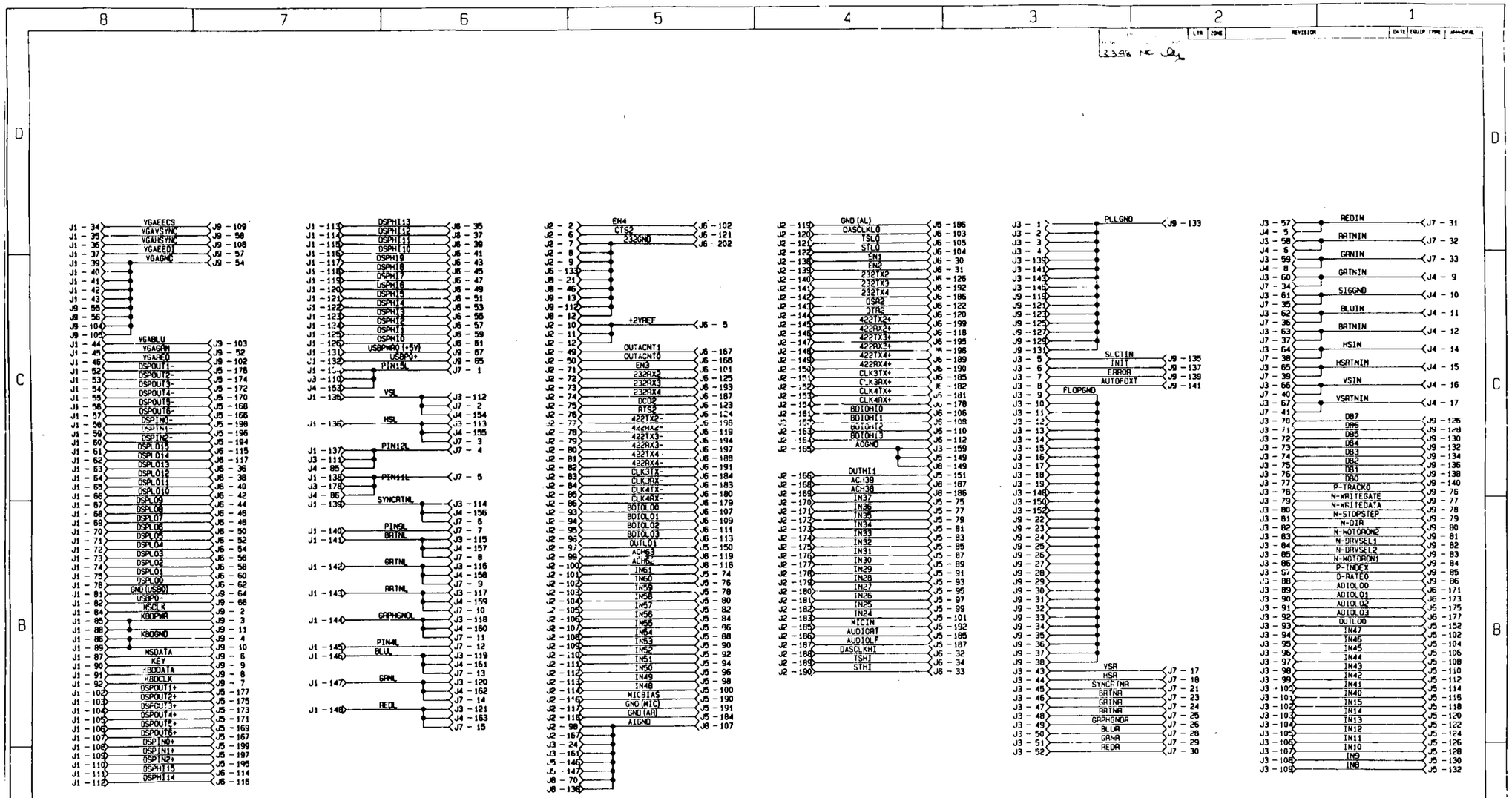

6. LAST REFERENCE DESIGNATOR USED: C12, F6, J11.
5. REFERENCE DESIGNATORS NOT USED:
4. THIS SCHEMATIC USED IN CONJUNCTION WITH SEG46115/67-301.
3. CAPACITOR VALUES ARE IN MICRO FARADS.
2. RESISTOR VALUES ARE IN OHMS, 1/4 WATT, 1%.
1. INTERPRET DRAWING PER JPG 8500.4.

NOTES: UNLESS OTHERWISE SPECIFIED

SIGNATURES		DATE
DR	Z. PALMER	11/17/97
ENG	[illegible]	1.11.98
CH	[illegible]	1/11/98
APP	[illegible]	1/21/98
QE	[illegible]	1/21/98
MATL	[illegible]	1/21/98
STRESS	[illegible]	1/22/98
AUTH		

NATIONAL AERONAUTICS & SPACE ADMINISTRATION
LYNDON B. JOHNSON SPACE CENTER HOUSTON, TEXAS

PRINTED WIRING DIAGRAM
ICBM MOTHERBOARD
HRF WORKSTATION

CODE IDENT NO.	SIZE	DWG NO.	REV
21356	D	SIG46115765	NC

SCALE NONE | CAS PROJECT: J104 | SHEET 1 OF 3

DWG FILE: \PCAD\RELEASE\SCH
WRI FILE: 5765SH1.HP
NEXT ASSY: SEG46115767
FAILUR TYPE: ☒ PLT HOUR ☐ OTHER DEPOSITS ☐ APPR SCALE / BOD

293

J3 – 124	FP170IN+	J4 – 41
J3 – 125	FP170IN-	J4 – 42
J3 – 126	FSYNCIN	J4 – 31
J3 – 127	GND (FSIN)	J4 – 32
J3 – 128	FSYNCOUT	J4 – 33
J3 – 129	GND (FSOUT)	J4 – 34
J3 – 130	FCOMPVID	J4 – 35
J3 – 131	GND (FCVID)	J4 – 36
J3 – 132	FVIDIN	J4 – 37
J3 – 133	GND (FVIN)	J4 – 38
J3 – 134	FVIDOUT	J4 – 39
J3 – 135	GND (FVOUT)	J4 – 40
J3 – 138	SLCT	J9 – 118
J3 – 140	PAPEREND	J9 – 120
J3 – 142	BUSY	J9 – 122
J3 – 144	ACK	J9 – 124
J3 – 146	STROBE	J9 – 142
J3 – 147	DISKCHNG	J9 – 72
J3 – 149	N-SIDESEL	J9 – 73
J3 – 151	N-READATA	J9 – 74
J3 – 153	P-WAITPRTEC	J9 – 75
J3 – 154	N-RPM	J9 – 88
J3 – 155	AUIOHI0	J6 – 170
J3 – 156	ADIOHI1	J6 – 172
J3 – 157	ADIOHI2	J6 – 174
J3 – 158	ADIOHI3	J6 – 176
J3 – 160	OUTHI0	J5 – 153
J3 – 162	IN23	J5 – 103
J3 – 163	IN22	J5 – 105
J3 – 164	IN21	J5 – 107
J3 – 165	IN20	J5 – 109
J3 – 166	IN19	J5 – 111
J3 – 167	IN18	J5 – 113
J3 – 168	IN17	J5 – 115
J3 – 169	IN16	J5 – 117
J3 – 170	IN7	J5 – 119
J3 – 171	IN6	J5 – 121
J3 – 172	IN5	J5 – 123
J3 – 173	IN4	J5 – 125
J3 – 174	IN3	J5 – 127
J3 – 175	IN2	J5 – 129
J3 – 176	IN1	J5 – 131
J3 – 177	IN0	J5 – 133
J3 – 179	V-VSL	J4 – 19
J3 – 180	V-VSRTNL	J4 – 20
J3 – 181	V-HSL	J4 – 21
J3 – 182	V-HSRTNL	J4 – 22
J3 – 183	V-BRTNL	J4 – 23
J3 – 184	V-GRTNL	J4 – 24
J3 – 185	V-RRTNL	J4 – 25
J3 – 186	V-GNDL	J4 – 26
J3 – 187	V-BLUL	J4 – 27
J3 – 188	V-GRNL	J4 – 28
J3 – 189	V-REDL	J4 – 29

J4 – 45	BP170+	J7 – 68
J4 – 46	BP170-	J7 – 69
J4 – 53	VSYNC	J7 – 196
J4 – 55	HSYNC	J7 – 198
J4 – 57	CSYNC	J7 – 200
J4 – 59	V1/RED	J7 – 202
J4 – 61	V2/GRN	J7 – 204
J4 – 63	V3/BLU	J7 – 206
J4 – 142	V-VSIN	J7 – 42
J4 – 143	V-VSRTNIN	J7 – 43
J4 – 144	V-HSIN	J7 – 44
J4 – 145	V-HSRTNIN	J7 – 45
J4 – 146	V-BRTNIN	J7 – 46
J4 – 147	V-GRTNIN	J7 – 47
J4 – 148	V-RRTNIN	J7 – 48
J4 – 149	V-GND	J7 – 49
J4 – 150	V-BLUIN	J7 – 50
J4 – 151	V-GRNIN	J7 – 51
J4 – 152	V-REDIN	J7 – 52
J4 – 164	SYNCIN-	J7 – 121
J4 – 165	SYNCIN	J7 – 53
J4 – 166	GND (SIN)	J7 – 54
J4 – 167	SYNCOUT	J7 – 55
J4 – 168	GND (SOUT)	J7 – 56
J4 – 169	COMPVID	J7 – 57
J4 – 170	GND (CVID)	J7 – 58
J4 – 171	VIDIN	J7 – 59
J4 – 172	GND (VIN)	J7 – 60
J4 – 173	VIDOUT	J7 – 61
J4 – 174	GND (VOUT)	J7 – 62
J4 – 180	SCLK/	J5 – 156; J6 – 63
J4 – 181	SDATAIN	J5 – 157; J6 – 64
J4 – 182	SENA2/	J6 – 201
J4 – 183	SDATAOUT	J5 – 159; J6 – 65
J4 – 184	GND (USB1)	J9 – 68
J4 – 185	VIOCTRL0	J7 – 122
J4 – 186	VIOCTRL1	J7 – 123
J4 – 187	VIOCTRL2	J7 – 124
J4 – 188	VIOCTRL3	J7 – 125
J4 – 189	VIOCTRL4	J7 – 126
J4 – 190	VIOCTRL5	J7 – 127
J4 – 191	VIOCTRL6	J7 – 128
J4 – 192	VIOCTRL7	J7 – 129
J4 – 193	VIOCTRL8	J7 – 130
J4 – 194	VIOCTRL9	J7 – 131
J4 – 195	VIOCTRL10	J7 – 132
J4 – 196	VIOCTRL11	J7 – 133
J4 – 197	PHL/SRL	J7 – 134

J5 – 5	ACH61	J8 – 117
J5 – 6	ACH37	J8 – 185
J5 – 7	ACH60	J8 – 116
J5 – 8	ACH36	J6 – 184
J5 – 9	ACH59	J8 – 115
J5 – 10	ACH35	J8 – 183
J5 – 11	ACH58	J8 – 114
J5 – 12	ACH34	J8 – 182
J5 – 13	ACH57	J8 – 113
J5 – 14	ACH33	J8 – 181
J5 – 15	ACH56	J8 – 112
J5 – 16	ACH32	J8 – 180
J5 – 17	ACH55	J8 – 111
J5 – 18	ACH31	J8 – 179
J5 – 19	ACH54	J8 – 110
J5 – 20	ACH30	J8 – 178
J5 – 21	ACH53	J8 – 109
J5 – 22	ACH29	J8 – 177
J5 – 23	ACH52	J8 – 108
J5 – 24	ACH28	J8 – 176
J5 – 25	ACH51	J8 – 106
J5 – 26	ACH27	J8 – 174
J5 – 27	ACH50	J8 – 105
J5 – 28	ACH26	J8 – 173
J5 – 29	ACH49	J8 – 104
J5 – 30	ACH25	J8 – 172
J5 – 31	ACH48	J8 – 113
J5 – 32	ACH24	J8 – 171
J5 – 33	ACH47	J8 – 102
J5 – 34	ACH23	J8 – 170
J5 – 35	ACH46	J8 – 101
J5 – 36	ACH22	J8 – 169
J5 – 37	ACH45	J8 – 100
J5 – 38	ACH21	J8 – 168
J5 – 39	ACH44	J8 – 99
J5 – 40	ACH20	J8 – 167
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J5 – 42	ACH19	J8 – 166
J5 – 43	ACH42	J8 – 97
J5 – 44	ACH18	J4 – 165
J5 – 45	ACH41	J8 – 96
J5 – 46	ACH17	J8 – 164
J5 – 47	ACH40	J8 – 95
J5 – 48	ACH16	J8 – 163
J5 – 49	ACH15	J8 – 78
J5 – 50	ACH7	J8 – 146
J5 – 51	ACH14	J8 – 77
J5 – 52	ACH6	J8 – 145
J5 – 53	ACH13	J8 – 76
J5 – 54	ACH5	J8 – 144
J5 – 55	ACH12	J8 – 75
J5 – 56	ACH4	J8 – 143

J5 – 57	ACH11	J8 – 74
J5 – 58	ACH3	J8 – 142
J5 – 59	ACH10	J8 – 73
J5 – 60	ACH2	J8 – 141
J5 – 61	ACH9	J8 – 72
J5 – 62	ACH1	J8 – 140
J5 – 63	ACH8	J8 – 71
J5 – 64	ACH0	J8 – 139
J5 – 154	DAC1OUT	J8 – 148
J5 – 155	DAC0OUT	J8 – 79
J5 – 158	SENA1/	J6 – 200
J5 – 160	VUSBP1+	J4 – 178
J5 – 161	VUSBP1-	J4 – 179
J5 – 162	AIN8	J7 – 89
J5 – 163	AIN7	J7 – 90
J5 – 164	AIN6	J7 – 93
J5 – 165	AIN5	J7 – 94
J5 – 178	AOUT6	J7 – 91
J5 – 179	AOUT5	J7 – 92
J5 – 180	AOUT4	J7 – 95
J5 – 181	AOUT3	J7 – 96
J5 – 182	AOUT2	J7 – 99
J5 – 183	AOUT1	J7 – 100
J5 – 188	AOUT8	J7 – 87
J5 – 189	AOUT7	J7 – 88
J5 – 193	AIN4	J7 – 97
J5 – 200	AIN3	J7 – 98
J5 – 201	AIN2	J7 – 101
J5 – 202	AIN1	J7 – 102
J7 – 113	WTCHDGIN	J6 – 97
J7 – 114	WTCHDGOUT	J6 – 165
J7 – 115	DIRCTRL1	J6 – 100
J7 – 116	DIRCTRL2	J6 – 168
J7 – 117	DIRCTRL3	J6 – 169
J7 – 118	INACNT0	J6 – 98
J7 – 119	INACNT1	J6 – 99
J7 – 138	DSPDIO0	J6 – 82
J7 – 139	DSPDIO1	J6 – 83
J7 – 140	DSPDIO2	J6 – 84
J7 – 141	DSPDIO3	J6 – 85
J7 – 142	DSPDIO4	J6 – 86
J7 – 143	DSPDIO5	J6 – 87
J7 – 144	DSPDIO6	J6 – 88
J7 – 145	DSPDIO7	J6 – 89
J7 – 146	DSPDIO8	J6 – 142
J7 – 147	DSPDIO9	J6 – 143
J7 – 148	DSPDIO10	J6 – 144
J7 – 149	DSPDIO11	J6 – 145
J7 – 150	DSPDIO12	J6 – 146
J7 – 151	DSPDIO13	J6 – 147
J7 – 152	DSPDIO14	J6 – 148
J7 – 153	DSPDIO15	J6 – 149
J7 – 174	ENETTX+	J2 – 191
J7 – 175	ENETRX+	J2 – 192
J7 – 105	ENETTX-	J2 – 123
J7 – 106	ENETRX-	J2 – 124

J8 – 8	232TX1	J6 – 128
J8 – 9	232RX1	J6 – 127
J8 – 10	422TX1+	J6 – 130
J8 – 11	422TX1-	J6 – 129
J8 – 13	422RX1+	J6 – 131
J8 – 14	422RX1-	J6 – 132
J8 – 16	WSTX3-	J6 – 17
J8 – 17	WSRX3-	J6 – 16
J8 – 18	WSRTS3-	J2 – 87
J8 – 19	WSCTS3-	J2 – 88
J8 – 23	WSCLK3RX+	J6 – 74
J8 – 26	WSCLK3TX+	J6 – 77
J8 – 27	WSCTS3+	J2 – 156
J8 – 28	WSTX3+	J6 – 18
J8 – 29	WSCLK3TX-	J6 – 76
J8 – 30	WSRX3+	J6 – 15
J8 – 31	WSCLK3RX-	J6 – 75
J8 – 33	WSRTS3+	J2 – 155
J8 – 41	WSTX4-	J6 – 21
J8 – 42	WSRX4-	J6 – 20
J8 – 43	WSRTS4-	J2 – 89
J8 – 44	WSCTS4-	J2 – 90
J8 – 48	WSCLK4RX+	J6 – 78
J8 – 51	WSCLK4TX+	J6 – 81
J8 – 52	WSCTS4+	J2 – 158
J8 – 53	WSTX4+	J6 – 22
J8 – 54	WSCLK4TX-	J6 – 80
J8 – 55	WSRX4+	J6 – 19
J8 – 56	WSCLK4RX-	J6 – 79
J8 – 58	WSRTS4+	J2 – 157
J8 – 66	20MCLK	J5 – 148
J8 – 67	20MCLKRTN	J5 – 65
J8 – 82	BDIO0	J6 – 153
J8 – 83	BDIO1	J6 – 152
J8 – 84	BDIO2	J6 – 151
J8 – 85	BDIO3	J6 – 150
J8 – 128	M/SSEL	J6 – 29
J8 – 129	CLKSEL0	J6 – 163
J8 – 130	CLKSEL1	J6 – 28
J8 – 131	MHZOUT	J6 – 94
J8 – 132	AUXSTB	J6 – 93
J8 – 133	STBHI	J6 – 91
J8 – 134	STBLO	J6 – 159
J8 – 135	TMRSTB	J6 – 160
J8 – 136	EXTEVENT	J6 – 23
J8 – 137	IRIGIN	J6 – 90
J8 – 150	ADIO0	J6 – 157
J8 – 151	ADIO1	J6 – 156
J8 – 152	ADIO2	J6 – 155
J8 – 153	ADIO3	J6 – 154
J8 – 196	STBSEL0	J6 – 96
J8 – 197	STBSEL1	J6 – 164
J8 – 198	TMRCLK	J6 – 162
J8 – 199	AUX1CLK	J6 – 27
J8 – 200	AUX2CLK	J6 – 95
J8 – 201	CLK-DAS	J6 – 161
J8 – 202	CLK-IRIG	J6 – 26
J8 – 203	PPSOUT	J6 – 92
J8 – 204	PERIODIC	J6 – 25
J8 – 205	EXTPPS	J6 – 24
J8 – 206	IRIGOUT	J6 – 158
J9 – 15	WSDTR2	J6 – 8
J9 – 16	WSCTS2	J6 – 10
J9 – 17	WS232TX2	J6 – 14
J9 – 18	WSRTS2	J6 – 13
J9 – 19	WS232RX2	J6 – 11
J9 – 20	WSDSR2	J6 – 9
J9 – 21	WSCCD2	J6 – 12
J9 – 63	WS232RX1	J6 – 6
J9 – 69	USBP1+	J4 – 176
J9 – 70	USBP1-	J4 – 177
J9 – 71	USBPWR1	J4 – 175
J9 – 113	WS232TX1	J6 – 7

RELEASED Date 3.3.98 Rev NC

SIGNATURES		DATE
DR	Z. PALMER	11/17/97
ENG	[signature]	1-12-98
CK	[signature]	1/19/98
APP	[signature]	2/4/98
SE	[signature]	2/10/98
MATL	[signature]	2/6/98
STRESS	[signature]	2/26/98

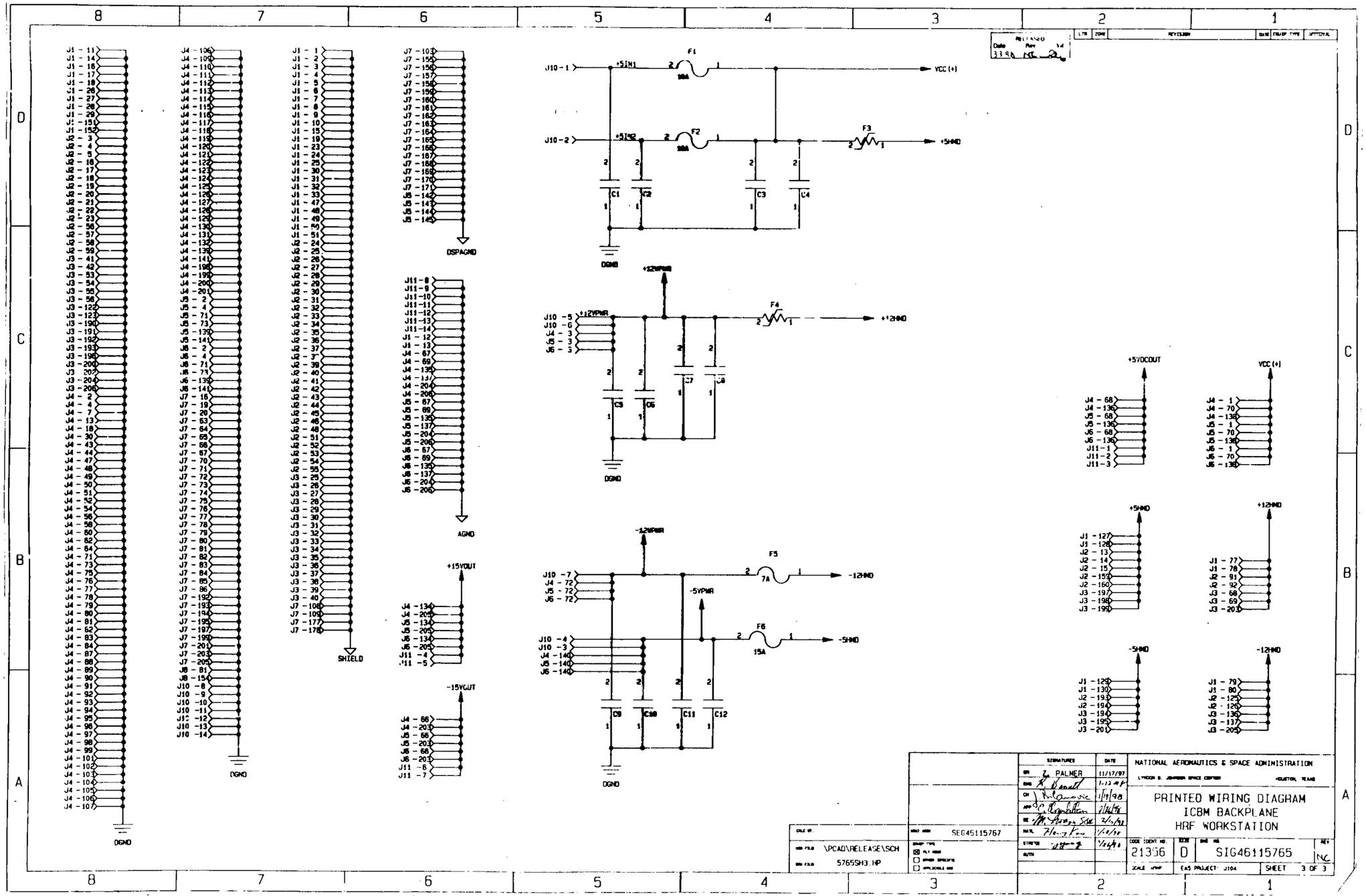
NEXT ASSY SEG46115767

\PCAD\RELEASE\SCH 5765SH2.HP

NATIONAL AERONAUTICS & SPACE ADMINISTRATION
LYNDON B. JOHNSON SPACE CENTER HOUSTON, TEXAS

PRINTED WIRING DIAGRAM
ICBM BACKPLANE
HRF WORKSTATION

CODE IDENT NO. 21356 SIZE D DWG NO. SIG46115765 REV NC
SCALE NONE EAS PROJECT J104 SHEET 2 OF 3



DSPAGND
AGND
SHIELD
DGND
+15VOUT
-15VOUT
+5VDCOUT
VCC (+)
+5HND
+12HND
-5HND
-12HND
+12VPWR
-12VPWR
-5VPWR
F1
F2
F3
F4
F5
F6
10A
7A
15A
C1
C2
C3
C4
C5
C6
C7
C8
C9
C10
C11
C12
NATIONAL AERONAUTICS & SPACE ADMINISTRATION
LYNDON B. JOHNSON SPACE CENTER
HOUSTON, TEXAS
PRINTED WIRING DIAGRAM
ICBM BACKPLANE
HRF WORKSTATION
SIGNATURES
DATE
DR Z. PALMER 11/17/97
CHK 1/12/98
APP 2/26/98
MATL 1/28/98
STRESS 1/26/98
SEG45115767
\PCAD\RELEASE\SCH
5765SH3.HP
21356
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SIG46115765
NC
EAS PROJECT: J104
SHEET 3 OF 3

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