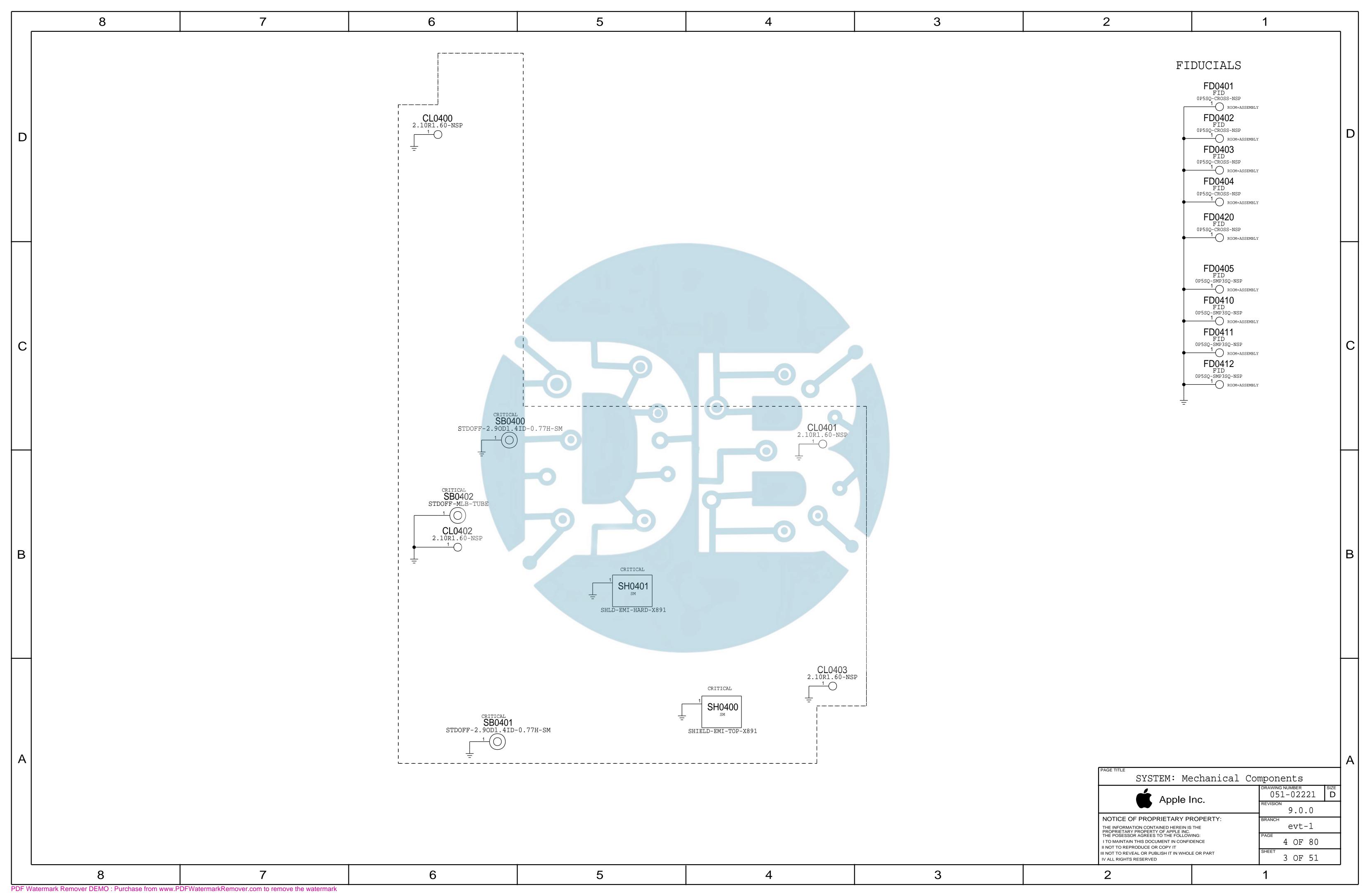
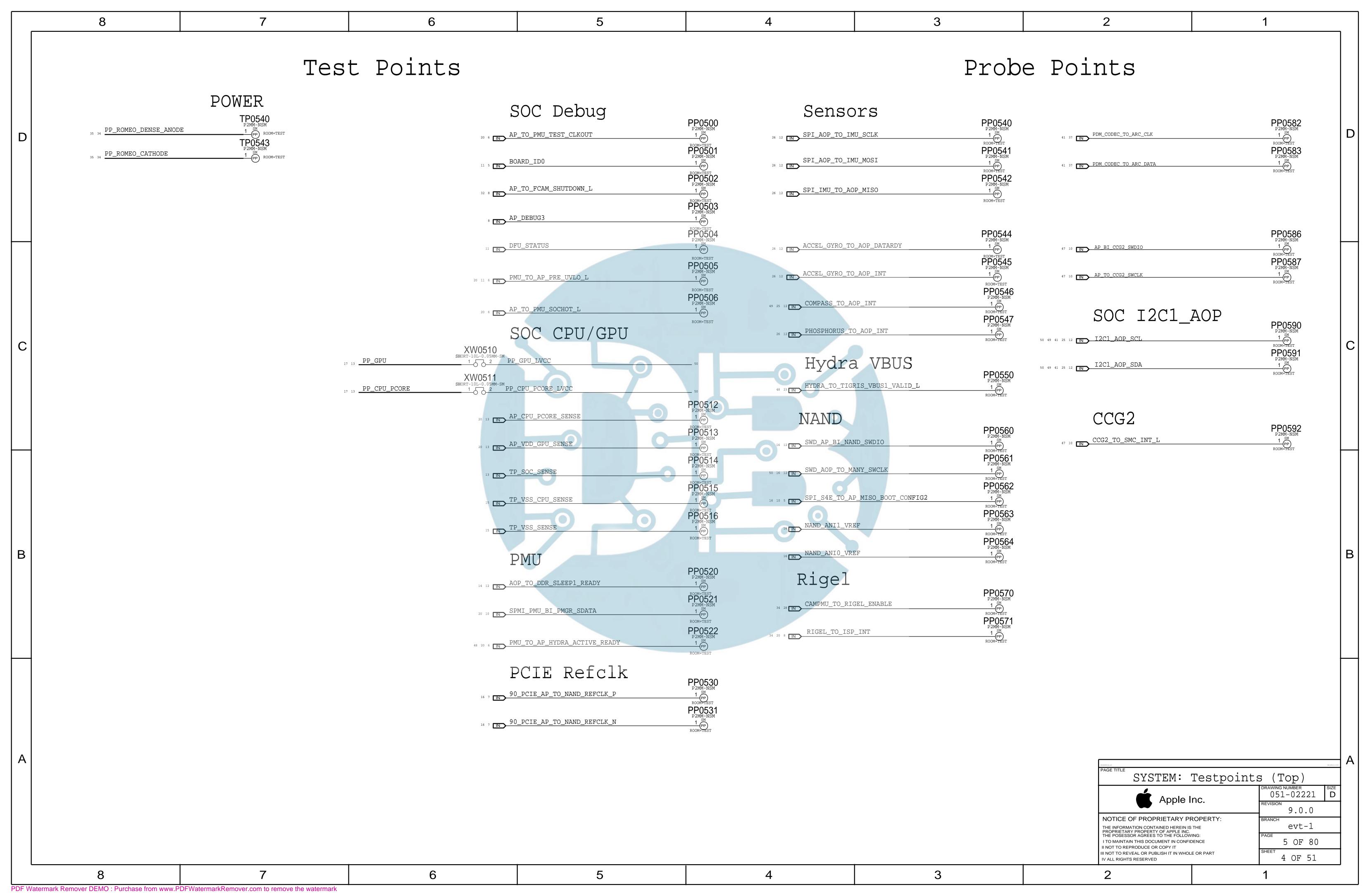
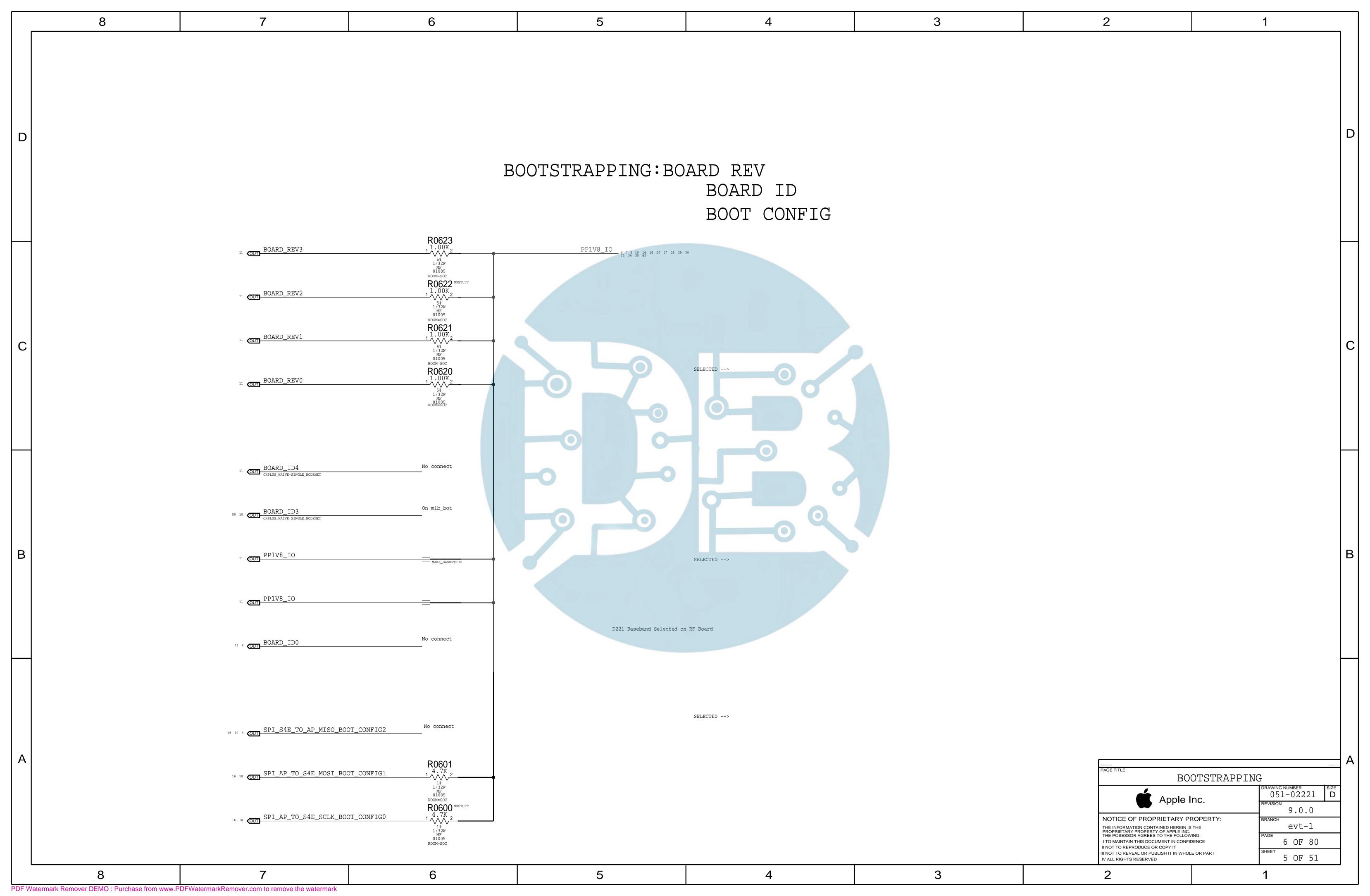
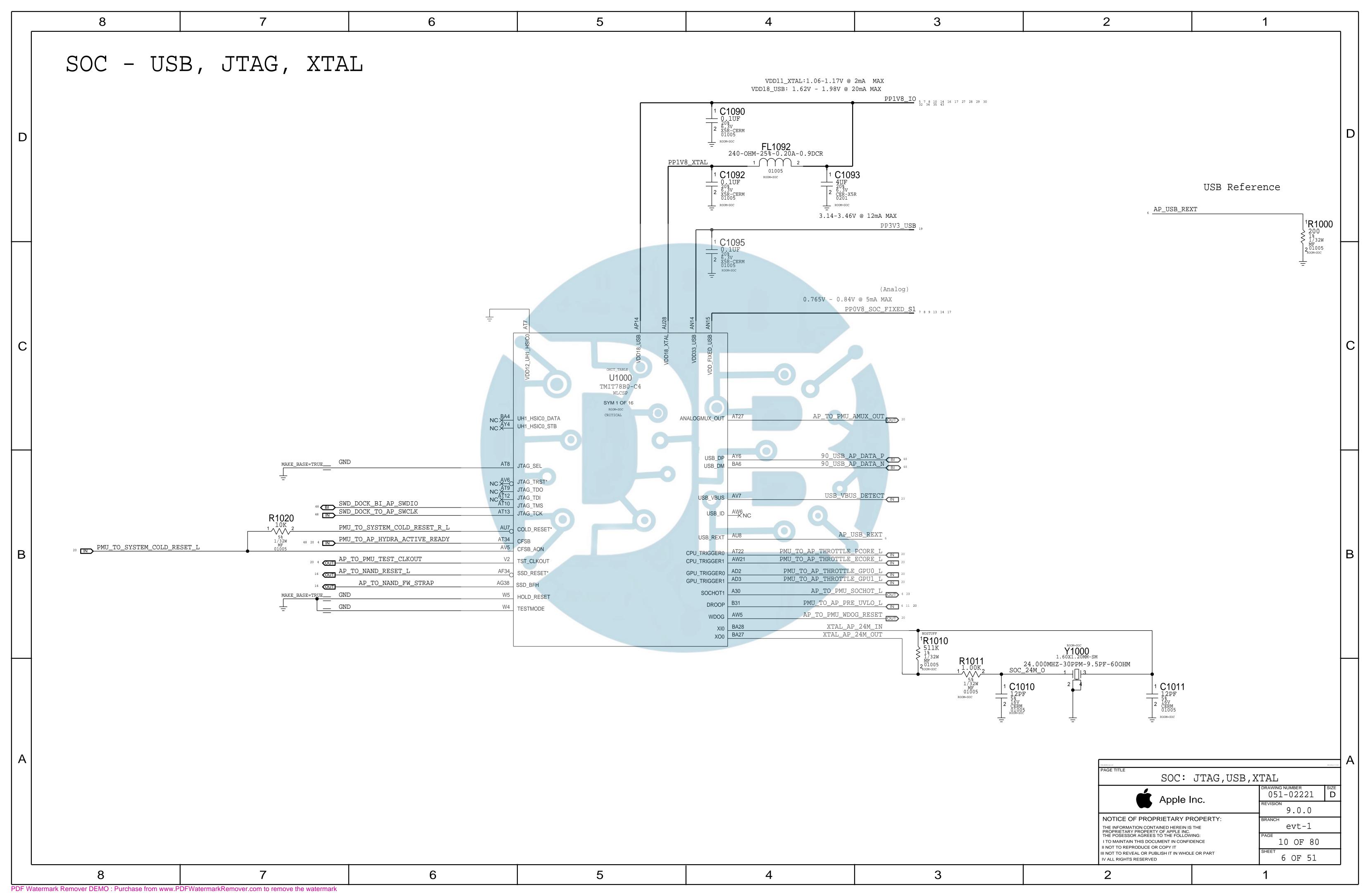
6 CK APPD 1. ALL RESISTANCE VALUES ARE IN OHMS, 0.1 WATT +/- 5%. REV DESCRIPTION OF REVISION 2. ALL CAPACITANCE VALUES ARE IN MICROFARADS. 3. ALL CRYSTALS & OSCILLATOR VALUES ARE IN HERTZ. 0008409760 ENGINEERING RELEASED 2017-04-05 X891/X893 MLB Top: EVT LAST\_MODIFICATION=Mon Apr 3 13:03:06 2017 DATE PAGE CSA CONTENTS SYNC DATE PAGE CSA CONTENTS SYNC 61 I/O: Accessory Buck 10/17/2016 TABLE OF CONTENTS test\_mlb 10/13/2016 10/13/2016 SYSTEM: BOM Tables test\_mlb I/O: USB PD test\_mlb 63 I/O: Hydra 10/13/2016 SYSTEM: Mechanical Components test\_mlb 10/13/2016 10/13/2016 SYSTEM: Testpoints (Top) test\_mlb 64 I/O: B2B Dock test\_mlb 65 I/O: Interposer (Bottom) BOOTSTRAPPING 10/13/2016 10/13/2016 test\_mlb test\_mlb 10/17/2016 80 06/04/2015 SOC: JTAG, USB, XTAL RADIOS test\_mlb SOC: PCIE 10/17/2016 test\_mlb 12 SOC: MIPI & ISP 10/13/2016 test\_mlb 13 SOC: LPDP 10/13/2016 test\_mlb 14 SOC: Serial 10/17/2016 test\_mlb 10/13/2016 15 SOC: GPIO & UART test\_mlb 16 test\_mlb 10/17/2016 SOC: AOP 17 SOC: Power (1/3) 10/17/2016 test\_mlb SOC: Power (2/3) 10/17/2016 test\_mlb 19 SOC: Power (3/3) 10/17/2016 test\_mlb 26 10/13/2016 NAND test\_mlb SYSTEM POWER: PMU Bucks (1/4) 10/13/2016 test\_mlb SYSTEM POWER: PMU Bucks (2/4) test\_mlb 10/13/2016 10/13/2016 SYSTEM POWER: PMU LDOs (3/4) test\_mlb 11/01/2016 test\_mlb SYSTEM POWER: PMU (4/4)10/13/2016 SYSTEM POWER: Boost test\_mlb 32 SYSTEM POWER: B2B Battery 10/13/2016 test\_mlb 10/13/2016 SYSTEM POWER: Charger test\_mlb SYSTEM POWER: Iktara SYSTEM POWER: B2B Cyclone + Button test\_mlb 10/13/2016 10/13/2016 36 SENSORS test\_mlb CAMERA: PMU (1/2) 10/13/2016 test\_mlb 10/13/2016 test\_mlb CAMERA: PMU (2/2) 10/13/2016 CAMERA: B2B Wide (WY) test\_mlb CAMERA: B2B Tele (MT) 10/13/2016 test\_mlb 10/13/2016 test\_mlb CAMERA: Strobe Drivers 10/13/2016 test\_mlb 42 CAMERA: B2B FCAM 10/13/2016 test\_mlb CAMERA: B2B Strobe + Hold Button 43 test\_mlb PEARL: Power 10/13/2016 45 PEARL: B2B Romeo + Juliet 10/13/2016 test\_mlb 10/13/2016 PEARL: B2B Rosaline + Misc test\_mlb AUDIO: CODEC (1/2) test\_mlb 10/13/2016 10/13/2016 48 AUDIO: CODEC (2/2) test\_mlb 08/25/2015 AUDIO: Speaker Amp Bottom 50 AUDIO: Speaker Amp Top 08/25/2015 10/13/2016 ARC: Driver 51 test\_mlb 56 CG: Power Supplies - Touch & Display 10/13/2016 test\_mlb 57 CG: B2B Display 10/13/2016 test\_mlb 58 CG: B2B Orb & Touch 08/25/2015 59 I/O: Overvoltage Cut-Off Circuit 01/10/2017 sync BOM:639-04583 (Ultimate) TABLE OF CONTENTS BOM:639-03409 (Extreme) SCH, MLB, TOP, X891 051-02221 MCO:056-04077Apple Inc. 9.0.0 NOTICE OF PROPRIETARY PROPERTY: REFERENCE DESIGNATOR(S) CRITICAL BOM OPTION PART# QTY DESCRIPTION evt-1 THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSESSOR AGREES TO THE FOLLOWING: SCH,MLB\_TOP,X891 051-02221 I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE 1 OF 80 820-00863 PCB,MLB\_TOP,X891 COMMON II NOT TO REPRODUCE OR COPY IT III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART 1 OF 51 IV ALL RIGHTS RESERVED 6

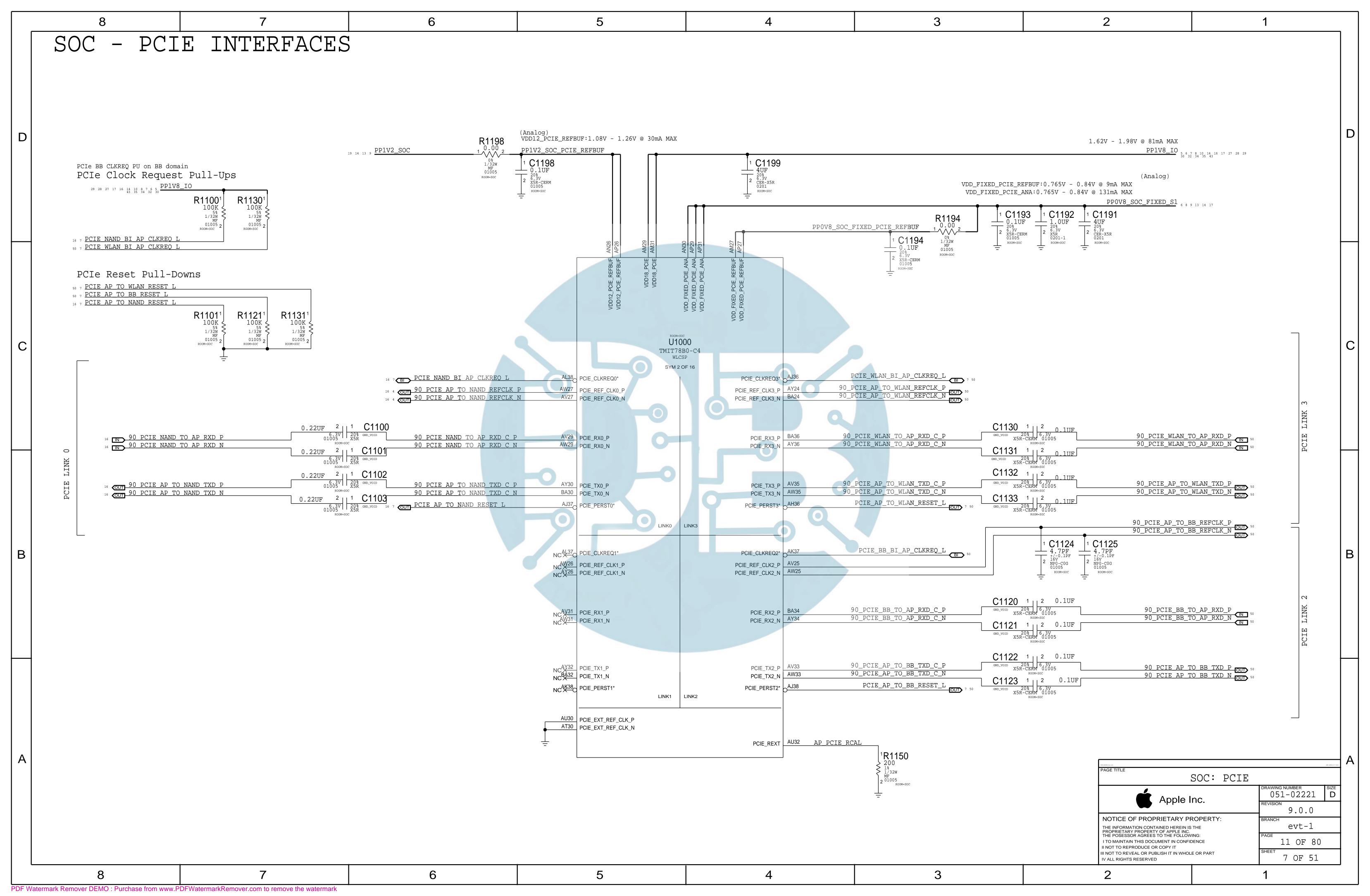
6 Global Ferrites Soft-Term Cap Sub BOMs EEEE Codes QTY DESCRIPTION REFERENCE DESIGNATOR(S) **BOM OPTION** REFERENCE DESIGNATOR(S) BOM OPTION CRITICAL PART# EEEE FOR (MLB\_TOP,639-04583,ULTIMATE) EEEE\_J2WJ ULTIMATE 685-00155 SUBBOM, MLB, TOP, CAP, TYPICAL, X891 SUBBOM\_CAP CRITICAL 155S00194 BOM\_TABLE\_ALTS 155S0610 FERR BD, 1500HM, 01005 EEEE FOR (MLB TOP,639-03409,EXTREME) EEEE\_HP26 EXTREME Agnes Input 155S0610 155S00200 BOM\_TABLE\_ALTS QTY DESCRIPTION REFERENCE DESIGNATOR(S) SOC C2970,C2971,C2980,C2981 4 CAP, TYPICAL, 2.2UF, 6.3V, 0201, MURATA C2970,C2971,C2980,C2981 TYPICAL\_CAP Global R/C Alternates Agnes Output QTY DESCRIPTION REFERENCE DESIGNATOR(S) BOM OPTION SKYE+3GB, BO, M, DEV QTY DESCRIPTION REFERENCE DESIGNATOR(S) BOM OPTION CRITICAL 138S00159 SOFT\_CAP ALTERNATE FOR PART NUMBER PART NUMBER **BOM OPTION** REF DES CRITICAL PART# COMMENT TYPICAL\_CAP ALTERNATE FOR PART NUMBER REF DES PART NUMBER BOM OPTION COMMENTS: 118S0764 BOM\_TABLE\_ALTS RES, 3.92K, 0.1%, 0201 118S0717 RES, 3.92K, 0.1%, 0201 118S0717 Sensors BOM\_TABLE\_ALTS DDR-H,3G, B0 339800359 138S0648 BOM\_TABLE\_ALTS 138S0652 CAP.X5R.4.7UF.6.3V.0.65MM.0402 QTY DESCRIPTION PART# REFERENCE DESIGNATOR(S) CRITICAL BOM OPTION DDR-S-20,3G, B0 339S00360 BOM\_TABLE\_ALTS 339S00358 138S0739 138S0706 BOM\_TABLE\_ALTS 138S0706 CAP, CER, X5R, 0.22UF, 20%, 6.3V, 20% SOFT\_CAP C3602,C3622 DDR-S-18,3G, B0 339S00361 BOM\_TABLE\_ALTS BOM\_TABLE\_ALTS CAP, CER, X5R, 0.22UF, 20%, 6.3V, 010 138S0831 2 CAP, TYPICAL, 2.2UF, 6.3V, 0201, MURAT. C3602,C3622 CRITICAL TYPICAL\_CAP CAP, CER, X5R, 2.2UF, 20%, 6.3V, 0201 BOM\_TABLE\_ALTS NAND RCAM B2Bs Global Inductors QTY DESCRIPTION REFERENCE DESIGNATOR(S) CRITICAL BOM OPTION Ultimate 138S00159 C3909,C3925,C4025 CRITICAL CAP, SOFT-TERM, 2.2UF, 6.3V, 0201, KYOCERA CAP, TYPICAL, 2.2UF, 6.3V, 0201, MURATA C3909,C3925,C4025 TYPICAL\_CAP ALTERNATE FOR PART NUMBER PART NUMBER BOM OPTION REF DES CRITICAL PART# QTY DESCRIPTION Strobe B2B BOM\_TABLE\_ALTS HYNIX, 3DV3, ULTIMATE CRITICAL ULTIMATE QTY DESCRIPTION REFERENCE DESIGNATOR(S) CRITICAL BOM OPTION BOM\_TABLE\_ALTS 152S00620 152S00620 PART NUMBER ALTERNATE FOR BOM OPTION REF DES COMMENTS: 152S00621 BOM\_TABLE\_ALTS ALL IND, MLD, 0.47UH, 20%, 3.5A, 53MO, H=.65, 2012 138S0831 CRITICAL TYPICAL\_CAP CAP.TYPICAL.2.2UF.6.3V.0201.MURAT. 152S00**62**2 335S00284 BOM\_TABLE\_ALTS TOSHIBA, 1Z, ULTIMATE Audio 152S00626 152S00716 IND, MLD, 1.5UH, 20%, 1.1A, 160MO, H=.65, 2012 335S00285 IND, MLD, 1.0UH, 20%, 2.5A, 78MO, H=0.8, 2012 PART# QTY DESCRIPTION REFERENCE DESIGNATOR(S) **BOM OPTION** 335S00286 335S00287 BOM\_TABLE\_ALTS SANDISK, BICS3, ULTIMATE 52S00632 IND, MLD, 1.0UH, 20%, 3.2A, 60MO, H=0.8, 2016 C4809,C4805 CRITICAL SOFT\_CAP CAP.SOFT-TERM.2.2UF.6.3V.0201.KYOCER 335S00288 BOM\_TABLE\_ALTS SAMSUNG, 3DV4, ULTIMATE 152S00720 152S00640 152S00640 IND, MLD, 0.47UH, 3.8A, 55MO, H=0.65MM, 2012 138S0831 TYPICAL\_CAP C4809,C4805 CRITICAL Extreme IND, MLD, 0.47UH, 4A, 48MO, H=0.8MM, 2012 152S00721 152S0064 Pearl B2B BOM\_TABLE\_ALTS IND, MLD, 1UH, 3.6A, 60MO, H=0.8MM, 2016 QTY DESCRIPTION REFERENCE DESIGNATOR(S) CRITICAL BOM OPTION QTY DESCRIPTION REFERENCE DESIGNATOR(S) CRITICAL BOM OPTION IND,1.2UH, 3A, 2016, 0.65 138S00159 CAP, SOFT-TERM, 2.2UF, 6.3V, 0201, KYOCERA C4613 CRITICAL SOFT\_CAP 335S00240 HYNIX, 3DV3, EXTREME CRITICAL EXTREME IND, 0.47UH, 6.6A, 3225, 0.8Z 138S0831 TYPICAL\_CAP CRITICAL COMMENTS: PART NUMBER BOM OPTION XTAL Alternate 335S00228 335S00240 BOM\_TABLE\_ALTS TOSHIBA, BICS3, EXTREME PART# QTY DESCRIPTION REFERENCE DESIGNATOR(S) CRITICAL BOM OPTION 335S00240 BOM\_TABLE\_ALTS U2600 335S00247 SANDISK, BICS3, EXTREME 138S00160 SOFT\_CAP 2 CAP, SOFT-TERM, 10UF, 10V, 0402, MURATA C5641,C5653 CRITICAL PART NUMBER **BOM OPTION** REF DES COMMENTS: 335S00276 335S00240 BOM\_TABLE\_ALTS SAMSUNG, 3DV4, EXTREME CRITICAL PART# CRITICAL TYPICAL\_CAP COMMENT 138S0979 2 CAP, TYPICAL, 10UF, 10V, 0402, MUR/KYO C5641,C5653 Global Capacitors 197S0612 BOM\_TABLE\_ALTS XTAL, 24M, 1612 CODEC QTY DESCRIPTION REFERENCE DESIGNATOR(S) PART# CRITICAL **BOM OPTION** 138S00160 CAP,SOFT-TERM,10UF,10V,0402,MURATA C4811,C4808 CRITICAL PART# COMMENT Multi-Vendor Criticals 138S0979 CRITICAL TYPICAL\_CAP CAP, TYPICAL, 10UF, 10V, 0402, MUR/KYO 138S00149 0402-3T,10.5uF@1V 138S00148 138S00149 BOM\_TABLE\_ALTS 0402-3T,10.5uF@1V, Kyocera Ansel 138S00150 BOM\_TABLE\_ALTS QTY DESCRIPTION CRITICAL PART# COMMENT CRITICAL PART# PART# REFERENCE DESIGNATOR(S) CRITICAL **BOM OPTION** 138S00151 138S00149 BOM\_TABLE\_ALTS 0402-3T,10.5uF@1V, TY SUPPR, TRANS, VARISTOR, 12V, 33PF, 01005 132S0288 CAP, CER, X5R, 0.1UF, 10%, 16V, 020 138S00160 CAP, SOFT-TERM, 10UF, 10V, 0402, MURATA C3710 CRITICAL CRITICAL PART# PART NUMBER BOM OPTION REF DES COMMENTS: 197S0446 138S0979 C3710 CRITICAL TYPICAL\_CAP XTAL, 24MHZ, 30PPM, 9.5PF, 60 OHM MAX, 1612 132S0275 CAP, CER, X5R, 470PF, 10%, 10V, 01005 CAP, TYPICAL, 10UF, 10V, 0402, MUR/KY 138S00144 0402,16uF@1V 155S0576 FERR BD.10 OHM.50%.750MA.0.07 DCR.01005 132S0249 CAP, CER, X7R, 220PF, 10%, 10V, 01005 138S00143 138S00144 BOM\_TABLE\_ALTS 0402,16uF@1V, Kyocera 155S00168 FLTR, NOISE, 65 OHMZ, 3.40HM, 0.7-2GHZ, 0605 132S0245 CAP, CER, X5R, 0.01UF, 10%, 6.3V, 01005 138S00163 138S00144 BOM\_TABLE\_ALTS 0402,16uF@1V, Taiyo PART NUMBER BOM OPTION REF DES COMMENTS: 138S0979 CAP, CER, X5R, 10UF, 20%, 10V, 0402, H=0.65MM CAP, X5R, 0.022UF, 20%, 6.3V, 01005 685-00156 685-00155 BOM\_TABLE\_ALTS SUBBOM\_CAP PART NUMBER REF DES COMMENTS: CRITICAL PART# COMMENT 138S0692 132S00025 CAP, CER, X5R, 1UF, 20%, 6.3V, 0201 CAP, CER, X5R, 0.047UF, 20%, 6.3V, 01005 138S00139 0201,3uF@1V 138S0683 132S00008 CAP, CER, X5R, 1UF, 10%, 25V, 0402 CAP, CER, 0.1UF, 10%, 50V, X7R, 0402 BOM\_TABLE\_ALTS 138S00138 138S00139 0201,3uF@1V, Kyocera 138S0652 131S0883 CAP, CER, X5R, 4.7UF, 20%, 6.3V, H=0.65MM, 0402 CAP, CER, NPO/COG, 220PF, 2%, 50V, 0201 138S00164 138S00139 BOM\_TABLE\_ALTS 0201,3uF@1V, Taiyo 138S00070 CAP, X5R, 4.7UF, 20%, 25V, 0402 131S0804 CAP, CER, 27PF, 5%, COG, 25V, 0201 ALTERNATE FOR PART NUMBER REF DES PART NUMBER **BOM OPTION** COMMENTS CRITICAL PART# COMMENT 138S00014 CAP, CER, 1UF, 20%, 16V, X5R, 0201, H=0.39MM 131S0307 CAP, CER, NPO/COG, 100PF, 5%, 16V, 01005 138S00146 0402,5.1uF@3V 132S0664 131S0225 CAP, CER, 0.047UF, 10%, 25V, X5R, 0201 CAP, CER, NPO/COG, 15PF, 5%, 16V, 01005 BOM\_TABLE\_ALTS 138S00145 138S00146 0402,5.1uF@3V, Kvocera 132S0663 131S0223 CAP, CER, X5R, 1UF, 10%, 25V, 0402 CAP, CER, NPO/COG, 27PF, 5%, 16V, 01005 138S00165 138S00146 BOM\_TABLE\_ALTS 0402,5.1uF@3V, Taiyo 132S0534 131S0220 CAP, CER, X5R, 0.1UF, 10%, 25V, 0201 CAP, CER, NPO/COG, 12PF, 5%, 16V, 01005 PART NUMBER ALTERNATE FOR BOM OPTION REF DES COMMENTS: CRITICAL PART# COMMENT 132S0436 CAP, CER, X5R, 0.22UF, 20%, 6.3V, 01005 131S0216 CAP, CER, NPO/COG, 47PF, 5%, 16V, 01005 138S00141 0201,1.1uF@3V 138S00140 BOM\_TABLE\_ALTS 0201,1.1uF@3V, Kyocera 132S0396 CAP, CER, X5R, 1000PF, 10%, 10V, 01005 131S00053 CAP, CER, COG, 220PF, 5%, 10V, 01005 SYSTEM: BOM Tables 138S00142 132S0316 118S00068 BOM\_TABLE\_ALTS 0201,1.1uF@3V, SEMCO CAP, CER, X5R, 0.1UF, 20%, 6.3V, 01005 RES,MF,1.3 MOHM,1%,200PPM,1/20W,0201 051-02221 138S00166 BOM\_TABLE\_ALTS 132S0304 117S0055 138S00141 0201,1.1uF@3V, Taivo CAP, CER, X5R, 0.22UF, 20%, 6.3V, 020 RES.MF.1/20W.2M OHM.5.0201.SMD Apple Inc. 132S0296 CAP, CER, X5R, 1000PF, 10%, 6.3V, 01005 107S0257 THERMISTOR, NTC, 10K OHM, 1%, B=3435, 01005 9.0.0 NOTICE OF PROPRIETARY PROPERTY: 132S0318 CAP, CER, X5R, 820PF, 10%, 10V, 01005 evt-1 THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC.
THE POSESSOR AGREES TO THE FOLLOWING TO MAINTAIN THIS DOCUMENT IN CONFIDENCE 2 OF 80 I NOT TO REPRODUCE OR COPY IT II NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART 2 OF 51 IV ALL RIGHTS RESERVED 6 PDF Watermark Remover DEMO: Purchase from www.PDFWatermarkRemover.com to remove the watermark

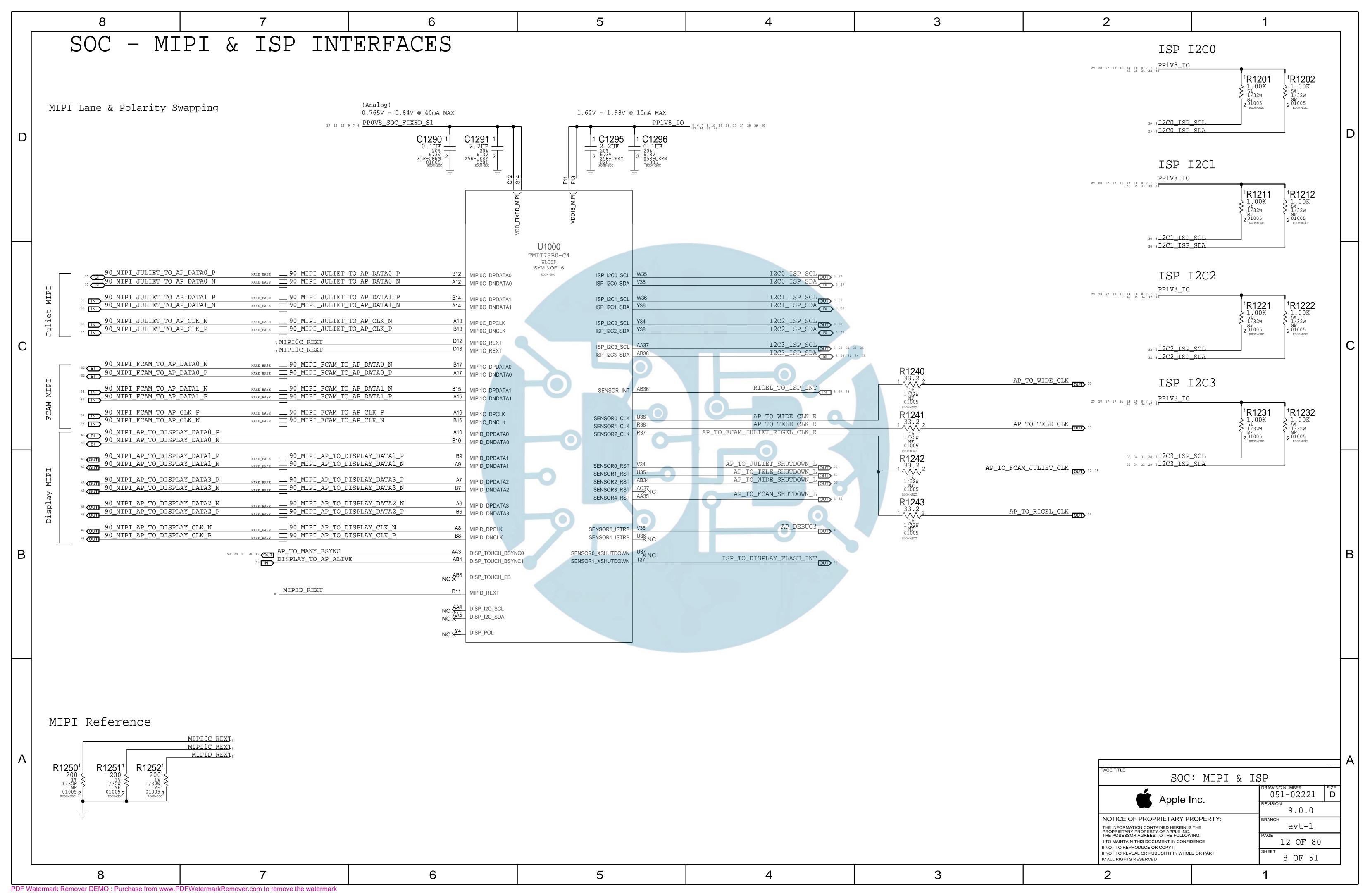


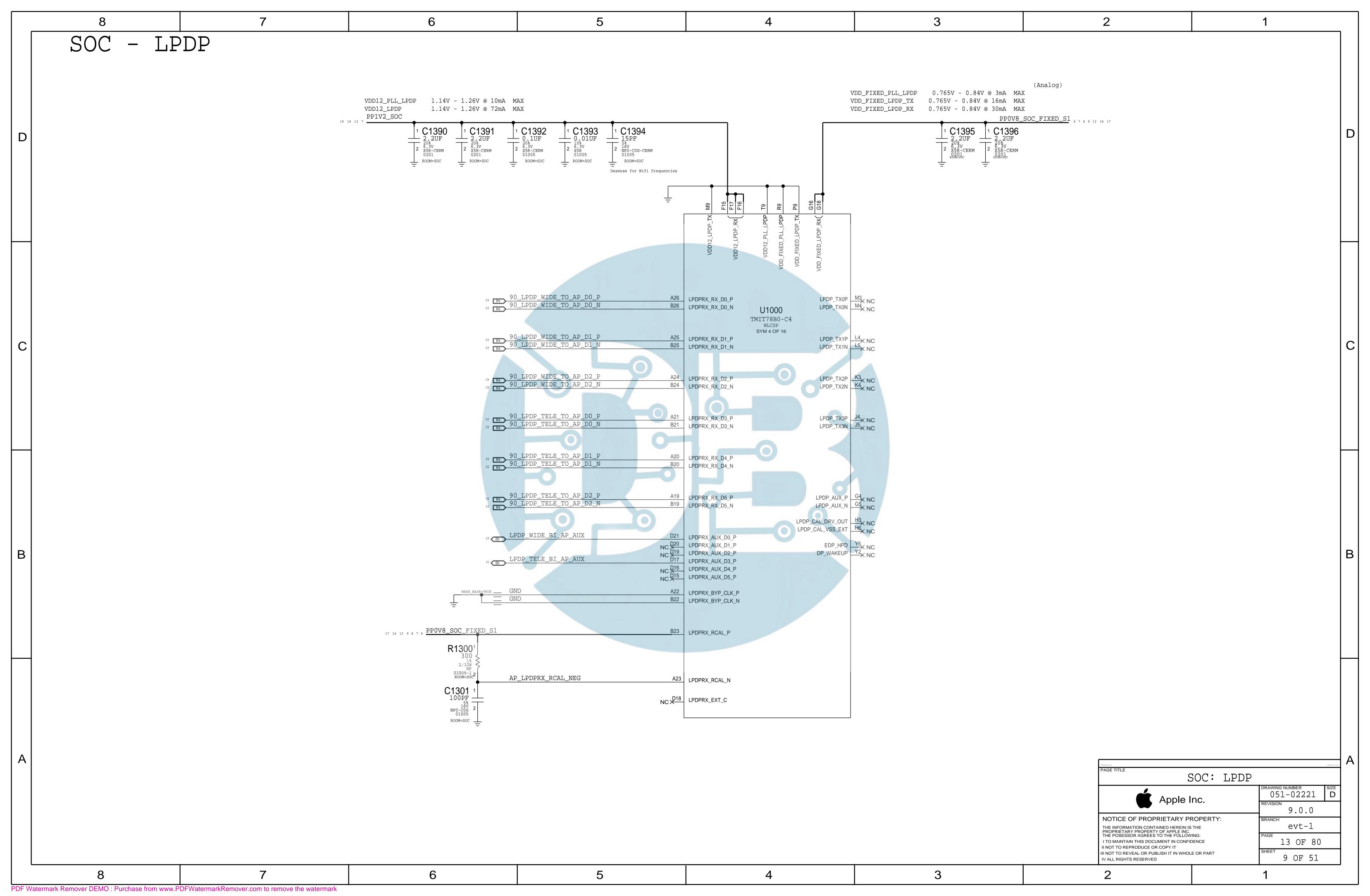


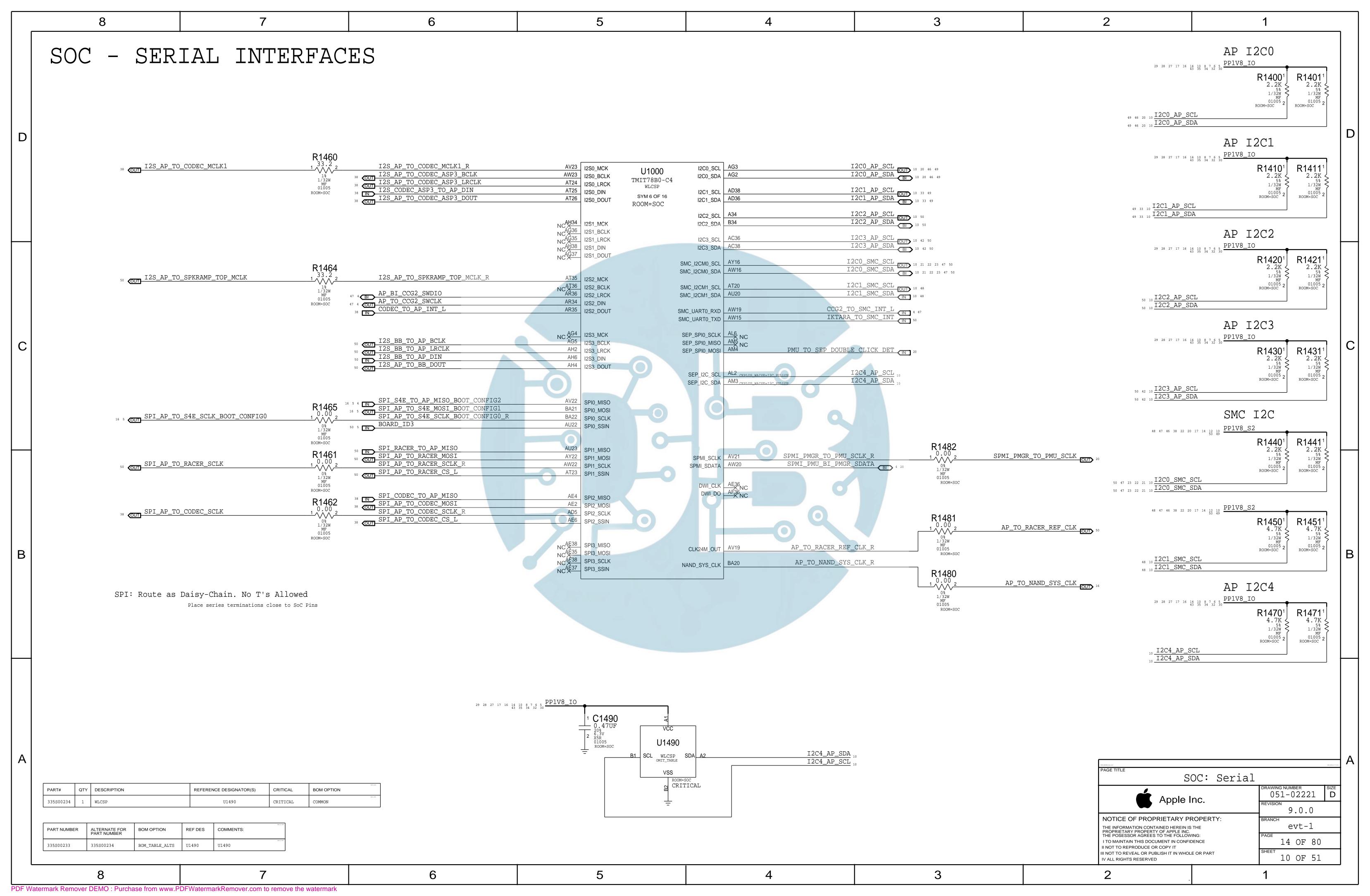


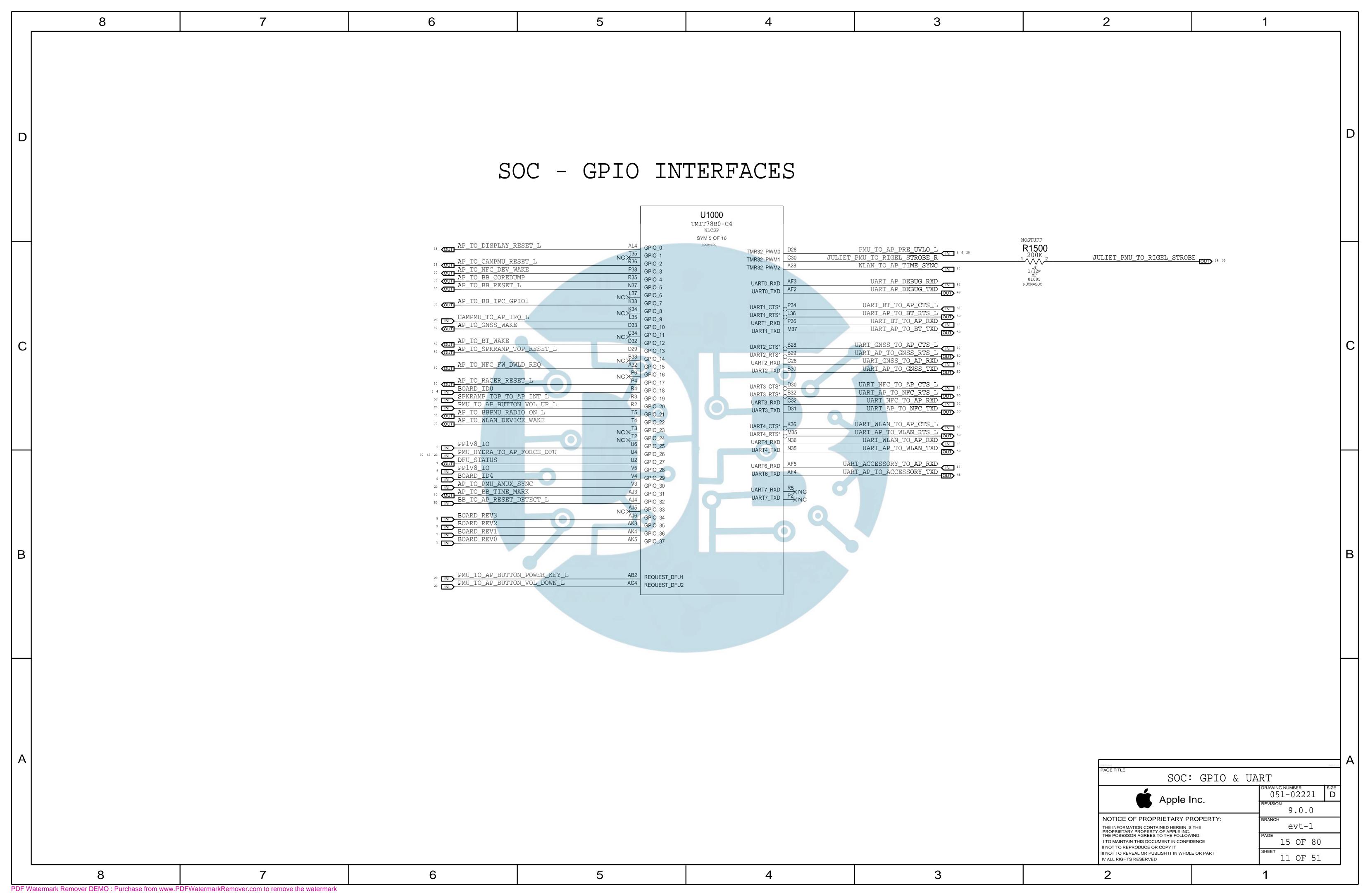


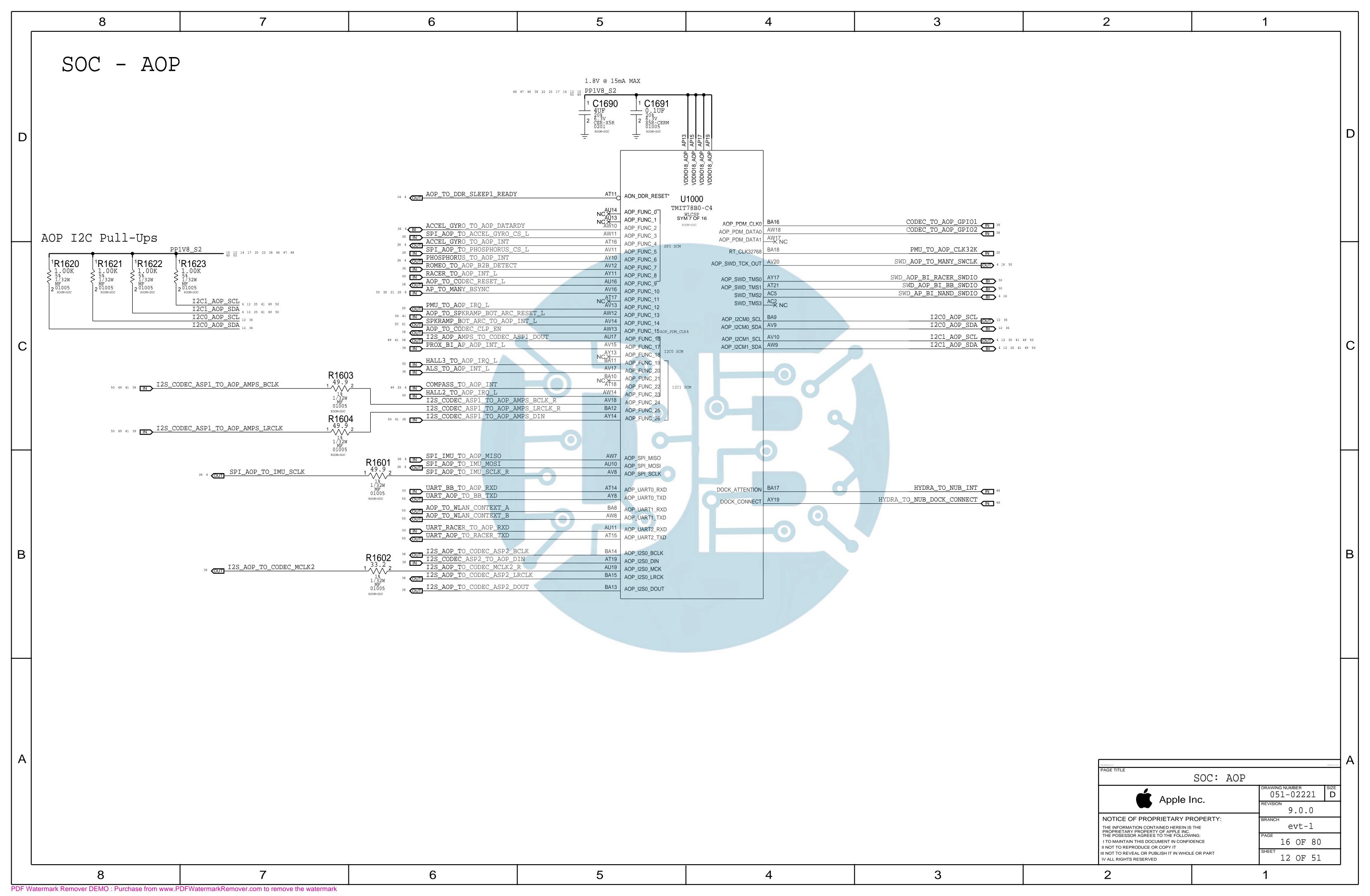


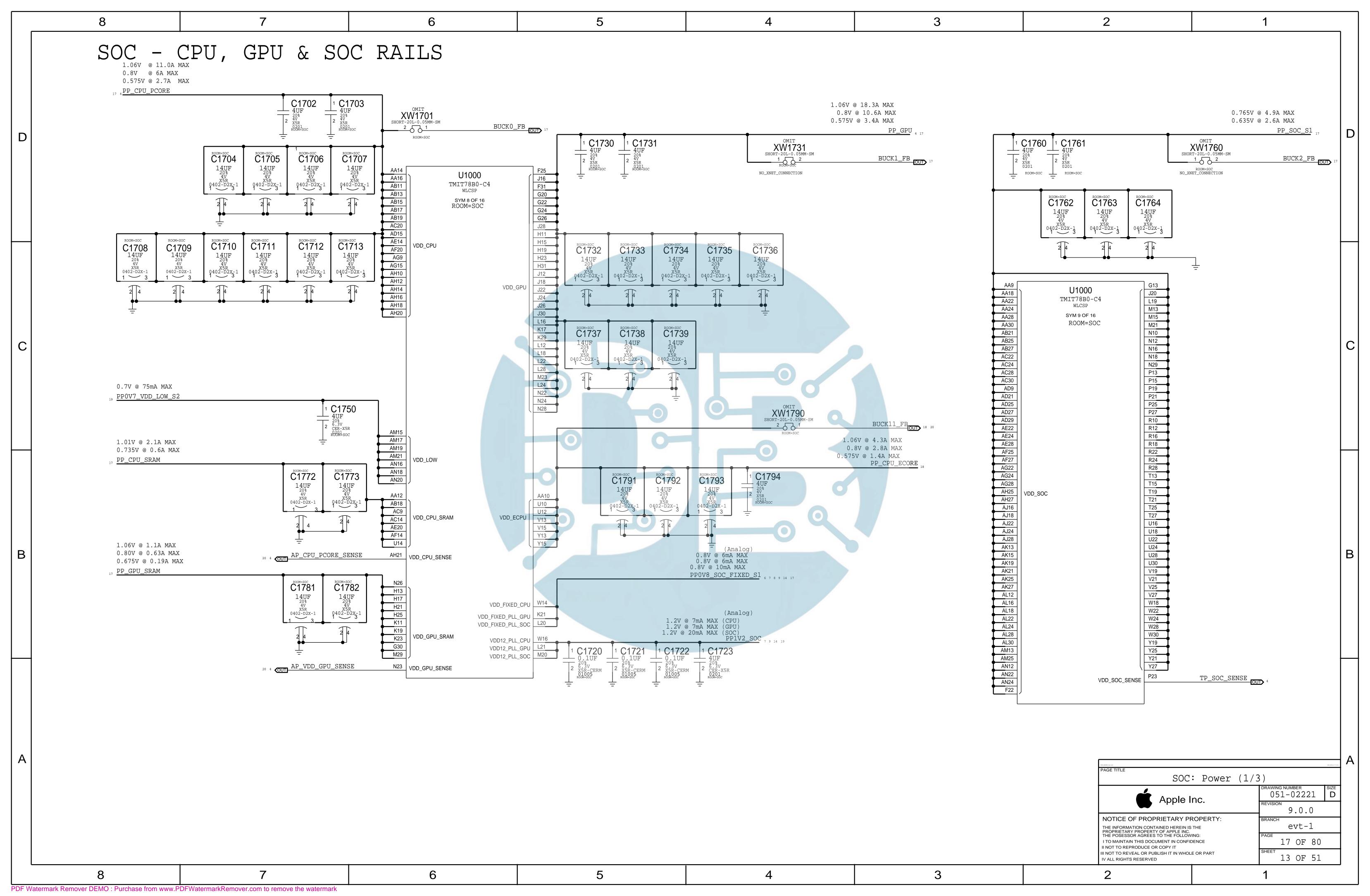


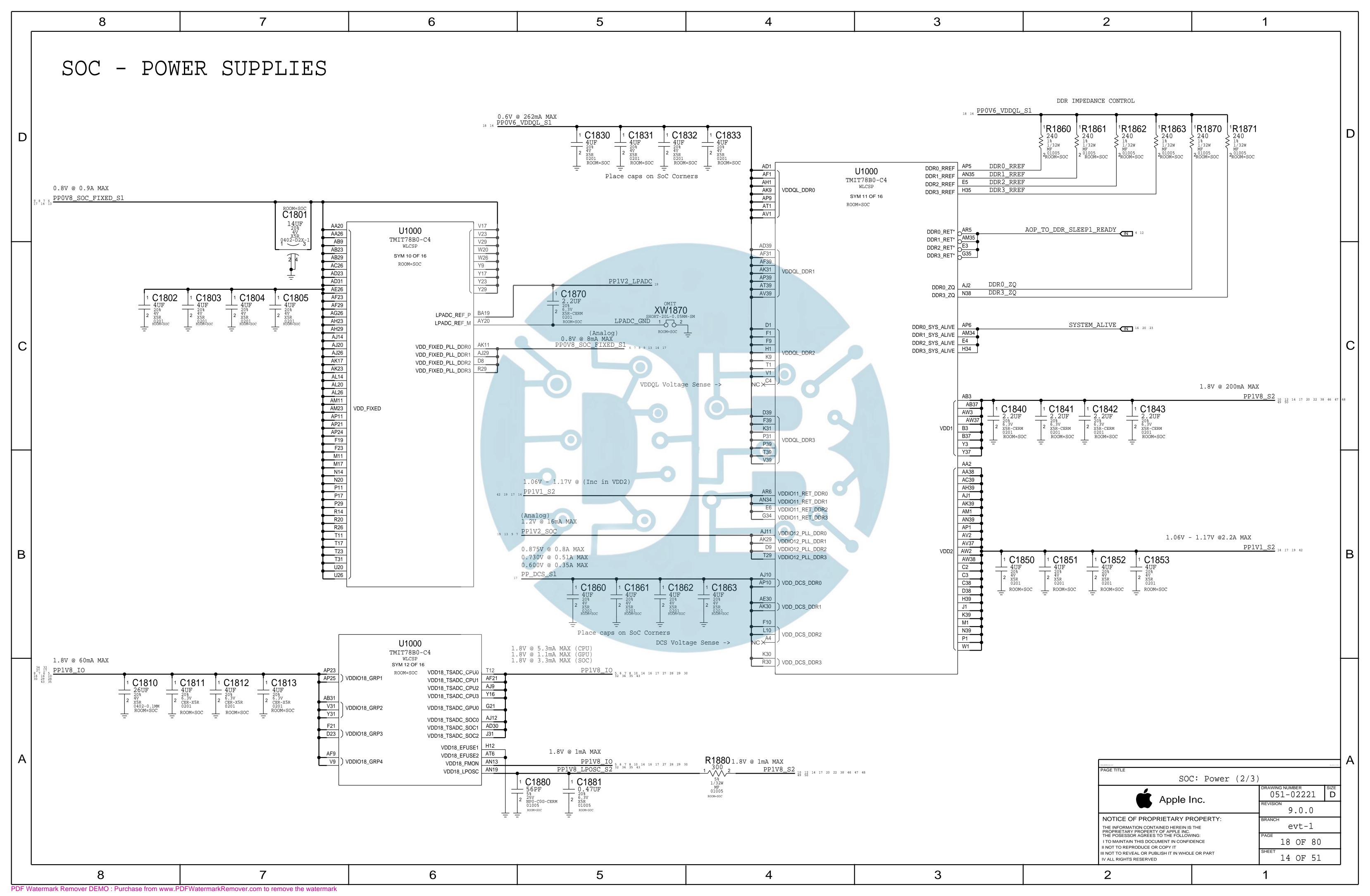


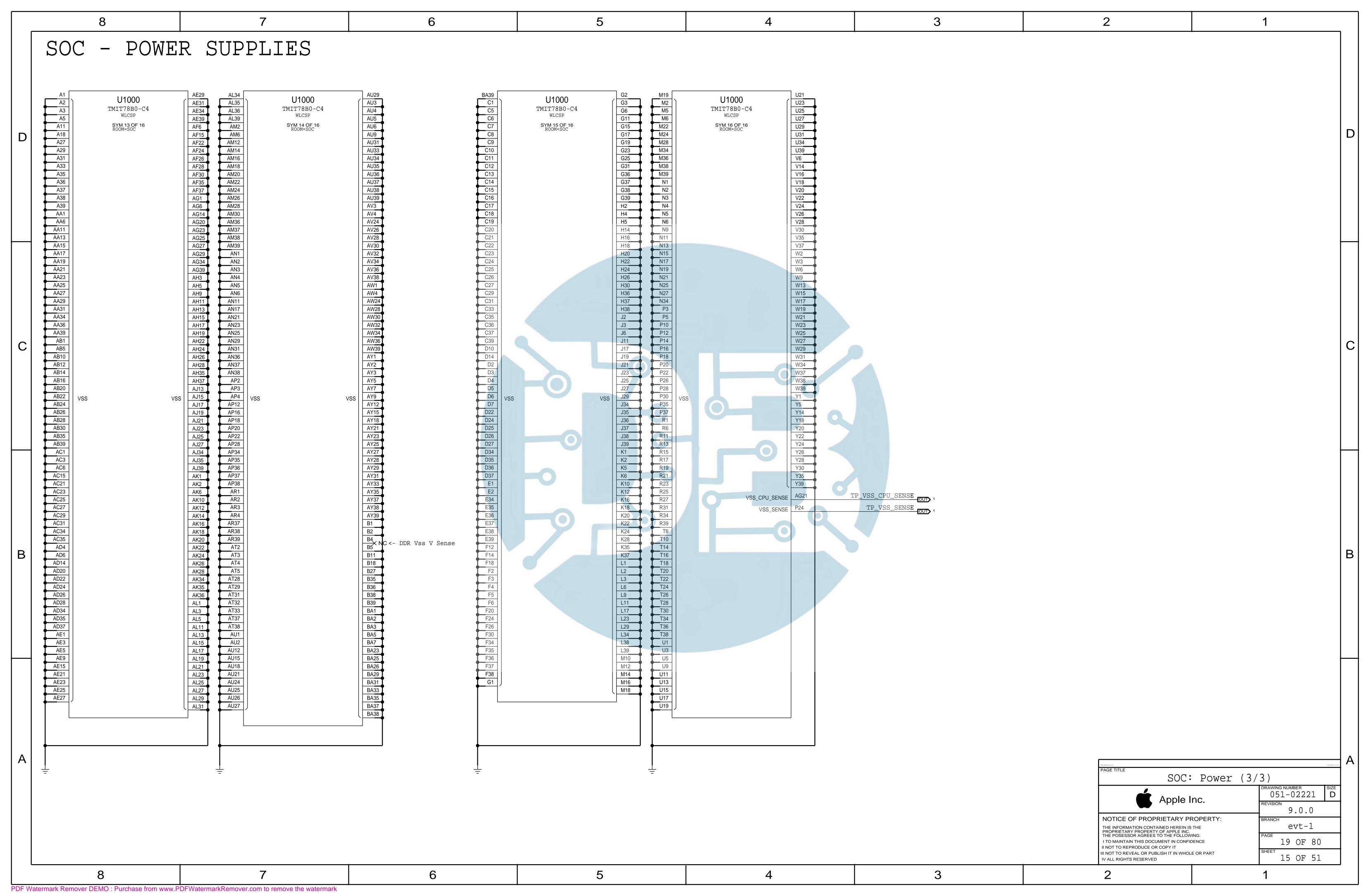


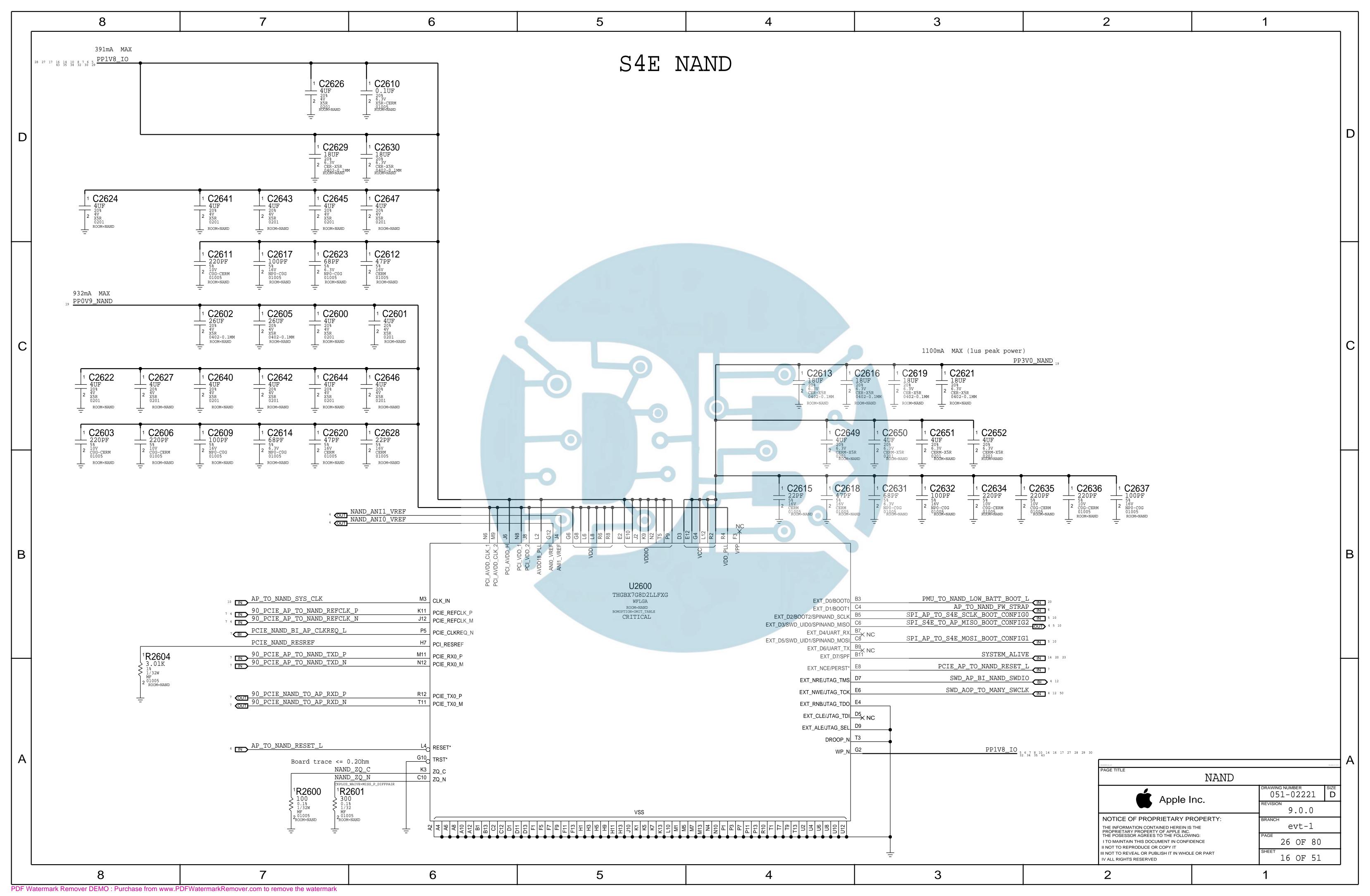


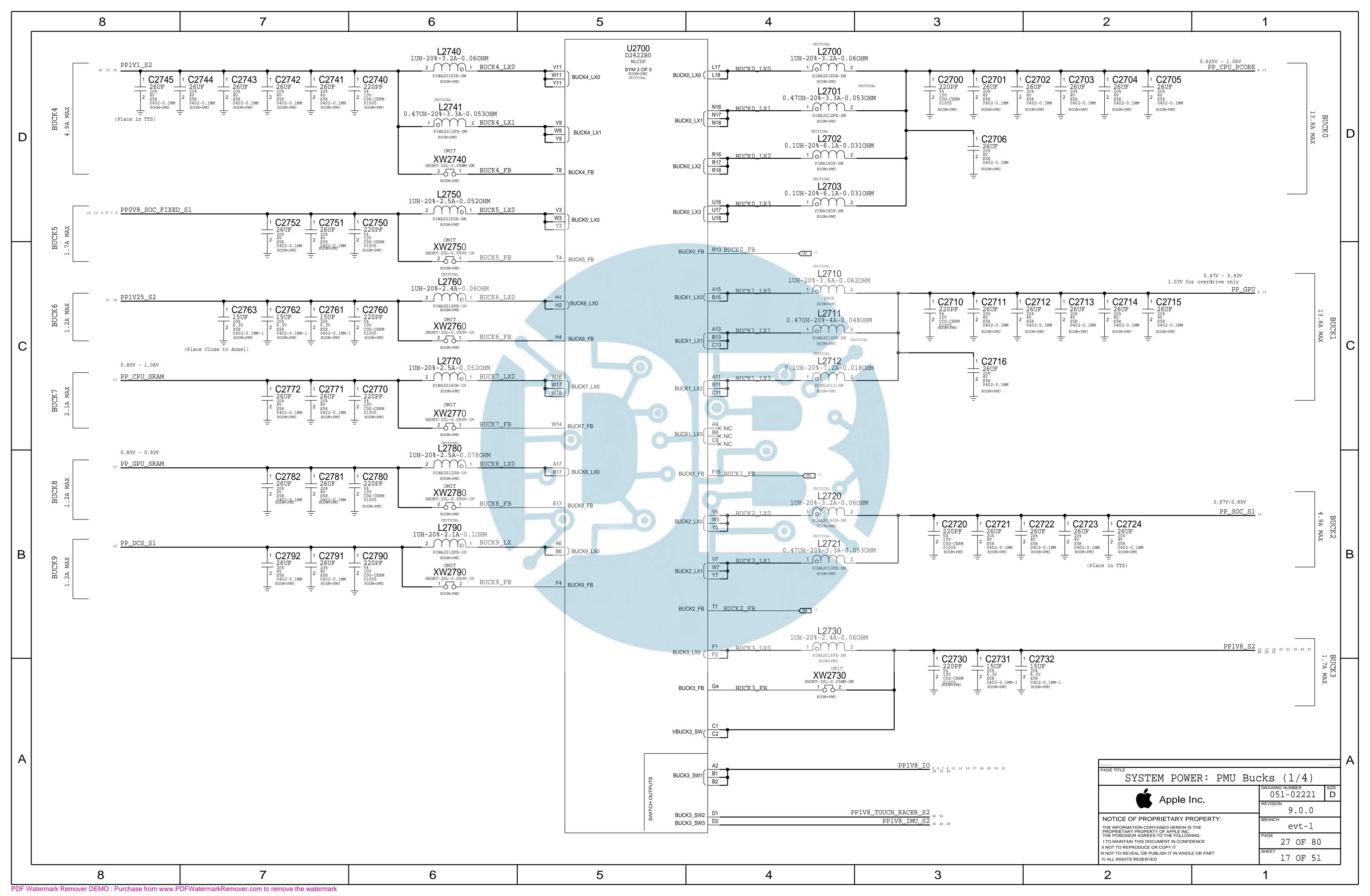


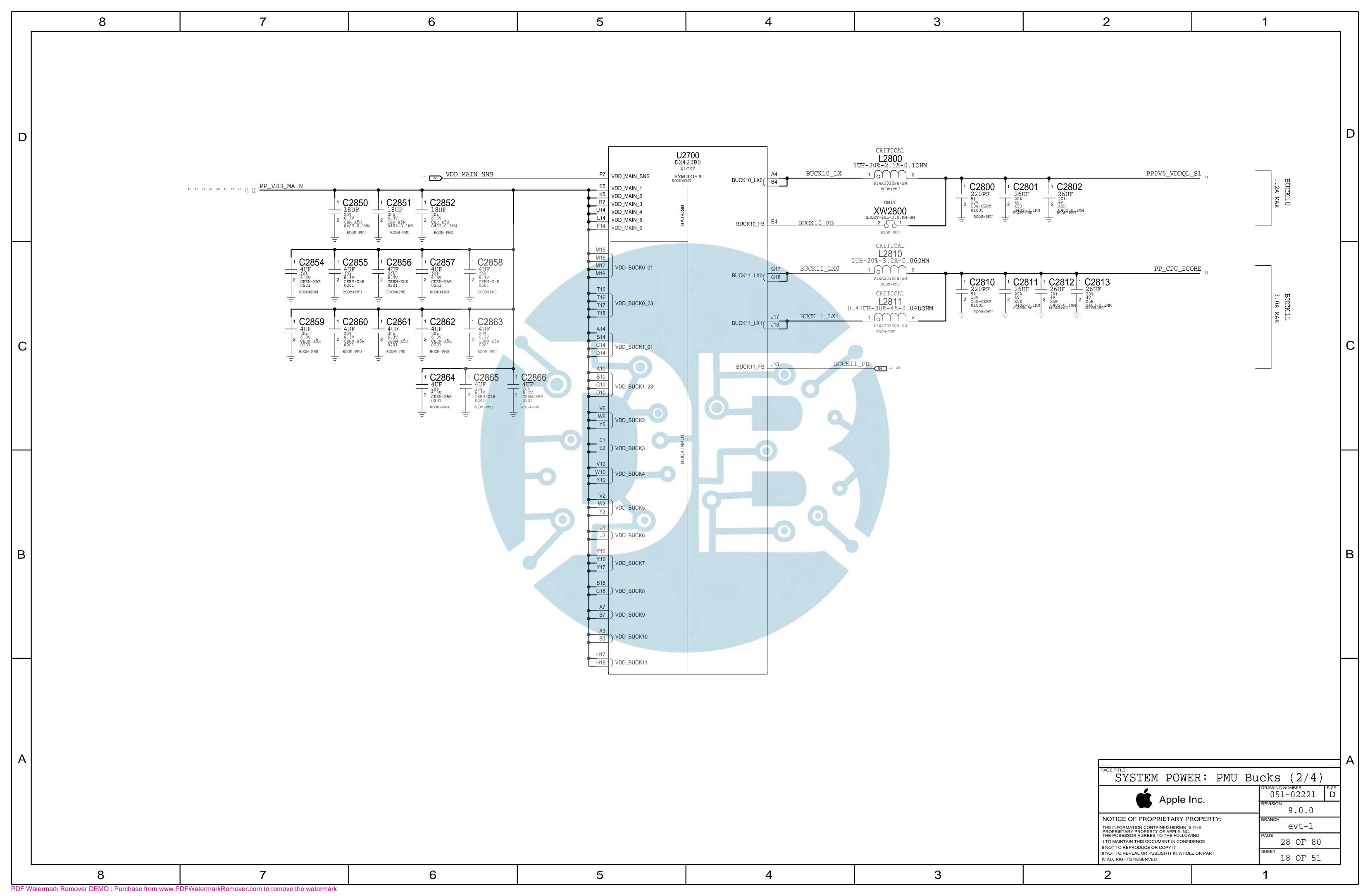


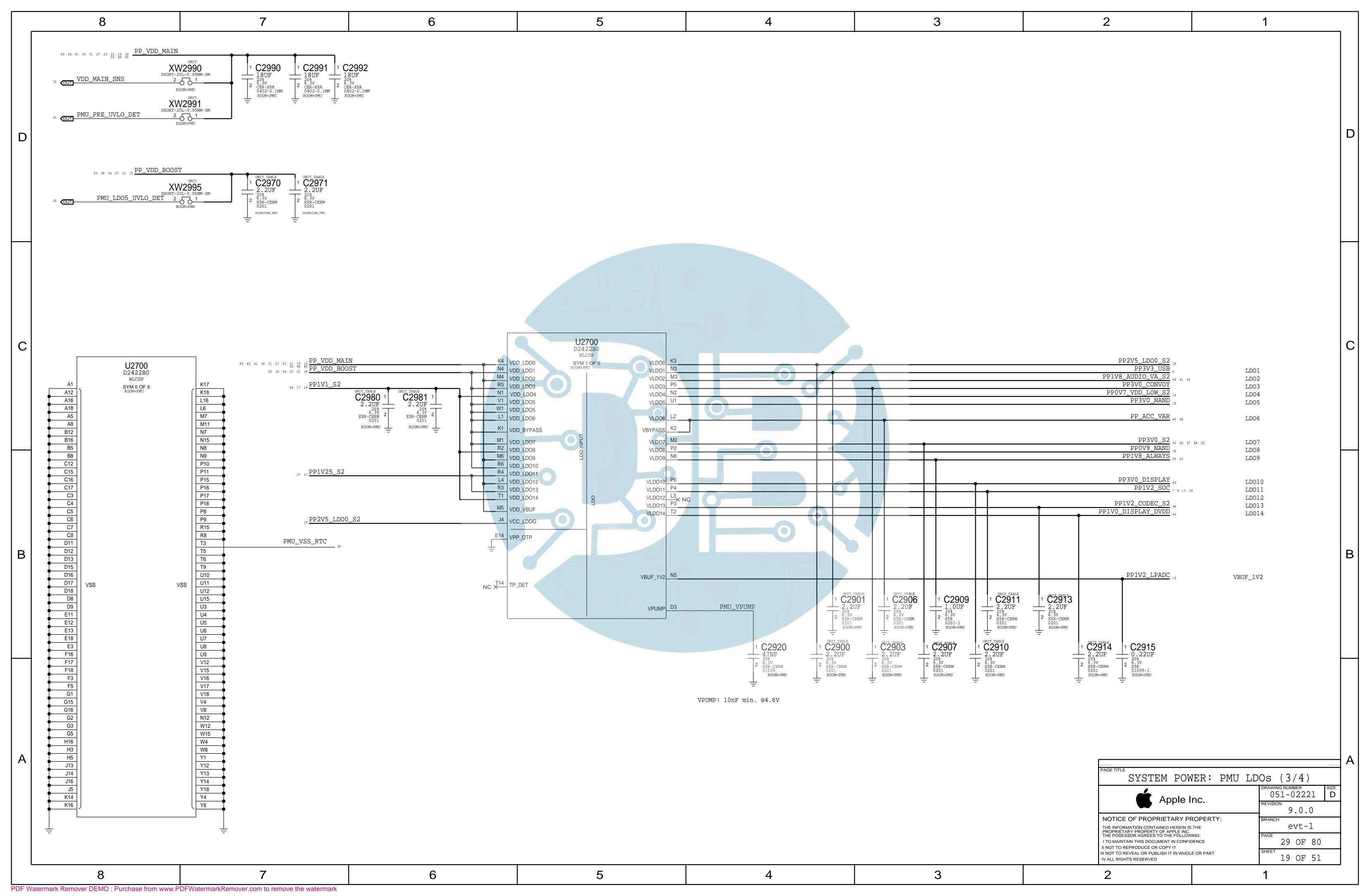


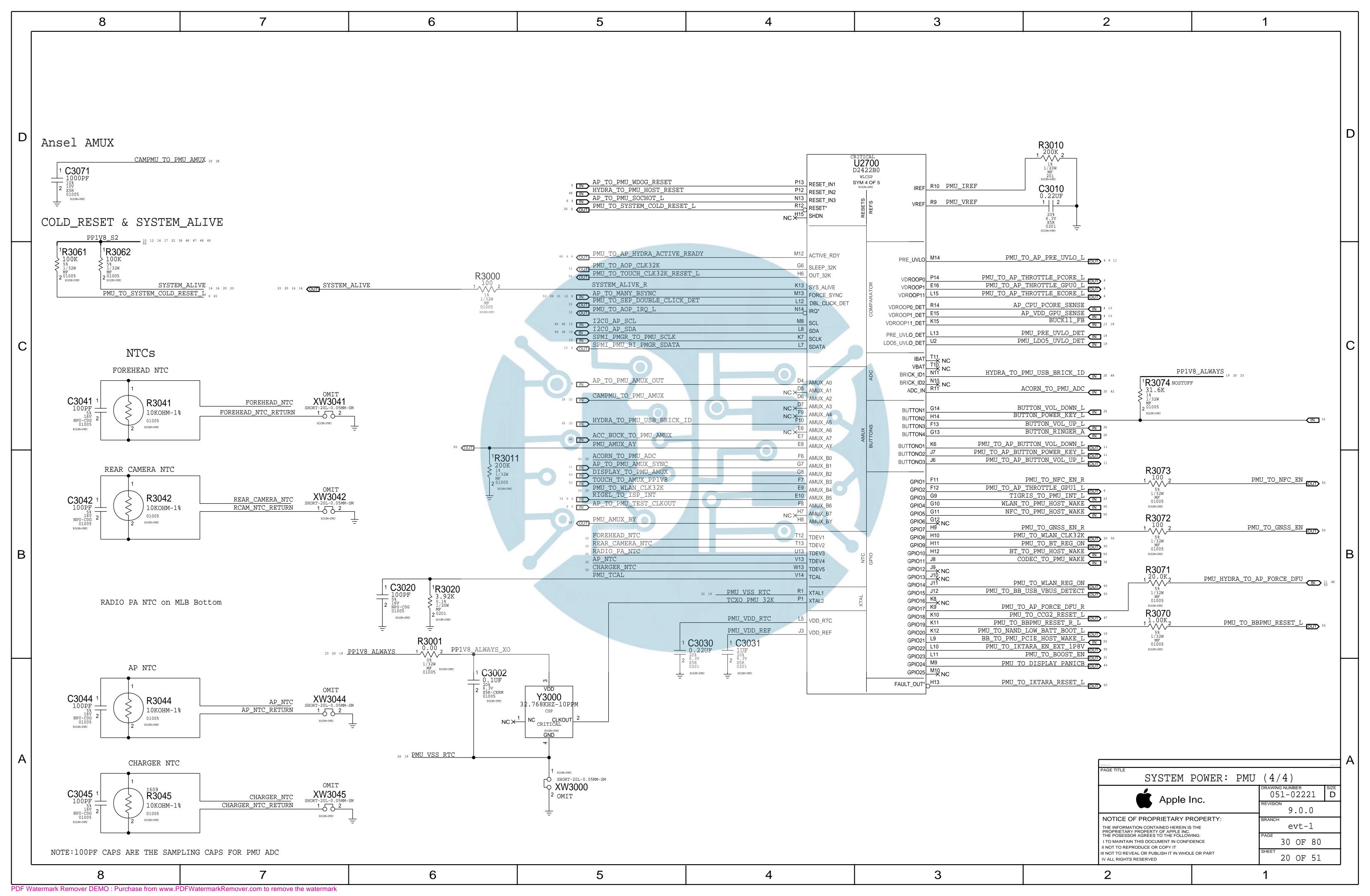


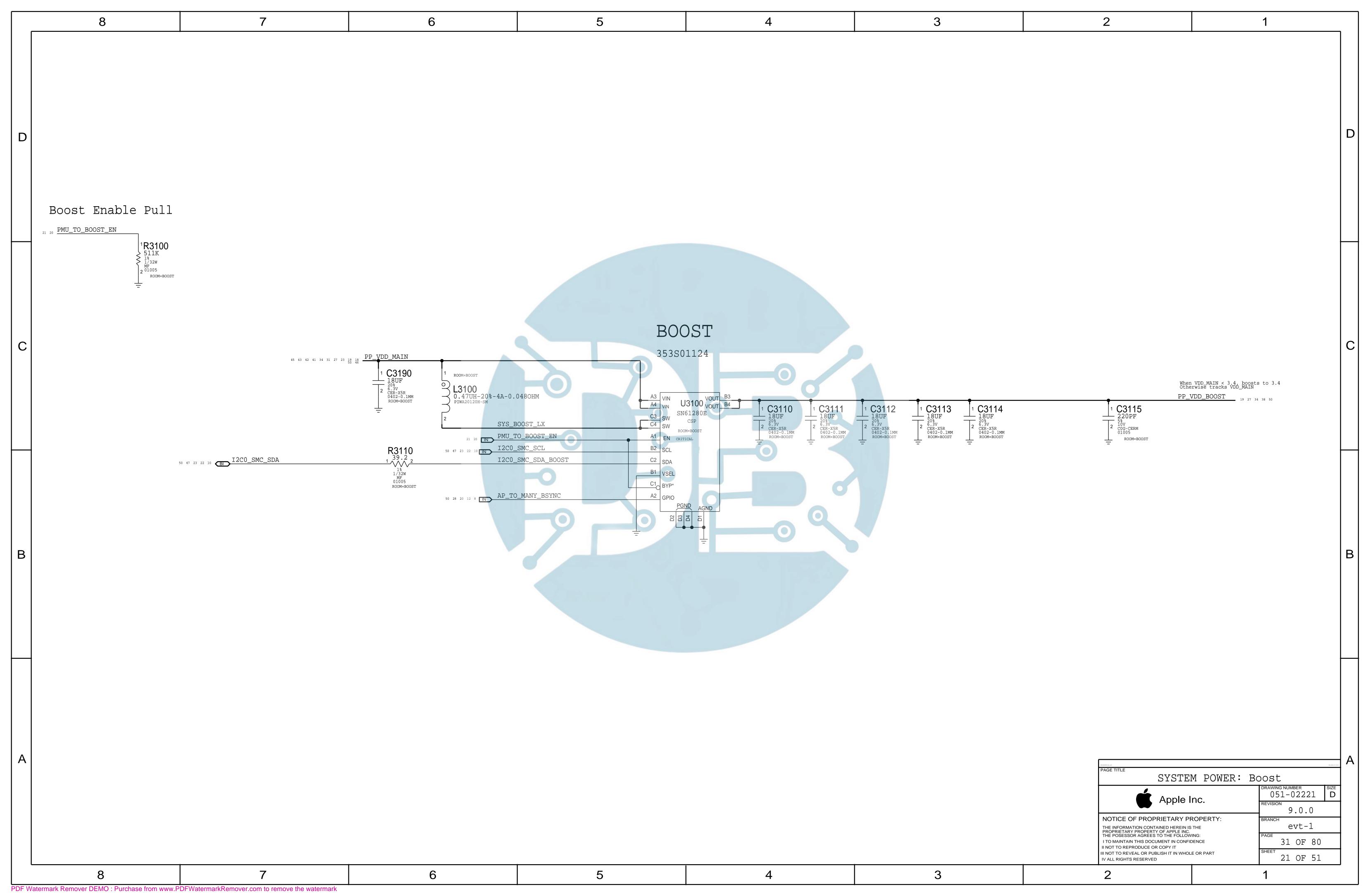


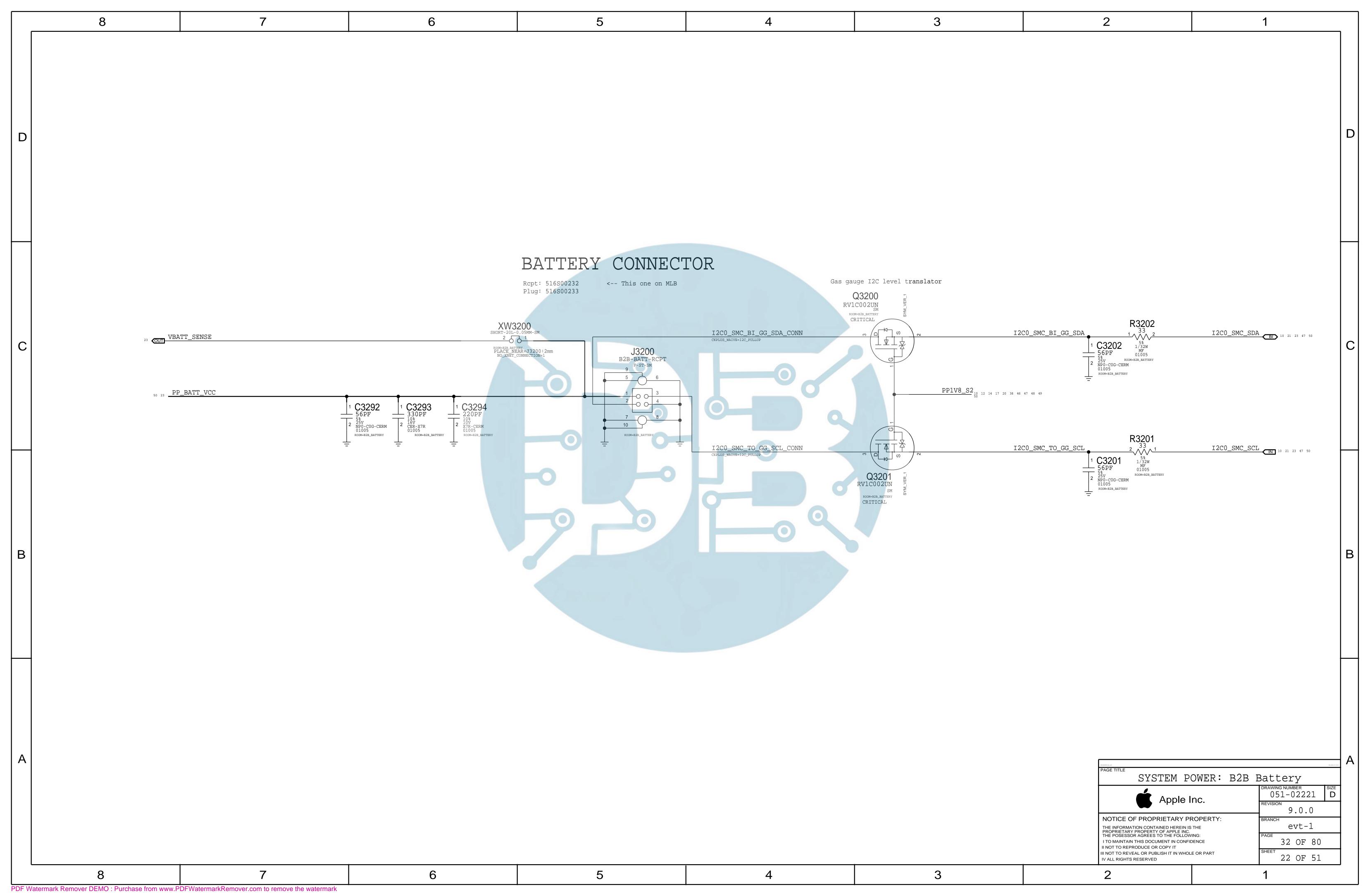


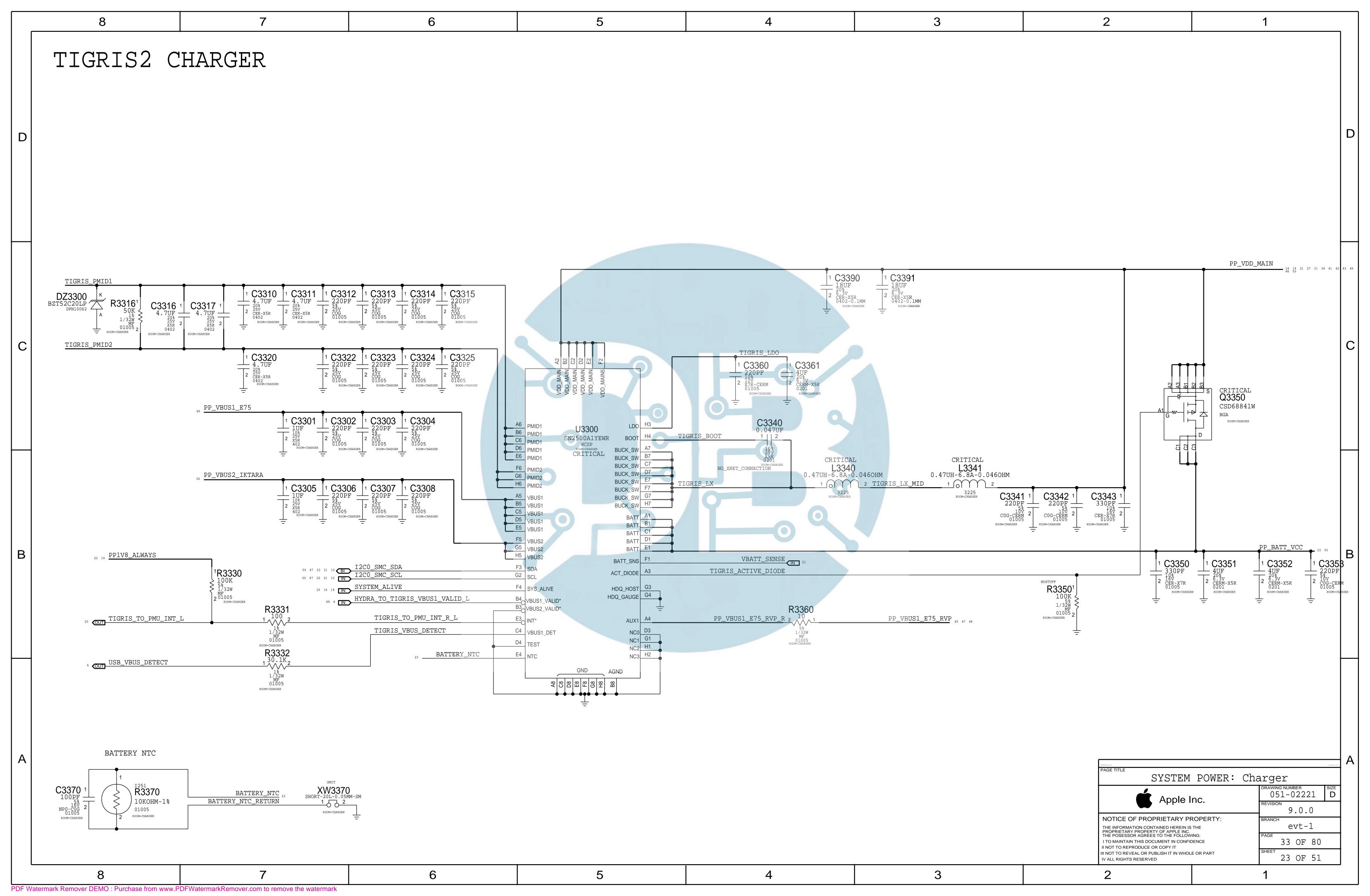


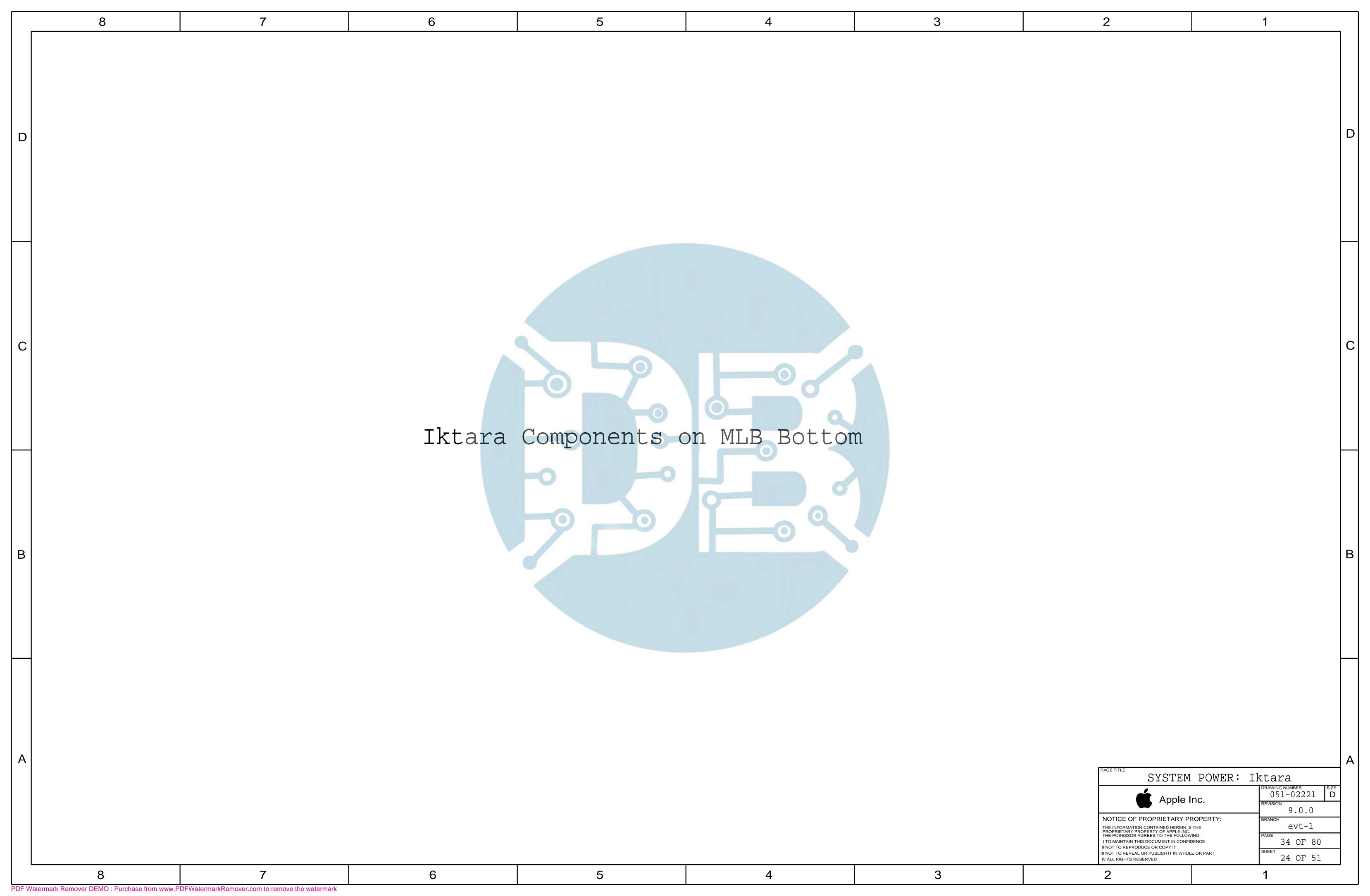


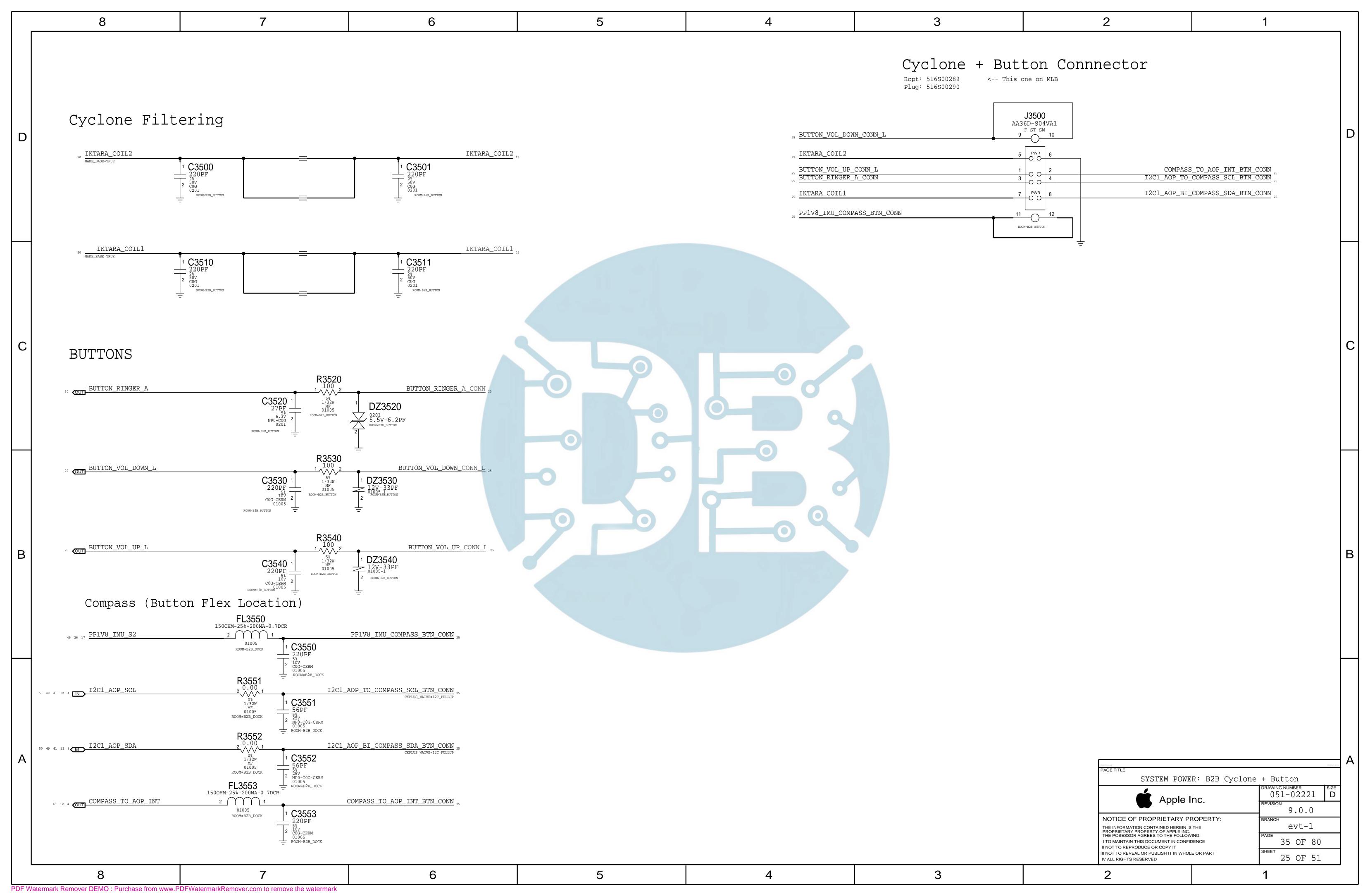


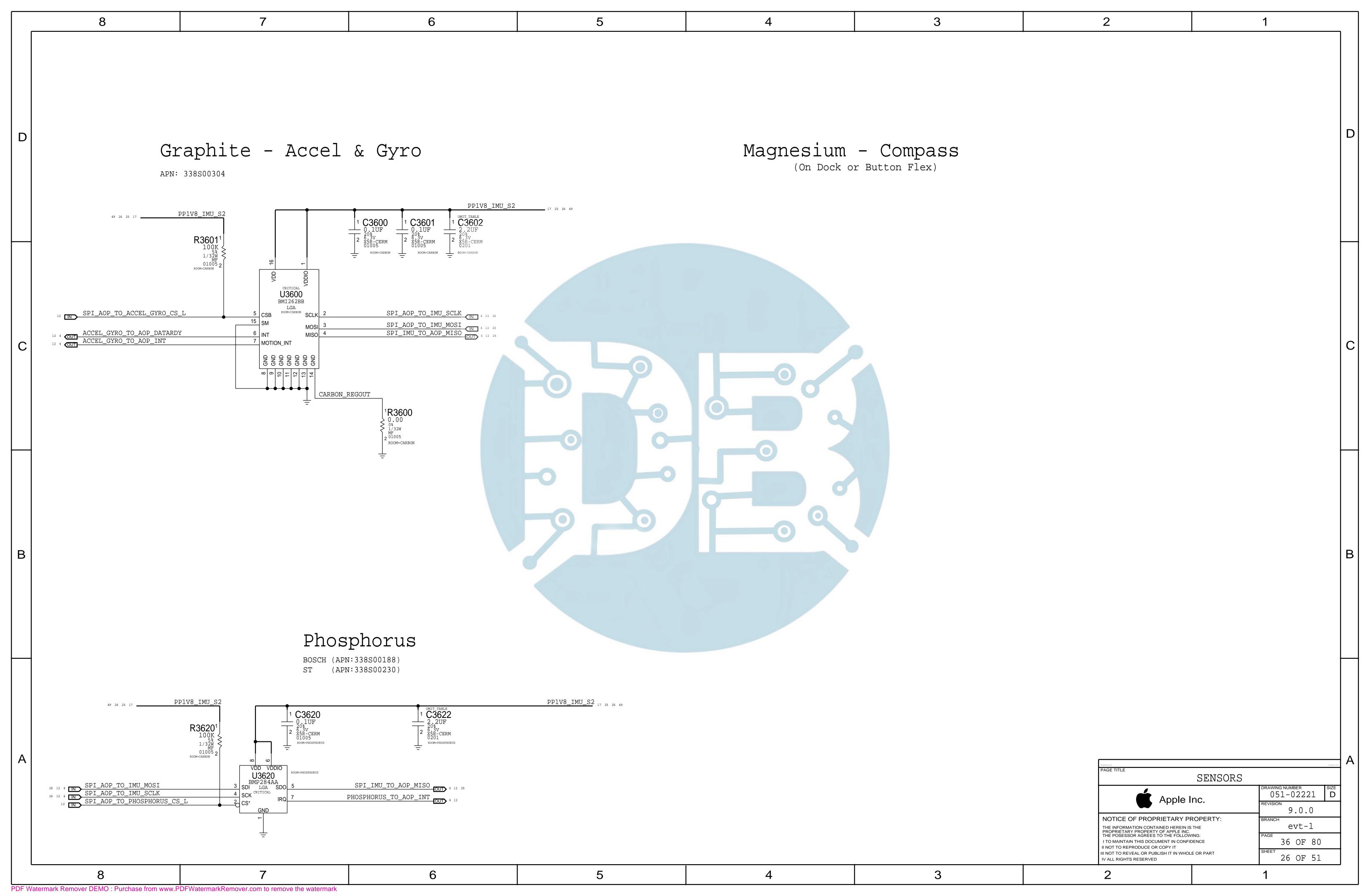


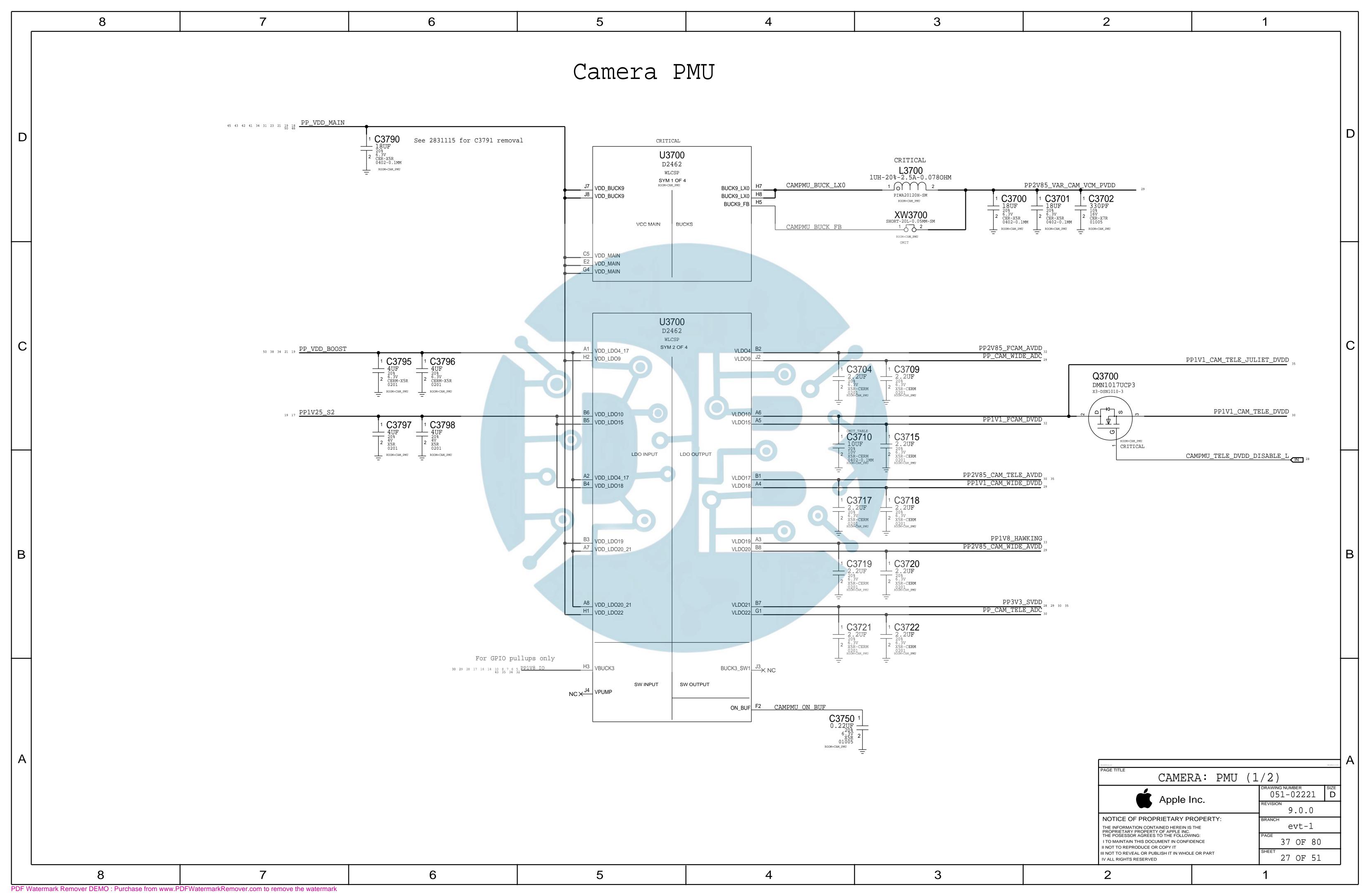


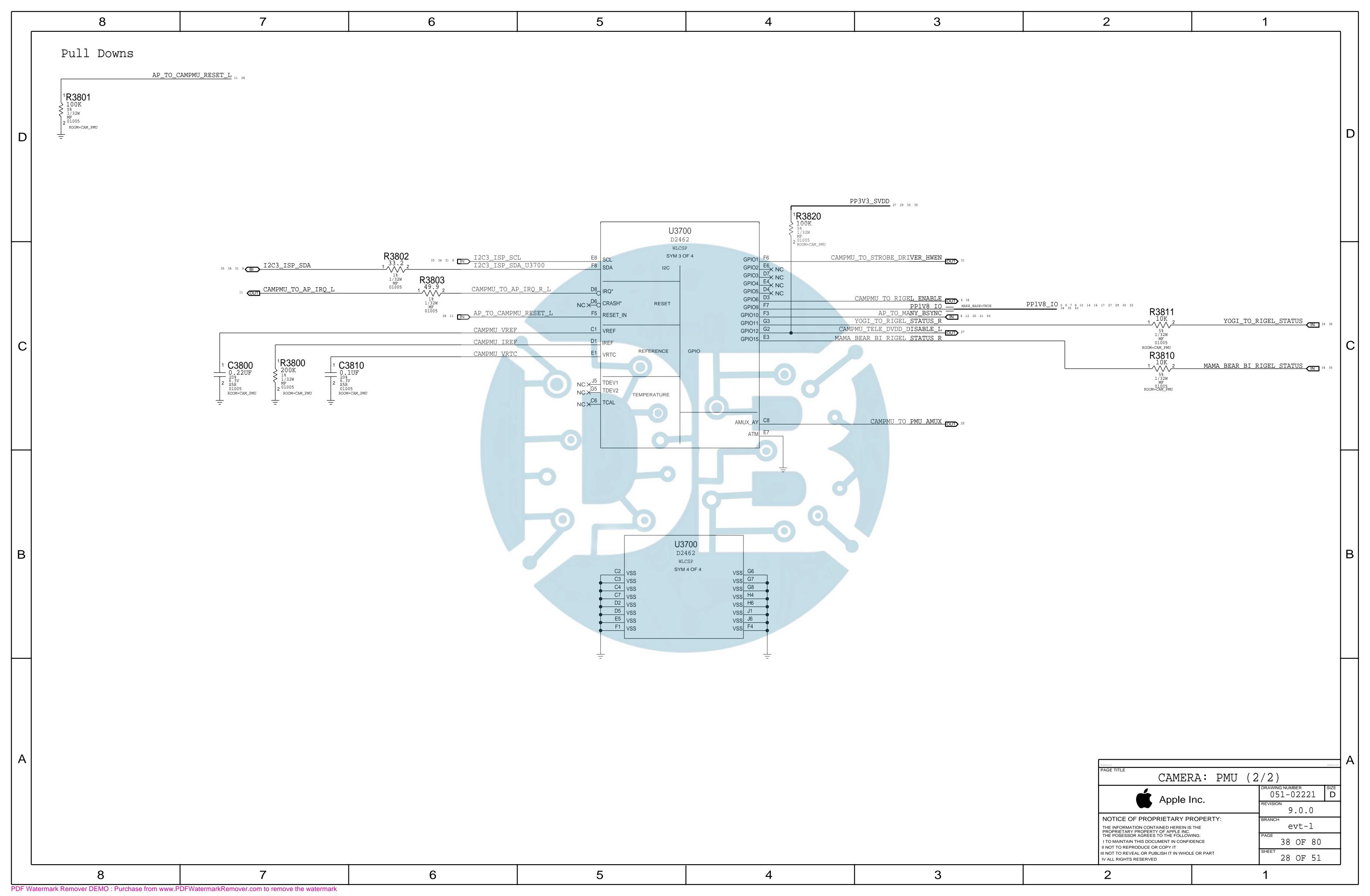


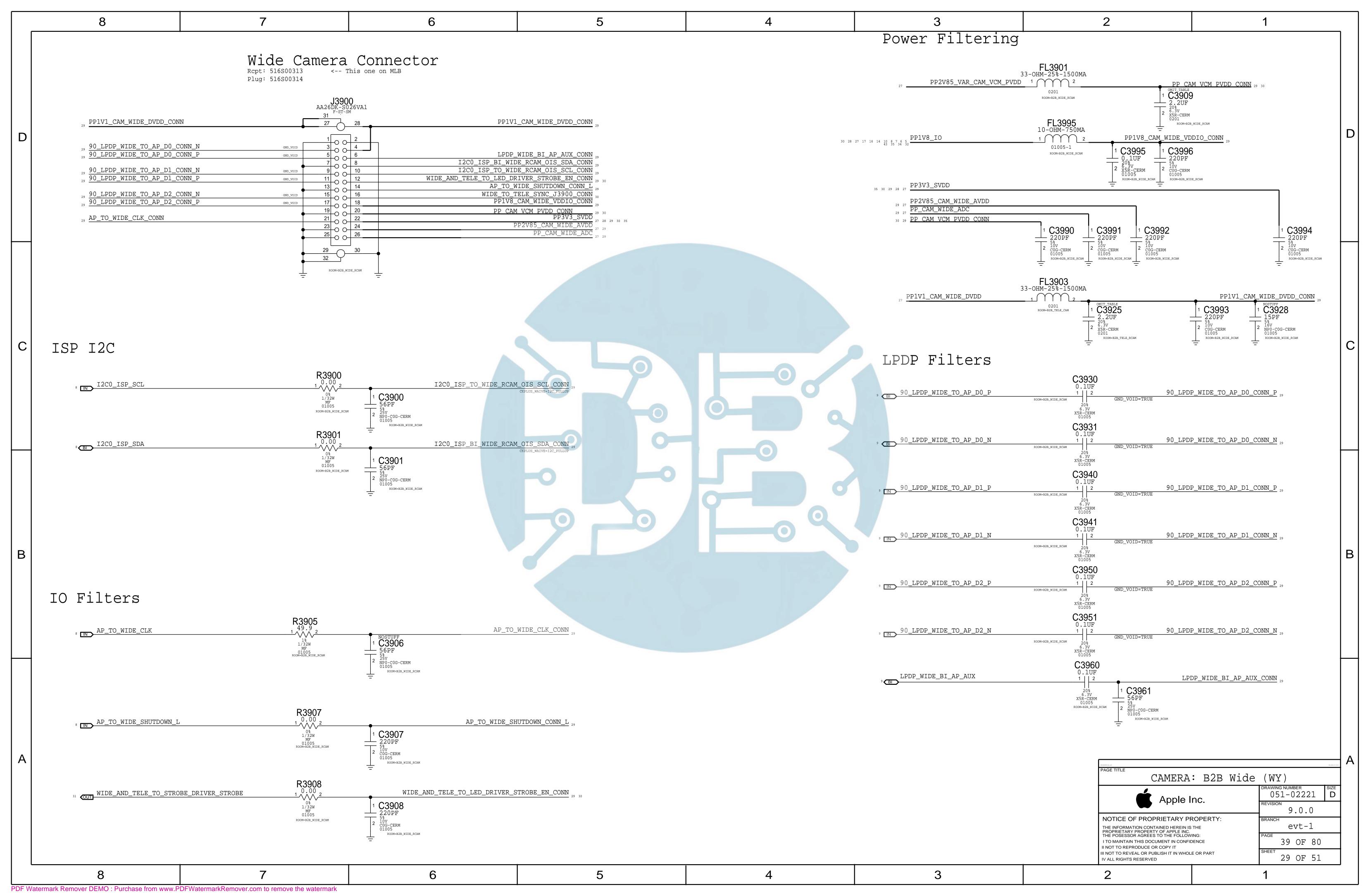


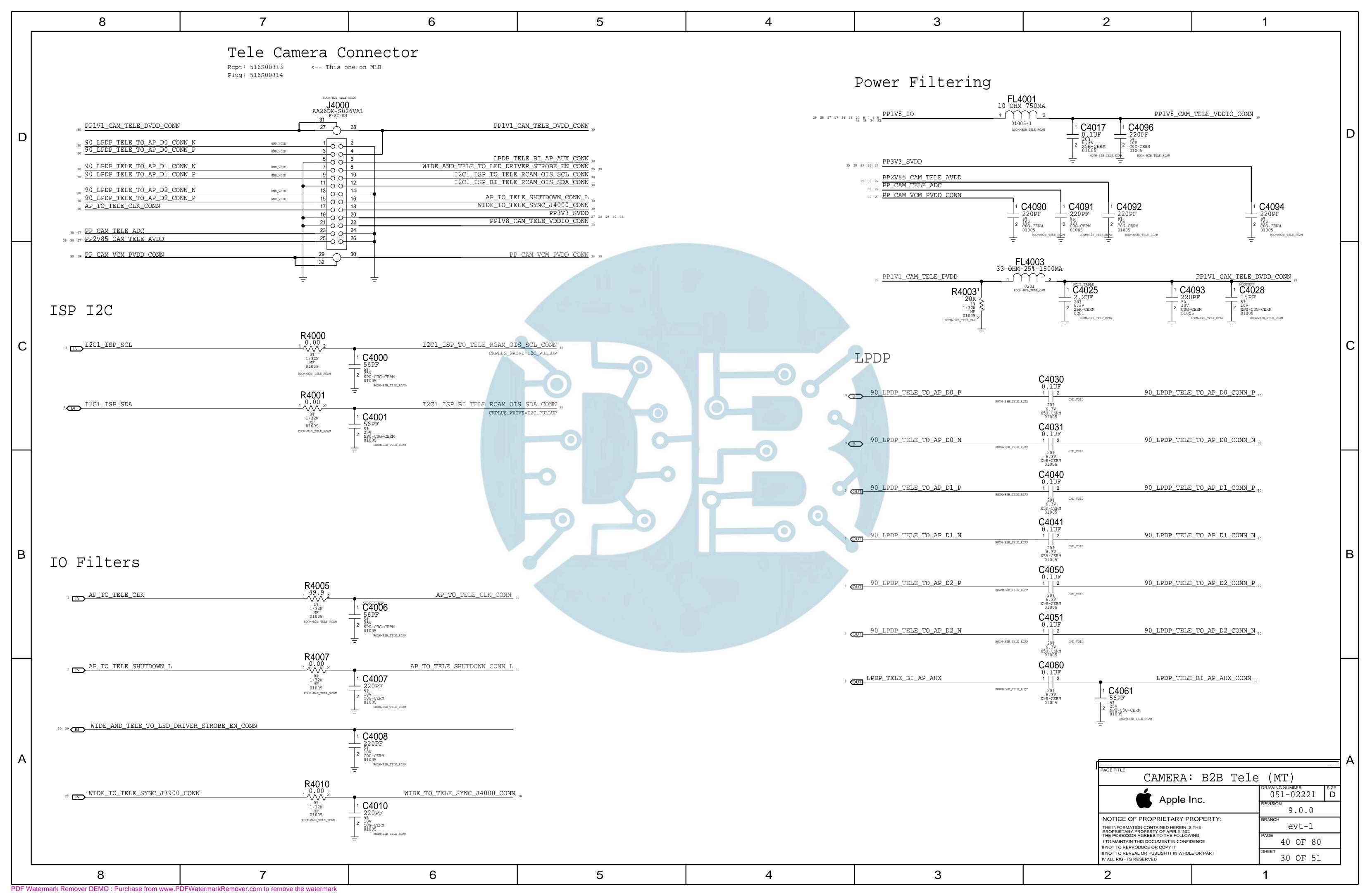


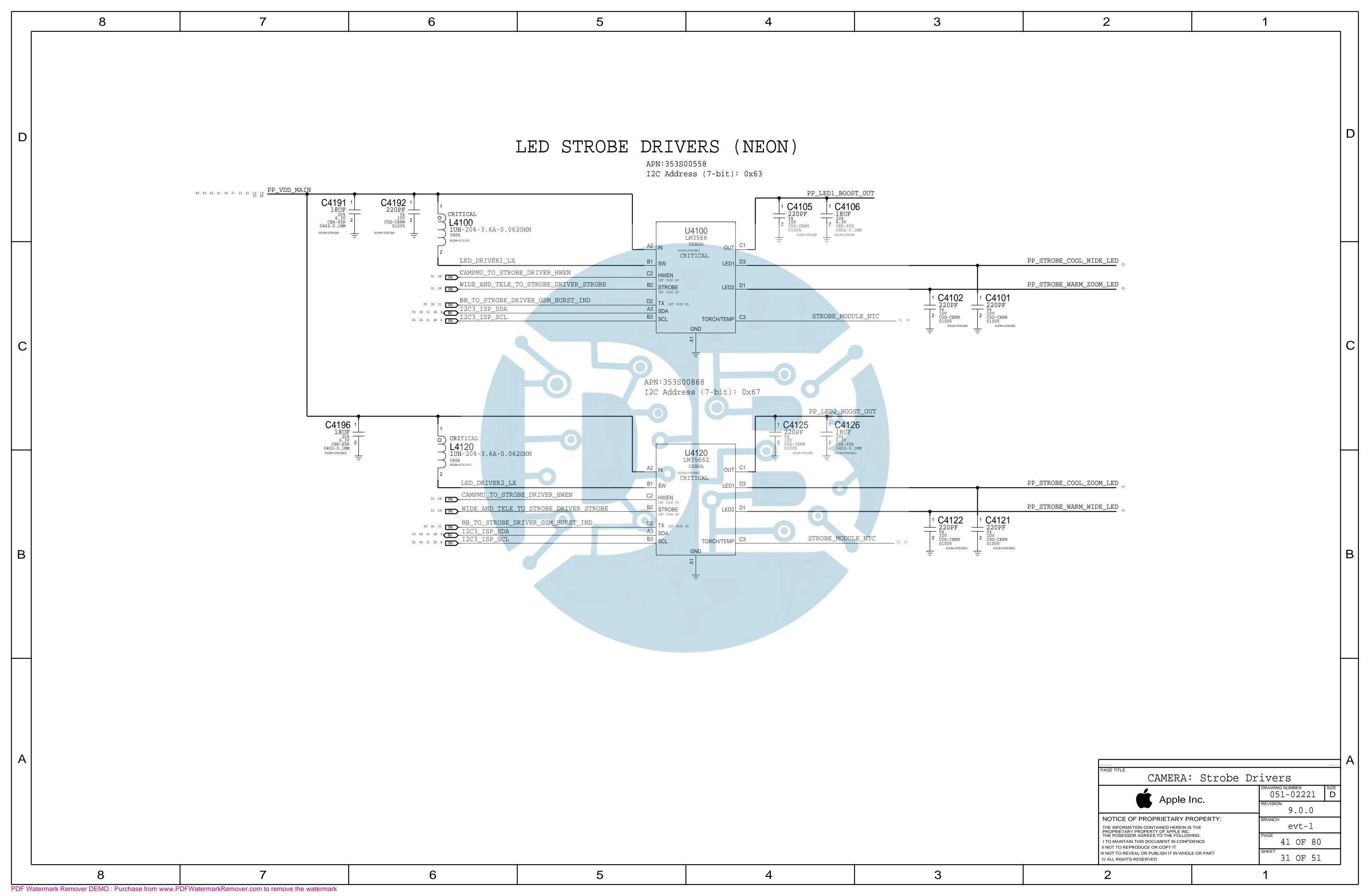


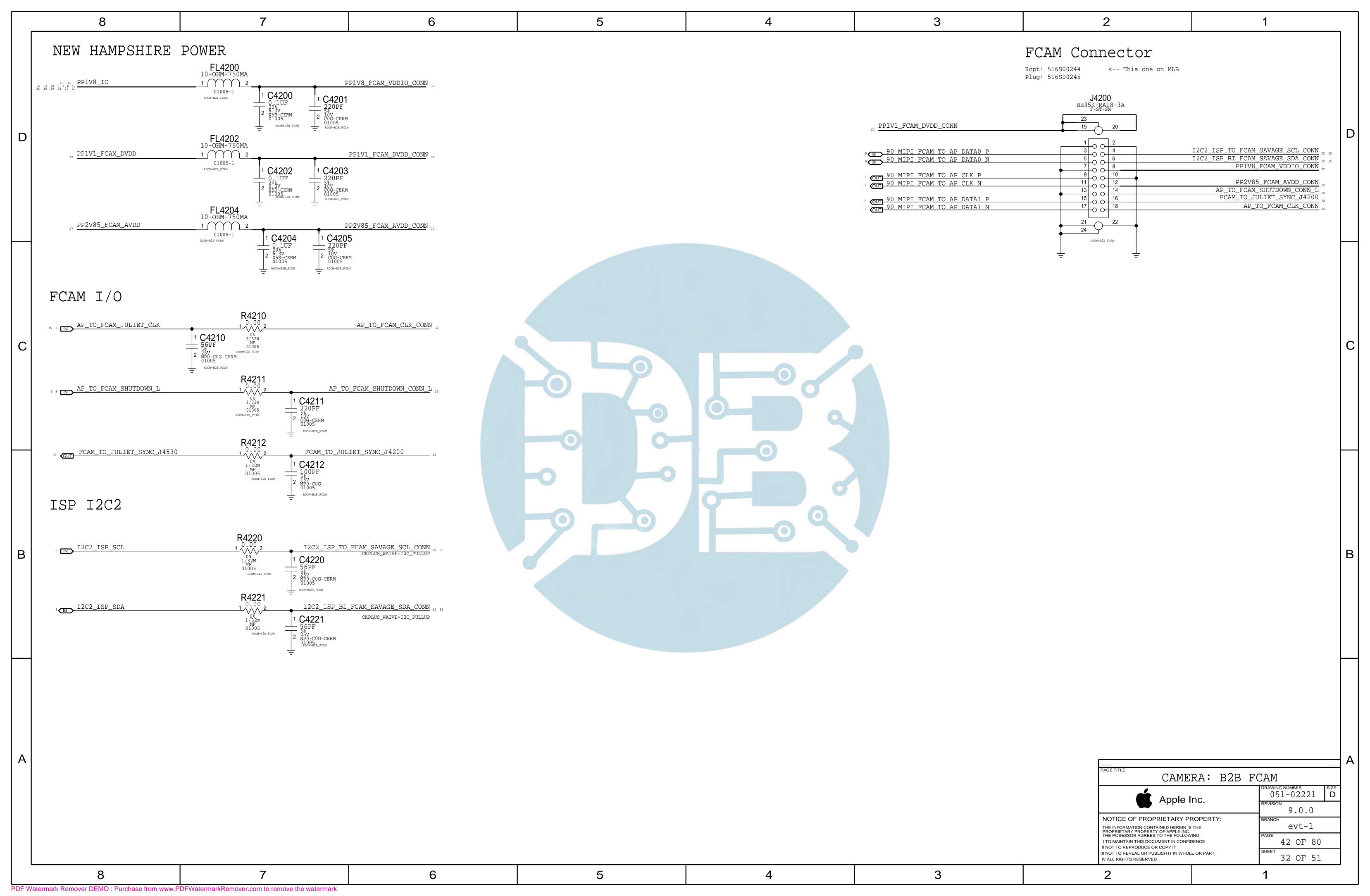


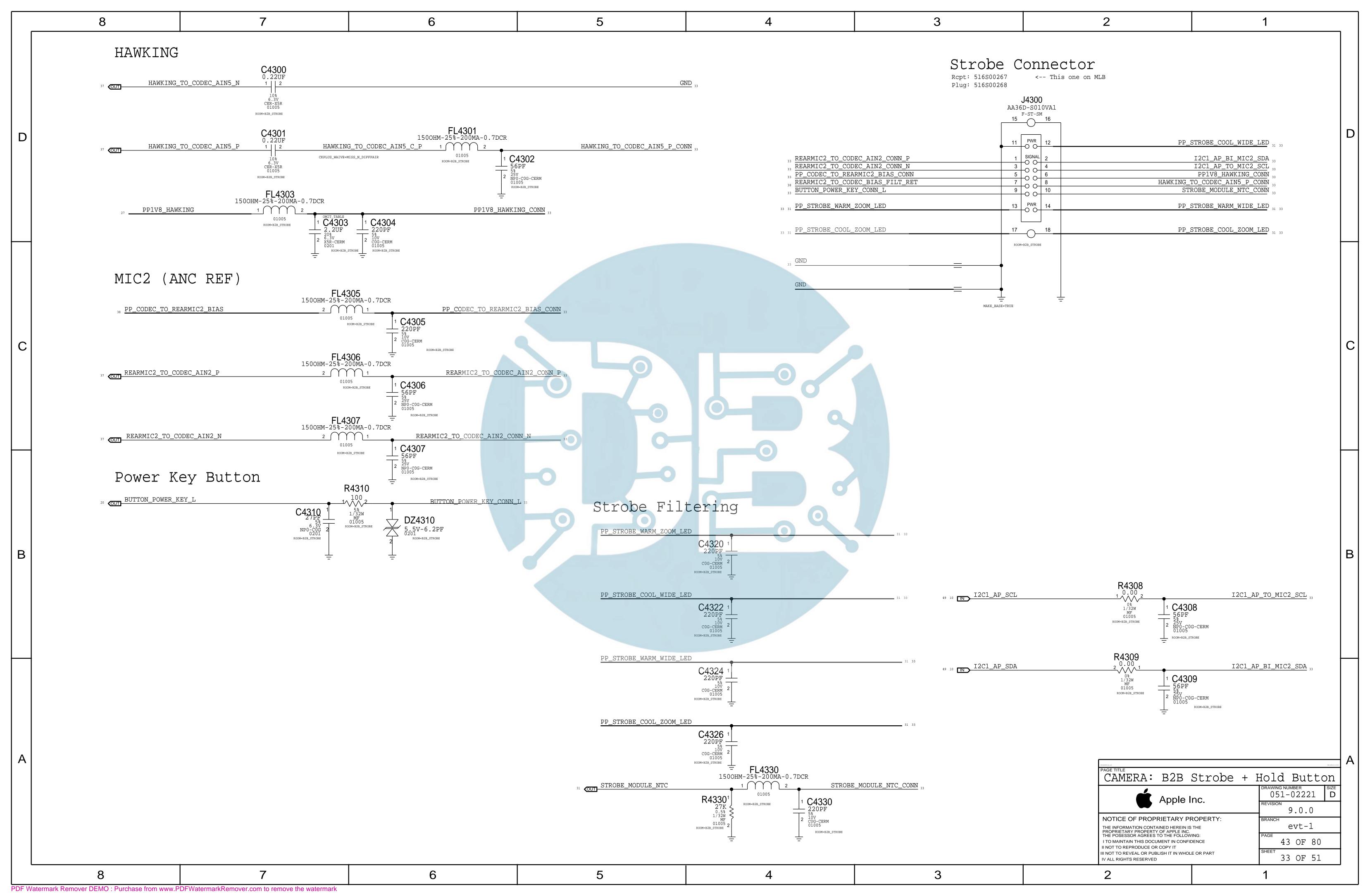


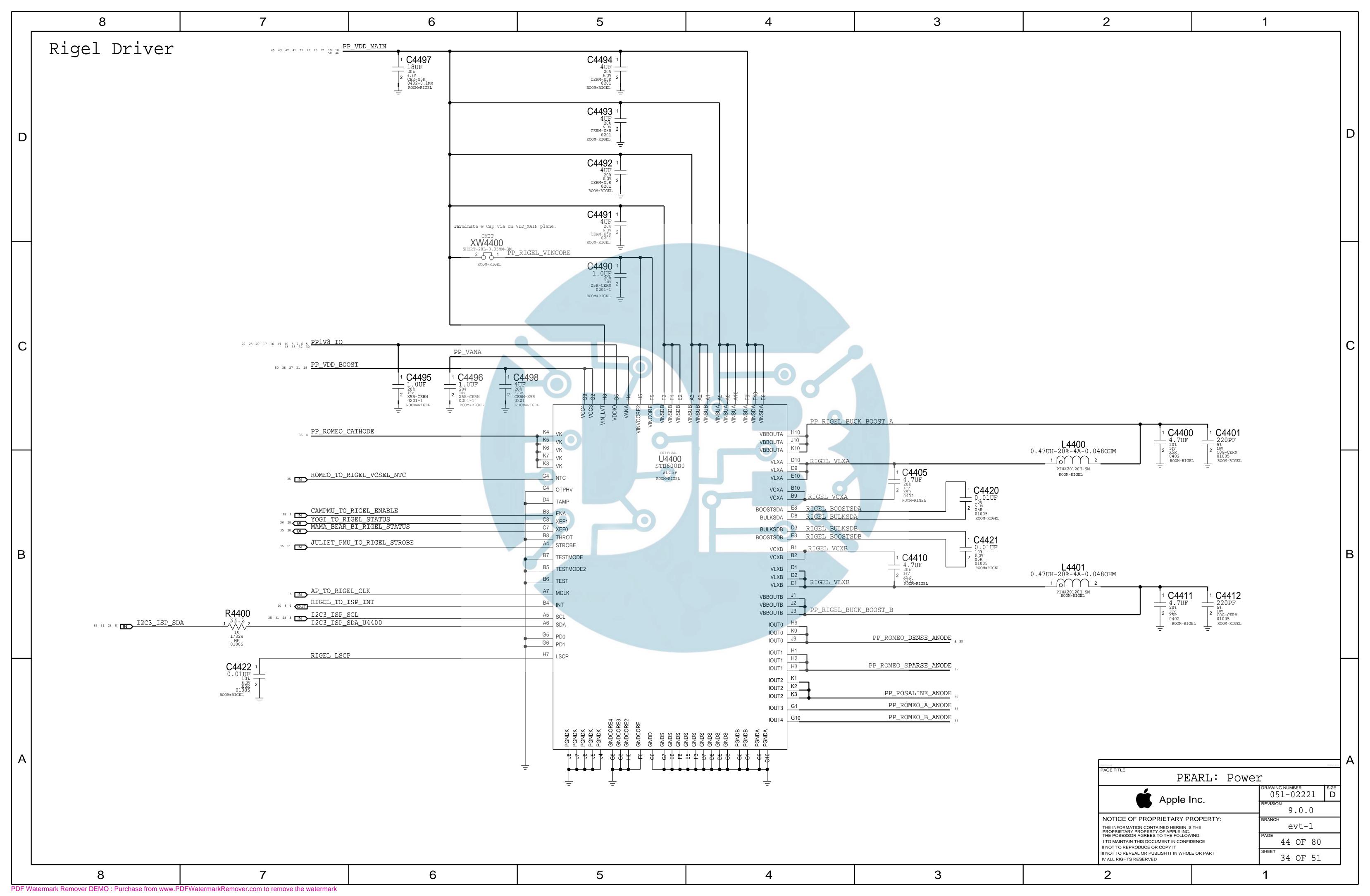


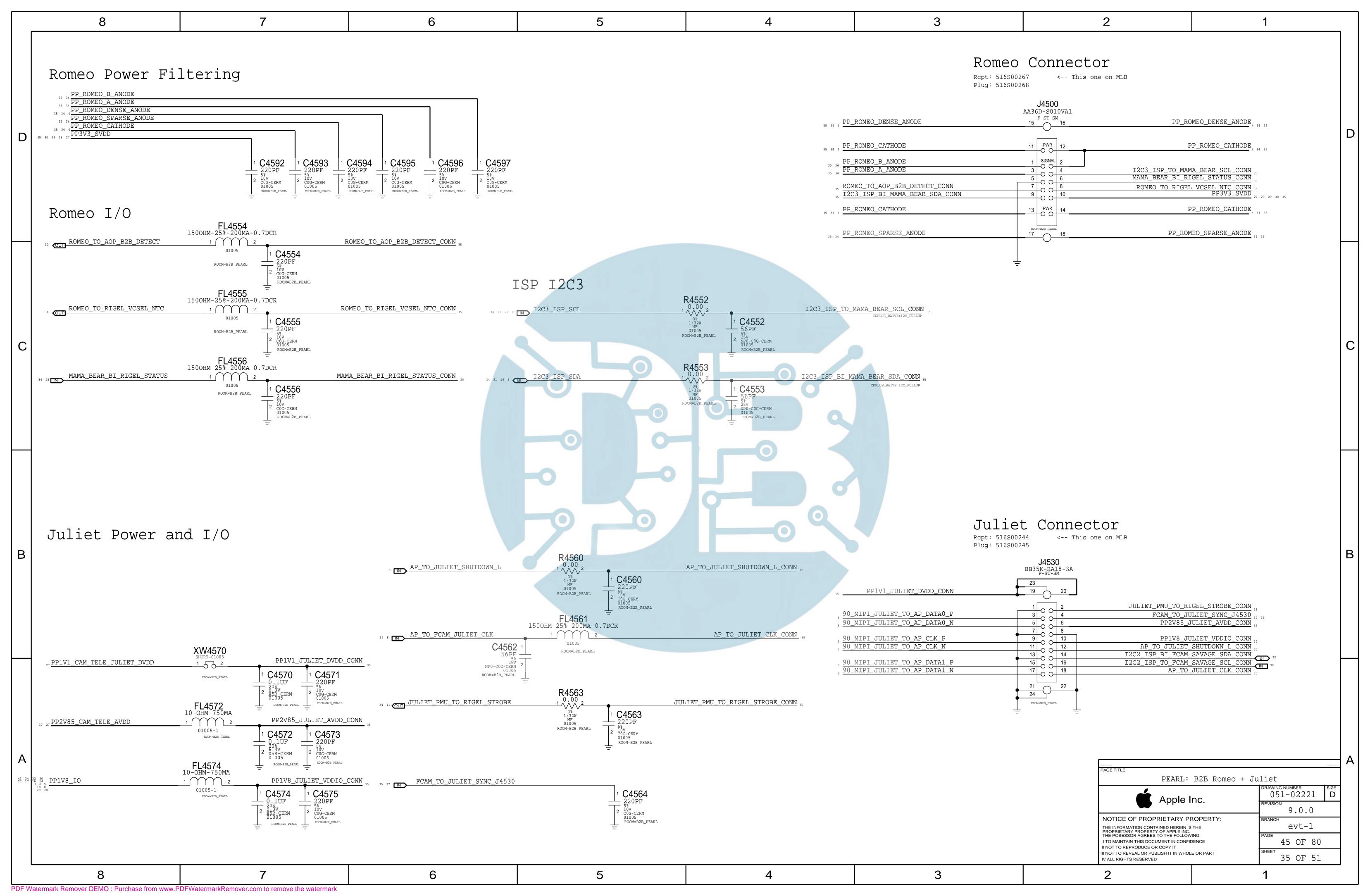


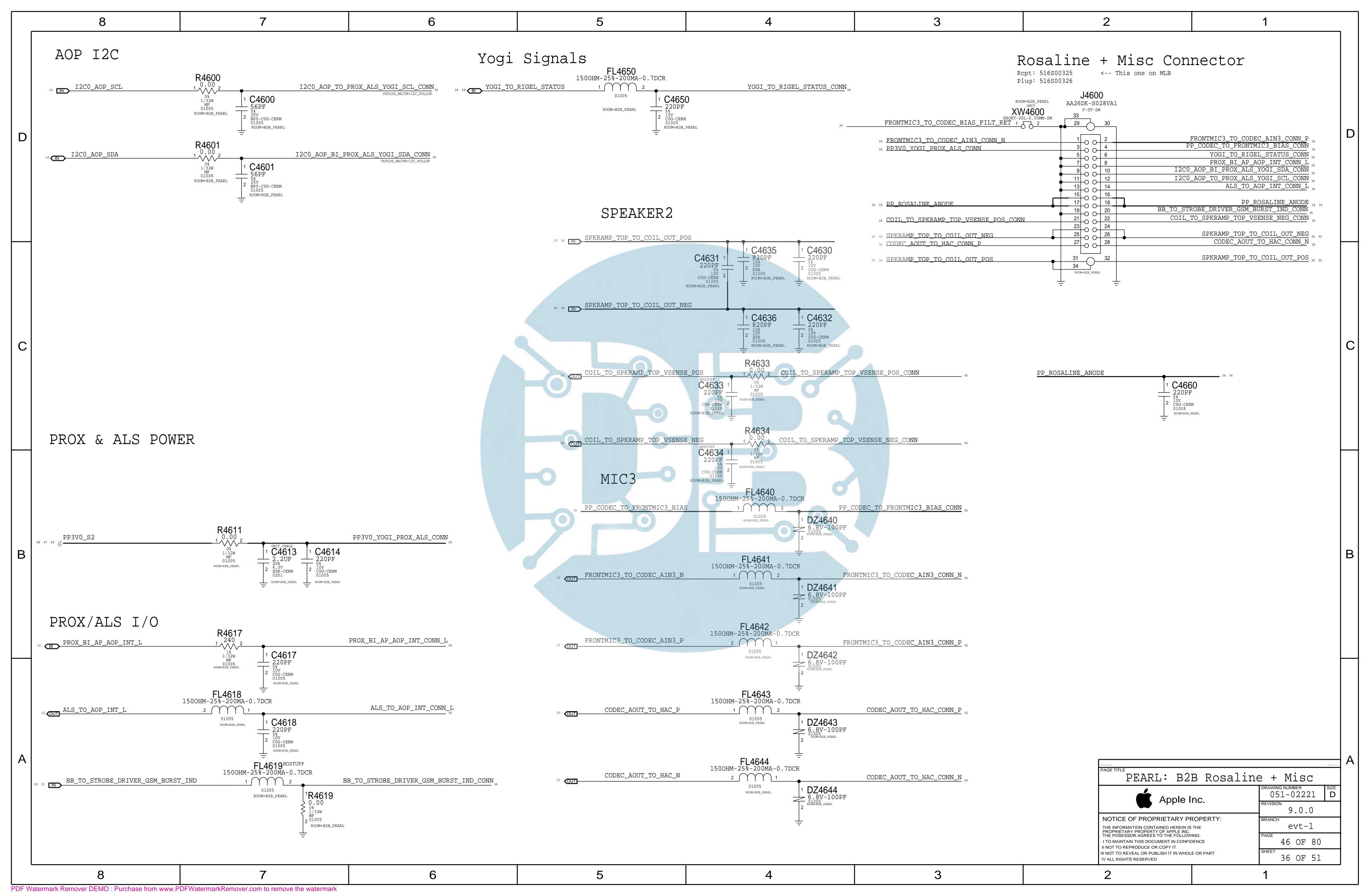


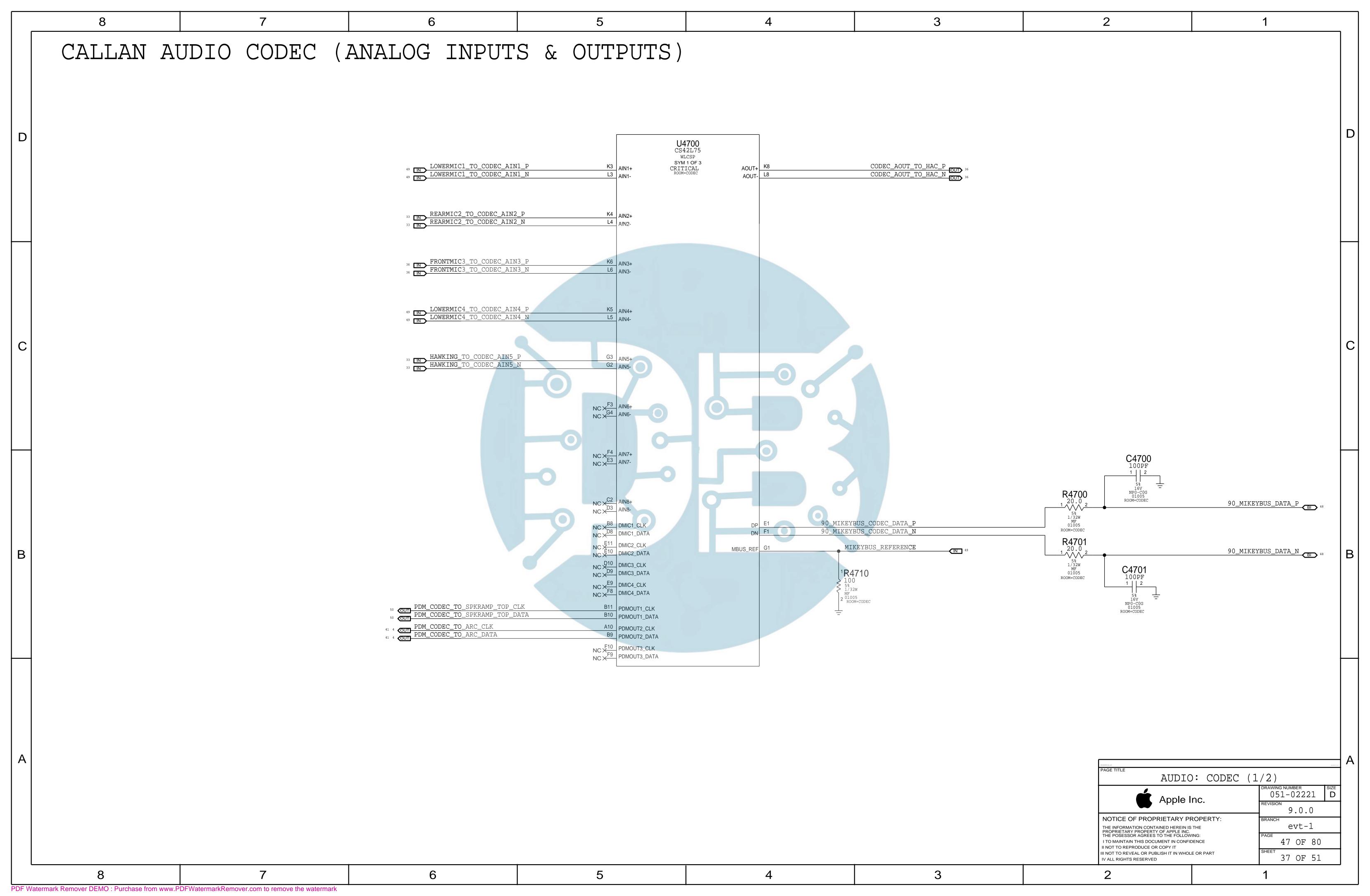


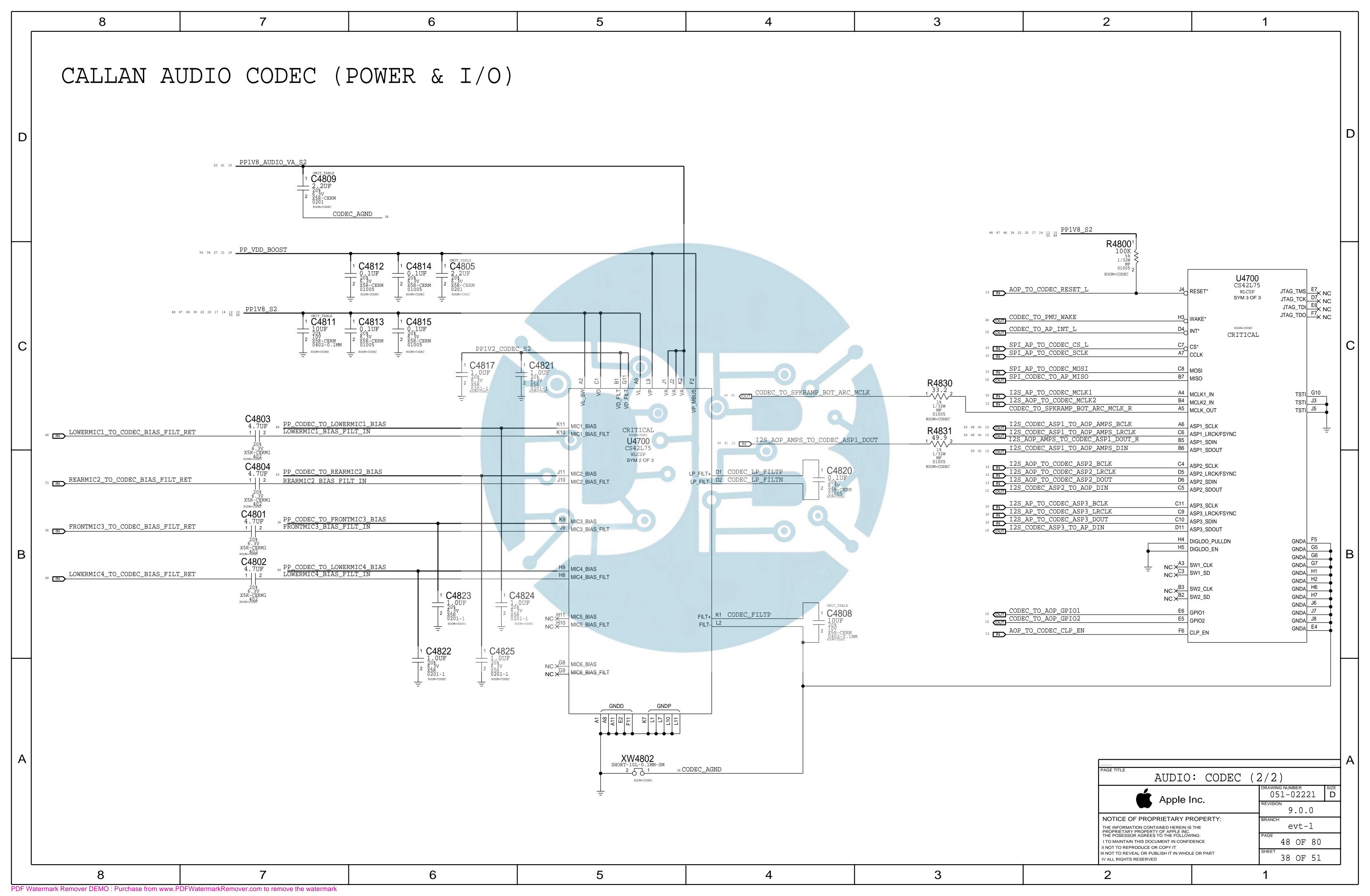


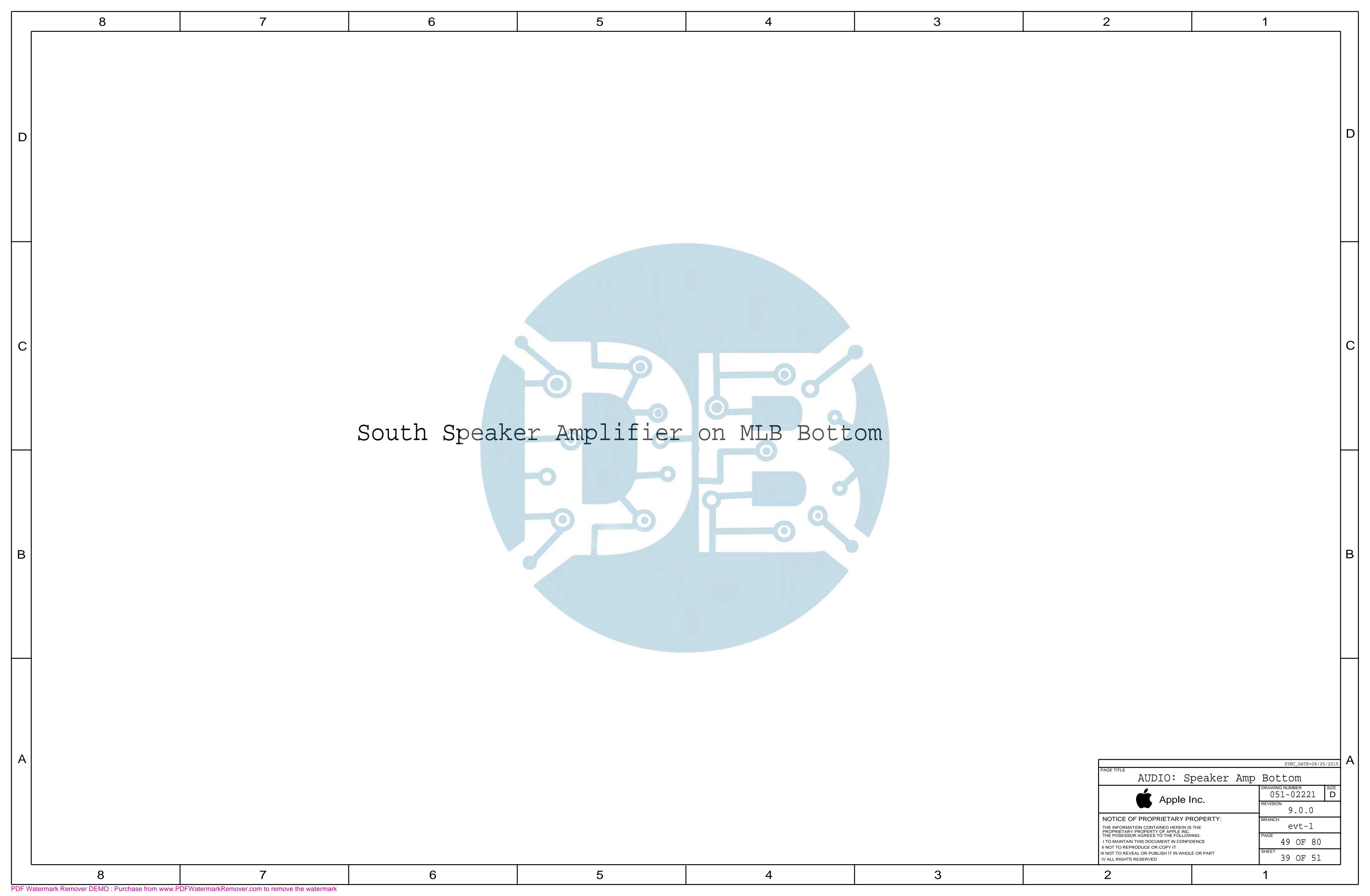


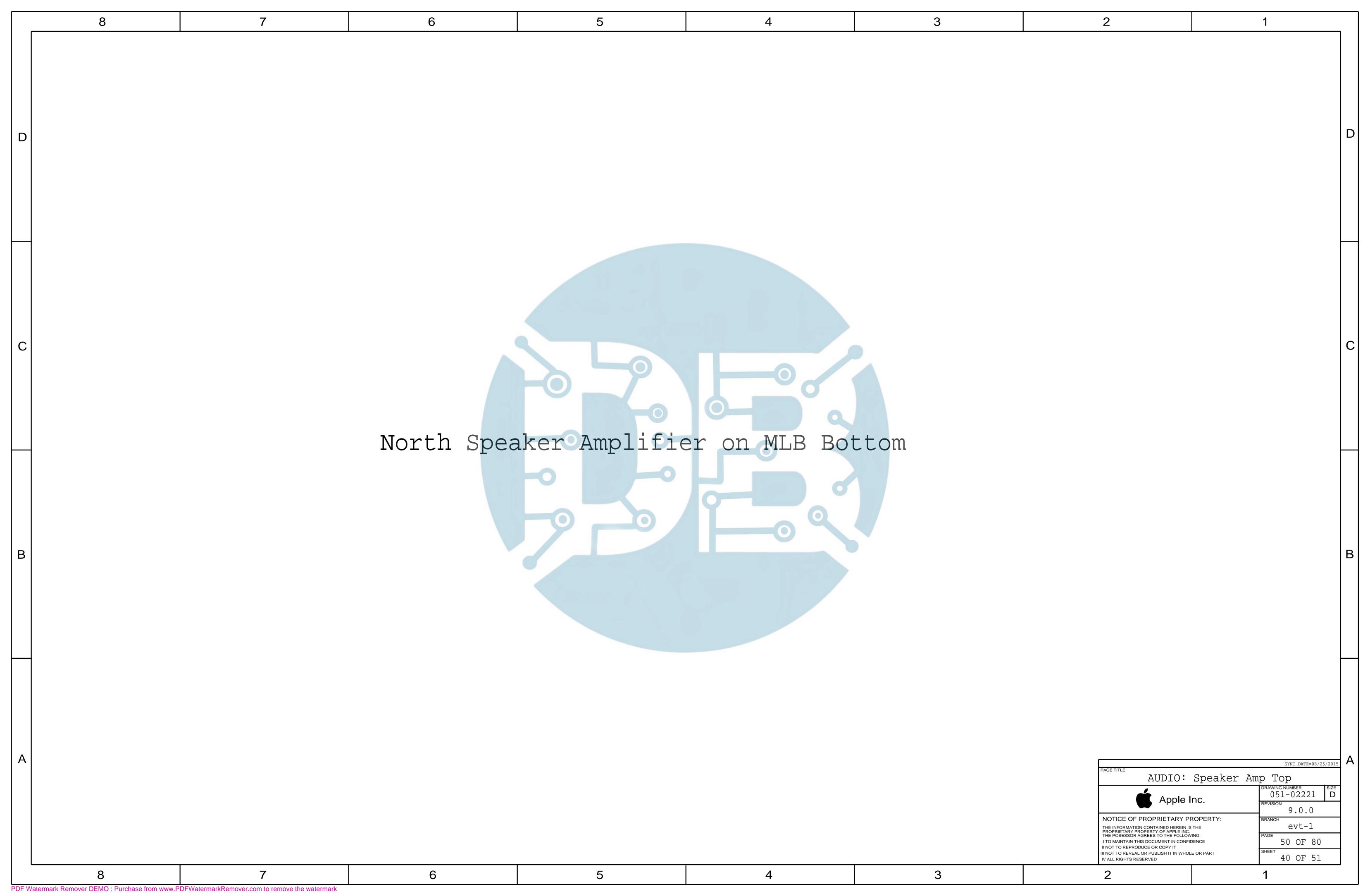


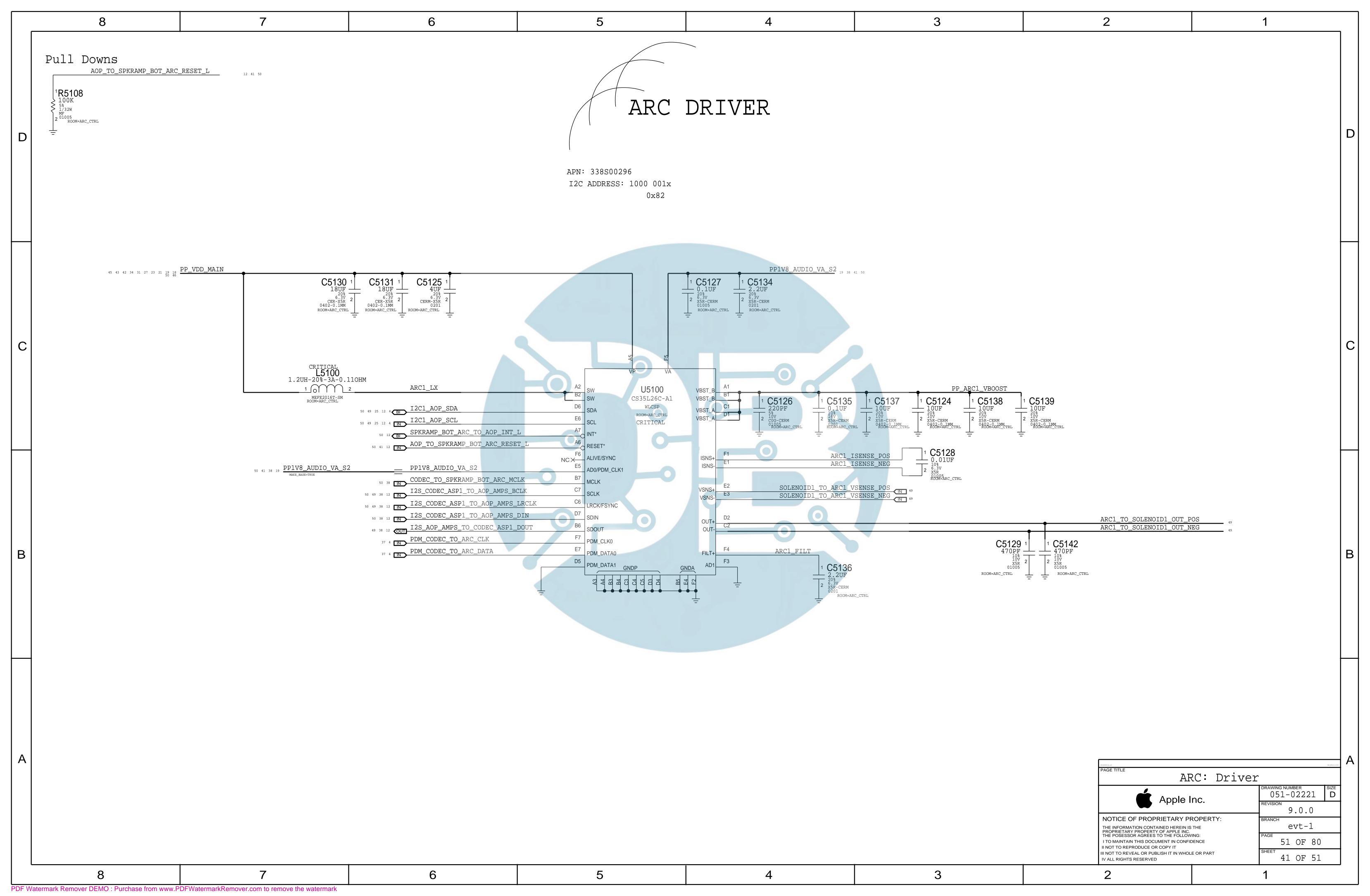


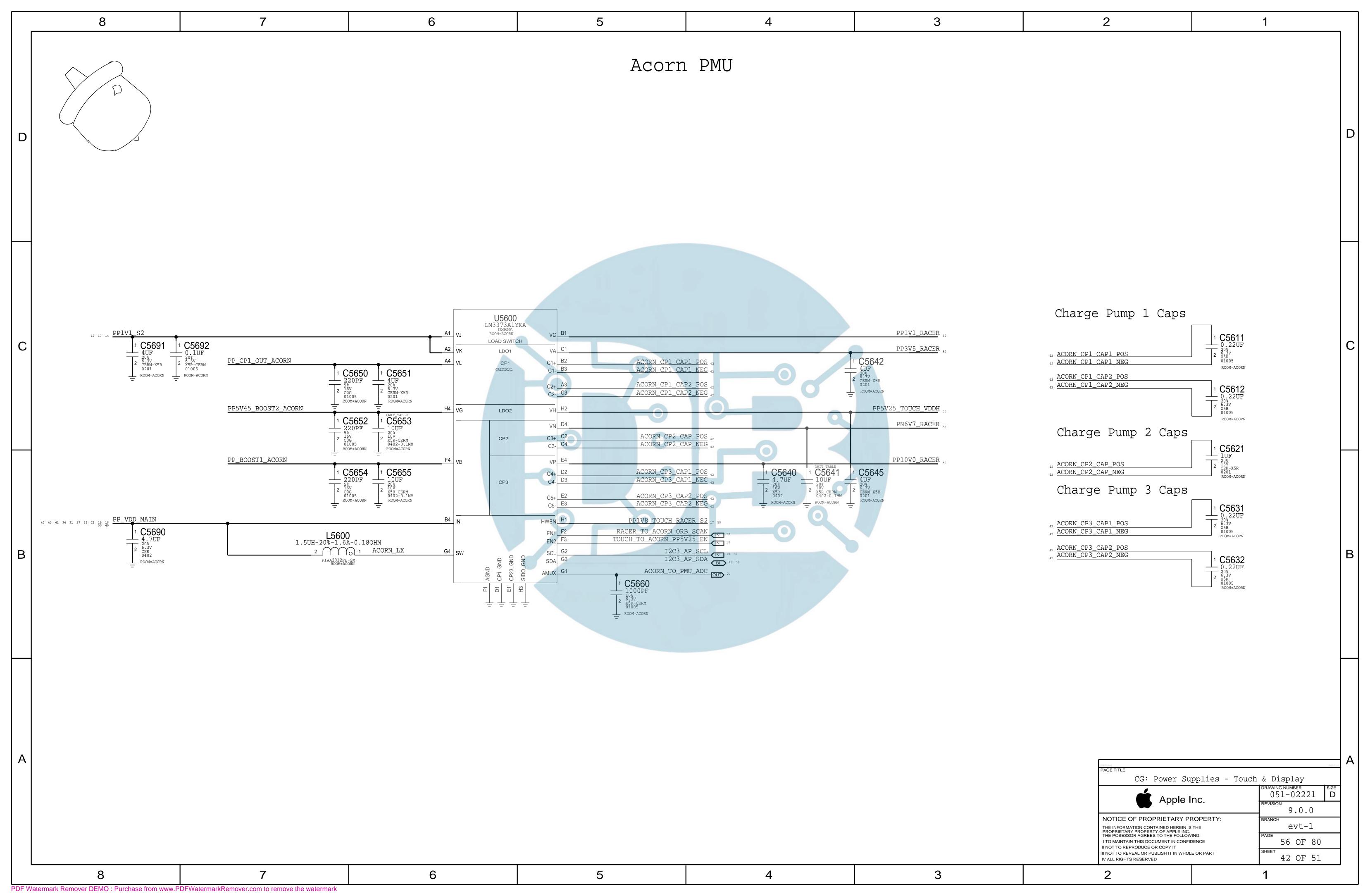


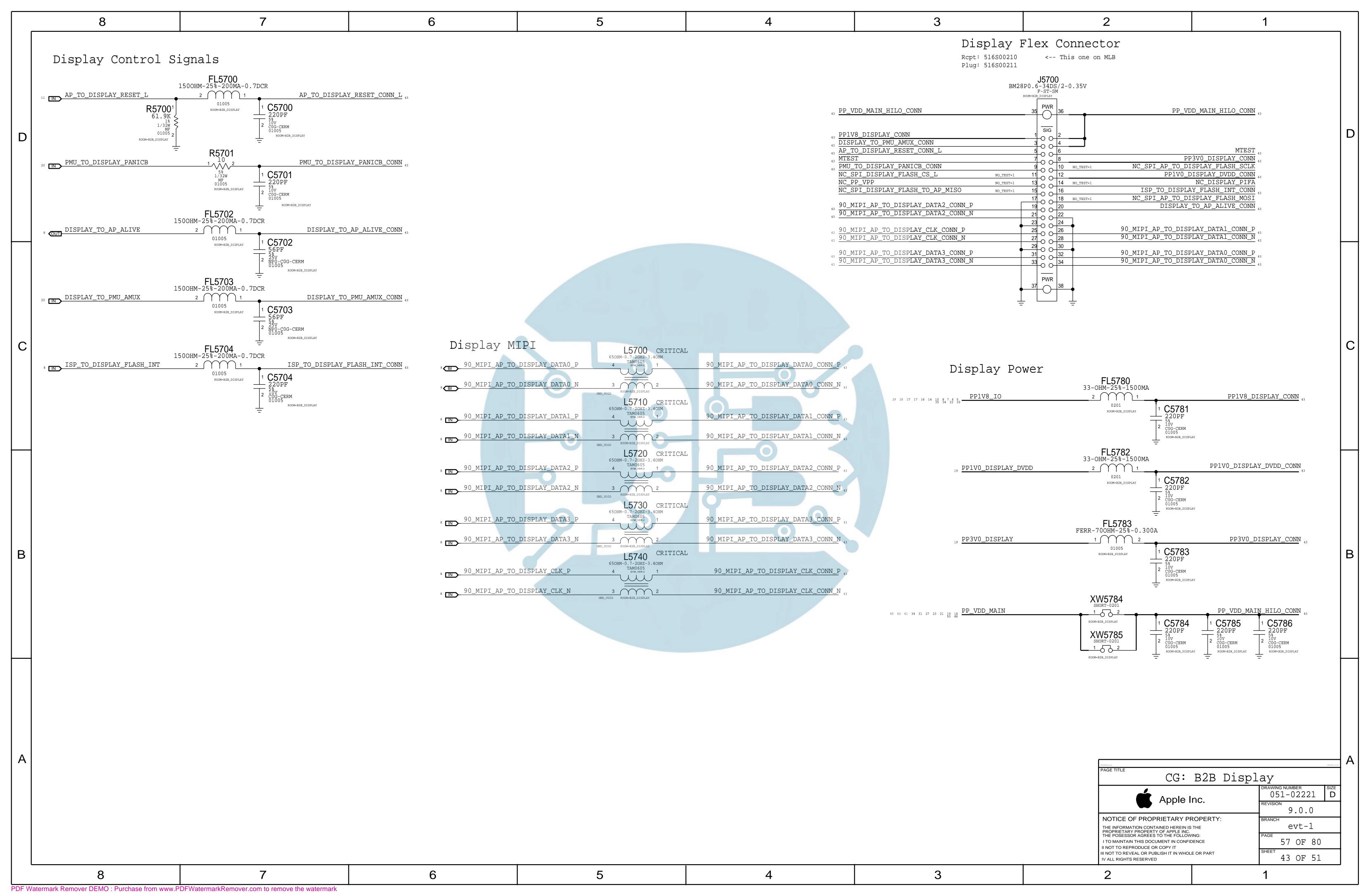


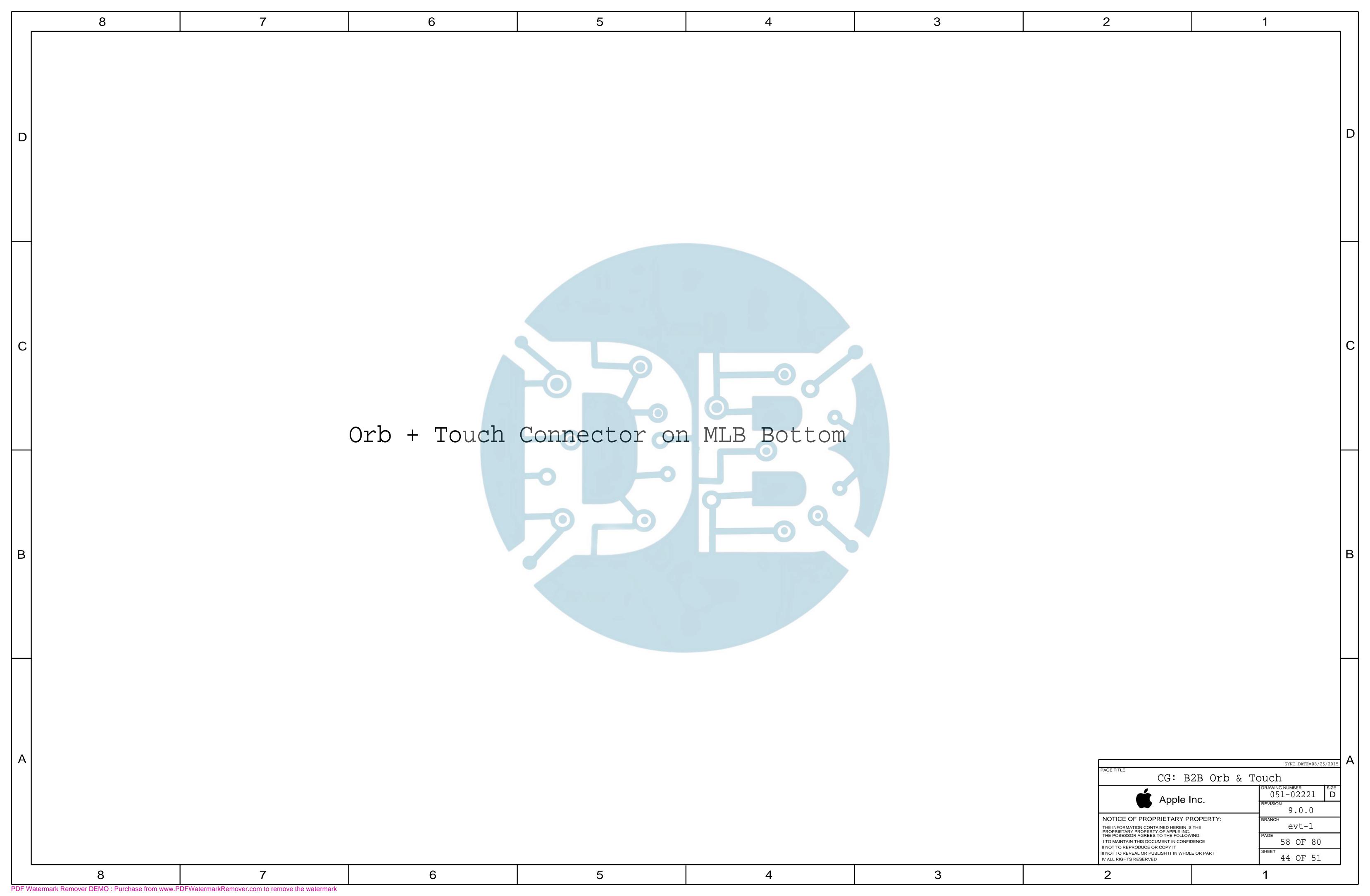


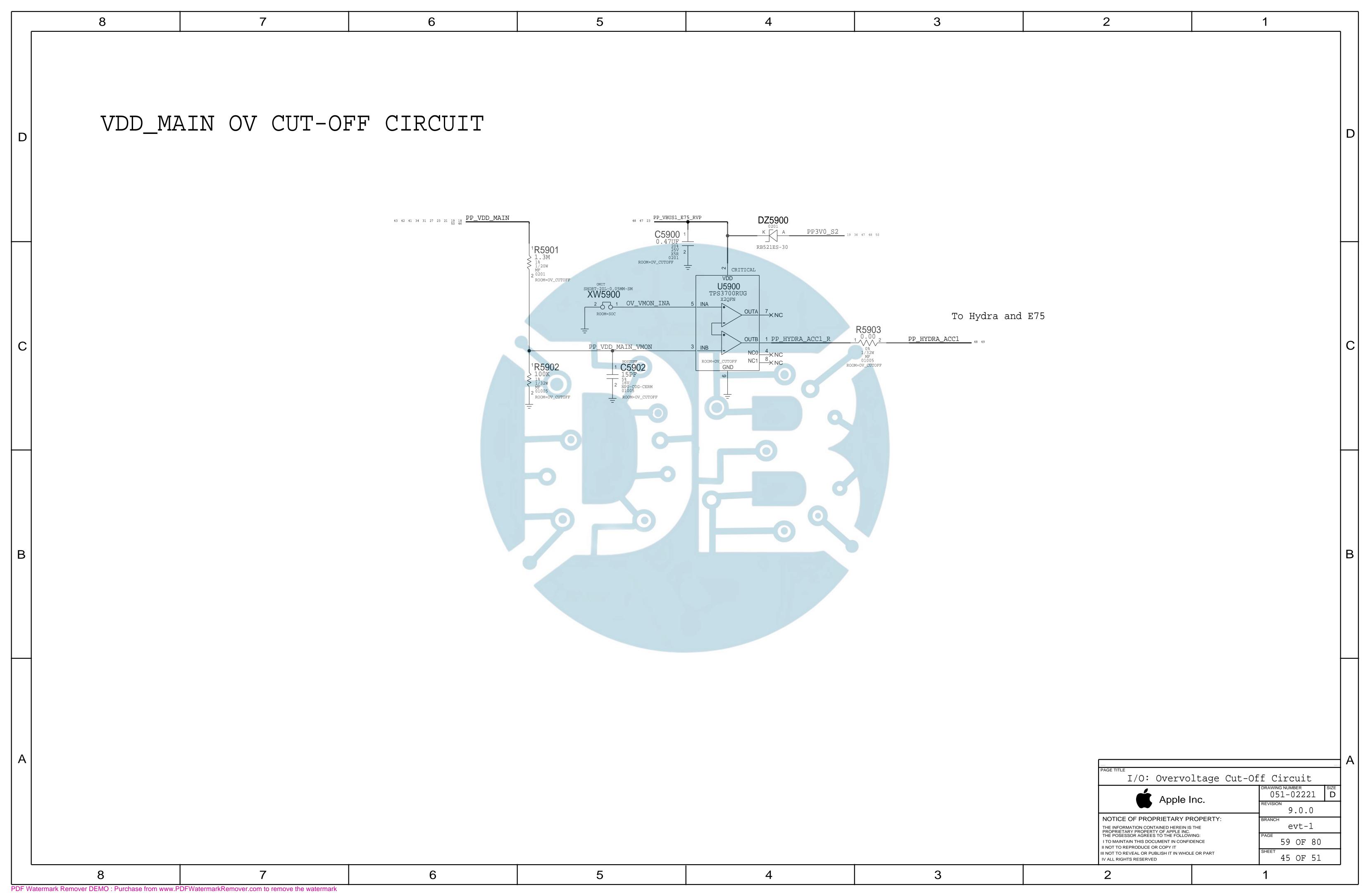


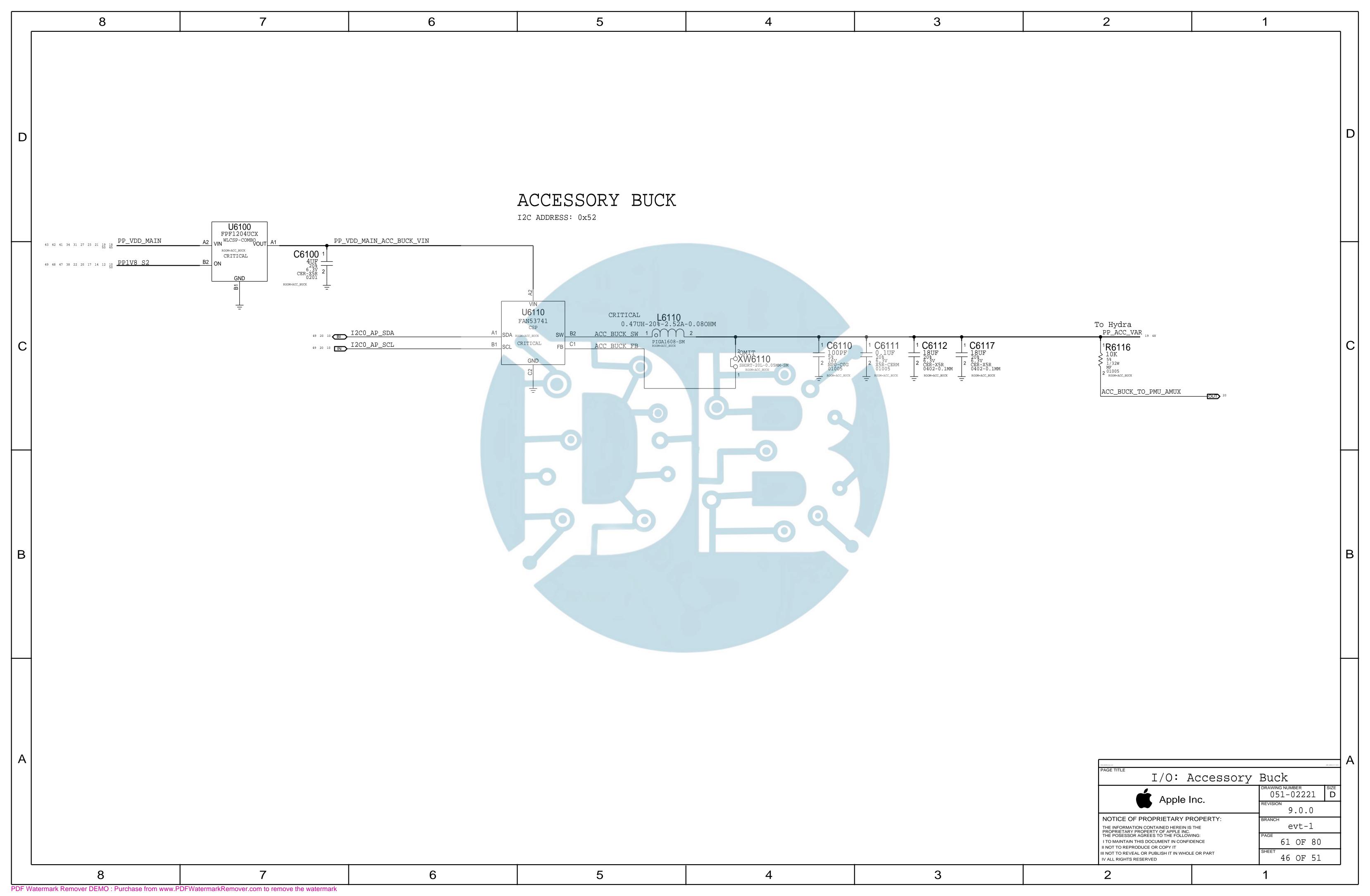


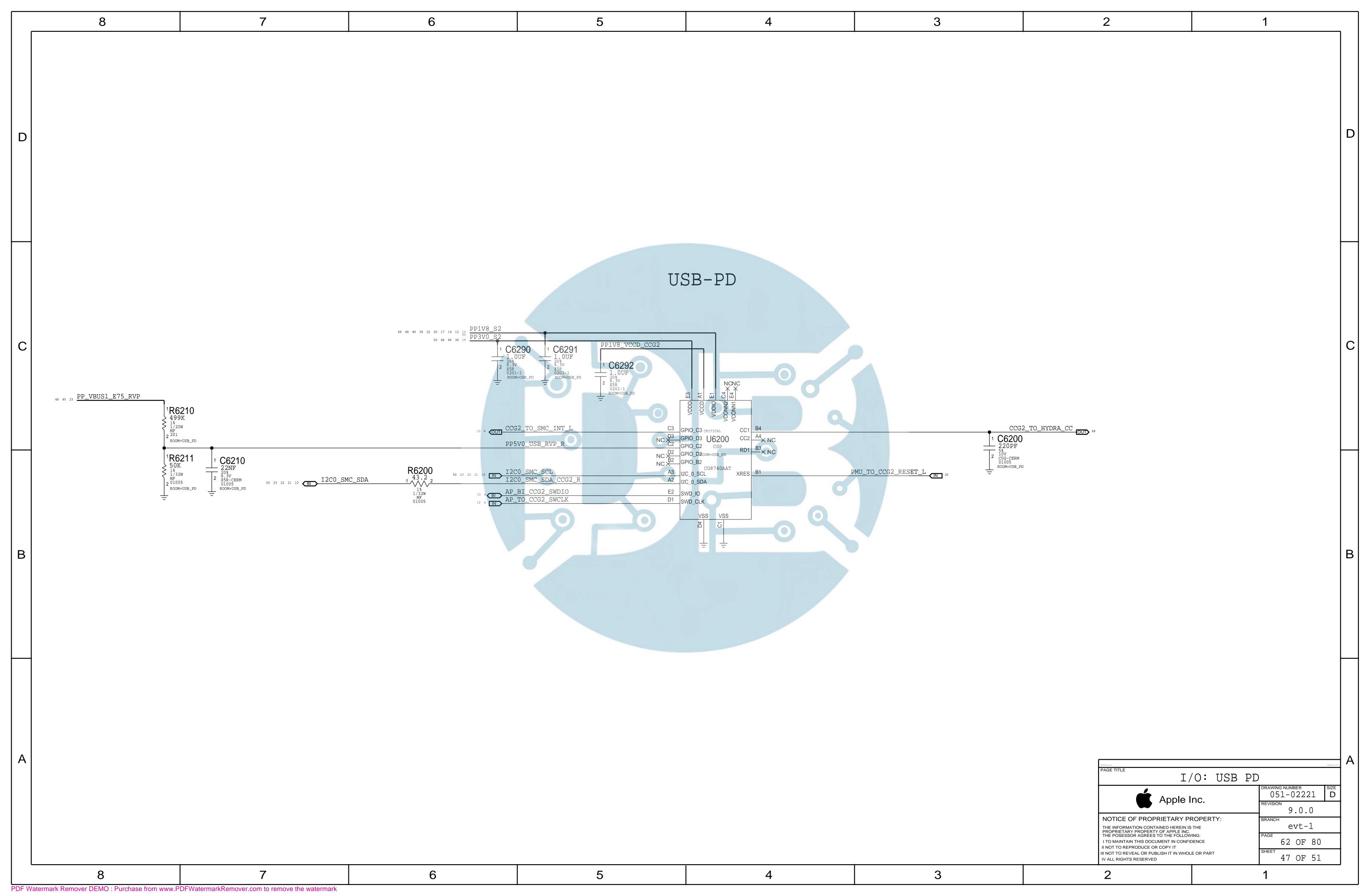


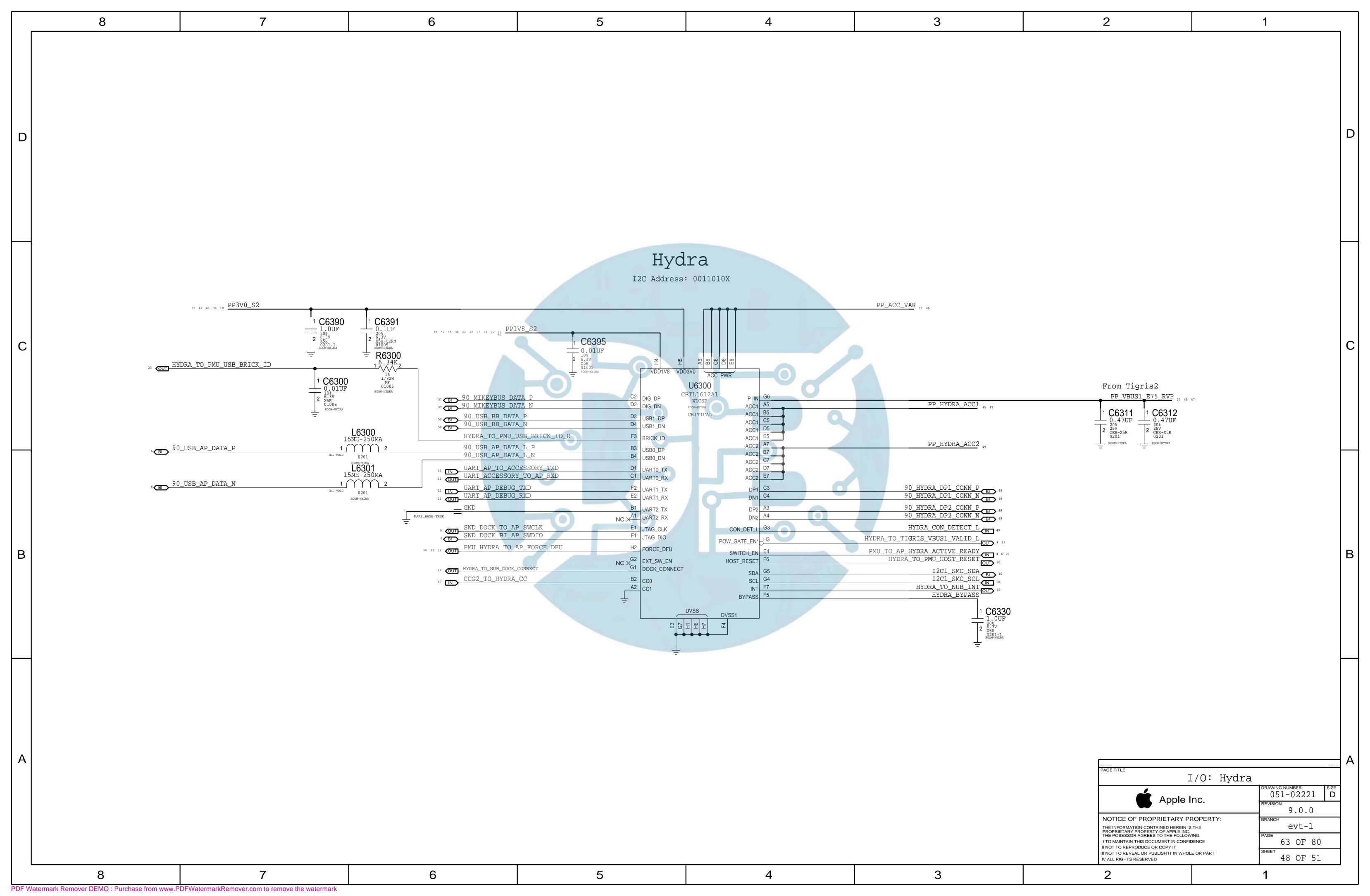


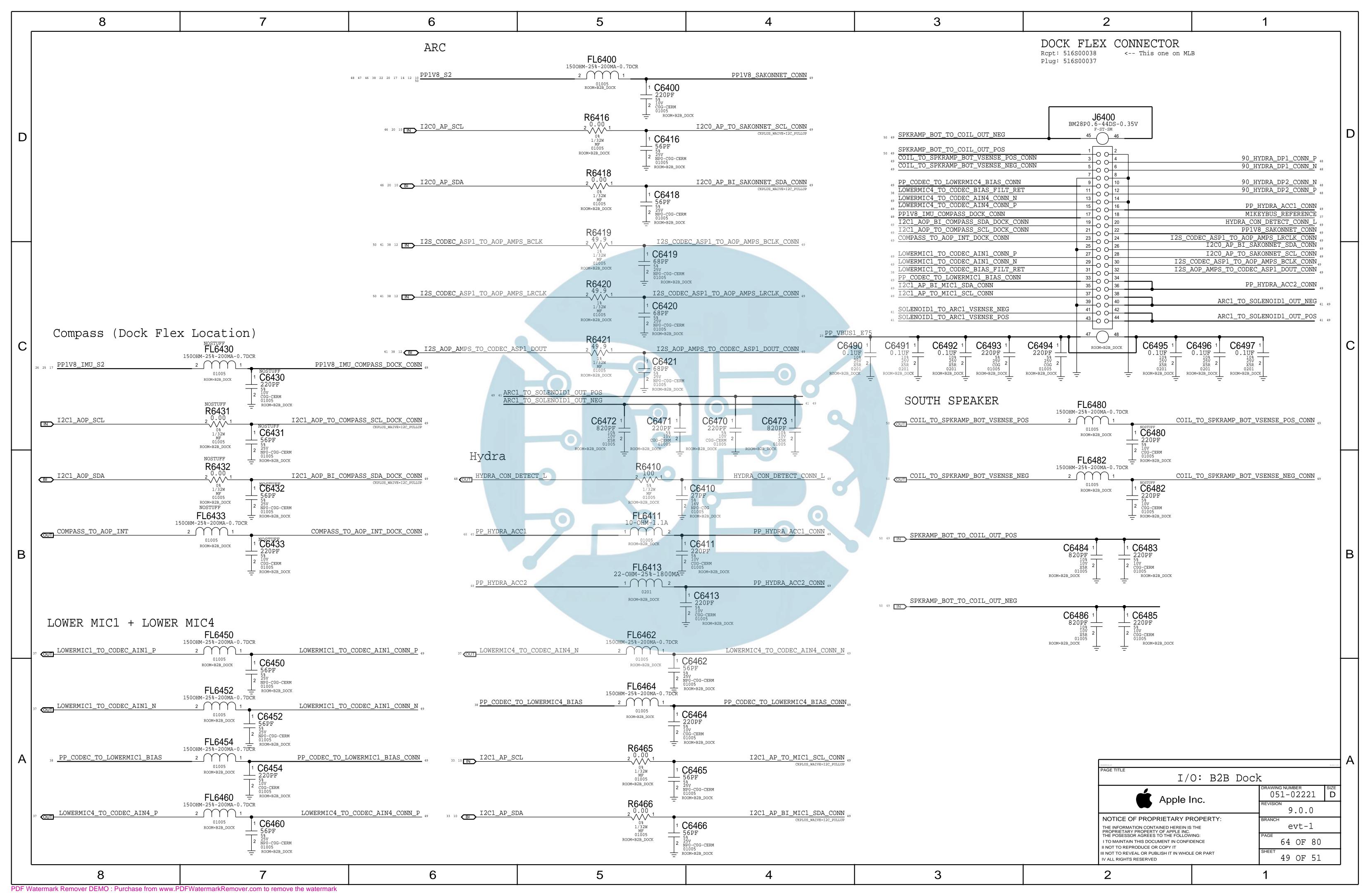


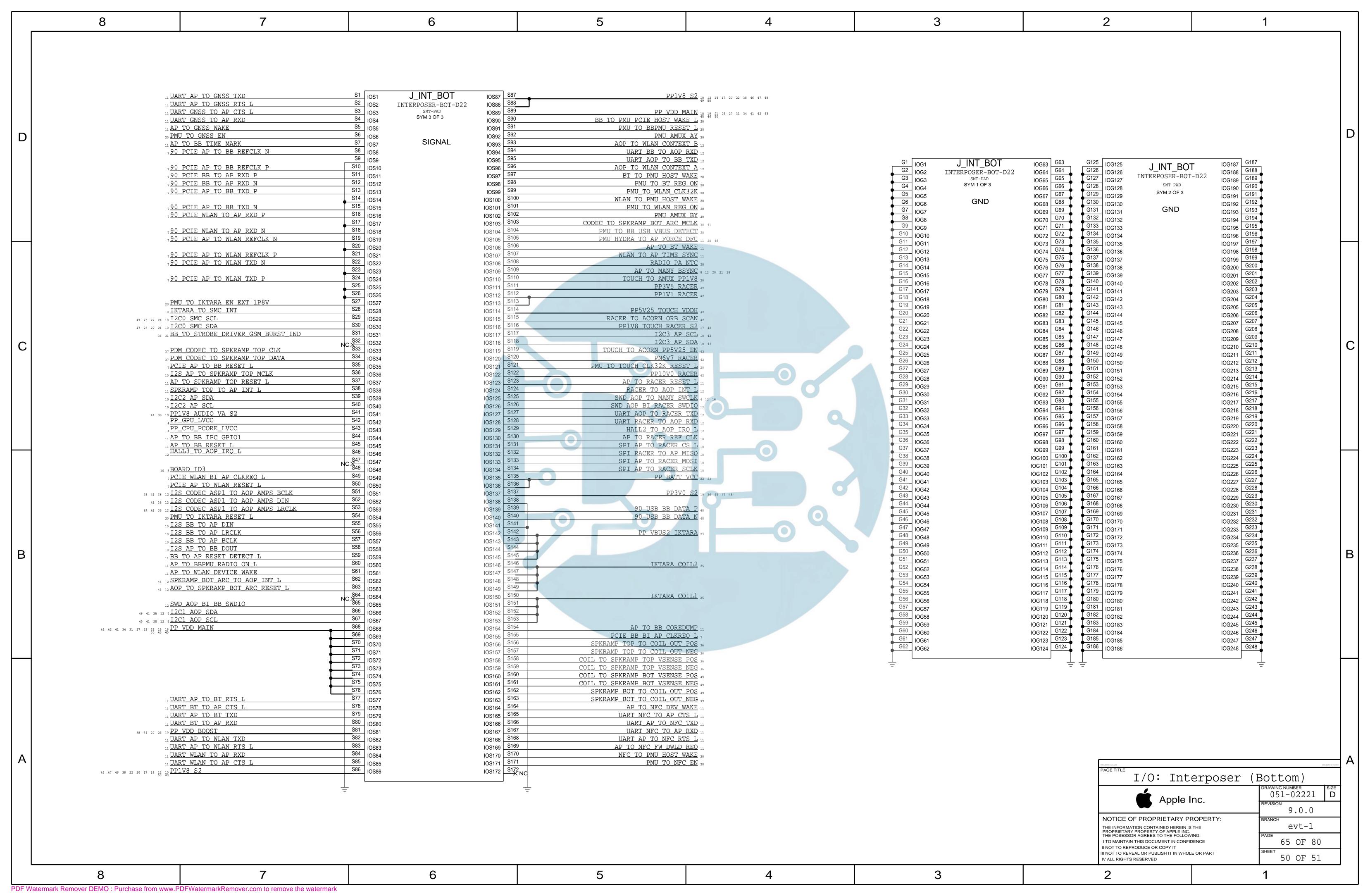


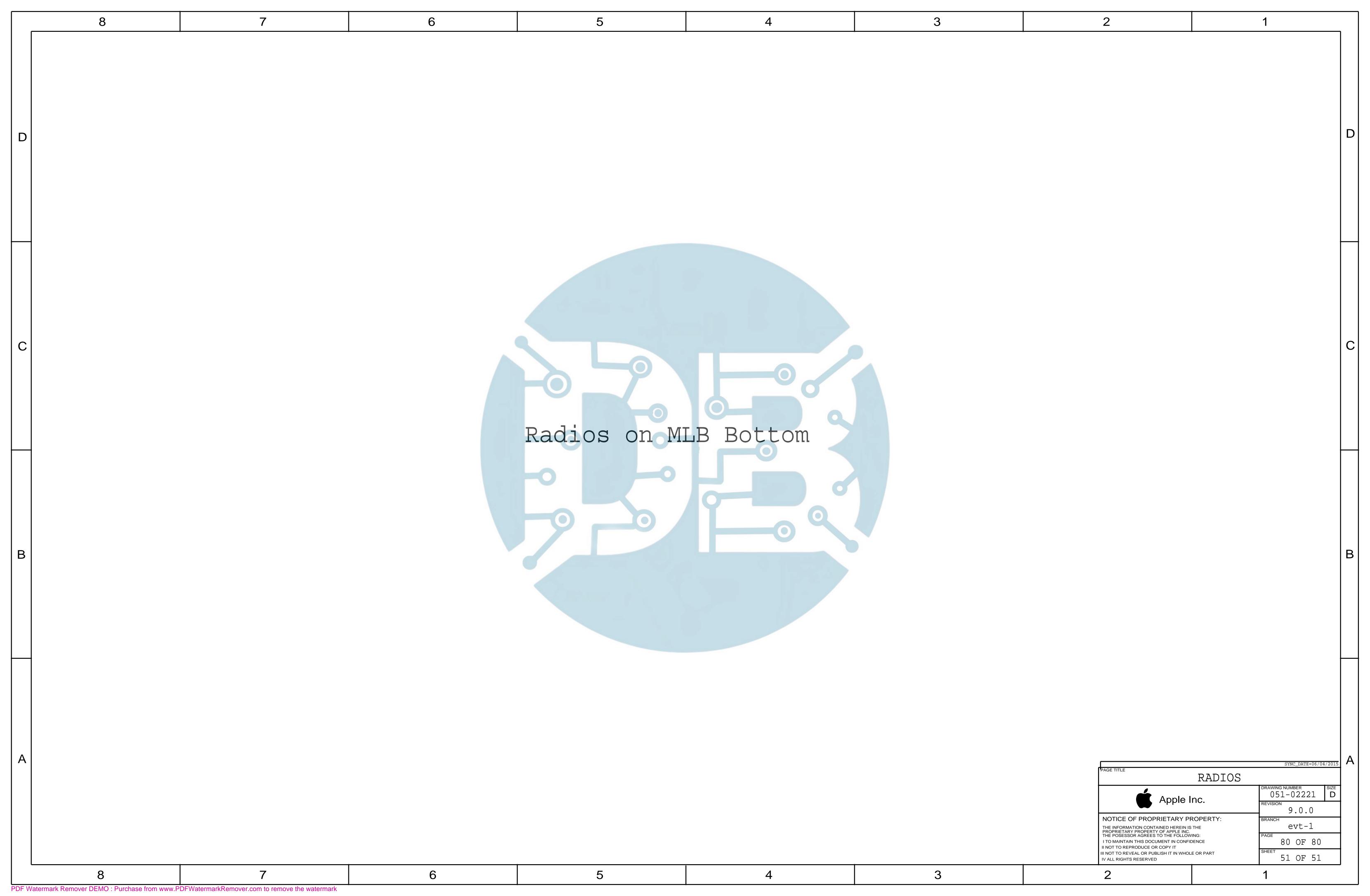


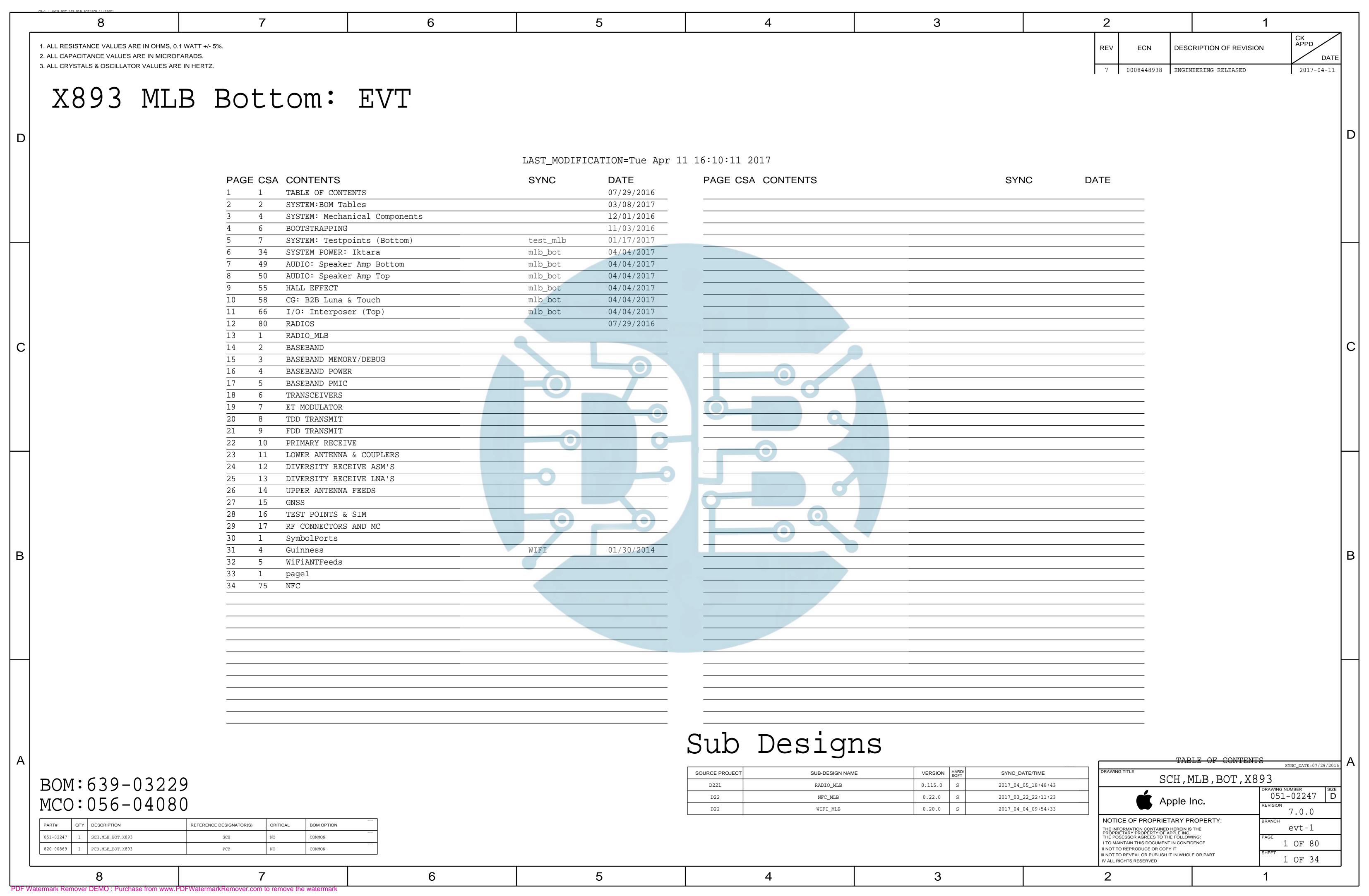












## 6 3 EEEE Codes Soft-Term Cap Sub BOMs Iktara QTY DESCRIPTION REFERENCE DESIGNATOR(S) CRITICAL BOM OPTION EEEE FOR (MLB\_BOT, 639-03229) EEEE\_HM07 REFERENCE DESIGNATOR(S) **BOM OPTION** REFERENCE DESIGNATOR(S) BOM OPTION CAP, CER, 0.082UF, 10%, 50V, X7R, 0402 SUBBOM, MLB, BOT, CAP, TYPICAL, X893 SUBBOM\_CAP CRITICAL C3451,C3465 COMMON CAP, CER, 0.022UF, 50V, X7R, 10%, 0402 CRITICAL Touch/Luna B2B Global Capacitors CRITICAL C3455,C3466 QTY DESCRIPTION REFERENCE DESIGNATOR(S) BOM OPTION CRITICAL SOFT\_CAP CAP,SOFT-TERM,2.2UF,6.3V,0201,KYOCERA C5890 ALTERNATE FOR PART NUMBER CRITICAL PART# COMMENT REF DES COMMENTS: TYPICAL\_CAP PART NUMBER BOM OPTION PART NUMBER BOM OPTION 138S0831 CAP, TYPICAL, 2.2UF, 6.3V, 0201, MURATA C5890 CRITICAL 0402-3T,10.5uF@1V 0402-3T,10.5uF@1V, Kyocera 685-00185 SUBBOM\_DS SUBBOM, MLB, BOT, DIODES, ONSEMI, X893

REFERENCE DESIGNATOR(S)

SUBBOM\_DS

D3400,D3401,D3402,D3403

D3400,D3401,D3402,D3403

**BOM OPTION** 

DIODES\_DS

ONSEMI\_DS

CRITICAL

CRITICAL

QTY DESCRIPTION

SUBBOM, MLB, BOT, DIODES, DIODES, X893

DIODES, SHOTTKY DIODE, 30V, 2A, 0603

PART#

BOM OPTION

BOM\_TABLE\_ALTS

685-00160

685-00159

REF DES

SUBBOM\_CAP

SUBBOM, MLB, BOT, CAP, SOFT, X893

SYNC\_DATE=03/08/201

051-02247

7.0.0

evt-1

2 OF 80

2 OF 34

SYSTEM: BOM Tables

Apple Inc.

NOTICE OF PROPRIETARY PROPERTY:

THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSESSOR AGREES TO THE FOLLOWING:

I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE

III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART

II NOT TO REPRODUCE OR COPY IT

IV ALL RIGHTS RESERVED

138S00150

138S00151

PART NUMBER

138S00143

138S00163

138S00138

138S00164

PART NUMBER

138S00145

138S00165

PART NUMBER

138S00140

138S00142

138S00166

PART NUMBER

152S00558

155S00194

PART NUMBER

138S0648

138S00024

138S0706

138S0945

138S0739

132S0436

138S00049

PART NUMBER

152S00653

152S00654

CRITICAL PART#

138S0979

138S0683

132S0663

132S0288

132S0275

132S0245

PART NUMBER

138S00149

138S00149

ALTERNATE FOR PART NUMBER

138S00144

138S00146

138S00146

138S00141

138S00141

138S00141

152S00557

155S0610

138S0652

138S0986

138S0739

138S0739

138S0706

ALTERNATE FOR PART NUMBER

152S00651

152S00652

COMMENT

ALTERNATE FOR PART NUMBER BOM\_TABLE\_ALTS

BOM OPTION

BOM\_TABLE\_ALTS

BOM\_TABLE\_ALTS

BOM\_TABLE\_ALTS

BOM\_TABLE\_ALTS

BOM\_TABLE\_ALTS

BOM\_TABLE\_ALTS

Global Inductors

BOM OPTION

BOM\_TABLE\_ALTS

BOM\_TABLE\_ALTS

CAP, CER, X5R, 10UF, 20%, 10V, 0402, H=0.65MM

CAP, CER, X5R, 1UF, 10%, 25V, 0402

CAP, CER, X5R, 1UF, 10%, 25V, 0402

CAP, CER, X5R, 0.1UF, 10%, 16V, 0201

CAP, CER, X5R, 470PF, 10%, 10V, 01005

CAP, CER, X5R, 0.01UF, 10%, 6.3V, 01005

PDF Watermark Remover DEMO: Purchase from www.PDFWatermarkRemover.com to remove the watermark

Global R/C Alternates

REF DES

Multi-Vendor Criticals

REF DES COMMENTS:

Global Ferrites

BOM OPTION

BOM OPTION

BOM OPTION

REF DES

0402-3T,10.5uF@1V, SEMCO

CRITICAL PART#

138S00139

CRITICAL PART#

CRITICAL PART#

CRITICAL PART#

CRITICAL PART#

138S0652

138S0986

138S0739

132S0400

138S0831

CRITICAL PART#

152S00651

152S00652

CAP, CER, 0.1UF, 10%, 50V, X7R, 0402

CAP, CER, 27PF, 5%, COG, 25V, 0201

CAP, CER, COG, 220PF, 5%, 10V, 01005

RES,MF,1/20W,2M OHM,5,0201,SMD

THERMISTOR, NTC, 10K OHM, 1%, B=3435, 01005

CAP, CER, NPO/COG, 100PF, 5%, 16V, 01005

COMMENT

155S0610

138S00146

COMMENT

0402,16uF@1V

0201,3uF@1V

COMMENT

COMMENT

COMMENT

COMMENT

COMMENT

IND,1.2UH,3A,2016,0.65Z

IND,1.2UH,3A,2016,0.8Z

6

IND,MLD,0.47UH,20%,2.5A,80MO,1608

FERR BD,150 OHM,25%,200MA,0.7 DCR,01005

CAP, X5R, 4.7UF, 6.3V, 0.65MM, 0402, TAIYO

CAP, CER, 3-TERM, 7.5UF, 20%, 4V, 0402, TAIYO/TDK

CAP, CER, 1UF, 20%, 10V, X5R, 0201, MURATA

CAP, CER, X5R, 0.22UF, 20%, 6.3V, 20%

CAP, CER, X5R, 0.22UF, 20%, 6.3V, 01005

CAP, CER, X5R, 2.2UF, 20%, 6.3V, 0201

0201,1.1uF@3V

0402,5.1uF@3V

0402-3T,10.5uF@1V, TY

0402,16uF@1V, Taiyo

0201,3uF@1V, Kyocera

0402,5.1uF@3V, Kyocera

0402,5.1uF@3V, Taiyo

0201,1.1uF@3V, Kyocera

0201,1.1uF@3V, SEMCO

FERR BD,150 OHM,25%,200MA,0.7 DCR,01005

CAP, X5R, 4.7UF, 6.3V, 0.65MM, 0402, TAIYO

CAP, CER, 3-TERM, 7.5UF, 20%, 4V, 0402, TAIYO/TDK

CAP,CER,1UF,20%,10V,X5R,0201,MURATA

CAP, CER, 1UF, 20%, 10V, X5R, 0201, KYOCERA

CAP,CER,X5R,0.22UF,20%,6.3V,01005

CAP,CER,X5R,2.2UF,20%,6.3V,0201

COMMENTS:

CRITICAL PART#

131S0804

131S00053

117S0055

107S0257

IND,1.2UH,3A,2016,0.65Z

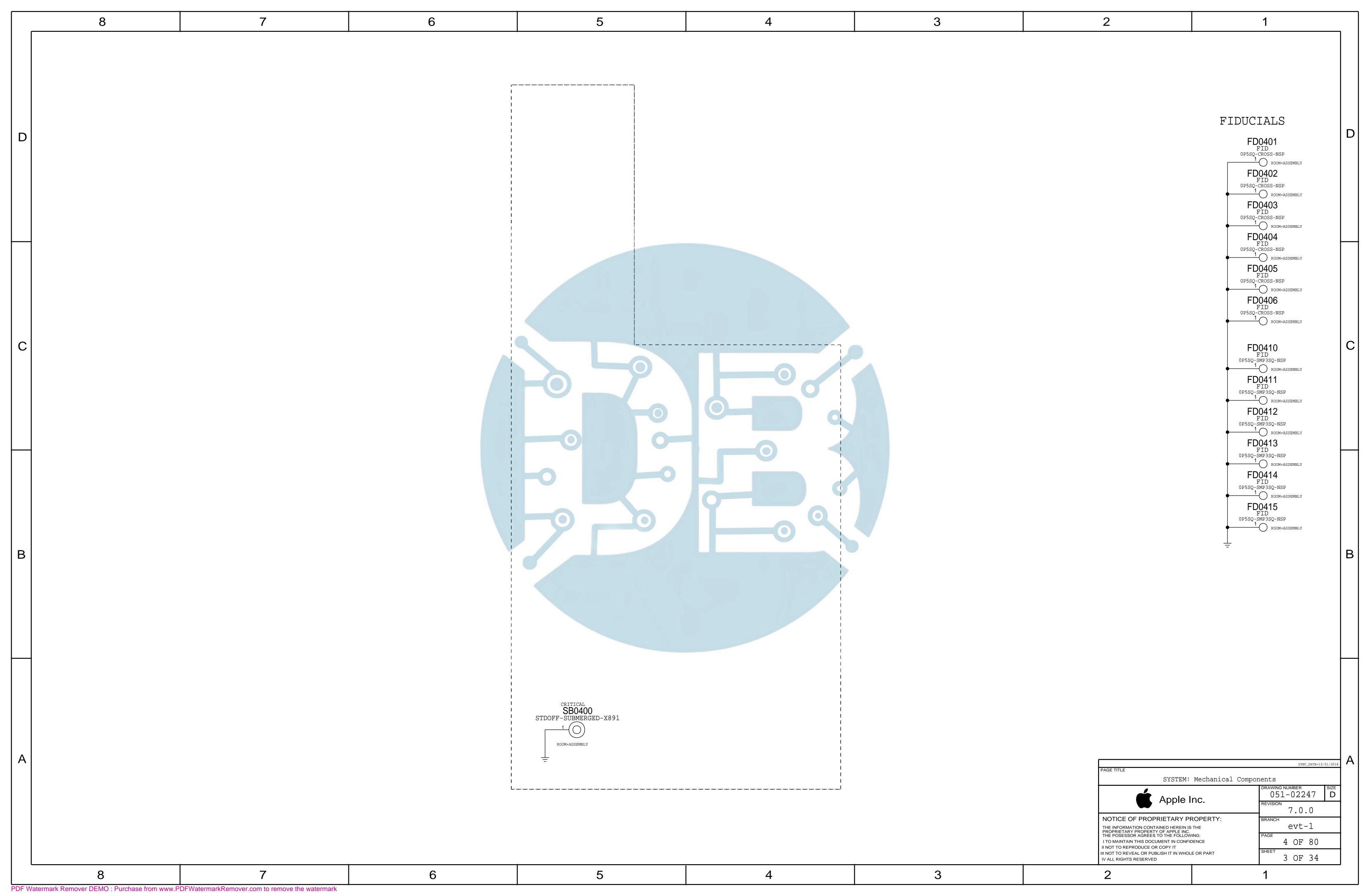
IND,1.2UH,3A,2016,0.8Z

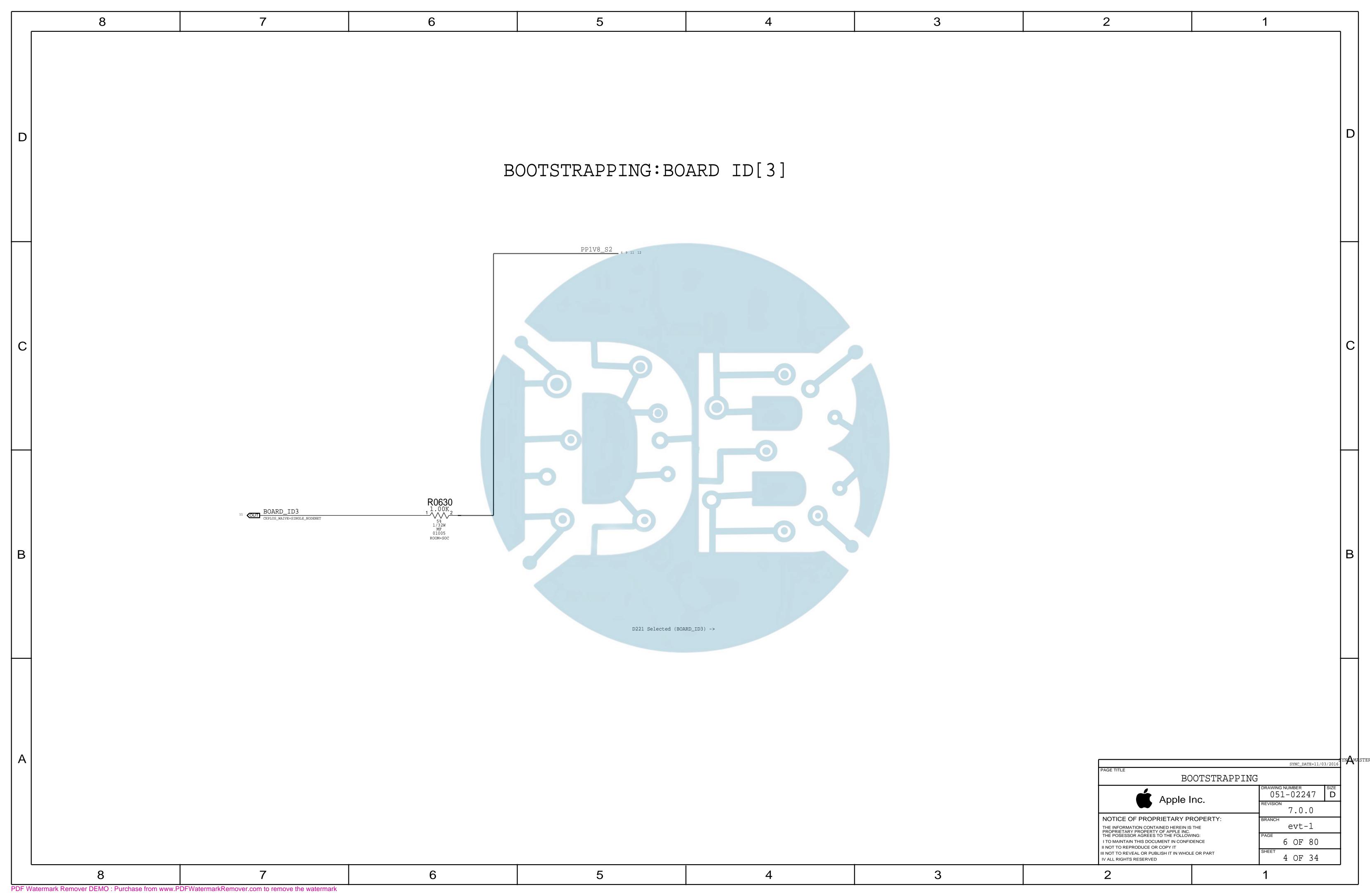
COMMENTS:

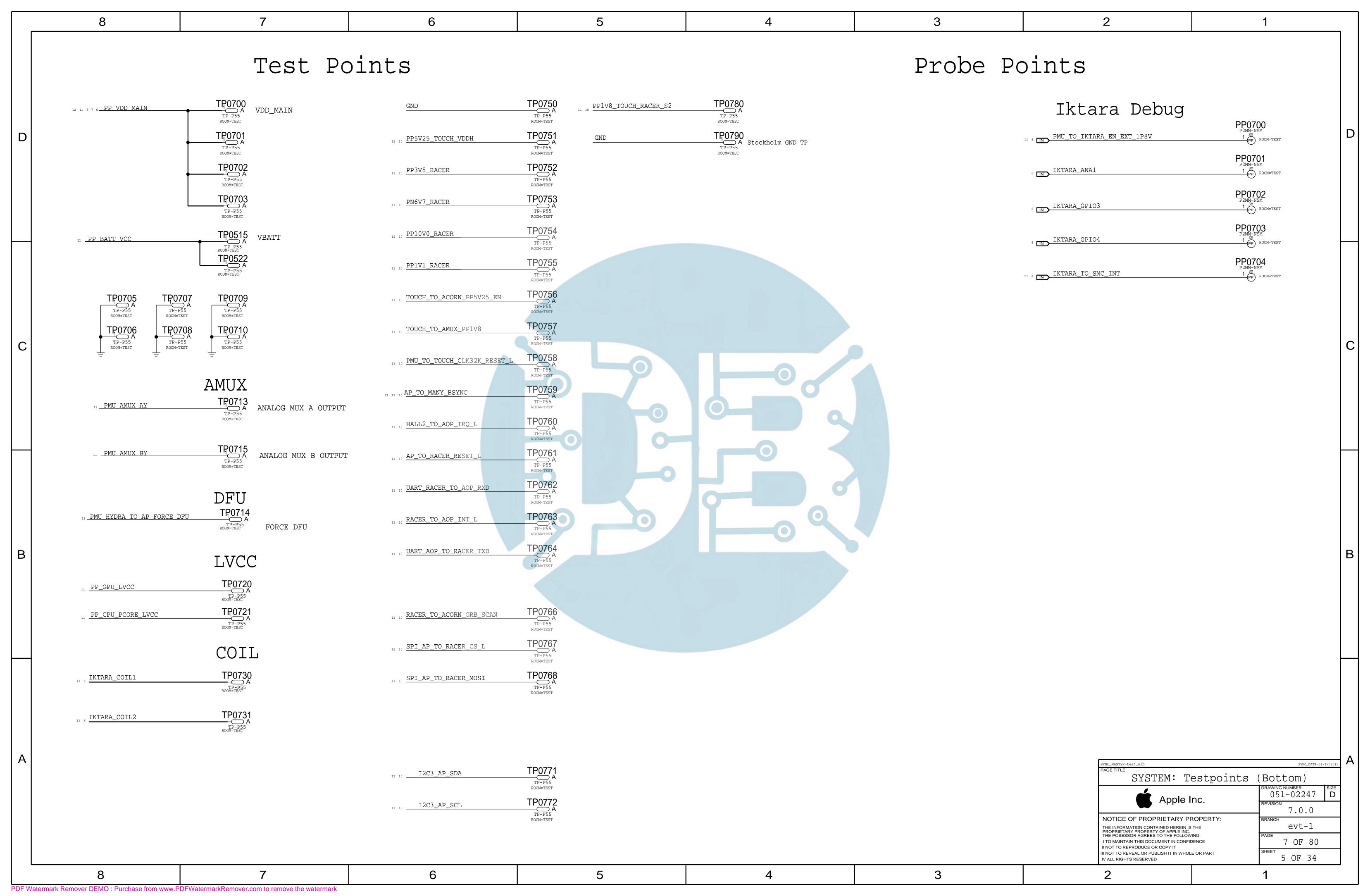
COMMENTS:

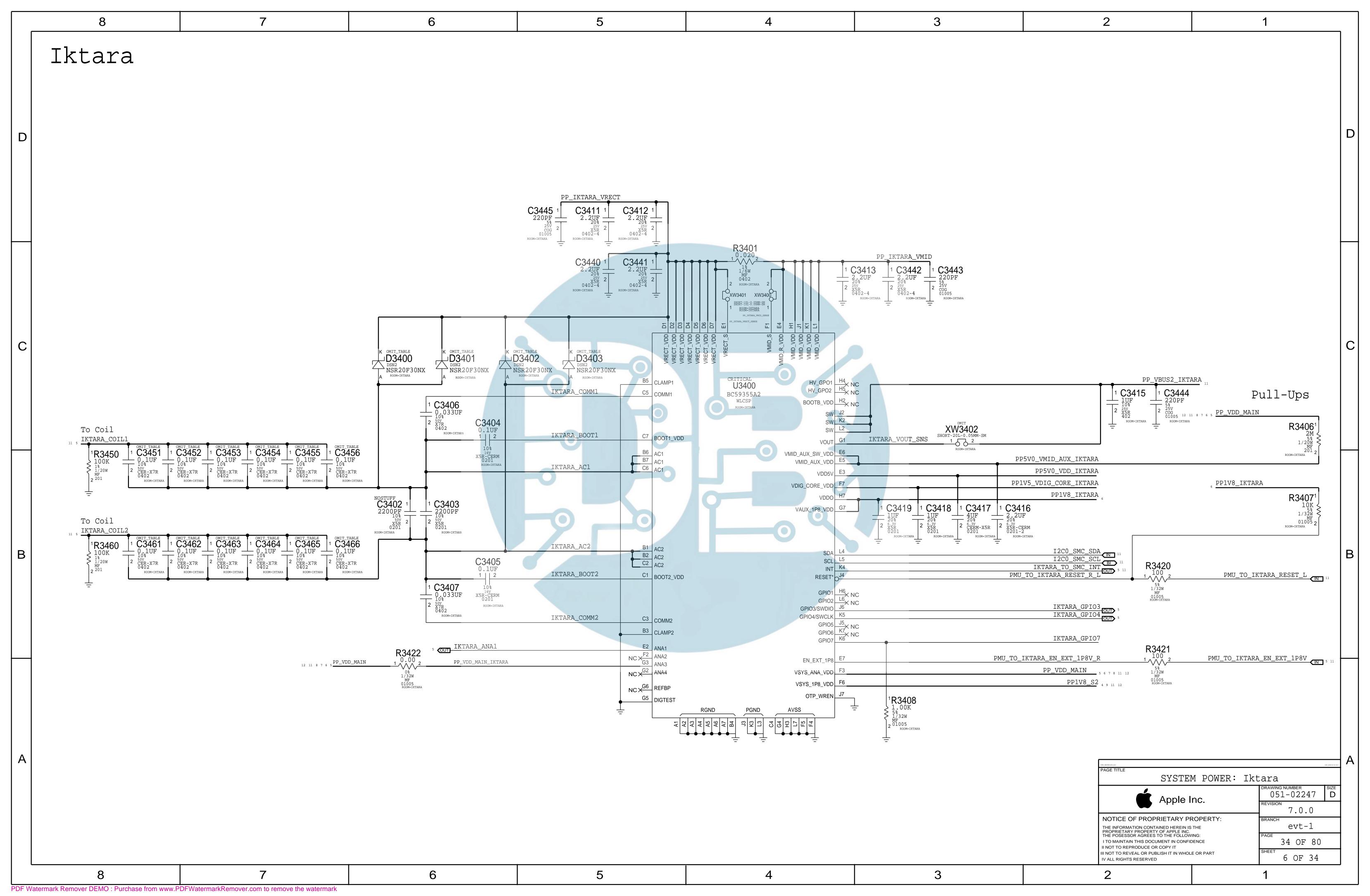
COMMENTS:

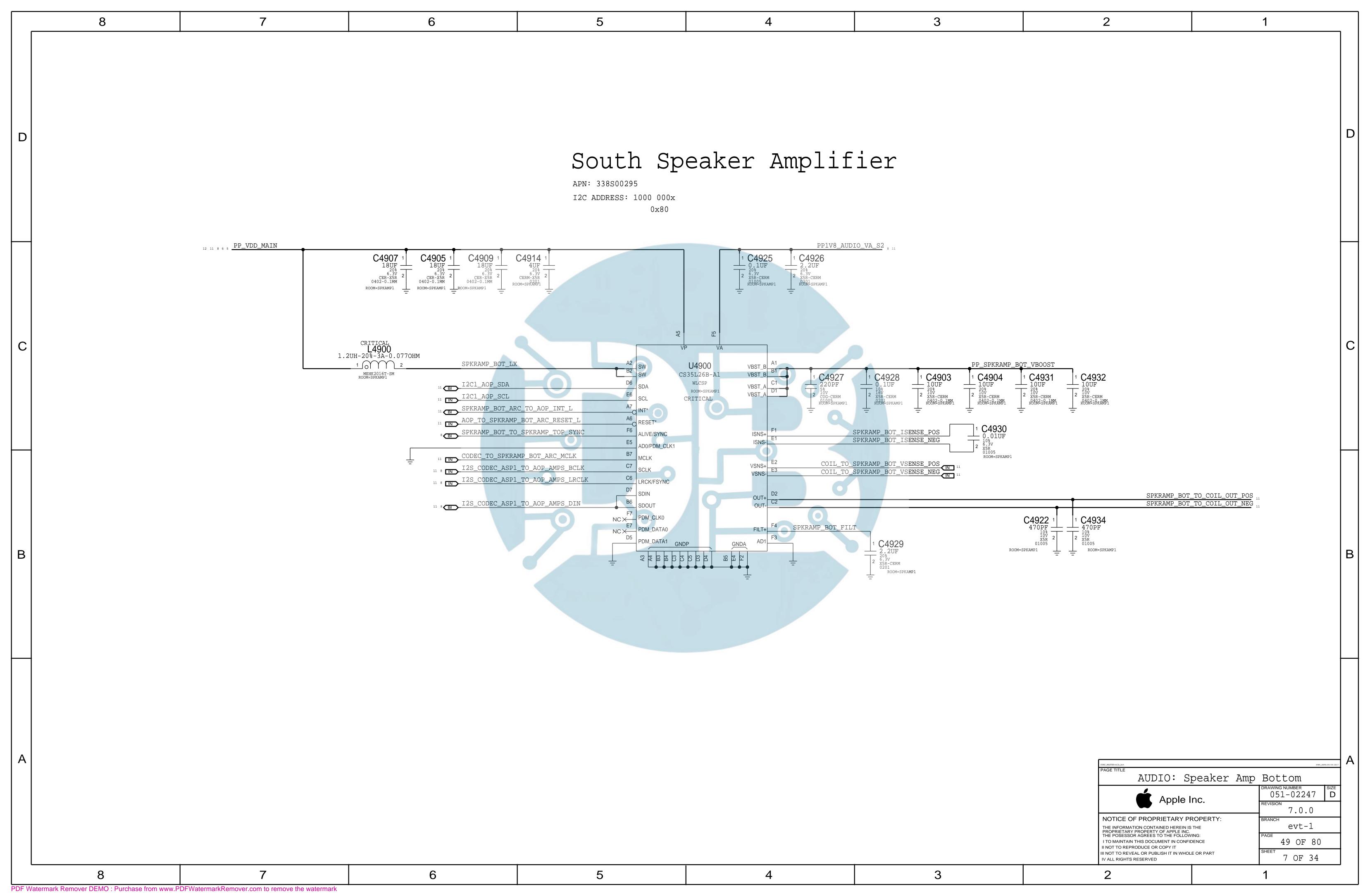
COMMENTS:

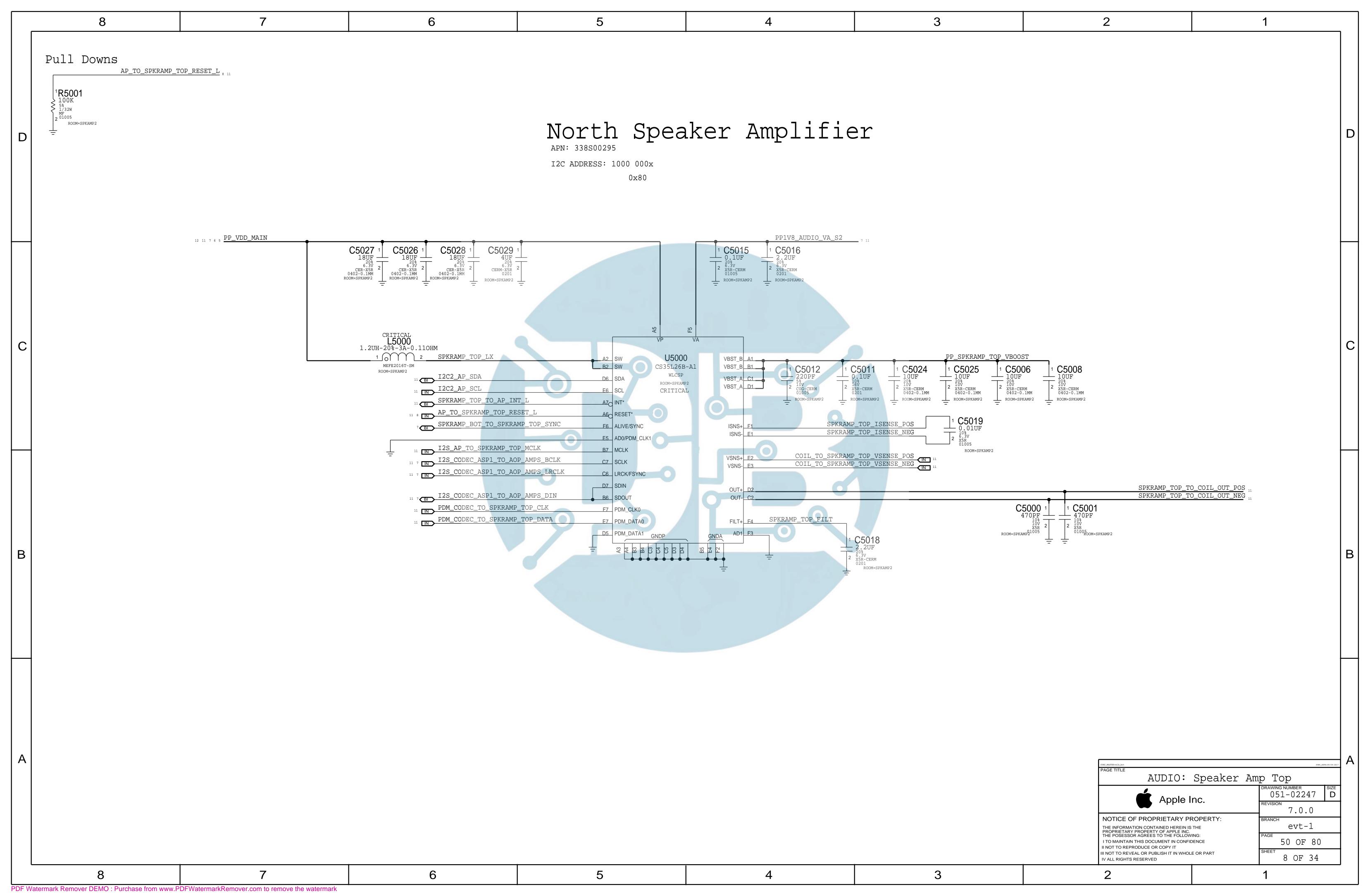


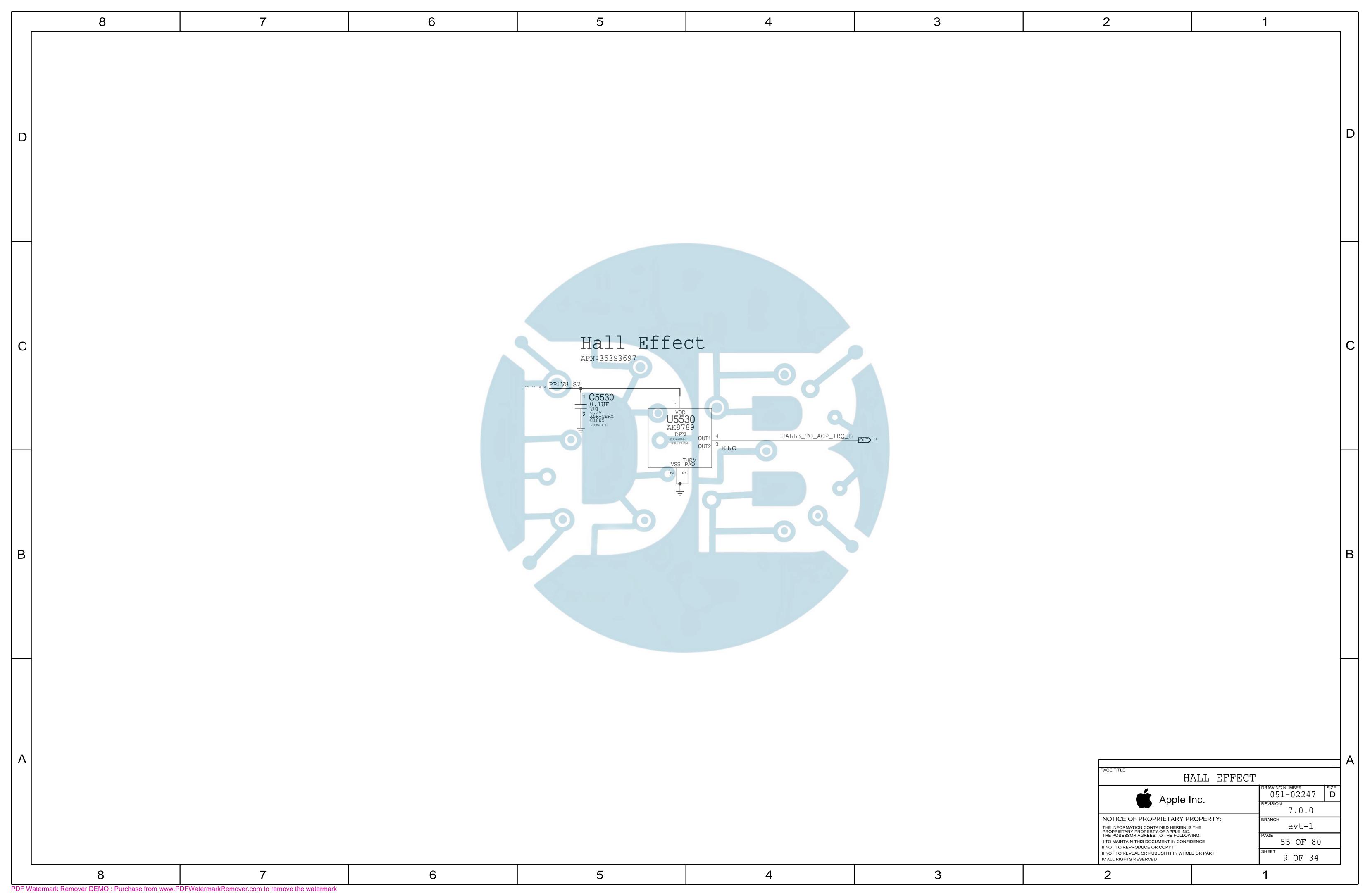


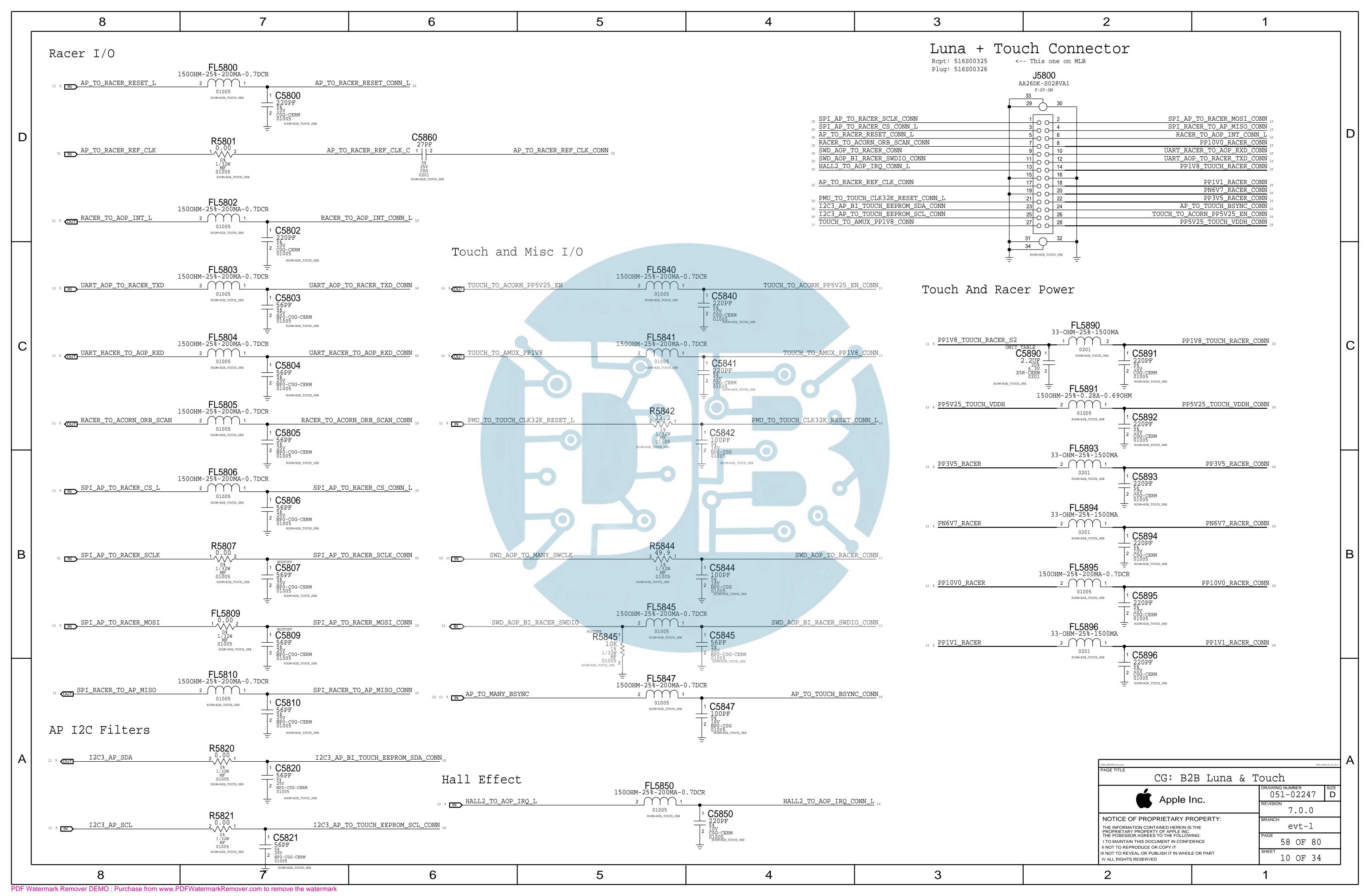


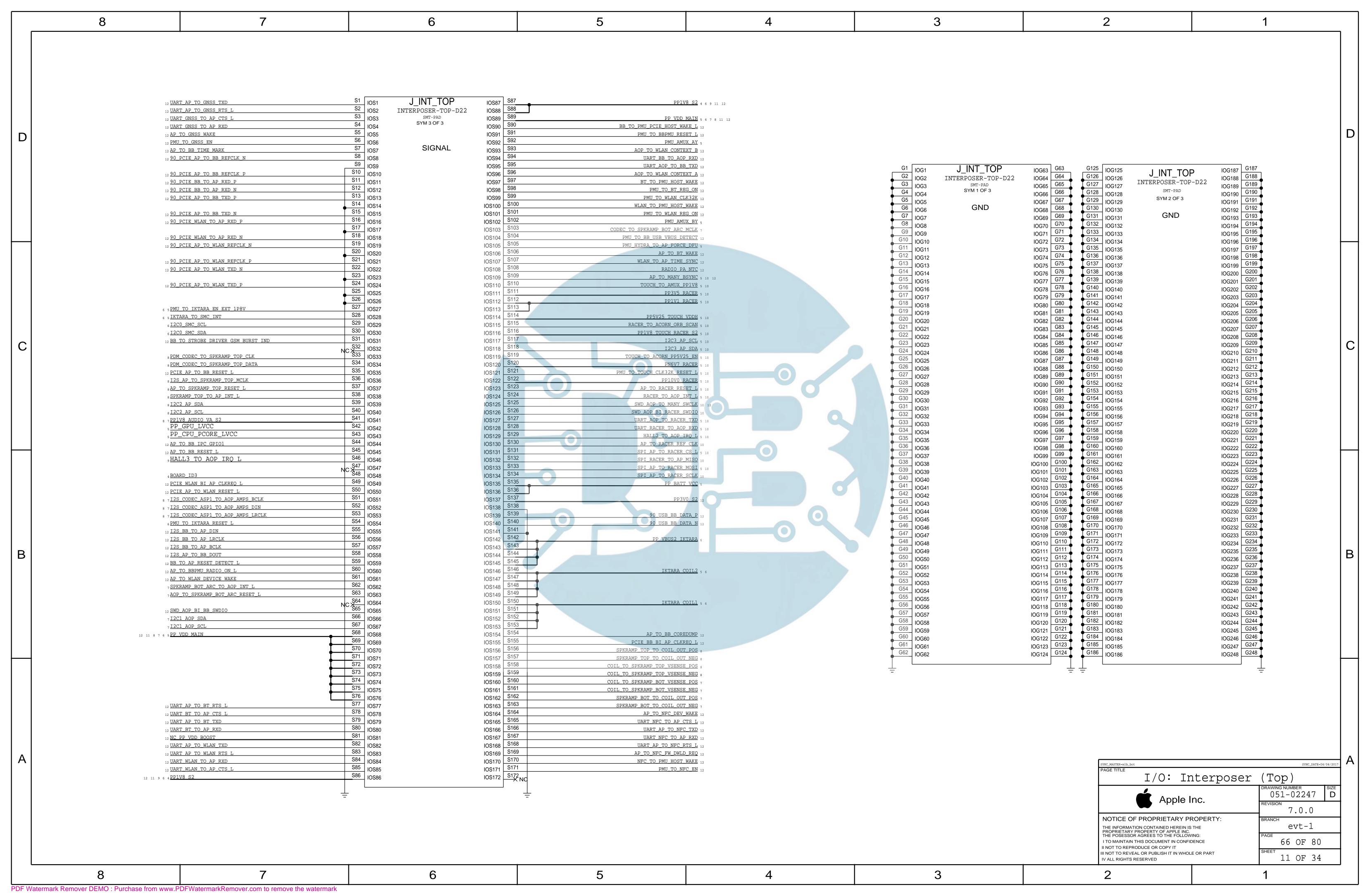


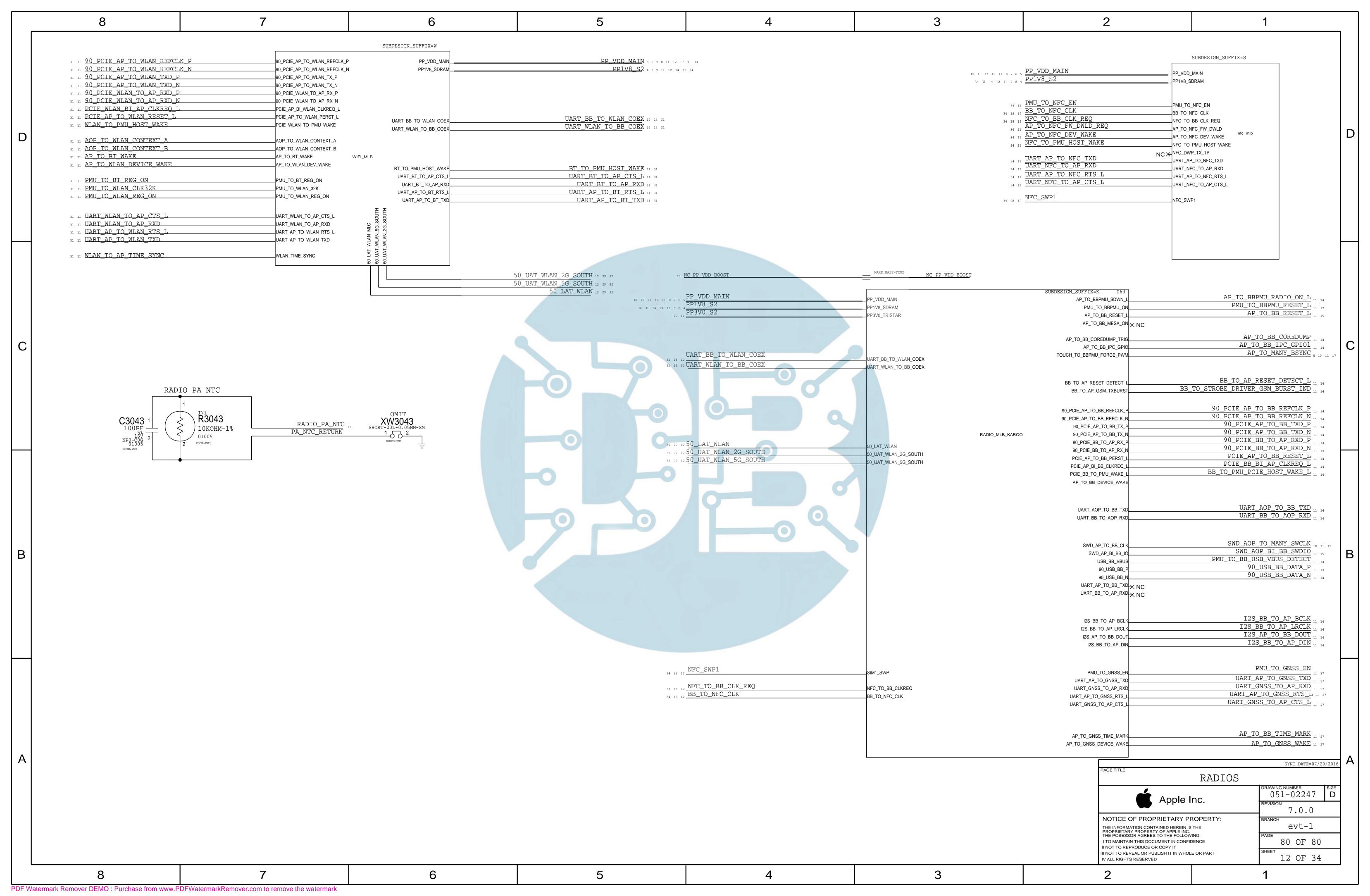












CK APPD 1. ALL RESISTANCE VALUES ARE IN OHMS, 0.1 WATT +/- 5% REV **DESCRIPTION OF REVISION** ECN 2. ALL CAPACITANCE VALUES ARE IN MICROFARADS. DATI 3. ALL CRYSTALS & OSCILLATOR VALUES ARE IN HERTZ. 0008448938 ENGINEERING RELEASED 2017-04-11 RADIO\_MLB PORTS ICE17.2 RADIO\_MLB 28 27 20 19 18 17 12 IN PP\_VDD\_MAIN Tue Apr 11 16:10:08 2017 ANTENNA FEEDS CSA PAGE CONTENTS PDF PAGE CLOCKS <sup>7</sup> O SO UAT WLAN 2G SOUTH PMU\_TO\_BB\_GNSS\_32K BASEBAND 50\_UAT\_WLAN\_5G\_SOUTH BASEBAND MEMORY/DEBUG BASEBAND POWER BASEBAND PMIC TRANSCEIVERS ET MODULATOR TDD TRANSMIT FDD TRANSMIT 9 PRIMARY RECEIVE LOWER ANTENNA & COUPLERS DIVERSITY RECEIVE ASM'S 13 DIVERSITY RECEIVE LNA'S UPPER ANTENNA FEEDS 15 GNSS AP\_TO\_BB\_DEVICE\_WAKE UART TEST POINTS & SIM ALTERNATES **BOM OPTION** REFERENCE DESIGNATOR(S) DESCRIPTION PART NUMBER 197S00040 197S00044 VTCXO\_K AVX VC-TCXO 197S00042 197S00044 VTCXO\_K NDK VC-TCXO 335S00013 335S0894 EPROM\_K ON SEMI EEPROM 138S0719 138S1103 C522\_K MURATA 138S00133 138S00128 MURATA C509\_K, C523\_K, C605\_K, C624\_K, C626\_K, C1114\_K, C1116 WLAN 138S00049 138S00032 MURATA C402\_K, C433\_K, C437\_K, C510\_K, C720\_K UART\_BB\_TO\_WLAN\_COEX ? 138S0831 138S00032 MURATA C402\_K, C433\_K, C437\_K, C510\_K, C720\_K UART WLAN TO BB COEX 138S00086 138S0884 MURATA C500\_K, C501\_K, C502\_K, C514\_K, C515\_K 339S00363 339S00353 PILSNER STATS 18 12 IN NFC TO BB CLK REQ **GNSS** BOM OPTIONS QTY DESCRIPTION BOM OPTION REFERENCE DESIGNATOR(S) CRITICAL 998-05780 BASEBAND, UNFUSED BB\_UNFUSED U\_BB\_K 28 27 12 IN AP TO BB TIME MARK 998-05781 BASEBAND, LOCAL FUSED BB\_LOCAL\_FUSED U\_BB\_K DEBUG 998-05782 BASEBAND, DEV FUSED U\_BB\_K BB\_DEV\_FUSED 28 15 12 IN SWD AOP TO MANY SWCLK 337S00244 BASEBAND, PRODUCTION FUSED U\_BB\_K CRITICAL BB\_PROD\_FUSED SOFT\_CAP 138S00159 CAP.SOFT-TERM.2.2uF.6.3V.0201.KYOCERA C402\_K,C437\_K,C438\_K,C433\_K,C510\_K,C720\_K,C1601\_I 16 2 10 90 USB\_BB\_DATA\_P TYPICAL\_CAP CAP, TYPICAL, 2.2UF, 6.3V, 0201, MURATA 16 2 O USB BB DATA N RADIO\_MLB SCH, MLB, BOT, X893 051-02247 Apple Inc. 7.0.0 NOTICE OF PROPRIETARY PROPERTY: evt-1 THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSESSOR AGREES TO THE FOLLOWING: 1 OF 17 I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE II NOT TO REPRODUCE OR COPY IT III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART CONFIDENTIAL AND PROPRIETARY APPLE SYSTEM DESIGN. FOR REFERENCE PURPOSE ONLY - NOT A CHANGE REQUEST 13 OF 34 IV ALL RIGHTS RESERVED PDF Watermark Remover DEMO: Purchase from www.PDFWatermarkRemover.com to remove the watermark

