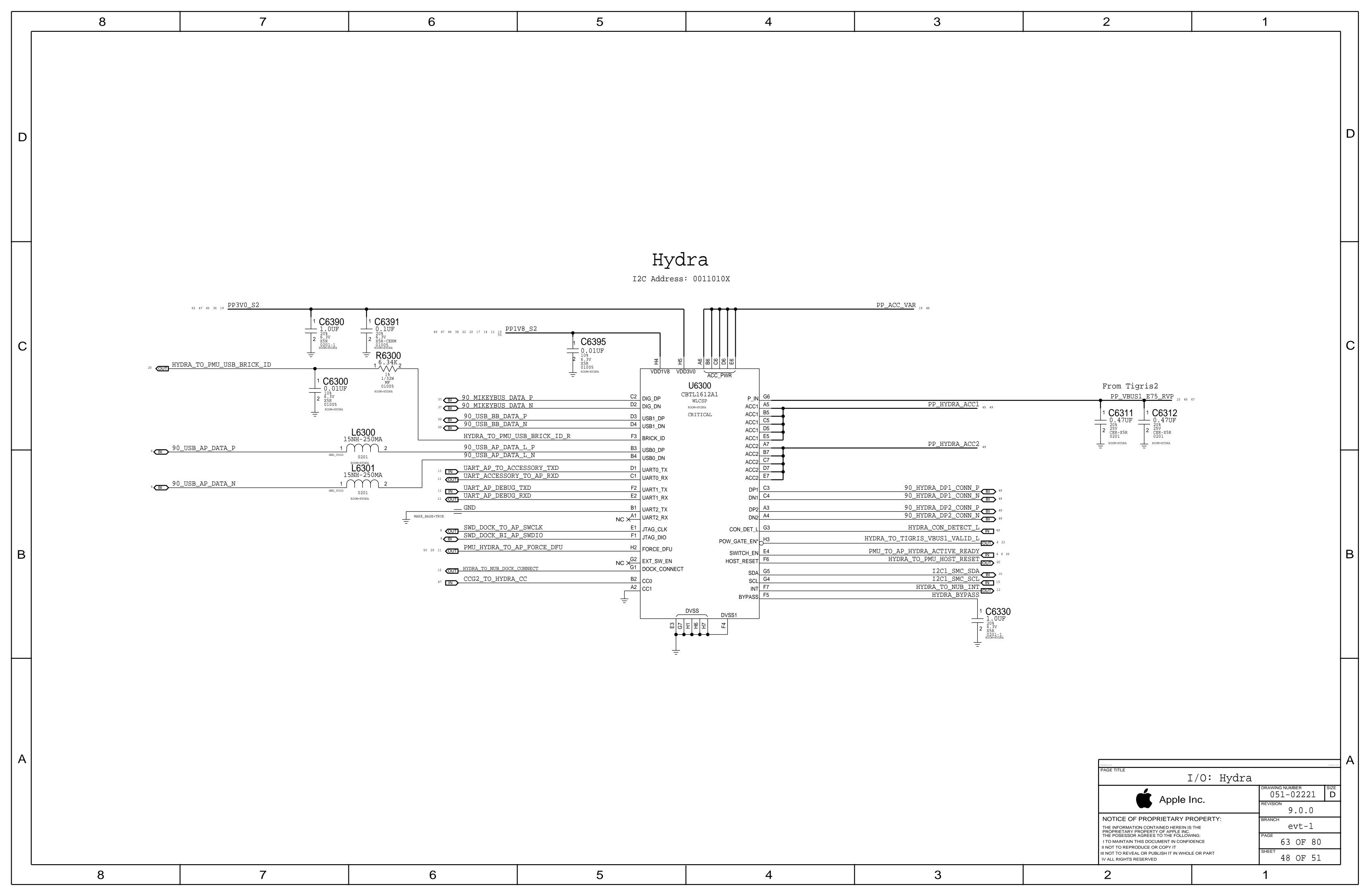


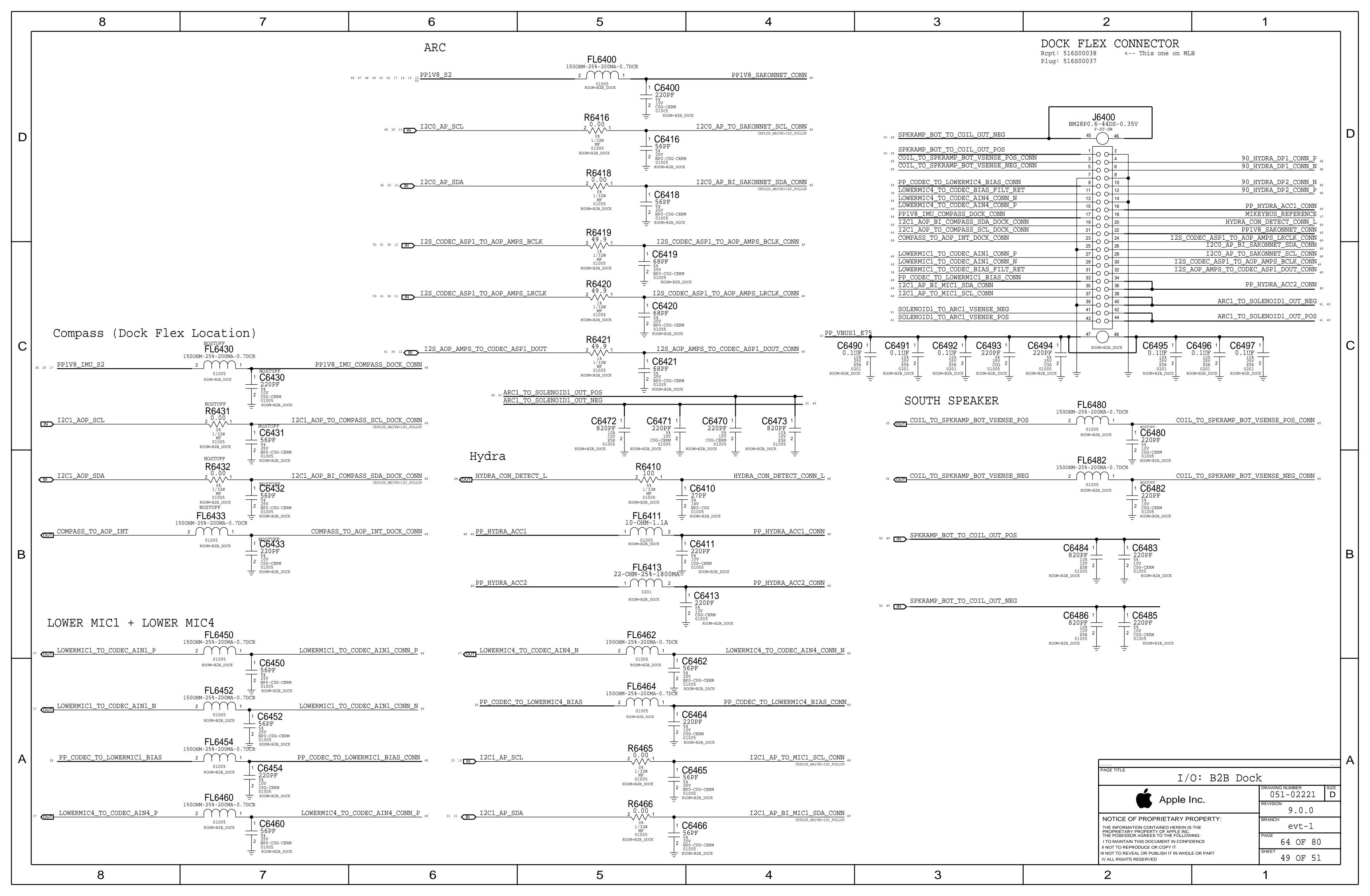


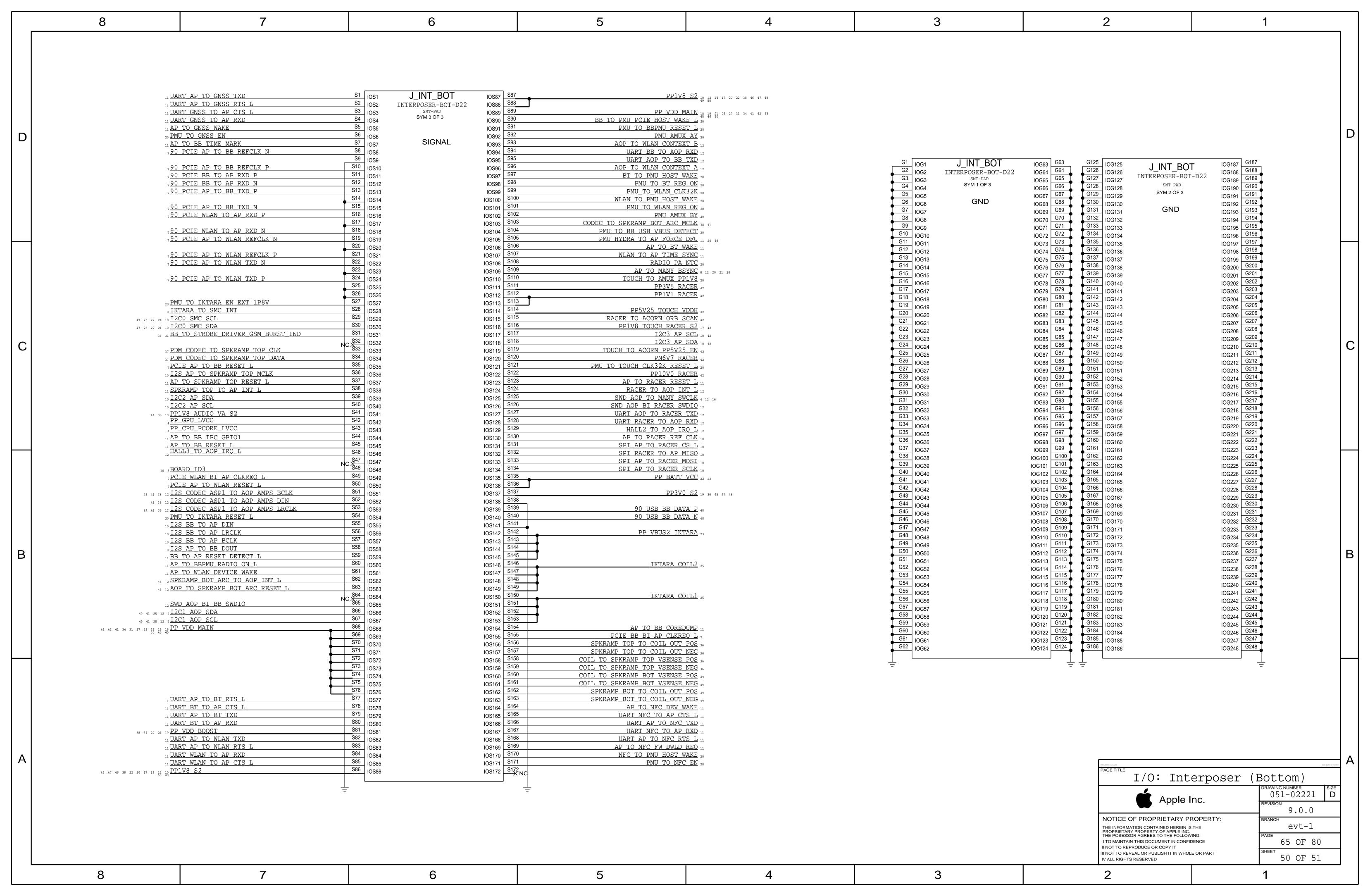






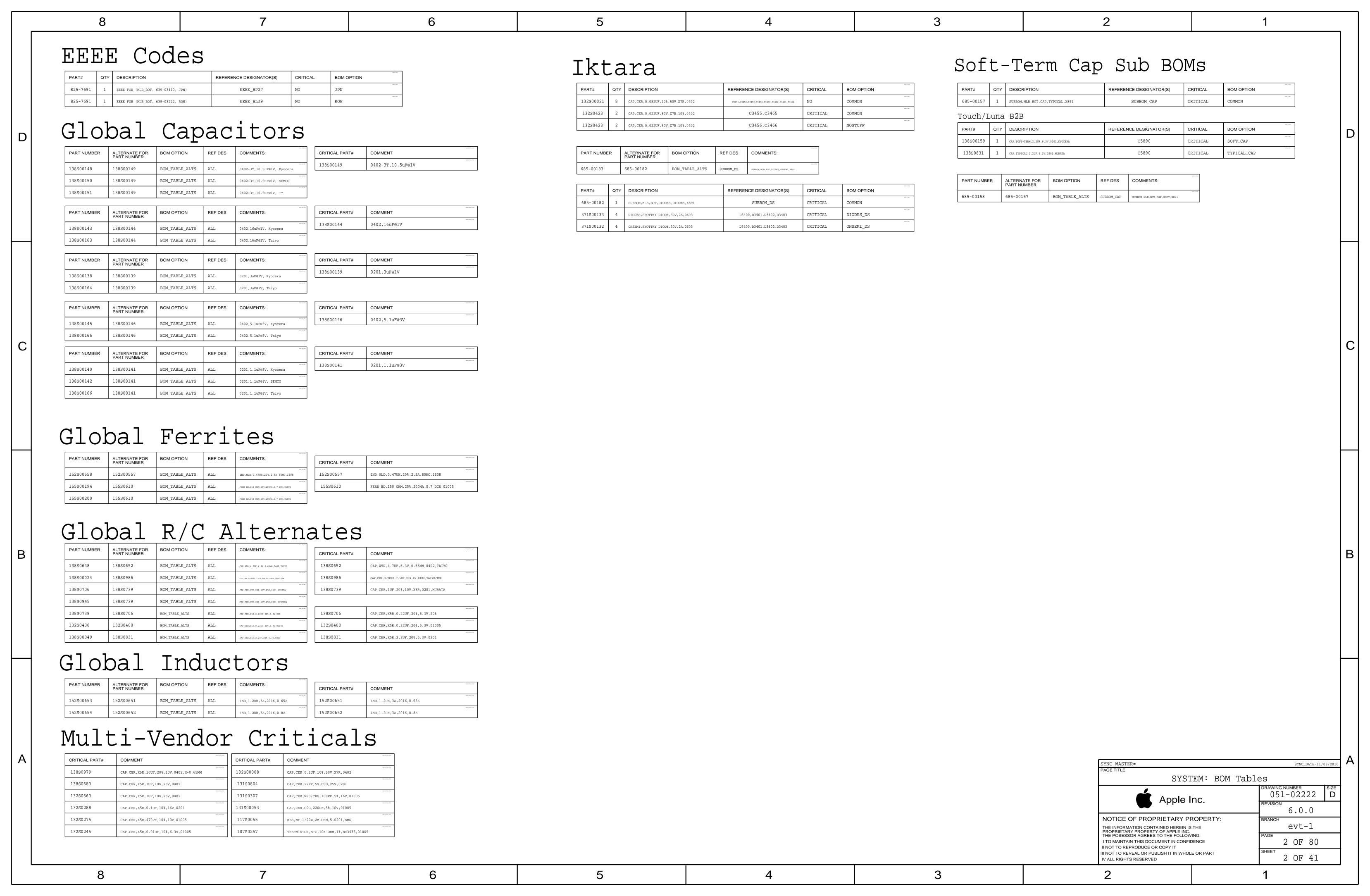


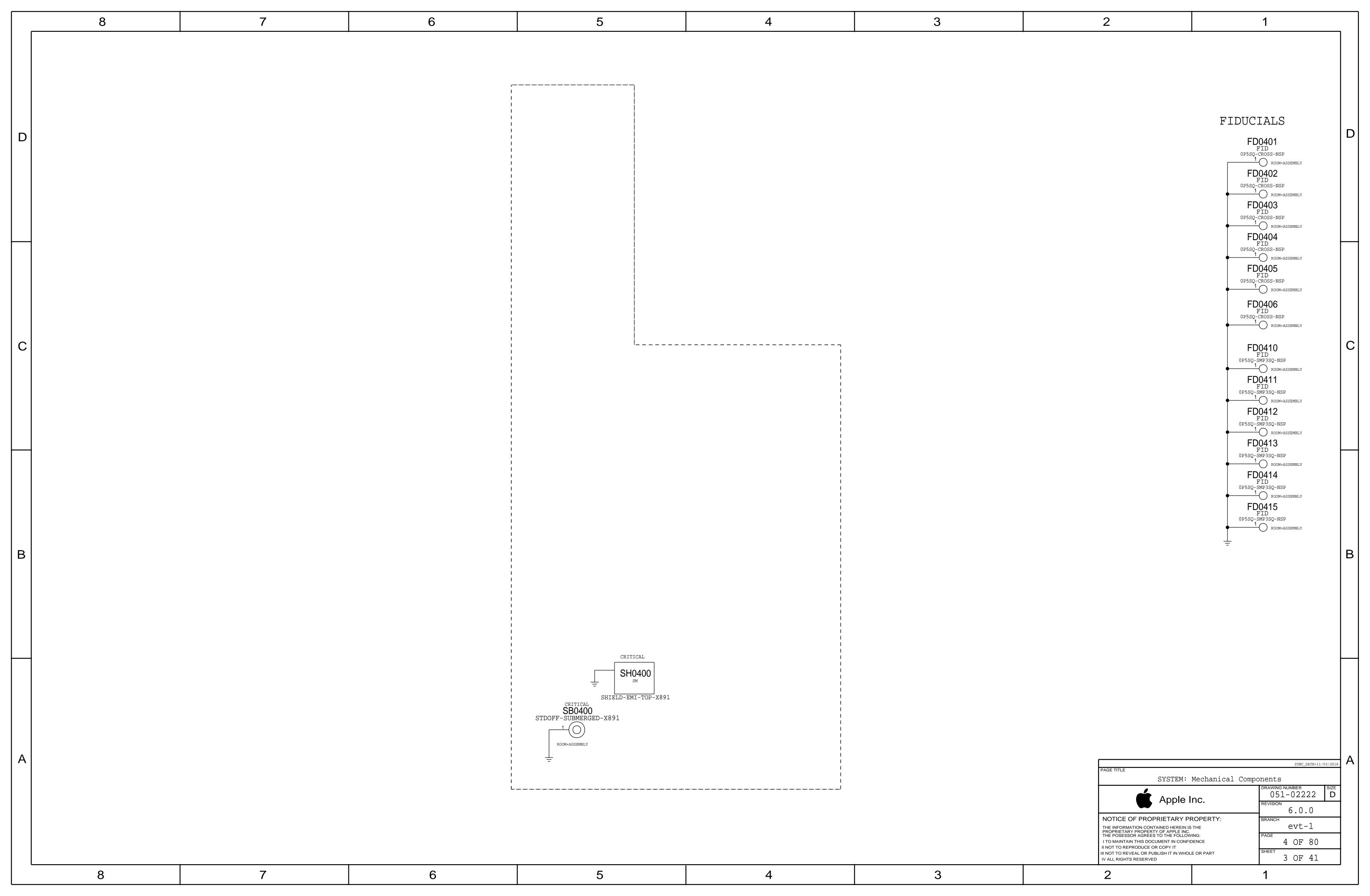


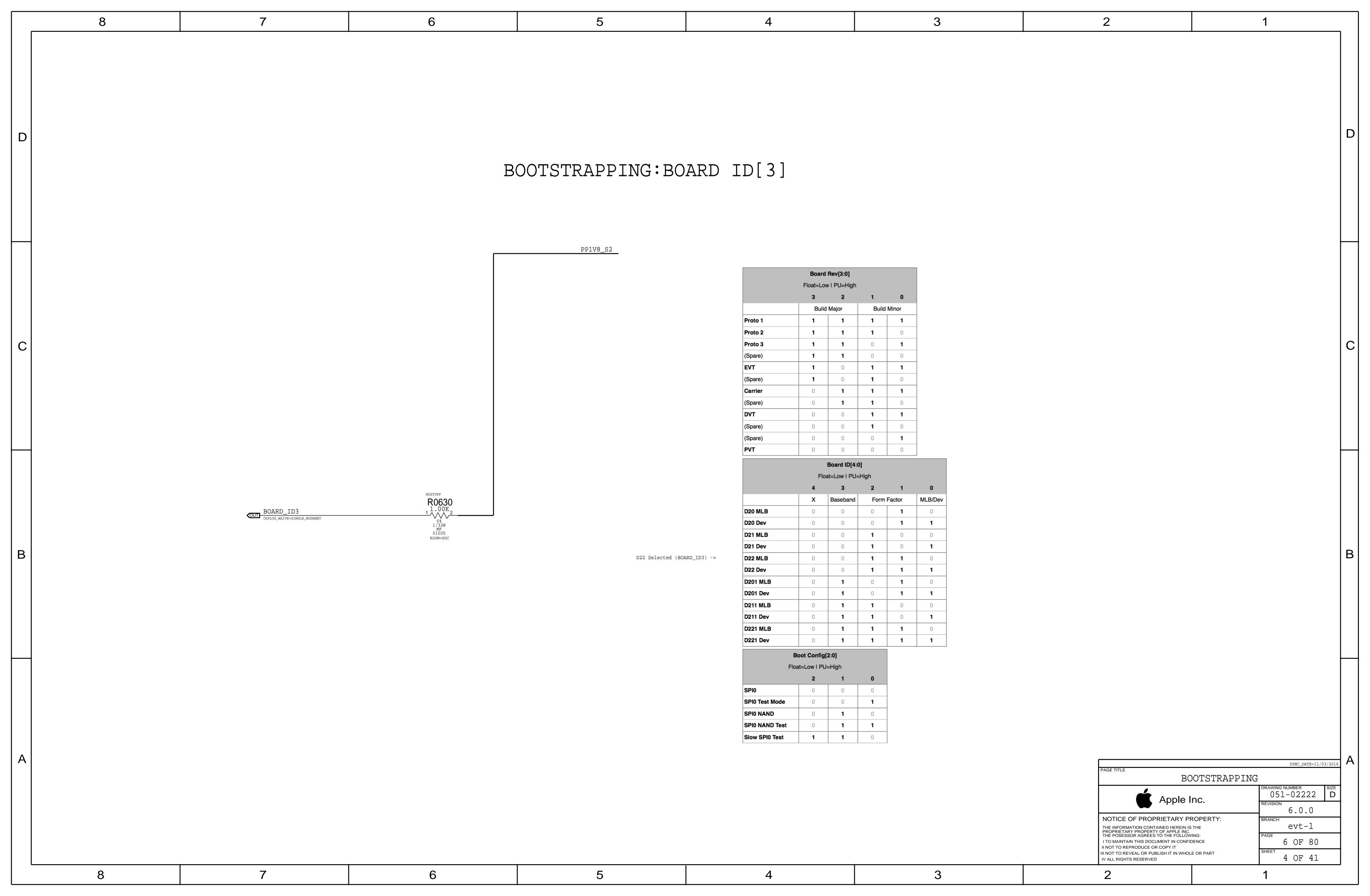


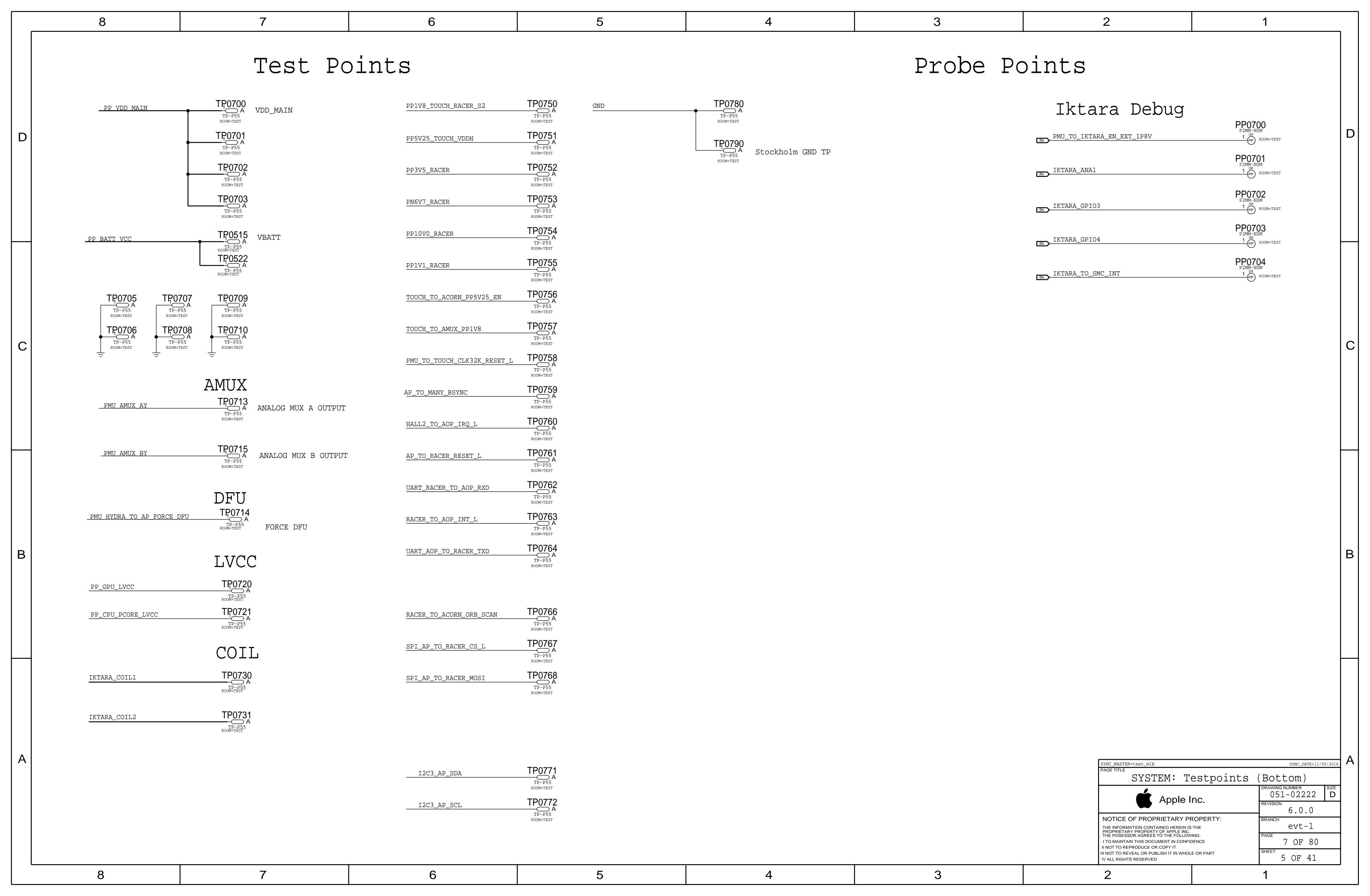


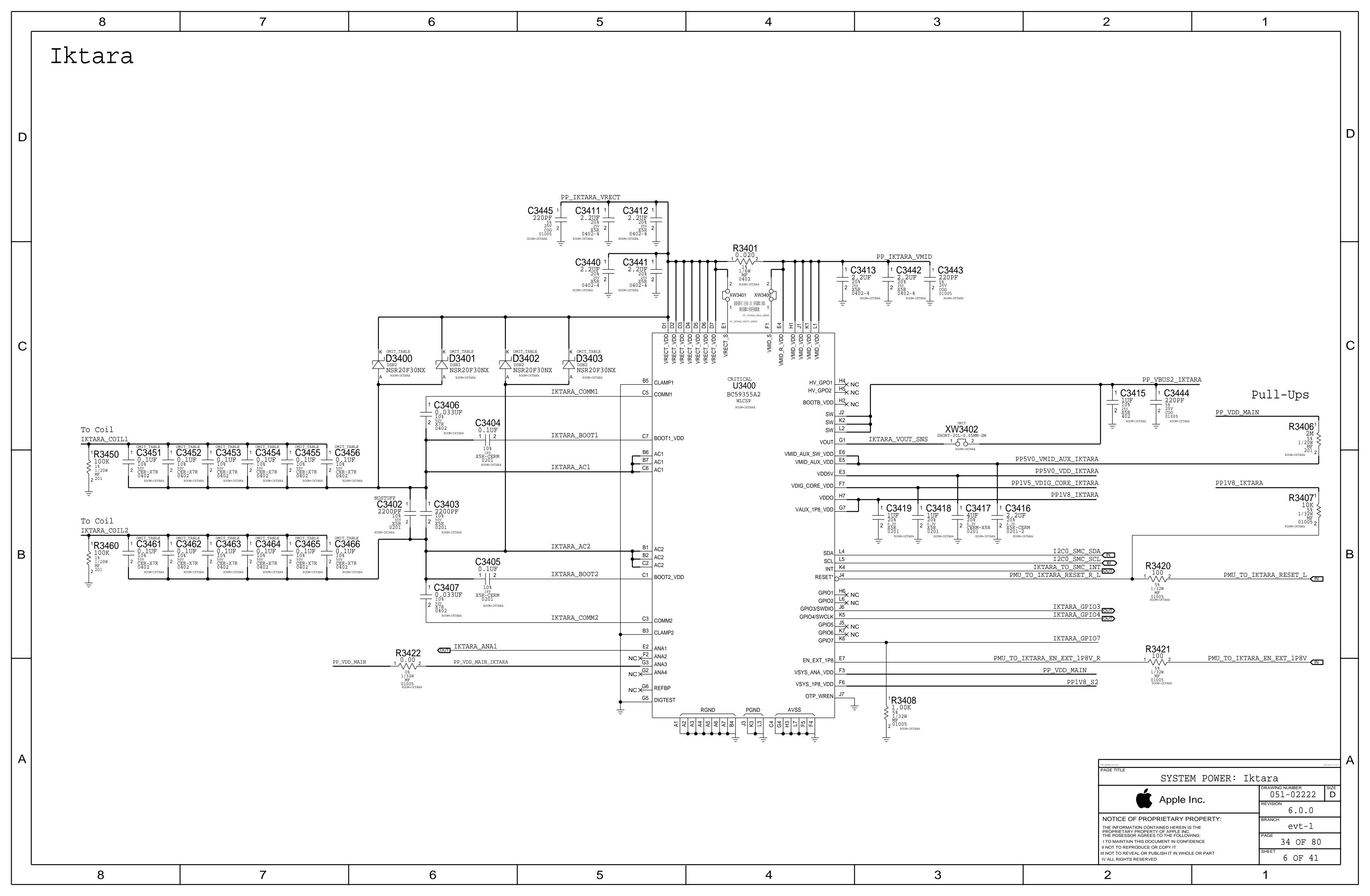
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| | 1. ALL RESISTANCE VALUES ARE IN OHMS, 0.1 | WATT +/- 5%. | | <u> </u> | | | | | REV | ECN | DESCRIPTION OF REVISION | CK APPD | |
| | 2. ALL CAPACITANCE VALUES ARE IN MICROFA 3. ALL CRYSTALS & OSCILLATOR VALUES ARE | | | | | | | | 6 | | ENGINEERING RELEASED | DATE 2017-04-06 | |
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| D | | PAGE CSA (| | SYNC | DATE | PAGE CSA CONTENTS | | SYNC | DATE | ≣ | | | |
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| | | | BB: POWER BB: CONTROL & HS PERIPHERALS | | _ | | | | | | | | |
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| | | 21 9 2 | XCVR | | | | | | | | | | |
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| в | | | SIM, EUICC, DEBUG CONN | SIM TRAY | 07/05/2016 | | | | | | | | В |
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| | | | page1 NFC | | | | | | | | | | |
| | | 39 1 5 | SymbolPorts | | 01/20/0014 | | | | | | | | |
| | | | Guinness WiFiANTFeeds | WIFI | 01/30/2014 | | | | | | | | |
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| A | BOM:639-03222 (ROW) BOM:639-03410 (JPN) | | | | | Sub Desigr | 1S | | | TITLE | TABLE OF CONTENTS | | $\mid A \mid$ |
| | | | | | ſ | SOURCE PROJECT SUB-DESIGN NAME | | SYNC_DATE/TIME | ¬ | • | H, MLB, BOT, X891 | G NUMBER SIZE D | |
| | MCO:056-0407 | | THE COMMAND | | - | D22 RADIO_MLB | 0.149.0 S | 2017_04_05_18:45:19 | | | PIE ITIC. | | |
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| | 820-00864 1 PCB,MLB_BOT,X891 | PCB NO | COMMON | | | • | , | | I TO MAI II NOT TO III NOT TO | NTAIN THIS DOCUMENT I REPRODUCE OR COPY REVEAL OR PUBLISH IT | N CONFIDENCE IT | 1 OF 80 | |
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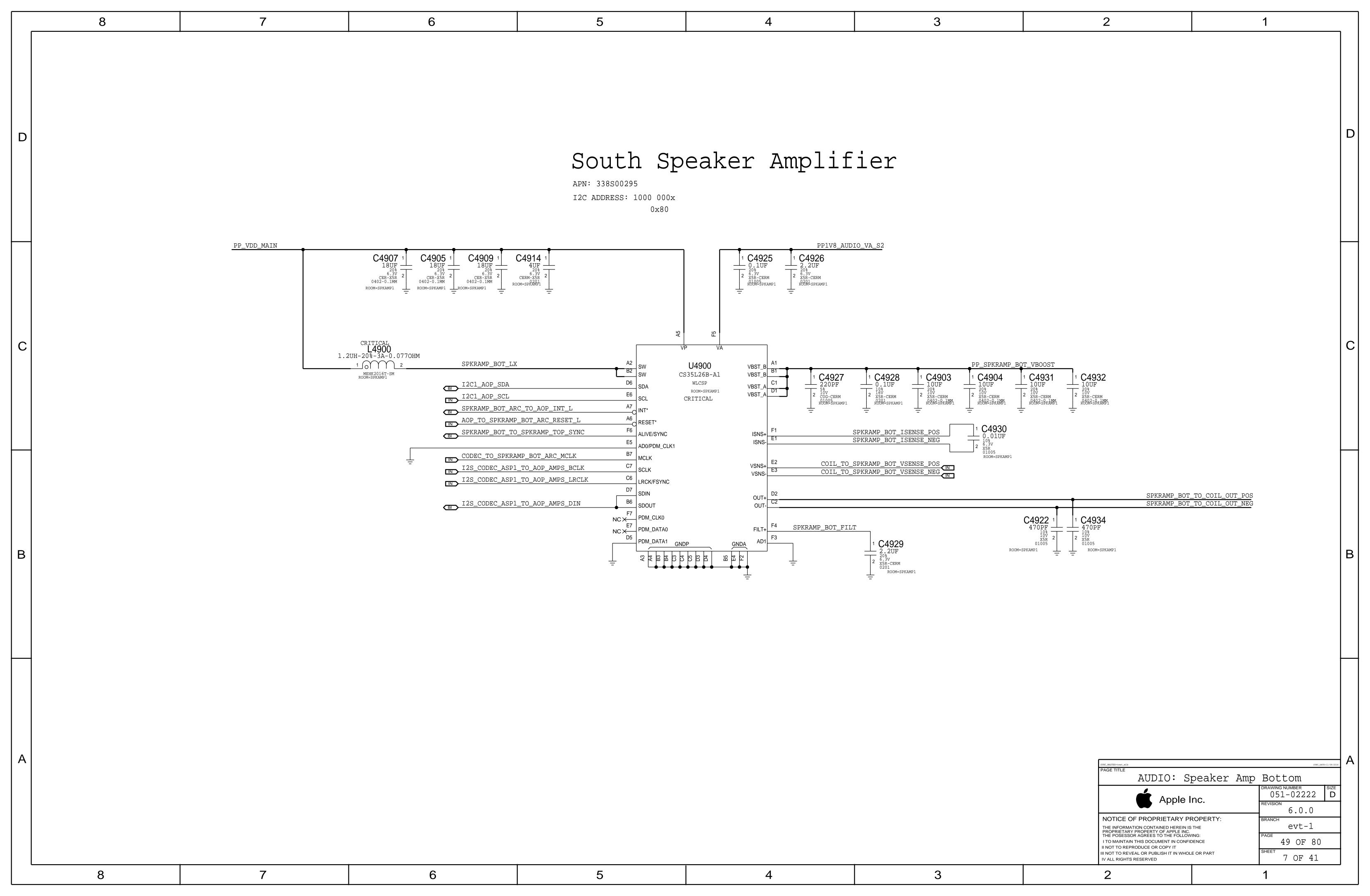


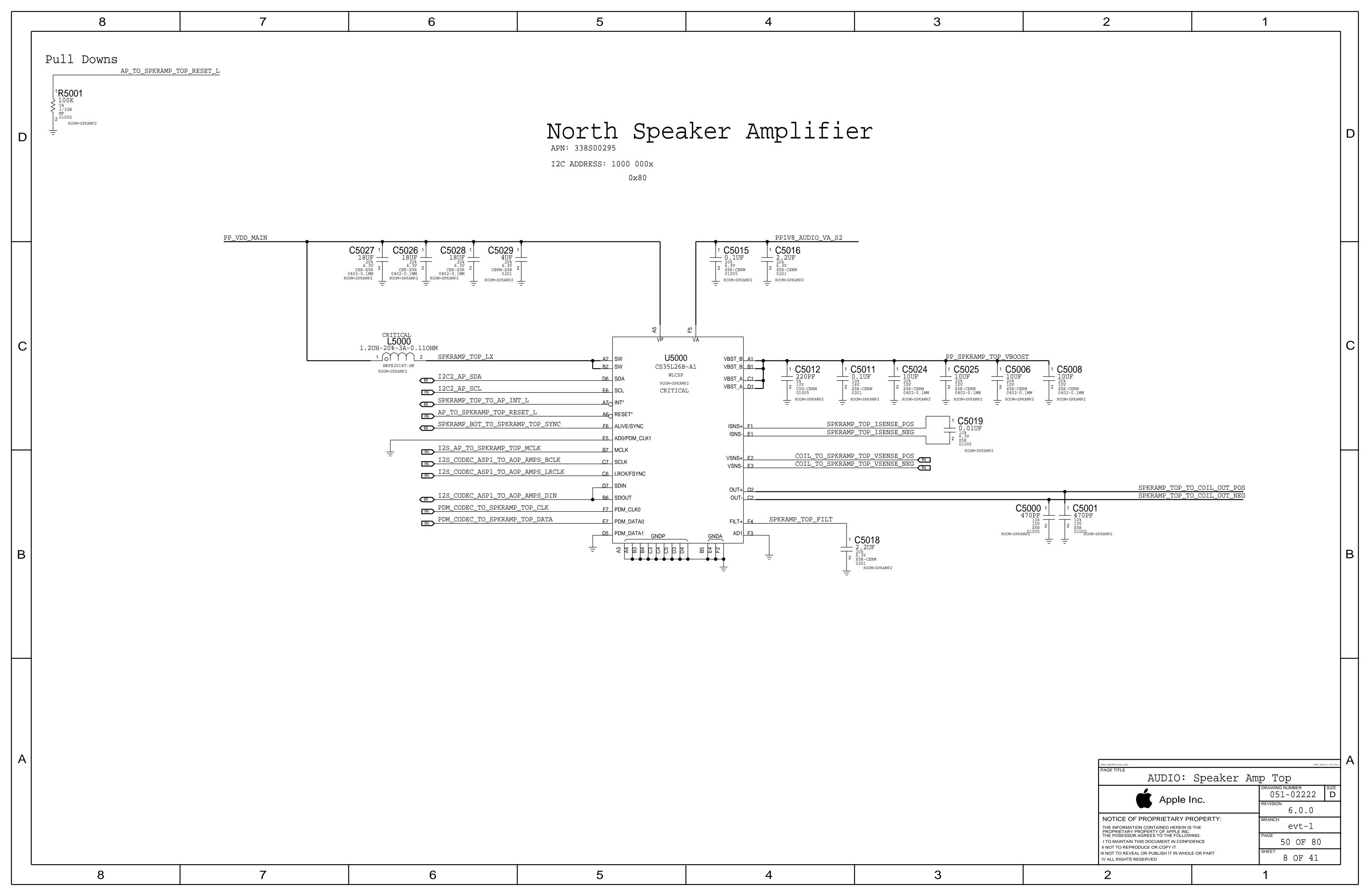


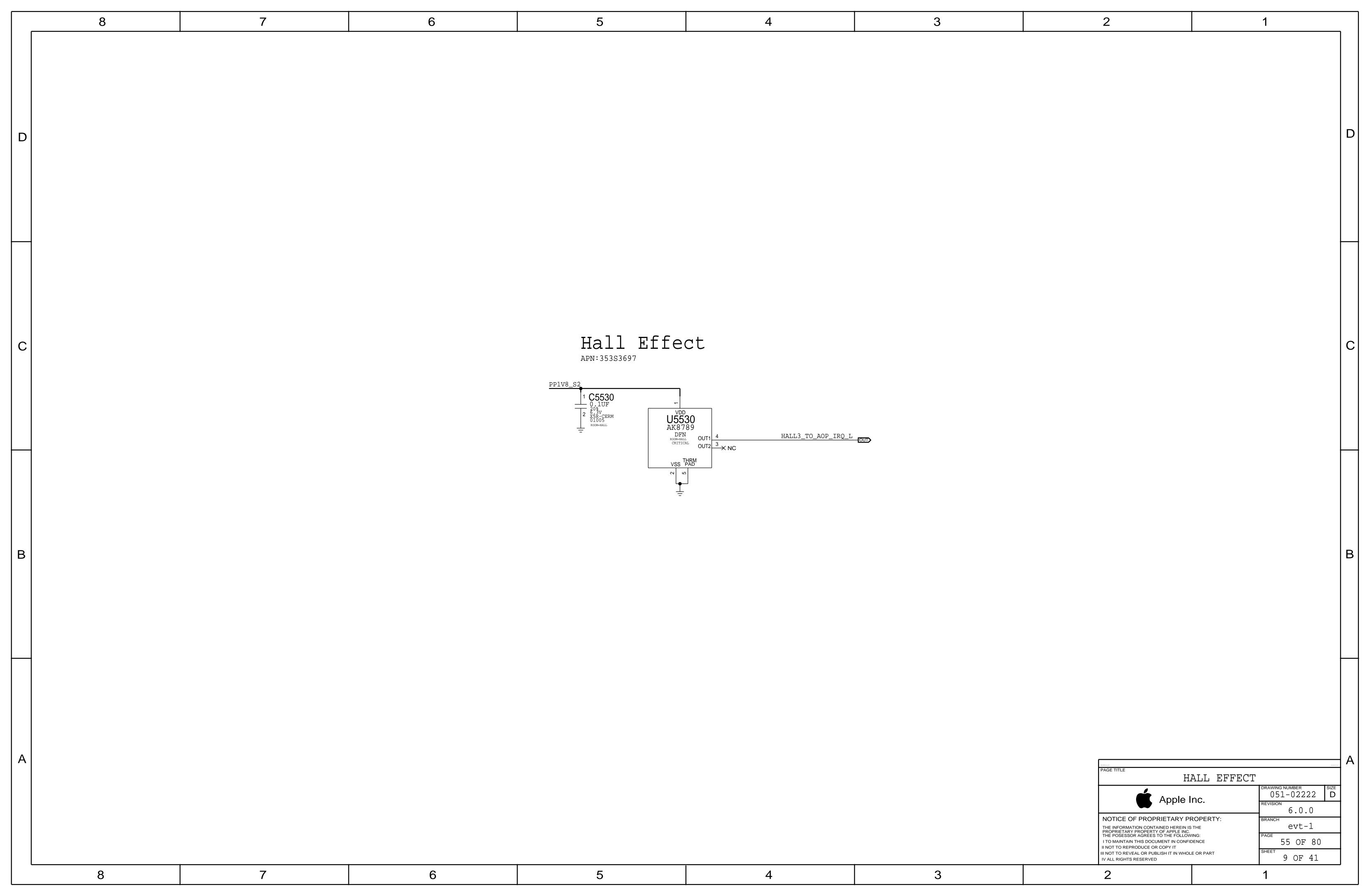


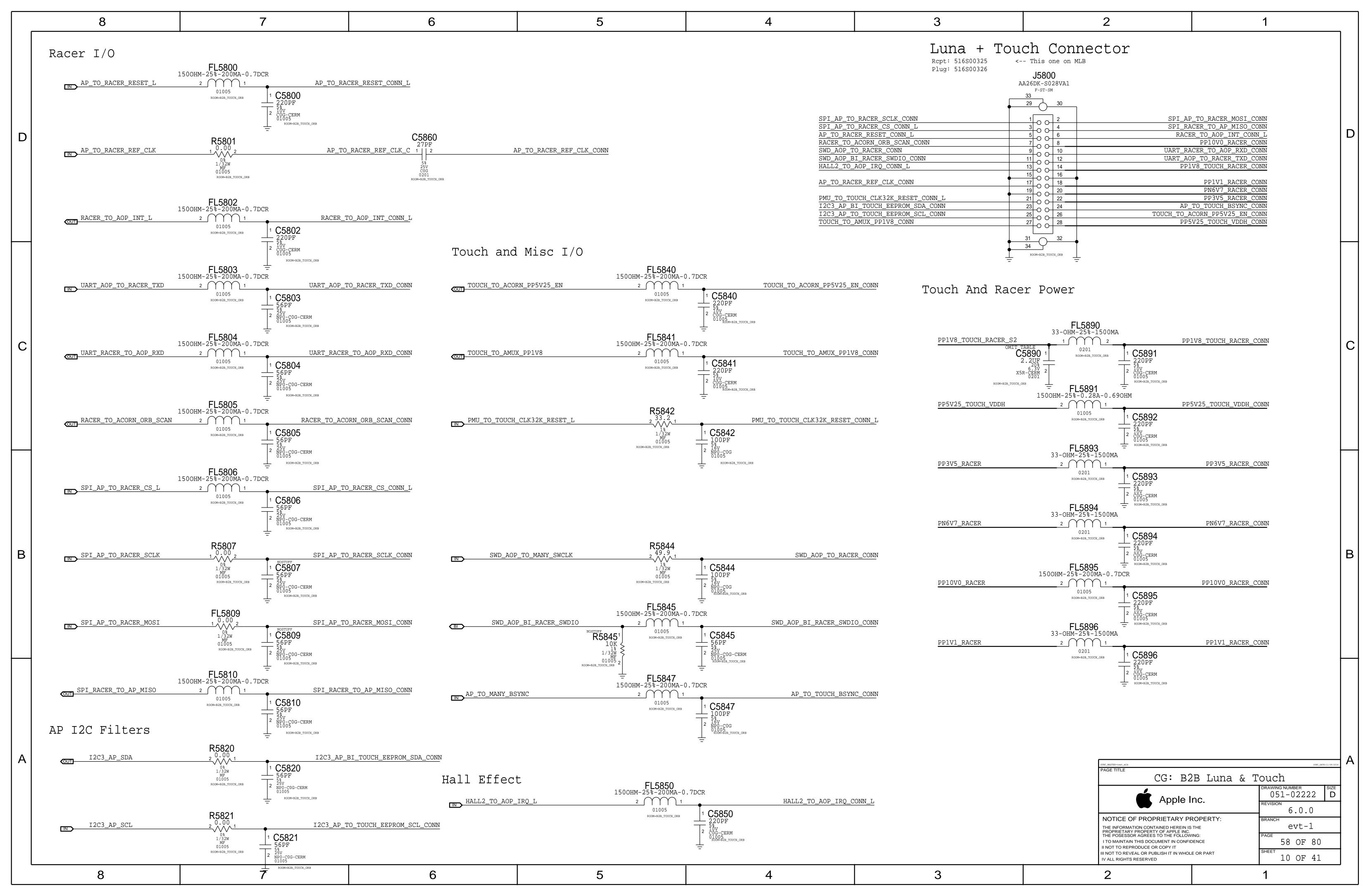


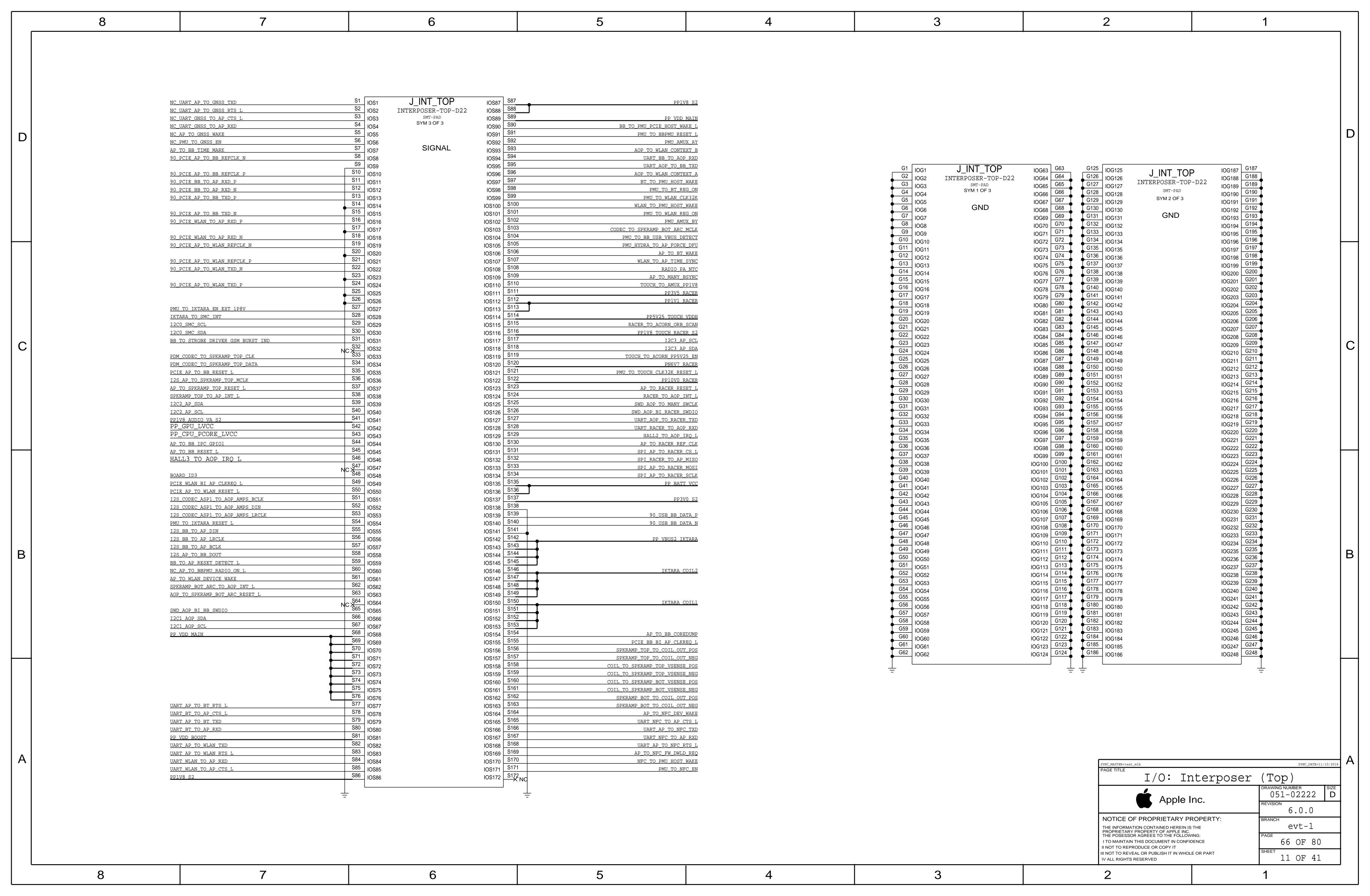


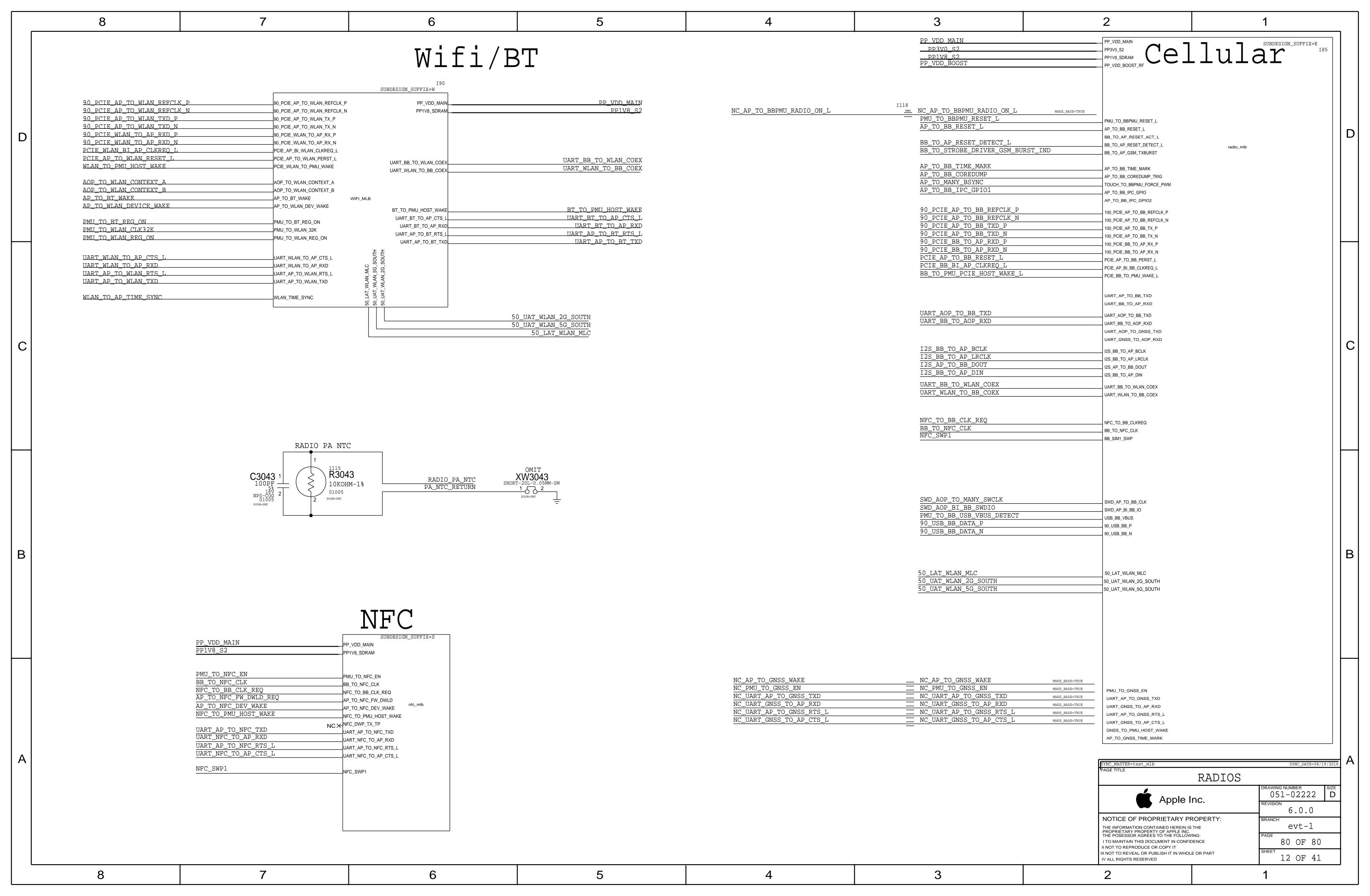


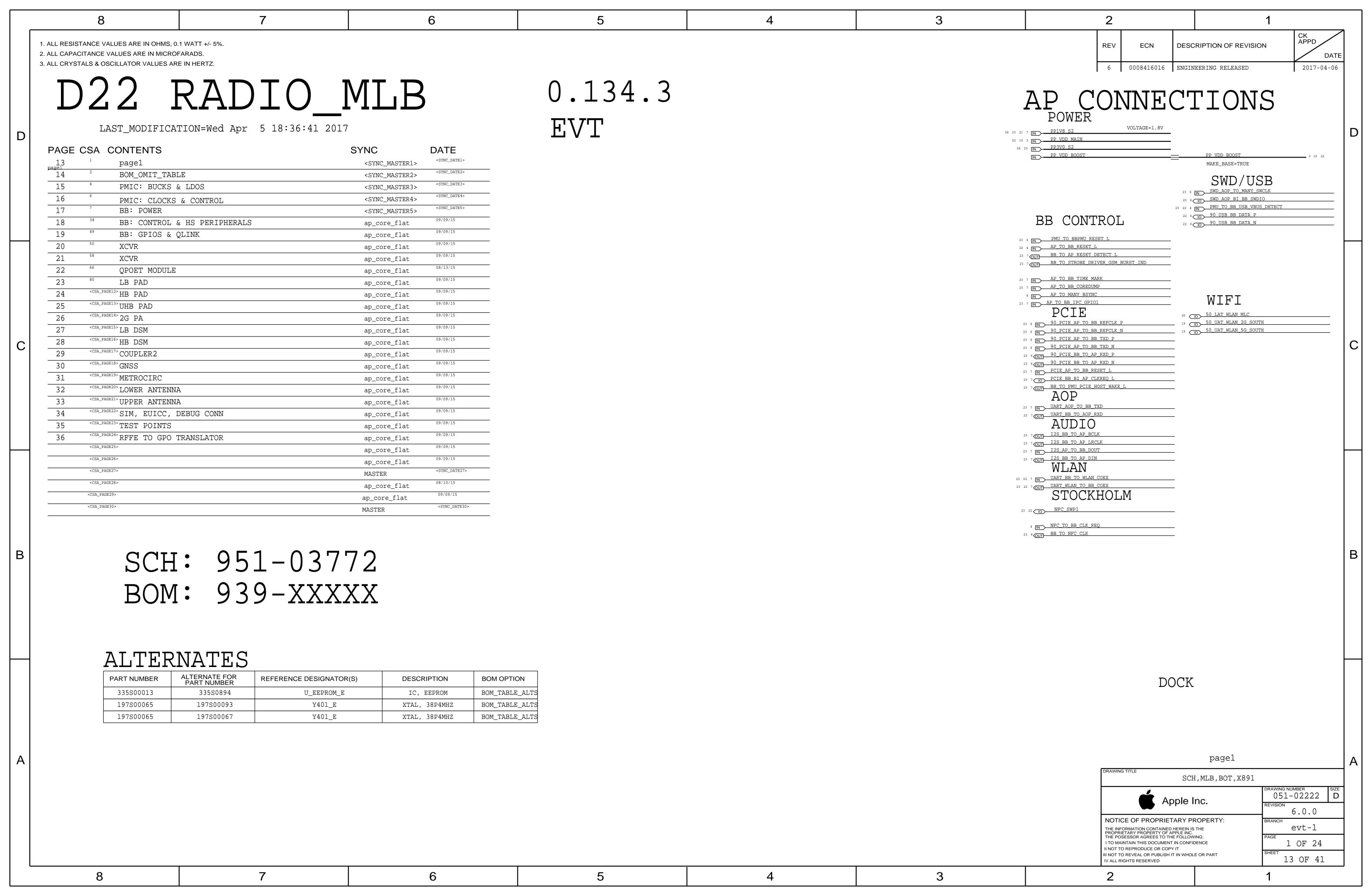












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